

# **Anatomical and Physiological Characteristics for Asian Reference Man**

**— Male and Female of Different Ages :  
Tanaka Model —**

**National Institute of Radiological Sciences**



Supplement to NIRS-M-115

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## ERRATUM

Anatomical and Physiological Characteristics for Asian Reference Man – Male and Female  
of Different Ages: Tanaka Model, NIRS–M–115

Page 33, Table 15, 5th column, 1st row: 31–35 should read 31–50.

Table 15, last column, 2nd row: 900 should read 3900.

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# **Anatomical and Physiological Characteristics for Asian Reference Man**

— Male and Female of Different Ages :  
Tanaka Model —

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**March 1996**

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## ABSTRACT

Anatomical and certain physiological data are presented as Tanaka Model for Asian Reference Man- males and females of infant, child, adolescent and adult (3 months or 0 year, 1, 5, 10, 15 years and adults or 20-50 years). The present data will provide those parameters applicable to urgent needs in internal dosimetry for the public and workers in the Asian Region.

The model is basically consistent with the ICRP Reference Man (Publication 23) but has different parameters derived from observed values for normal subjects, literature data of reliable sources and some unpublished original data. For females, however, data on masses of organs were relatively scarce as compared to males.

Reference values were proposed for dimensions (body height, chest girth, sitting height and upper and lower limbs, etc.), masses (body weight, weight of internal organs and tissues) and body composition (body lipid, LBM, mineral, protein, body water) in relation to growth and maturation. Some data were also given to fetus.

Total body weight, weight of organs and tissues, contents of total blood, residual blood, water, mineral, lipid and protein as well as specific gravity in the adult male model is compared with those of ICRP Reference Man in Table 22 (equivalent to Table 105 in ICRP Publication 23). The reference values for males and females of 6 age groups are shown in Tables 23-28.

The current model for Asians is characterized by lower body lipid content than ICRP Reference Man. This probably associates with smaller consumption of meat, fats and oils and dairy products as compared with Europeans and North Americans. Another point of interest is that masses of the brain and reproductive organ (i. e. testis) in the Asian adult male are essentially the same as those in ICRP Reference Man. This means so-called scaling using the body size should not be applied at least to these organs.

If the basic concept or data of ICRP Reference Man is revised, the presently proposed values may be associatingly changed then. However at present, the first part of ICRP Reference Man revision (i. e. ICRP Publication 70 for skelton) was not introduced in this report.

Good correlations between the organ masses and the body height and or weight were found following statistical analysis for ages 0 to 19 years.



## **Foreword to Revised Edition**

The first edition of this report, NIRS-M-95 was proposed at the Research Co-ordination Meeting of the IAEA-RCA Co-ordinated Programme on Compilation of Anatomical, Physiological and Metabolic Characteristics for a Reference Asian Man, Tianjin, China, October 1993. It was also submitted to the ICRP Task Group on Reference Man in the same year.

At that meeting a great deal of data were accumulated by the participating countries and discussed. The proposed model for a Reference Asian adult male was approved by the participants as “Tanaka Model” and it was regarded to be useful and convenient in assessing internal dose in Asians, as compared to the direct use of the ICRP Reference Man of larger body sizes than average Asian males. It was also requested of one of the authors (G. T.) to provide a Reference Asian adult female, if possible.

This publication intends to fulfil the recent assignment by ICRP Task Group on Reference Man for regression analysis of organ masses against physical parameters, and, to respond to the request by IAEA on behalf of the CRP to describe models other than the adult male.

The model and parameters hereby presented are intended to contribute to internal dosimetry for populations in the Asian region, if not all, and not for any particular single population.

Entire work in this report except publication was performed at Asian Center for Reference Man Studies by one of the authors (G. T.) exchanging technical information with Oak Ridge National Laboratory and National Institute of Radiological Sciences. He is solely responsible for the data presented.



This publication contributes in part to the NIRS Project Research:  
Transfer and Distribution of Radionuclides in the  
Environment and Assessment of Environmental Radiation Doses  
Division of Radioecology  
National Institute of Radiological Sciences  
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# **1. INTRODUCTION**

## **1.1 Need for new data on characteristics of man**

For the purpose of radiation protection, quantitative description of the physical, physiological and metabolic characteristics and life style of man should be the basis for calculating equivalent doses and annual limits on intake for radionuclides (ICRP 1979). This seems to be the same approach adopted in the revised basic recommendation by the ICRP (ICRP 1990).

The ICRP recommended the use of Reference Man to replace Standard Man as model of man to be applied in radiation protection, and compiled as much data as available on the anatomical, chemical and physiological parameters (ICRP 1975). Committee 2 of the ICRP set up the Task Group on Reference Man Revision to revise and extend Reference Man in the light of newly accumulated data with special consideration on both sexes and ages (Richmond 1985). This means it will consider radiation risks for not only radiation workers but also members of the public. As a result, the revision are being carried out to cover data for women and children. Some anatomical data for mathematical phantoms were given for the male and female of the following discrete ages: 0, 1, 5, 10, 15 years and adult, to cover practically all ages (ICRP 1989). The first volume of the revised anatomical and physiological values for Reference Man has recently been published (ICRP 1995).

## **1.2 Need for Asian Reference Man**

Recent interest in variation of human characteristics has lead also to consideration of and establishing reference values for Asians, or non-European populations (IAEA 1988).

ICRP Reference Man, according to the definition, is primarily for Caucasoid populations (Western Europeans and North Americans) that contributes approximately 13% of the world population. A speculative world population dose when assuming a uniform exposure all over the world at a level of 10  $\mu$ Sv, will be  $5 \times 10^4$  man Sv in total. To this, all regions inhabited by Caucasoid populations may contribute about 22% at maximum. Asian populations will share about 58% ( $2.9 \times 10^4$  man Sv) of the world population dose (Tanaka 1989). If reference man data for Asians are made available, about eighty per cent in total of the world population can consequently be covered by scientific dose assessment.

It has been observed that differences exist for habitat, race, body sizes, customs and pattern of food consumption between Asian, and (Western) European (and North American) populations for the latter of which Reference Man has been recommended by the ICRP (Tanaka et al. 1979; ICRP 1975; Tanaka 1992).

## **1.3 Significance of Asian population in radiation protection**

The population of the world during the period from 1950 to 2020 is estimated by United Nations (1991). The “medium variation” estimated for the Asian regions is reproduced in Table 1. The total

number of population inhabiting these regions is estimated to be 3.11 billion in 1990 and accounts for roughly 60% of that of the world.

As the economic development in Asian regions continues to progress, their industrial structure may shift rather rapidly from primary industries including agriculture to the secondary (and then tertiary) industries. This will necessitate increased demand for energy supply in Asia, and it is reasonably expected that the share of nuclear power would grow in the total energy production possibly in a near future. With such a situation to come in mind, it may be apparently urgent to establish models of man including phantoms to be used for dose assessment to cope with problems in the radiological protection.

#### **1.4 Dietary pattern**

One of such differences between Asian and European populations, for example, lies in the fact that Asians generally consume more foods of plant-origin, i. e. foods with lower calories than Western people. This is in contrast to the typical food habit for Western European and North American populations, or dependence on foods of animal-origin as shown later.

## **2. ASIAN REFERENCE MAN**

### **2.1 Definition**

Asian Reference Man is defined as a group of reference man and woman of specific ages who represent the populations living in Asia and have customs and food habit there.

Their somatological and anatomical data are alike each other and their dietary habit is similar in type and quality. Comparatively speaking, they are more vegetarian than Western peoples are.

Tanaka Model for Asian Reference adult male is 170 cm high (approximate range: 165-172 cm) and weighs 60 kg (approximate range: 55-62 kg). In comparison, revised ICRP Reference Man is 176 cm tall and weighs 73 kg, respectively as shown in Table 2. The body height and weight of Reference Woman was revised to 163 cm and 60 kg, respectively.

### **2.2 Nature of the data involved**

Tanaka Model for Asian Reference Man is based on the common concept with the ICRP Reference Man for Caucasians. The reference values were set by supposedly the same system as was used by ICRP as shown in Fig. 1. The data were obtained from the following publications and chosen on the basis of reliability to ensure suitable scientific standards of reference values (refer to Table 3):

- a) publications of international bodies, i. e. United Nations, FAO, WHO, ICRP, IAEA, UNSCEAR.
- b) official statistics published by national governments,
- c) scientific journals and reports published by national laboratories,
- d) other academic publications particularly on normal anatomical and physiological data, and

e) unpublished data.

Data obtained from normal and healthy subjects should be the basis for Asian Reference Man and also for ICRP Reference Man. The reference values of this publication came from large amount of normal data which were processed by commercially available softwares for statistical analysis on universal computers at first and then on personal computers (NEC-PC and Apple Macintosh).

The reference values proposed in this publication can be renewed when the ICRP Reference Man is revised because Tanaka Model keeps the common basic concepts.

### **2.3 Population studied**

Height and weight of the total body of normal Japanese, partly with skinfold thickness, were taken from national statistics yearly reported. Mass of organs of normal Japanese was obtained as reported previously and data from another source was also referred to.

Data on physical measurements and, where possible, organ masses were collected by Asian countries during the IAEA-RCA Co-ordinated Research Programme by the end of 1993. Intake of categorized foods and nutrients was also studied. Participants included those from Bangladesh, China, India, Indonesia, Japan, Korea, Pakistan, Philippines and Vietnam. Some data was reported from Malaysia and Thailand. The compilation of data is going to be published as a TECDOC by IAEA and could not be referred to in this report in detail (IAEA 1988 ; 1991).

It appears that national statistics on physical measurements particularly for students are not generally available except for Japan, Korea and China. A medical examiners office as a source of normal organ masses does not appear to exist in other countries. Medico-legal data is, however, available in the Philippines.

## **3. OBSERVED VALUES AND TANAKA MODEL FOR ASIAN REFERENCE MAN**

### **3.1 Measurement of physique**

#### **3.1.1 Fetus**

The average body height and weight of the fetus of various gestational ages taken from ref. (Tanaka, Fujimoto, Yoshioka, Ootani and Shinohara 1990), are shown in Tables 4 and 5. The gestational week as expressed in the Western way is shown in the first column while in the second column, the normal week for parturition is denoted as 0, the prenatal week being expressed as minus. This is to facilitate recognition of the fetal age because a difference exists between the European and Japanese methods of counting weeks of pregnancy. The observed data points were fitted with polynomial equations by the least square method and the results are also shown in Tables 4 and 5.

### 3.1.2 Newborn, infants and children under 6 years

Substantial number of data were obtained from the publication which are made available in every five years under the supervision of the Ministry of Health and Welfare (Mothers' and Children's Health and Welfare Association 1991). The 20, 25, 50, 75 and 90 percentiles of body height, body weight and chest girth of males and females, newborn to under 6 years are shown in Table 6, 7 and 8, respectively.

### 3.1.3 Children, adolescents and adults

The physical measurements collected by the CRP included body height and weight, sitting height, chest circumference, head circumference and some other parameters needed for designing phantoms. The body height and weight along with sitting height are shown in Fig. 2 (IAEA 1991).

Concerning measurements physique or anthropometric measurements of Japanese, annually reported data were available in the School Health Survey carried out by the Ministry of Education, Science and Culture (1977a-1991) and the data in the National Nutrition Survey yearly conducted by the Ministry of Welfare were also referred to (1979-1990) as described elsewhere (Tanaka 1992). The number of data in the former statistics for the children and adolescents amounted to  $7.78 \times 10^6$  in total during the period from 1976 to 1988. That for the latter study was approximately 20,000.

Data from China was available through a national surveillance of the physical measurements first carried out in 1979 (State Education Commission et al. 1988) where the number of subjects studied in this single study was  $9.85 \times 10^5$ . Also available were the results of a joint study on Japanese and Chinese students (Asami and Chen 1986). Wang et al. reviewed recent Chinese data (Wang et al. 1992) to give reference values for Chinese.

Means and standard deviations of lengths and weights of the total body, and sitting heights and chest girths of the Japanese male and female, as averaged for the period from 1976 to 1988, were described previously (Tanaka 1992). Frequency distributions in Japanese of these physical measurements for the age 17 during 11 years starting from 1975 were obtained to analyze distribution patterns (Gaussian or skewed) (Ministry of Education, Science and Culture 1977a-1986).

Height and weight of the body of Japanese and Chinese of various ages from birth to 18 and 20 years are shown in Table 9 and 10. Comparison of the above Japanese and Chinese data showed no appreciable difference. Similar conclusion was drawn also from the results of a joint study on children and youth (Asami and Chen 1986).

Consequently, from the both data, reference values for Asian Reference Man were obtained and the results are also shown in Tables 9-10.

Secular trends in growth of Japanese since early 1900s has been known (Matsumoto 1982). However, analysis of data from the Japanese school statistics revealed slight changes during the past thirteen years in the frequency distribution of four types of anthropometric measurement. This suggests that the growth of Japanese is coming to nearly a steady state. The statistics for physical measurements for healthy subjects aged 0-80 years by the Ministry of Health and Welfare showed similar values.



Acceleration of growth in Koreans and Japanese was studied comparatively and the acceleration rate in Koreans was found 1.3 to 1.4 times faster than in Japanese by analyzing the Statistics on Education in Korea (Song et al. 1985).

Taking statistical variation into consideration, a man of 65 kg or another man of 55 kg in weight, for instance, is within one sigma range and can be regarded to belong to the typical physique of 60 kg.

The 50 th percentile figures were considered, for the purpose of the present report, for “reference body weights” for the seven age groups. These were used later in estimating body lipid contents.

### **3.2 Lengths of upper and lower limbs**

These parameters are important since they are to be used in designing phantoms as well as estimating lengths of bone in the limbs. The lengths of interest were obtained using the established equations (Hoshi 1989) and shown in Table 11 and 12.

### **3.3 Body surface**

Body surface is an important parameter in relation to metabolism. Reference values of the body surface for males of different ages were obtained by using the Fujimoto’s equation (Ministry of Health and Welfare 1979b). The detailed estimates for ages 0 to 79 years obtained by using different methods are compared elsewhere (Tanaka 1992, Table 76).

### **3.4 Skinfold thickness**

Averages and standard deviations of skinfold thickness for males and females from 15 to over 70 years (Ministry of Health and Welfare 1978-1991) were shown for the two periods, from 1975 to 1980 and 1981 to 1989 in Table 13a and 13b. No remarkable difference was seen between the two periods. Skinfold thickness of males and females of 5 to 17 years was inversely calculated with the Nagamine’s equations modified by Tanaka which are to be mentioned later, and confirmed by limited measurements of a few tens of normal subjects tried by one of the authors (G. T.), as shown in Table 14.

### **3.5 Mass of organs**

Reference values for masses and dimensions of organs are essential parameters in the internal dose assessment. By other methods it is difficult so far to obtain measurements of organ weights in vivo, while the measurements at autopsy for the pathological studies are generally not appropriate for radiation protection purposes since those patients who died of diseases are regarded as somehow different from normal and healthy subjects who were socially active.

Data on weight was collected by the CRP included that of the brain, heart, kidney, liver, lung, pancreas, pituitary gland, spleen, testis, thymus and thyroid. Masses of a few organs reported as tentative values are shown in Fig. 3 (IAEA 1991).

The weight and size of twelve organs in the male and eleven organs in the female were measured in autopsy cases during the period between 1971 and 1976 (Tanaka et al. 1977; 1978; 1979). Autopsy was carried out at the Tokyo Medical Examiner's Office 12 to 24 h after death for normal subjects who died of sudden deaths. From the protocols of 10,598 cases, 2,880 cases were selected, then the results were put into and statistically analyzed by a computer (CDC 6600).

The above data were supplemented later: 5,370 cases with no or little pathological change, from the approximately 18,000 autopsy cases in total during the period between 1970 and 1980, were selected and analyzed as shown in Table 15 (Tanaka, Nakahara, Nakajima 1989). Ages less than one year were also included. The data, from individuals regarded as practically normal and healthy, will be most appropriate for use in considering mass of organs in Asian Reference Man.

Means and standard deviations of masses of twelve and eleven organs for healthy normal Japanese males and females, respectively, of ages from 0-1 months (regarded as newborn) to 80-89 years were described in detail elsewhere (Tanaka 1992, Tables 8-22). Relative weights of organs to the total body weight as measured for every subjects at autopsy were also shown although the body weight appeared to be subject to change after death. The observed values of organ masses at various ages were, furthermore, processed by use of ICSVKU in a program package CMSL to obtain cubic spline approximation functions on an IBM 3084 computer (Tanaka 1992). The "smoothed" growth curves for each organ thus obtained will, although they were obtained from a cross sectional study, and not from a longitudinal one, provide invaluable quantitative information on the growth of individual organs which was mentioned briefly (ICRP 1975, Fig. 16).

Representative weights of these organs in males and females at any discrete age, i. e. 0-1 and 2-3 months, 1, 5, 10 and 15 years, and adult (20-50 years) were also given (Tanaka 1992, Table 77). To clarify the distribution pattern of organ masses, histograms were obtained for adult males and females as shown in Figs. 4-5. The data indicate that arithmetic means can be generally used as representative values.

The results for the adults were compared with the corresponding data obtained in 1952 for the Japanese who were normal but in low-levels of nutrient intakes after the World War 2 (Aimi, Yasoshima, Sugai, Sato, Sakai, Nakajima 1952). Since that time, weights of the liver increased by 8%, and weights of the kidney, heart, spleen and adrenal gland by 15-20%. However, pituitary gland showed an 18% decrease while almost the same values were found for the brain and thyroid gland during the past about 30 years. The data will be useful to consider effects of nutritional levels on masses and dimensions of internal organs in a population.

Other type of data on the mass and size of organs in normal Japanese were recently obtained in literature, which is a critical compilation of measurements made at forensic departments in Japan (Investigation Committee 1992). Both data were used for the Tanaka Model.

### 3.6 Regression analysis of organ masses in relation to body height

Interest in correlations between the organ mass and body weight or height, or both has led to the present study. In the first version, regression analysis of the organ mass and body height was carried out, using the previously obtained data for normal Japanese (Tanaka, Nakahara and Nakajima, 1989), for eight age groups 0-2, 3-7, 8-12, 13-19, 20-34, 35-49 and 20-49 years, by using HALBAU or High Quality Analysis Libraries for Business and Academic Users (Yanai, H. and Takagi, H. 1986). The results of analysis were given including a scatter plot, fitted regression line, linear correlation coefficient (r) for each age group (Tanaka 1993, Fig. 5-34). Correlation coefficients obtained were, however, generally low except for the age group 0-2.9 years; in the adult groups, correlation coefficients were less than 0.4.

In the present work, different age groups were chosen: 0-19 years other than 20-49 and 0-49 years. The 0-19 years group was set as the growing stage, while the 20-49 years, the adult stage as assumed in the previous work. For the brain and testis, the growing period was divided into two phases for the analysis because of the rapid growth in the brain weight during infancy and the sharp increase in the testis weight in teens.

The following equations were assumed as those for regression curves:

$$\text{Organ mass} = aW + b \quad (1)$$

$$\text{Organ mass} = aH + b \quad (2)$$

$$\text{Organ mass} = aH^2 + b \quad (3)$$

$$\text{Organ mass} = aH^3 + b \quad (4)$$

$$\text{Organ mass} = aH + bW + c \quad (5)$$

where, H and W representing the height and weight of a subject at autopsy, respectively, and a, b and c are constants.

Results of the regression analyses assuming the above different functions were obtained for the male and female and shown in Tables 29-99 and Figs. 7-36. To summarize the results, major parameters obtained are tabulated in Table 100 and 101. From the results, it is noted that Eq. 3 involving the  $H^2$  term gave highest "r" values while Eqs. 1 and 5 also gave equally high "r" s for the age group, 0-19 years or the growing stage. Regression for 20-49 years resulted in poor "r" values as previously found for the function: organ mass =  $aH + b$  (Tanaka 1993).

### 3.7 Mass of the skeleton

#### 3.7.1 Mineral bone and other tissues

Skeleton consists of bone, marrow, skeletal cartilage and periarticular tissues (ICRP 1975).

Weights of 17 complete sets of bone samples of Japanese prepared by a rapid method were measured (Tanaka, G. and Hoshi, H., Unpublished data). The weights included 9.7% of water, and, these were normalized to the reference water content of mineral bone, 17% (ICRP 1975). Masses of mineral bone

of various parts of the skeleton are shown in Table 16.

Weights of different parts of bone were previously estimated from those of dry bone in the selected literatures and the measurements made on more than one hundred skeletons (Nomura, Tanaka, Hanihara and Hoshi, Unpublished data). Conversion factors for the dry bone to estimate weights of the wet bone were calculated and shown in Table 17.

The total mass of the mineralized bone is 4500 g. Masses of the cartilage and periarticular tissue are 900 and 700 g, respectively and weight of the skeleton including marrows is 8.4 kg as shown in Table 21 and 22.

### 3.7.2 Bone marrow

Bone marrow consists of active red marrow and yellow marrow. The former is located mostly inside the trabecular type bone and is highly important in view of radiation risks to man.

Relative distribution of the red marrow in different types of bone was taken from Ellis's data for a Caucasoid skeleton (Ellis 1961) rather than Hashimoto's for the Japanese (Hashimoto 1960; 1963). This is because distribution of the red marrow in vertebral bones in the latter is too small. The marrow weights were normalized to blood contents (ICRP 1975). The weight of the red bone marrow for Tanaka Model for Asian Reference Man is 1000 g as shown in Table 16 and 22. Another value, i. e. 765 g reported by Hashimoto et al. was not adopted following the discussions in the ICRP Task Group on Reference Man in 1988. In comparison, it was 1,500 g for ICRP Reference Man, and the revised value is 1170 g (ICRP 1995).

Reference mass of the yellow marrow is 1300 g (see Table 22).

## 3.8 Body composition

The contents of water, lipid (or fat) and mineral were determined for some number of tissue samples from normal Japanese subjects (Tanaka and Nomura, Unpublished data), but they were not used for the present paper.

To consider composition of the body and tissues, it is most appropriate to use a concept of Lean Body Mass (LBM) which can be obtained by subtracting the mass of the body lipid from the body weight (Forbes 1987), as a measure of mass of active tissues. The Lean Body Mass was used as the basis for estimating the contents of blood, water and muscle in Asian Reference Man. The "gross contents" or contents of body constituents of ICRP Reference Man (ICRP 1975) were taken into consideration in the present report.

### 3.8.1 Lipid (body fat)

The lipid content is usually estimated by using the results of whole body counting of potassium-40 or by using measurements of skinfold thickness. Using the data on skinfold thicknesses obtained for various ages as shown in Tables 13a-13b, the lipid content in per cent body weight was estimated using Nagamine's equations, which were presently modified by Tanaka to apply to all range of age

(Nagamine, Suzuki 1964; Nagamine 1982). The results thus obtained for the males and females from 15 to 60-69 years are shown in Table 14. For 0-4 years, the lipid content was taken from Table 33 of ref. (ICRP 1975). The body lipid contents for Asian Reference males and females are also presented in Fig. 6.

Body lipid is approximately 13.2 and 15.1% of the body weight in the male and female of 12 years, respectively. In the male and female of 20-50 years, it is 17.4 and 24.8% in average, respectively. In recent years, however, there is a slight tendency of obesity in Japanese as compared with other populations in Asian countries.

### 3.8.2 LBM, mineral (ash), protein and body water

The data for LBM, contents of mineral or ash, protein and body water for the males and females from newborn to 69 years are presented in Table 19 and 20. The percentage body water, in general, decreases as age increases. Mineral content refers to that of the hard tissues, i. e. skeleton and teeth. LMB was also estimated by using body potassium content measured by a whole body counter as shown in Table 18 (Uchiyama 1987).

The total content of water, mineral, lipid and protein as observed for Asian Reference Man (adult male) is 37, 3.3 and 10.4 and 8.9 kg, respectively as shown in Table 19. That for the female is presented in Table 20.

Some of these are compared with those of ICRP Reference Man as shown in Table 21. The ratio of Asian Reference Man to ICRP Reference Man is 0.86 for the body weight, and 0.74 for the body lipid (Tanaka 1988; 1990). The content of fat in Asian Reference Man, when normalized to body weight, is 86% of that in ICRP Reference Man. Part of explanation for this difference may come from the difference in consumption of animal fat between the two populations.

## 3.9 Physical properties, blood content and composition of organs of Asian Reference Man in comparison with ICRP Reference Man

Reference values for Asian Reference adult male on physical properties of the 116 tissues, organs and their contents are summarized in Table 22. A few other organs or tissues which are not defined in Reference Man (ICRP 1975), breast and penis, were included. The weight of total body is 60 kg, the total volume of blood is 4.5 liters.

These figures are compared in detail with those of ICRP Reference Man for Caucasoids as shown in Table 22 (for the latter refer to Table 105, ICRP Publication 23).

## 3.10 Physical properties, blood content and composition of organs and tissues of Asian Reference male and female of 0 (3 month), 1, 5, 10, 15 and 20-50 years : Tanaka Model.

Weights in situ of all organs, tissues and contents along with their composition for the six age groups are presented in Tables 23-28. The reference values in these tables will facilitate more realistic



internal dose assessment for Asian male adults, adolescents, children and infants, for whom no suitable data on organ masses did not exist.

#### **4. PATTERN OF FOOD CONSUMPTION IN ASIANS AND ITS POSSIBLE ROLE IN UPTAKE AND METABOLISM OF RADIONUCLIDES**

Geographical differences as well as trends in per caput net caloric intakes, protein and fat in the world are shown in Fig. 37, the data of which were taken from the FAO statistics (FAO 1985). While net supply of energy or calories per person per day is relatively lower in Asians than North Americans, Western Europeans, and peoples of Russian Federation and Eastern Europe, the relative contribution of foods of vegetable or plant origin is by far larger in Asians than in the Westerners. This is also the case with per caput net supply of protein and fat.

An important characteristics of Asians is that they are, comparatively speaking, “vegetarians”: a fact which may suggest different pathways of transfer of radionuclides from the environment to the human body.

Furthermore, the intake of much larger amounts of certain elements may cause smaller values of the fractional deposition and biological half-life in organs than those presumed by the ICRP. For instance, 20% or lower of the ingested radioiodine is taken up by the thyroid gland and the biological half-life of the deposited radioiodine is approximately 35 days (Tanaka et al. 1979; Uchiyama et al. 1982; Yoshizawa and Kusama 1976). No similar situations are known for other areas in the region, though.

Any other specific example of radionuclide uptake characteristic to Asians is not identified at present. However, further studies on intake of elements should be expected to provide us reference values on elemental intake that are important part of reference man.

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## APPENDIX

### Data Processing Methods

#### 1. Cubic Spline Approximation

This method is used to get the approximation functions. The subroutine named ICSVKU is available in a mathematical computer program package, CMSL. The IBM 3084 computer was utilized for processing and the programming language was FORTRAN 77.

The subroutine starts with a given set of knots and varies them one by one in order to determine the knot locations that minimize the least square error.

The error to be minimized by ICSVKU is defined as

$$\text{ERROR} = \text{SQRT} (R(1)^2 W(1) + \dots + R(NX)^2 W(NX))$$

where

$$R(I) = F(I) - S(X(I)), \quad I = 1, \dots, NX$$

$$W(1) = (X(2) - X(1)) / (X(NX) - X(1))$$

$$W(I) = (X(I+1) - X(I-1)) / (X(NX) - X(1)) \quad I = 2, \dots, NX-1$$

$$W(NX) = (X(NX) - X(NX-1)) / (X(NX) - X(1))$$

$(X(I), f(I))$  ( $I = 1, \dots, NX$ ) is the given set of points and  $s$  is the least squares cubic spline approximation to that set of points.

This process is started with the right most interior knot and proceeds sequentially to the left. Iterations continue until a termination criterion is met (see the reference).

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## 2. Least Squares Method for Polinomial Fitting

The least squares method is used to express a set of observed databy a polinomial expression fitting. The available experimental data are  $(x_0, y_0), (x_1, y_1), \dots, (x_m, y_m)$ , totally  $m+1$  points. Suppose the data will be expressed by a polinomial expression as follows

$$\begin{aligned} y(x) &= a_n x^n + a_{n-1} x^{n-1} + \dots + a_1 x + a_0 \\ &= \sum_{i=0}^n a_i x^i \end{aligned} \quad (1)$$

where,  $a_0, a_1, \dots, a_n$  are coefficients of the polinomial.

Firstly, put experimental data  $x_0, x_1, \dots, x_m$  into the expression (1) and then a series of calculated  $y_i$  can be obtained. The sum of squares of error between the calculated  $y$  and experimental  $y$  is given by equation (2).

$$\begin{aligned} \varepsilon &\equiv \left( \sum_{i=0}^n a_i x_0^i - y_0 \right)^2 + \left( \sum_{i=0}^n a_i x_1^i - y_1 \right)^2 + \dots + \left( \sum_{i=0}^n a_i x_m^i - y_m \right)^2 \\ &= \sum_{j=0}^m \left( \sum_{i=0}^n a_i x_j^i - y_j \right)^2 \quad (n \leq m) \end{aligned} \quad (2)$$

To minimize the error  $\varepsilon$  means to calculate differentials of  $\varepsilon$  about these coefficients and let the differentials be equal to zero and at last, we can get the desired coefficients of the polinomial.

$$\begin{aligned} \frac{\partial \varepsilon}{\partial a_k} &= 2 \sum_{j=0}^m \left( \sum_{i=0}^n a_i x_j^i - y_j \right) x_j^k = 0 \\ \sum_{j=0}^m \sum_{i=0}^n x_j^{i+k} a_i &= \sum_{j=0}^m x_j^k y_j \end{aligned} \quad (3)$$

In equation (3), the unknown variables are the required coefficients only. If we change the equation (3) into a matrix form the problem will be simplified.



$$\begin{pmatrix}
m+1 & \sum_{j=0}^m x_j & \cdots & \sum_{j=0}^m x_j^n \\
\sum_{j=0}^m x_j & \sum_{j=0}^m x_j^2 & \cdots & \sum_{j=0}^m x_j^{n+1} \\
\cdot & \cdot & & \cdot \\
\cdot & \cdot & & \cdot \\
\sum_{j=0}^m x_j^n & \sum_{j=0}^m x_j^{n+1} & \cdots & \sum_{j=0}^m x_j^{2n}
\end{pmatrix}
\begin{pmatrix}
a_0 \\
a_1 \\
\cdot \\
\cdot \\
a_n
\end{pmatrix}
=
\begin{pmatrix}
\sum_{j=0}^m x_j \\
\sum_{j=0}^m x_j y_j \\
\cdot \\
\cdot \\
\sum_{j=0}^m x_j^n y_j
\end{pmatrix} \quad (4)$$

This matrix form can be written as  $XA=Y$ . And the solution of A (coefficients) is simply as  $A=XY^{-1}$ .

**Table 1. Changes in the number of population in the Asian region during the period from 1950 to 2020 (“medium variation” as presented by United Nations in 1991).**

Region and country or Area	Population (thousands)							
	1950	1960	1970	1980	1990	2000	2010	2020
<b>Asia</b>	<b>1,380,000</b>	<b>1,670,000</b>	<b>2,100,000</b>	<b>2,580,000</b>	<b>3,110,000</b>	<b>3,710,000</b>	<b>4,240,000</b>	<b>4,700,000</b>
<b>Eastern Asia</b>	<b>671,000</b>	<b>792,000</b>	<b>987,000</b>	<b>1,180,000</b>	<b>1,340,000</b>	<b>1,510,000</b>	<b>1,620,000</b>	<b>1,700,000</b>
China	555,000	657,000	831,000	996,000	1,140,000	1,300,000	1,340,000	1,480,000
Hong Kong	1,970	3,080	3,940	5,040	5,850	6,340	6,510	6,510
Japan	83,600	94,100	104,000	117,000	123,000	128,000	131,000	129,000
Korea	30,100	35,800	46,500	56,400	64,600	72,500	78,800	83,100
D.P.R. of Korea	9,730	10,800	14,600	18,300	21,800	26,100	29,300	31,900
Republic of Korea	20,400	25,000	31,900	38,100	42,800	46,400	49,500	51,200
Macau	188	169	245	323	479	656	780	820
Mongolia	761	959	1,260	1,660	2,190	2,850	3,610	4,420
<b>South-eastern Asia</b>	<b>182,000</b>	<b>225,000</b>	<b>287,000</b>	<b>360,000</b>	<b>445,000</b>	<b>535,000</b>	<b>616,000</b>	<b>691,000</b>
Brunei Darusslam	46	84	130	185	266	333	377	399
Cambodia	4,350	5,430	6,940	6,400	8,250	10,000	11,500	13,300
East Timor	433	501	605	581	737	876	978	1,100
Indonesia	79,500	96,200	120,000	151,000	184,000	219,000	247,000	273,000
Lao People's D.R.	1,760	2,180	2,710	3,210	4,140	5,460	6,840	8,050
Malaysia	6,110	8,140	10,900	13,800	17,900	22,000	25,200	28,500
Myanmar	17,800	21,700	27,100	33,800	41,700	51,100	60,600	68,700
Philippines	21,000	27,600	37,500	48,300	62,400	77,500	92,100	105,000
Singapore	1,020	1,630	2,080	2,420	2,720	3,000	3,170	3,290
Thailand	20,000	26,400	35,700	46,700	55,700	63,700	71,600	78,100
Viet Nam	30,000	34,700	42,700	53,700	66,700	82,400	97,400	111,000
<b>Southern Asia</b>	<b>481,000</b>	<b>596,000</b>	<b>755,000</b>	<b>948,000</b>	<b>1,200,000</b>	<b>1,500,000</b>	<b>1,790,000</b>	<b>2,040,000</b>
Afghanistan	8,960	10,800	13,600	16,100	16,600	26,500	32,400	37,900
Bangladesh	41,800	51,400	66,700	88,200	116,000	151,000	188,000	220,000
Bhutan	734	868	1,050	1,250	1,520	1,910	2,390	2,860
India	358,000	442,000	555,000	689,000	853,000	1,040,000	1,220,000	1,370,000
Iran	16,900	21,600	28,400	38,900	54,600	68,800	87,800	106,000
Maldives	82	92	114	155	215	283	350	409
Nepal	8,180	9,400	11,500	14,900	19,100	24,100	28,900	33,100
Pakistan	39,500	50,000	65,700	85,300	123,000	162,000	205,000	248,000
Sri Lanka	7,680	9,890	12,500	14,800	17,200	19,400	21,500	23,700
<b>Western Asia</b>	<b>42,400</b>	<b>55,900</b>	<b>73,700</b>	<b>98,600</b>	<b>132,000</b>	<b>172,000</b>	<b>217,000</b>	<b>264,000</b>
Bahrain	116	156	220	347	516	683	827	943
Cyprus	494	573	615	629	701	762	819	874
Democratic Yemen	992	1,210	1,500	1,860	2,491	3,430	4,580	5,800
Gaza Strip	245	303	350	441	592	760	947	1,140
Iraq	5,160	6,840	9,360	13,300	18,900	26,300	35,300	45,100
Israel	1,260	2,110	2,970	3,880	4,600	5,320	6,010	6,620
Jordan	1,240	1,700	2,300	2,920	4,010	5,560	7,280	9,040
Kuwait	152	278	744	1,380	2,040	2,640	3,150	3,590
Lebanon	1,440	1,860	2,470	2,670	2,700	3,330	3,900	4,450
Oman	413	505	654	984	1,500	2,180	3,110	4,200
Qatar	25	45	111	229	368	499	631	781
Saudi Arabia	3,200	4,080	5,750	9,370	14,100	20,700	29,600	39,700
Syrian Arab Republic	3,500	4,560	6,260	8,800	12,500	17,800	24,300	30,900
Turkey	20,800	27,500	35,300	44,400	55,900	66,800	75,300	83,700
United Arab Emirates	70	90	223	1,020	1,590	1,950	2,280	2,560
Yemen	3,320	4,040	4,840	6,360	9,200	13,200	18,500	25,000

**Table 2. Asian Reference Man adult male and female as Tanaka Model compared with revised ICRP Reference Man and Woman**

	Tanaka Model for Asian Reference Man Male Female	Revised ICRP Reference Man*  Male Female
Age (y)	35 (20-50)	35 (20-50)
Body weight (kg)	60 51	73 60
Height (cm)	170 160	176 163
Habitat and food habit of	Asia	Western Europe and North America
Race	Mangoloid and South Caucasoid	Caucasoid

\*) ICRP Publication 70 (1995).

Table 3. List of the data used for analysis in the present publication.

## Abbreviation

<b>A</b>	Authorized Data
<b>IO</b>	International Organization Data Published by UN, WHO, FAO, ICRP, IAEA and other international organizations.
<b>GP</b>	Government Publication: 1. <b>Japanese Statistics (annual reports)</b> <b>MHWJ:</b> Ministry of Health and Welfare (Japan) <b>ME J:</b> Ministry of Education (Japan) <b>MAFFJ:</b> Ministry of Agriculture, Forest and Fishing 2. <b>Chinese Students Statistics (1988)</b> (State Education Commission, State Physical Culture Commission, Ministry of Public Health and State Nationalities Affaires Commission, Research of the Constitution and Health of Chinese Students, People's Education Press) 3. <b>Sino-Japanese Students Statistics</b> (Chino-Japanese cooperative study on physical fitness of children and youth(1)) (Japan Gymnastic Association, Tokyo; 1987)
<b>AJ</b>	Academic Journals
<b>Main D</b>	Main Data Set Reports from research organizations. This is the central data set in this whole project.
<b>Main-Comp</b>	ibid. Data (Computer Processed)
<b>PP</b>	Private Publication
<b>PP-Comp</b>	ibid. Data ( Computer Processed )
<b>Est.</b>	Estimated Data
<hr/>	
<b>ICRP23</b>	ICRP Publication 23 Reference Man (1975)
<b>RJ 92</b>	NIRS-M-85 (1992) Reference Japanese. Vol.1, Anatomical Data
<b>ARM 93</b>	NIRS-M-95 (1993) Anatomical and Physical Characteristics for Asian Reference Man

Table 4. Body length of fetus by gestational age-observed values and those fitted by a polynomial function (unit: cm).

Gestational week		Male			Female			Fitted Value	
		n	Ave.	S.D.	n	Ave.	S.D.	Male	Female
-23	-15	3	30.50	1.40	7	29.80	2.50	30.65	29.99
	-14	3	35.20	2.10	1	34.50	-	34.83	33.88
24-25	-13	6	37.20	1.60	4	35.50	6.30	37.96	36.83
26-27	-12	7	41.10	7.30	5	40.10	1.70	40.26	39.06
	-11	12	41.80	3.70	10	41.20	5.20	41.95	40.74
29	-10	9	43.40	3.90	7	42.20	4.30	43.19	42.05
30	-9	18	44.00	3.60	14	42.70	4.60	44.14	43.10
31	-8	15	44.50	2.70	15	42.80	1.70	44.92	44.01
32	-7	29	45.90	2.60	19	45.40	2.60	45.63	44.86
33	-6	41	46.10	2.40	37	45.40	2.50	46.33	45.71
34	-5	51	46.40	3.60	36	47.20	3.20	47.08	46.58
35	-4	23	48.20	3.60	35	47.40	2.50	47.87	47.48
36	-3	63	49.50	1.90	55	48.70	2.70	48.71	48.40
37	-2	130	49.70	2.10	130	49.40	2.00	49.54	49.29
38	-1	250	50.20	2.10	220	49.90	2.20	50.32	50.08
39	0	243	51.00	2.00	238	50.80	1.80	50.93	50.67
40	1	161	50.70	2.20	141	50.60	1.70	51.26	50.94
41	2	39	51.00	2.20	47	50.50	2.40	51.17	50.74
42	3	39	50.80	2.60	26	50.20	2.30	50.47	49.91
43									

Table 5. Body weight of fetus by gestational age-observed values and those fitted by a polynomial function (unit: g).

Gestational week		Male			Female			Polynomial Fitting	
		n	Ave(g)	S.D.	n	Ave(g)	S.D.	Male	Female
-23	-15	6	800	454	9	639	242	637	578
	-14	6	850	231	5	830	147	917	844
24-25	-13	20	1065	297	12	925	317	1132	1058
26-27	-12	13	1435	739	14	1207	199	1303	1236
	-11	24	1504	483	20	1450	355	1447	1391
29	-10	30	1677	427	16	1638	522	1579	1536
30	-9	35	1861	501	30	1700	414	1710	1678
31	-8	42	1910	362	31	1766	216	1847	1825
32	-7	55	2025	385	44	2030	370	1997	1981
33	-6	76	2201	361	59	2168	427	2160	2147
34	-5	79	2339	401	63	2307	514	2337	2323
35	-4	49	2452	563	60	2380	475	2524	2506
36	-3	80	2824	421	76	2650	544	2712	2689
37	-2	156	2991	500	151	2920	473	2893	2865
38	-1	268	3113	433	235	3092	417	3052	3024
39	0	263	3270	499	261	3147	458	3174	3154
40	1	155	3314	503	150	3233	474	3239	3238
41	2	47	3220	557	48	3273	474	3226	3259
42	3	41	3174	649	26	3178	458	3107	3198
43									

Table 6. Percentiles of body height of the newborn, infant and child up to 6 years (unit: cm).

Age			n		Male						n		Female					
Year	Month/Day				10.00	25.00	50.00	75.00	90.00			10.00	25.00	50.00	75.00	90.00		
0	Newborn		2052		47.00	48.50	49.90	50.80	51.80	1887		46.50	48.00	49.00	50.00	51.00		
0	30 day		780		51.80	53.00	54.30	55.60	56.70	718		50.90	52.10	53.40	54.60	55.80		
1	0 1-2 month		129		53.50	55.00	56.80	58.20	60.10	121		52.40	53.90	55.30	57.10	59.10		
	2-3		161		57.90	59.10	60.50	62.00	63.60	162		55.90	57.30	58.50	60.20	61.40		
	3-4		170		59.80	61.50	62.70	64.40	65.70	141		58.60	59.90	61.50	63.00	64.50		
	4-5		166		61.90	63.80	65.50	67.00	68.00	151		60.90	62.50	63.50	65.10	66.60		
	5-6		152		64.00	65.40	66.80	68.40	69.70	160		62.30	63.70	65.40	66.00	68.40		
	6-7		146		65.60	66.70	68.60	70.10	71.40	151		64.00	65.40	67.00	68.00	69.50		
	7-8		148		67.50	68.60	69.80	71.10	72.70	157		65.50	66.70	68.00	69.40	70.50		
	8-9		158		68.20	69.40	70.80	72.70	74.00	168		65.50	67.80	69.40	71.10	72.50		
	9-10		175		68.90	70.70	72.50	74.00	75.20	157		67.40	68.90	70.30	71.90	73.90		
	10-11		173		70.20	71.50	73.30	75.00	75.80	178		69.00	70.30	71.90	73.70	75.00		
	11-12		182		71.80	73.10	74.60	76.00	77.50	143		70.30	71.80	73.50	75.00	76.50		
	2	0-1 month		170		72.40	73.80	75.50	77.00	78.20	168		70.90	72.60	74.40	76.40	77.70	
1-2			186		73.30	75.00	76.50	78.40	80.20	170		72.20	73.60	75.40	77.10	78.60		
2-3			164		74.10	75.50	77.30	79.40	81.10	125		73.30	74.80	76.80	78.40	79.30		
3-4			168		75.50	76.60	78.40	80.10	82.10	197		74.00	75.60	77.90	79.50	81.00		
4-5			189		75.80	77.50	79.40	80.90	83.30	150		74.80	76.10	77.80	79.50	81.30		
5-6			169		77.30	79.30	80.90	82.50	84.10	146		75.50	77.30	79.60	81.00	83.10		
6-7			155		78.10	79.50	81.30	83.70	85.50	152		76.00	78.40	80.40	81.80	83.20		
7-8			183		78.70	80.00	81.70	84.10	85.30	167		77.50	79.00	81.00	82.70	84.00		
8-9			156		79.70	81.20	83.10	85.10	87.00	172		78.30	80.10	82.20	84.30	85.20		
9-10			190		80.10	82.00	83.90	85.60	87.90	170		79.10	81.20	83.20	84.80	86.90		
10-11			180		80.70	83.30	85.20	87.00	88.30	180		79.60	81.40	83.60	85.10	86.60		
11-12			175		81.60	83.50	85.40	87.60	89.40	174		80.60	82.10	83.90	86.30	88.30		
3	0-6 month		278		82.80	84.80	87.10	89.20	91.40	294		82.00	83.60	85.20	87.80	90.00		
	6-12		258		86.30	88.70	91.70	94.00	95.90	238		86.20	88.10	90.00	92.40	94.30		
	0-6 month		268		90.50	92.90	95.00	97.20	99.50	263		89.30	91.50	93.70	95.90	98.10		
	6-12		271		94.20	96.20	98.60	101.40	103.80	252		92.50	95.10	98.10	100.40	102.40		
	4 0-6 month		308		97.10	99.90	102.40	105.30	107.60	276		95.90	98.90	101.60	104.30	106.00		
	6-12		283		100.10	102.00	104.70	107.40	109.90	274		99.80	102.00	104.90	107.40	109.90		
5	0-6 month		282		103.20	105.60	108.10	111.10	113.20	265		102.90	105.30	107.80	110.40	112.60		
	6-12		265		105.70	108.70	111.20	114.50	118.00	297		104.80	107.50	110.70	113.60	115.80		
6	0-6 month		279		109.50	111.70	114.50	117.80	120.40	277		107.80	110.80	113.70	117.20	119.80		

Table 7. Percentiles of body weight of the newborn, infant and child up to 6 years (unit: kg).

[GP1-MHWJ]

Year	Age Month/Day	n	Male Percentile					n	Female Percentile				
			10	25	50	75	90		10	25	50	75	90
0	Newborn	2152	2.64	2.90	3.16	3.42	3.65	1984	2.59	2.82	3.05	3.31	3.54
	0-1 day	1747	2.56	2.81	3.05	3.29	3.54	1665	2.51	2.72	2.94	3.18	3.43
	2 day	1901	2.54	2.76	3.02	3.26	3.50	1783	2.49	2.69	2.90	3.16	3.38
	3 day	1845	2.55	2.78	3.03	3.29	3.52	1732	2.48	2.69	2.91	3.16	3.40
	4 day	1854	2.56	2.79	3.04	3.30	3.54	1743	2.50	2.71	2.93	3.17	3.40
	5 day	1852	2.58	2.82	3.07	3.32	3.56	1762	2.52	2.73	2.95	3.20	3.43
	6 day	1697	2.60	2.85	3.10	3.37	3.60	1602	2.53	2.75	2.97	3.23	3.46
0	7 day	1131	2.61	2.87	3.12	3.40	3.65	1068	2.54	2.77	2.99	3.25	3.49
	0-30 day	796	3.73	4.03	4.39	4.72	4.98	736	3.55	3.81	4.09	4.42	4.66
	1-2 month	129	4.30	4.77	5.11	5.44	5.82	121	4.03	4.38	4.72	5.05	5.37
	2-3	161	5.25	5.73	6.10	6.54	7.06	162	4.76	5.19	5.62	5.96	6.40
	3-4	170	5.86	6.38	6.83	7.33	7.80	141	5.40	5.85	6.30	6.72	7.21
	4-5	166	6.30	6.81	7.34	7.88	8.37	151	5.87	6.34	6.80	7.24	7.81
	5-6	152	6.68	7.15	7.72	8.28	8.77	160	6.25	6.71	7.17	7.70	8.26
1	6-7	146	7.06	7.53	8.04	8.61	9.09	151	6.53	7.00	7.47	8.04	8.61
	7-8	148	7.38	7.87	8.33	8.93	9.42	157	6.80	7.23	7.75	8.35	8.92
	8-9	158	7.66	8.13	8.61	9.23	9.80	168	7.04	7.46	8.02	8.61	9.23
	9-10	175	7.87	8.34	8.86	9.50	10.13	157	7.25	7.70	8.27	8.87	9.51
	10-11	173	8.07	8.53	9.09	9.74	10.42	178	7.45	7.94	8.52	9.13	9.78
	11-12	183	8.23	8.70	9.30	9.94	10.66	143	7.62	8.16	8.76	9.38	10.01
	0-1 month	170	8.39	8.86	9.49	10.12	10.83	168	7.80	8.30	8.92	9.60	10.22
2	1-2 month	186	8.54	9.05	9.66	10.30	11.06	170	7.98	8.49	9.12	9.80	10.41
	2-3	164	8.69	9.24	9.84	10.51	11.29	125	8.16	8.68	9.31	9.98	10.60
	3-4	168	8.86	9.43	10.05	10.73	11.50	197	8.33	8.86	9.50	10.17	10.87
	4-5	189	9.02	9.62	10.25	10.95	11.72	150	8.50	9.05	9.70	10.37	11.06
	5-6	169	9.18	9.80	10.45	11.16	11.95	146	8.67	9.23	9.90	10.57	11.29
	6-7	155	9.36	9.98	10.65	11.37	12.18	152	8.83	9.41	10.10	10.79	11.53
	7-8	183	9.54	10.15	10.84	11.60	12.42	167	9.00	9.58	10.29	11.01	11.78
	8-9	156	9.72	10.32	11.03	11.83	12.67	172	9.16	9.74	10.48	11.23	12.02
	9-10	190	9.89	10.48	11.22	12.05	12.92	170	9.32	9.91	10.66	11.45	12.25
	10-11	180	10.04	10.64	11.40	12.26	13.15	180	9.48	10.07	10.83	11.66	12.45
	11-12	175	10.18	10.79	11.59	12.47	13.38	174	9.63	10.22	11.00	11.87	12.64
	0-6 month	278	10.67	11.29	12.23	13.12	14.04	294	10.16	10.82	11.61	12.51	13.40
3	6-12	258	11.47	12.13	13.25	14.24	15.24	238	11.06	11.80	12.61	13.61	14.46
	0-6 month	268	12.29	13.04	14.20	15.29	16.39	263	11.93	12.75	13.62	14.76	15.68
4	6-12	271	13.11	14.01	15.11	16.32	17.55	252	12.79	13.69	14.63	15.86	16.95
	0-6 month	308	13.95	14.99	16.01	17.34	18.72	276	13.63	14.61	15.65	17.01	18.28
5	6-12	283	14.81	15.94	16.94	18.40	19.95	274	14.45	15.50	16.67	18.11	19.66
	0-6 month	283	15.67	16.83	17.91	19.51	21.26	265	15.25	16.38	17.70	19.26	21.04
6	6-12	265	16.55	17.70	18.97	20.70	22.69	297	16.03	17.24	18.73	20.36	22.42
	0-6 month	279	17.44	18.60	20.15	22.02	24.20	277	16.79	18.08	19.76	21.51	23.80



Table 8. Percentiles of chest girth of the newborn, infant and child up to 6 years (unit: cm).

Age			n	Male						n	Female					
				Percentile							Percentile					
Year	Month/Day		10.00	25.00	50.00	75.00	90.00		10.00	25.00	50.00	75.00	90.00			
0	Newborn	2065	30.00	31.00	32.00	33.20	34.00	1907	30.00	31.00	32.00	33.00	34.00			
	0 30 day	776	34.20	35.40	36.50	37.50	38.40	710	34.00	35.00	36.00	37.00	38.00			
0	1-2 month	129	36.10	37.20	38.50	40.10	41.50	121	35.00	36.50	37.90	39.00	40.30			
	2-3	161	39.00	40.00	41.00	42.40	43.50	163	36.90	38.00	39.50	40.90	42.30			
	3-4	170	39.50	40.50	41.80	43.30	44.50	141	38.50	39.70	41.00	42.00	43.50			
	4-5	166	40.60	42.00	43.10	44.60	45.70	151	39.20	40.50	41.60	43.50	45.00			
	5-6	152	41.50	42.20	43.30	45.00	45.60	160	40.00	41.30	42.50	44.10	45.20			
	6-7	146	41.50	43.00	44.10	45.50	47.00	151	40.50	41.50	43.00	44.20	45.20			
	7-8	148	42.60	44.00	44.90	46.00	47.50	157	41.00	42.20	43.50	44.60	46.00			
	8-9	158	42.00	43.50	45.00	46.40	47.50	168	41.50	42.50	43.90	45.30	47.20			
	9-10	175	43.40	44.30	45.50	46.80	48.00	157	42.20	43.40	44.40	46.00	47.50			
	10-11	173	43.30	44.90	46.00	47.00	48.30	178	42.00	43.30	45.00	46.00	47.50			
	11-12	183	43.50	44.80	46.00	47.60	49.00	143	42.60	44.00	45.00	46.00	48.00			
1	0-1 month	170	44.00	45.00	46.40	47.60	49.00	168	43.00	44.00	45.20	46.80	48.30			
	1-2 month	186	44.00	45.20	46.90	48.00	49.70	170	43.10	44.40	45.50	47.00	48.00			
	2-3	164	44.40	45.50	46.80	48.00	49.00	125	43.50	44.50	45.60	47.20	49.20			
	3-4	168	45.00	46.00	47.10	48.30	49.50	197	43.00	44.80	46.00	47.10	48.10			
	4-5	189	45.00	46.20	47.50	48.80	50.00	150	43.90	44.50	46.00	47.20	48.60			
	5-6	169	45.10	46.20	47.40	48.90	50.10	146	44.00	45.00	46.20	48.00	49.50			
	6-7	155	45.50	46.70	48.00	49.30	50.60	152	44.50	45.20	46.30	48.00	49.50			
	7-8	183	45.50	46.80	47.80	49.00	51.00	167	44.50	45.50	46.50	47.90	49.50			
	8-9	156	45.80	46.80	48.30	49.90	51.00	172	44.50	45.80	47.20	48.80	49.70			
	9-10	190	46.00	47.00	48.60	50.00	51.70	170	45.30	46.20	47.50	49.00	50.00			
	10-11	180	46.60	48.00	49.00	50.20	51.50	180	45.00	46.20	47.50	49.00	50.50			
	11-12	175	46.50	47.50	48.80	50.50	52.00	174	45.80	46.60	47.70	49.20	50.40			
2	0-6 month	278	47.00	48.00	49.20	50.50	52.00	294	45.90	46.80	48.20	49.70	51.30			
	6-12	258	48.20	49.20	50.50	52.00	53.50	238	46.50	47.70	49.00	50.70	52.00			
3	0-6 month	268	48.50	50.50	51.50	53.30	54.80	263	47.50	48.50	50.00	51.20	52.50			
	6-12	271	49.50	51.00	52.70	54.30	56.30	252	48.20	49.50	51.30	52.90	55.00			
4	0-6 month	308	50.50	52.00	53.50	55.00	57.00	276	49.40	50.80	52.50	54.00	55.60			
	6-12	283	51.30	52.50	54.10	56.00	58.00	274	50.30	51.70	53.20	55.10	56.70			
5	0-6 month	283	52.00	53.60	55.00	57.00	58.50	265	51.00	52.30	54.00	56.00	58.00			
	6-12	264	53.00	54.50	56.00	58.10	60.20	297	51.50	53.00	55.00	57.00	59.40			
6	0-6 month	279	53.80	55.30	57.10	59.40	61.50	277	52.80	54.00	55.60	58.00	61.00			

[GP1-MHWJ]

[GP1-MHWJ]

Table 9. Body heights of males and females: newborn, child and adult up to 70-79 years in Japanese and Chinese, and reference values for Asian Reference Man (unit: cm).

Age	Unit:cm												[GP1-MHWJ] [GP2,GP3]	
	Male						Female							
	Japanese			Chinese			Japanese			Chinese				
	Mean	S.D.		Mean	S.D.	RAM value	Mean	S.D.		Mean	S.D.	Chinese(new)	Mean	RAM value
Newborn	49.70	1.80		50.20		49.95	49.30	1.80	49.60					49.45
0-1month	55.15	2.36		56.50		54.64	54.45	2.31	55.60					54.25
2-3	61.30	2.30		61.25		60.08	59.70	2.53	59.95					60.01
4-5	65.75	2.50		65.40		66.43	64.35	2.15	63.95					65.71
6-11	71.30	2.52		71.23		74.11	69.98	2.43	69.67					71.84
1year	80.40	4.23		81.60		81.49	79.10	3.89	80.40					79.49
2	89.20	4.39		89.80		90.78	88.30	4.14	88.45					88.44
3	96.60	4.35		96.80		98.48	95.70	4.06	95.75					96.25
4	103.10	4.25		103.70		105.15	102.20	4.39	102.85					103.16
5	110.46	4.64		110.10		110.91	109.59	4.62	109.20					110.02
6	116.03	4.82		116.20		116.47	115.23	4.80	115.10					114.57
7	121.66	5.03		119.51		121.40	120.89	5.03	118.47					119.88
8	127.11	5.27		123.96		126.04	126.44	5.36	123.12	122.30	4.70	123.30	4.90	125.66
9	132.26	5.50		128.86		130.70	132.12	5.86	128.31	132.60	5.90	134.70	5.60	131.64
10	137.38	5.86		133.51		135.69	138.44	6.56	133.79	138.50	6.70	140.30	7.20	137.56
11	143.01	6.69		138.27		141.35	145.15	6.75	139.74	145.20	5.30	147.50	4.20	143.12
12	149.81	7.78		142.92		147.81	150.64	6.04	145.08	150.50	4.60	151.70	4.60	148.06
13	157.33	7.89		151.02		154.45	154.16	5.37	151.47	155.10	2.00	156.30	2.50	152.11
14	163.45	6.96		157.25		160.49	155.96	5.11	153.99	157.10	-0.30	158.80	0.70	154.50
15	167.15	5.93		162.29		165.13	156.65	5.03	155.43	156.80	1.10	159.50	0.90	156.08
16	168.96	5.69		165.76		168.85	157.07	5.00	156.44	157.90	0.10	160.40	0.30	156.73
17	169.86	5.61		167.54		169.55	157.13	5.03	156.97	158.00	0.10	160.70	0.80	156.77
18	169.90	5.48		168.21		169.80	156.50	5.01	157.10	158.10	-0.10	161.50	-0.30	156.56
19	170.50	6.16				170.50	156.30	4.96		158.00	0.00	161.20	0.20	156.37
20	170.25	5.47		169.60		170.25	156.21	4.97	158.19	158.00		161.40		156.21
21	170.15	6.28				170.15	156.08	4.87						156.08
22	170.10	5.01				170.10	155.97	4.95						155.97
23	170.05	5.32				170.05	155.87	4.67						155.87
24	170.50	6.20				170.50	155.78	5.12						155.78
25-29	170.00	5.11				170.00	155.20	5.18						155.20
30-39	169.90	5.72				169.90	155.44	5.19						155.44
40-49	169.90	5.95				169.90	154.08	5.42						154.08
50-59	163.30	5.97				167.00	151.80	5.04						152.24
60-69	161.40	5.97				165.00	149.60	5.76						149.80
70-79	159.30	6.43				159.40	147.00	6.81						147.13
20-29	170.11	5.38				170.11	155.59	5.05						155.59
20-49	169.97	5.68				169.97	155.04	5.22						155.04

**Table 10. Body weights of males and females: newborn, child and adult up to 70-79 years in Japanese and Chinese, and reference values for Asian Reference Man (unit: kg).**

Unit:kg								
Age	Male				Female			
	Japanese		Chinese	ARM value	Japanese		Chinese	ARM value
	Mean	S.D.			Mean	S.D.		
Newborn	3.23	0.39	3.21	3.22	3.16	0.40	3.12	3.19
0-1month	4.71	0.59	4.90	4.42	4.44	0.52	4.60	4.35
2-3	6.50	0.74	6.38	5.78	5.93	0.74	5.88	5.76
4-5	7.57	0.82	7.58	7.02	7.08	0.75	7.01	6.98
6-11	8.87	0.91	8.94	8.76	8.34	0.88	8.31	8.64
1year	10.93	1.45	10.88	10.66	10.30	1.21	10.33	10.36
2	13.05	1.74	12.69	12.80	12.53	1.55	12.11	12.43
3	14.83	1.86	14.35	14.72	14.48	1.77	13.85	14.34
4	16.75	1.91	16.05	16.58	16.45	2.04	15.67	16.22
5	19.02	2.74	17.85	18.46	18.60	2.55	17.26	18.00
6	20.95	3.15	19.81	20.41	20.50	3.08	19.08	19.80
7	23.38	3.58	20.91	22.51	22.87	3.52	20.11	21.83
8	26.16	4.34	22.74	24.82	25.66	4.28	22.02	24.20
9	29.17	5.22	25.02	27.40	28.84	5.12	24.35	27.04
10	32.49	6.17	27.40	30.33	32.75	6.25	27.12	30.54
11	36.27	7.21	30.05	33.81	37.56	7.16	30.67	34.79
12	41.45	8.34	33.02	38.23	42.65	7.50	34.56	39.48
13	47.02	8.98	38.83	43.58	46.64	7.20	40.47	44.00
14	52.49	8.94	43.86	49.04	49.46	6.92	43.75	47.26
15	57.23	9.15	48.56	53.70	51.60	7.11	46.31	49.46
16	59.41	8.65	52.39	56.75	52.35	6.75	48.29	50.73
17	60.85	7.69	54.78	58.29	52.44	6.63	49.43	50.84
18	61.63	8.88	56.09	58.94	51.65	5.58	50.07	50.96
19	61.40	10.20		59.50	51.65	7.74		51.00
20	62.35	8.27	57.41	59.80	50.23	6.02	50.43	51.00
21	62.10	9.60		59.85	50.60	7.46		51.00
22	62.13	8.72		59.90	50.43	6.75		51.00
23	63.30	10.13		59.95	49.85	6.33		51.00
24	63.68	6.90		59.97	50.33	8.12		51.10
25-29	63.91	8.46		59.99	51.19	6.94		51.20
30-39	64.35	9.36		60.10	52.48	7.50		51.30
40-49	63.23	8.56		59.95	53.80	7.78		51.42
50-59	61.13	8.96		58.98	53.08	7.56		51.20
60-69	58.33	8.73		57.80	51.25	7.81		50.20
70-79	53.73	8.59		53.69	46.40	8.46		47.72
20-29	63.31	8.59		59.94	50.74	6.94		51.11
20-49	63.63	8.84		60.00	52.34	7.41		51.28

Table 11. Length of upper and lower limb, hand and foot of males: newborn, child and adult up to 70-79 years (unit: cm).

Age	Body Height (BH)		SH/BH	Head Length (HL)		BH-SH	Lower Limb Length (LLL)			Thigh Length	Lower Leg Length	Foot Height	Upper Limb Length (ULL)			Upper Arm Length	Forearm Length	Hand Length	Foot Length (FL)		FL/LLL
	Observed	Calculated		Observed	Calculated		Observed	Calculated	Observed				Calculated	Observed	Calculated						
																			Observed	Calculated	
Newborn 0-1 Month 2-3 4-5 6-11	50.0	0.67		5.3	16.7		18.0	19.0	9.4	8.0	1.52	15.5	15.8	6.6	5.3	3.8	5.5		0.29		
	54.6	0.65		6.1	19.1		21.5	21.8	10.8	9.2	1.74	18.0	18.1	7.5	6.1	4.4	6.2	0.29			
	60.1	0.64		7.5	21.5		24.3	24.5	12.2	10.3	1.96	20.3	20.3	8.5	6.9	5.0	7.0	0.29			
	66.4	0.65		9.4	23.6		26.7	26.9	13.3	11.3	2.15	22.0	22.3	9.3	7.6	5.4	7.7	0.29			
1 year 2 3 4	74.1	0.64		11.2	26.8		30.2	30.5	15.2	12.9	2.44	25.2	25.3	10.6	8.6	6.2	8.6	0.29			
	81.5	0.62		13.1	31.2		35.4	35.6	17.7	15.0	2.85	29.3	29.5	12.3	10.0	7.2	10.2	0.29			
	90.8	0.59		14.6	36.8		41.9	42.0	20.9	17.7	3.36	34.5	34.9	14.5	11.8	8.5	12.0	0.29			
	98.5	0.58		15.7	41.7		47.6	47.6	23.6	20.1	3.81	39.5	39.5	16.5	13.4	9.6	13.8	0.29			
5 6 7 8	105.2	0.57		16.1	45.6		52.0	52.0	25.9	22.0	4.16	43.1	43.2	18.0	14.6	10.5	15.0	0.29			
	110.9	0.56		16.4	48.7		55.3	55.6	27.6	23.4	4.44	46.0	46.1	19.2	15.6	11.3	16.1	0.29			
	116.5	0.56		16.6	51.8		58.7	59.0	29.3	24.9	4.72	48.8	49.0	20.4	16.6	12.0	17.0	0.29			
	121.4	0.55		16.8	54.3		61.3	61.9	30.8	26.1	4.95	51.5	51.4	21.4	17.4	12.5	19.0	0.31			
9 10 11 12	126.0	0.55		17.0	56.8		64.0	64.7	32.2	27.3	5.18	53.7	53.7	22.4	18.2	13.1	19.6	0.31			
	130.7	0.55		17.1	59.3		67.7	67.6	33.6	28.5	5.40	56.4	56.1	23.4	19.0	13.7	20.4	0.30			
	135.7	0.54		17.2	62.2		70.3	70.9	35.3	29.9	5.67	58.1	58.9	24.6	20.0	14.4	21.0	0.30			
	141.4	0.54		17.4	65.7		74.3	74.9	37.2	31.6	5.99	61.2	62.1	25.9	21.1	15.2	21.8	0.29			
13 14 15 16	147.8	0.53		17.5	69.4		79.1	79.1	39.3	33.4	6.33	64.6	65.7	27.4	22.3	16.0	23.2	0.29			
	154.5	0.53		17.7	72.3		83.3	82.4	40.9	34.8	6.59	68.1	68.4	28.5	23.2	16.7	24.1	0.29			
	160.5	0.53		17.8	75.0		84.7	85.5	42.5	36.1	6.84	70.6	70.9	29.6	24.0	17.3	24.5	0.29			
	165.1	0.53		18.0	76.9		86.8	87.7	43.6	37.0	7.02	71.9	72.8	30.4	24.7	17.8	24.6	0.28			
17 18 19 20	168.9	0.53		18.2	79.2		87.5	90.3	44.9	38.1	7.22	72.8	74.9	31.2	25.4	18.3	24.9	0.28			
	169.6	0.53		18.3	79.0		88.8	90.1	44.8	38.0	7.20	73.0	74.7	31.2	25.3	18.2	24.9	0.28			
	169.8	0.54		18.4	79.0		87.9	90.0	44.7	38.0	7.20	73.3	74.7	31.2	25.3	18.2	25.0	0.28			
	170.5	0.53		18.5	79.6		87.4	90.7	45.1	38.3	7.26	73.0	75.3	31.4	25.5	18.4	24.8	0.28			
21 22 23 24	170.3	0.53		18.5	79.2		87.5	90.3	44.9	38.1	7.23	73.0	75.0	31.3	25.4	18.3	24.8	0.28			
	170.2	0.53		18.5	79.2		87.5	90.3	44.9	38.1	7.22	73.7	74.9	31.2	25.4	18.3	24.8	0.28			
	170.1	0.53		18.5	79.4		87.5	90.5	45.0	38.2	7.24	73.9	75.1	31.3	25.5	18.3	24.8	0.28			
	170.1	0.53		18.5	79.3		87.5	90.4	45.0	38.2	7.24	73.8	75.1	31.3	25.4	18.3	24.8	0.28			
25-29 30-39 40-49 50-59	170.5	0.53		18.5	79.9		87.4	91.1	45.3	38.4	7.29	73.7	75.6	31.5	25.6	18.4	24.8	0.28			
	170.0	0.53		18.4	79.6		86.8	90.7	45.1	38.3	7.26	73.6	75.3	31.4	25.5	18.4	24.7	0.28			
	169.9	0.53		18.3	79.8		86.8	91.0	45.2	38.4	7.28	73.2	75.5	31.5	25.6	18.4	24.7	0.28			
	169.9	0.53		18.0	80.7		86.3	92.0	45.7	38.8	7.36	72.6	76.3	31.8	25.9	18.6	24.6	0.28			
60-69 70-79 20-29 20-49	167.0	0.53		17.7	79.0		86.1	90.0	44.7	38.0	7.20	71.9	74.7	31.2	25.3	18.2	24.5	0.28			
	165.0	0.52		17.4	78.4		85.7	89.4	44.4	37.7	7.15	71.2	74.2	30.9	25.2	18.1	24.4	0.28			
	159.4	0.53		17.2	74.2		84.4	84.6	42.1	35.7	6.77	70.0	70.2	29.3	23.8	17.1	24.3	0.28			
	170.1	0.53		18.5	79.5		87.2	90.6	45.0	38.2	7.25	73.8	75.2	31.4	25.5	18.4	24.8	0.28			
20-49	170.0	0.53		18.3	80.0		86.8	91.2	45.3	38.5	7.30	73.2	75.7	31.6	25.7	18.5	24.7	0.28			

Bolds show estimated values.

Table 12. Length of upper and lower limb, hand and foot of females: newborn, child and adult  
up to 70-79 years (unit: cm).

Age	Body Height (BH) Observed	SH/BH	Head Length (HL) Observed	BH-SH Observed	Lower Limb Length (LLL)		Thigh Length	Lower Leg Length	Foot Height	Upper Limb Length (ULL)		Upper Arm Length	Forearm Length	Hand Length	Foot Length (FL) Observed	FL/LLL
					Observed	Calculated				Observed	Calculated					
Newborn	49.5	0.67	5.3	16.5	18.7	18.8	9.3	7.9	1.50	15.5	15.6	6.5	5.3	3.8	5.4	0.29
0-1 Month	54.3	0.64	6.2	19.5	22.1	22.3	11.1	9.4	1.78	18.4	18.5	7.7	6.3	4.5	6.5	0.29
2-3	60.0	0.64	7.6	21.6	24.6	24.6	12.2	10.4	1.97	20.2	20.4	8.5	6.9	5.0	7.1	0.29
4-5	65.7	0.65	9.5	22.7	25.7	25.9	12.9	10.9	2.07	21.5	21.5	9.0	7.3	5.2	7.4	0.29
6-11	71.8	0.65	11.2	25.2	28.6	28.8	14.3	12.1	2.30	23.6	23.9	10.0	8.1	5.8	8.2	0.29
1 year	79.5	0.62	13.2	30.3	34.3	34.6	17.2	14.6	2.76	28.7	28.7	12.0	9.7	7.0	10.1	0.29
2	88.4	0.60	14.5	35.5	40.5	40.4	20.1	17.1	3.23	33.2	33.5	14.0	11.4	8.2	11.7	0.29
3	96.3	0.58	15.6	40.1	45.5	45.7	22.7	19.3	3.65	37.8	37.9	15.8	12.9	9.3	13.3	0.29
4	103.2	0.57	16.1	44.3	50.3	50.5	25.1	21.3	4.04	41.7	41.9	17.5	14.2	10.2	14.5	0.29
5	110.0	0.56	16.4	48.1	54.7	54.8	27.2	23.1	4.39	45.5	45.5	19.0	15.4	11.1	15.8	0.29
6	114.6	0.56	16.6	50.7	57.8	57.8	28.7	24.4	4.62	48.0	48.0	20.0	16.3	11.7	16.5	0.29
7	119.9	0.55	16.6	53.7	61.1	61.2	30.4	25.8	4.89	50.8	50.8	21.2	17.2	12.4	18.5	0.30
8	125.7	0.55	16.7	56.8	64.5	64.7	32.2	27.3	5.18	53.3	53.7	22.4	18.2	13.1	19.3	0.30
9	131.6	0.54	16.8	60.0	68.1	68.4	34.0	28.8	5.47	55.8	56.7	23.7	19.2	13.8	20.1	0.29
10	137.6	0.54	16.9	63.0	71.8	71.8	35.7	30.3	5.75	58.5	59.6	24.9	20.2	14.6	20.9	0.29
11	143.1	0.54	17.1	65.8	75.3	75.1	37.3	31.7	6.00	61.9	62.3	26.0	21.1	15.2	21.7	0.29
12	148.1	0.54	17.2	68.3	78.3	77.8	38.7	32.8	6.23	63.7	64.6	26.9	21.9	15.8	22.2	0.29
13	152.1	0.54	17.3	70.2	82.4	80.0	39.8	33.8	6.40	65.8	66.4	27.7	22.5	16.2	22.6	0.28
14	154.5	0.54	17.3	70.9	82.3	80.8	40.2	34.1	6.47	66.9	67.1	28.0	22.7	16.4	22.6	0.28
15	156.1	0.54	17.4	71.4	80.4	81.4	40.5	34.4	6.51	66.8	67.6	28.2	22.9	16.5	22.7	0.28
16	156.7	0.54	17.4	71.4	80.5	81.4	40.5	34.4	6.52	66.8	67.6	28.2	22.9	16.5	22.7	0.28
17	156.8	0.55	17.5	71.2	81.7	81.2	40.4	34.3	6.50	66.8	67.4	28.1	22.9	16.4	22.8	0.28
18	156.6	0.55	17.5	71.0	81.6	81.0	40.2	34.2	6.48	66.7	67.2	28.0	22.8	16.4	22.6	0.28
19	156.4	0.55	17.5	70.9	81.6	80.8	40.2	34.1	6.47	66.7	67.1	28.0	22.7	16.4	22.6	0.28
20	156.2	0.55	17.5	70.8	81.5	80.8	40.1	34.1	6.46	66.6	67.0	28.0	22.7	16.4	22.6	0.28
21	156.1	0.55	17.5	70.8	81.5	80.7	40.1	34.1	6.46	66.6	67.0	27.9	22.7	16.3	22.6	0.28
22	156.0	0.55	17.5	70.7	81.3	80.6	40.1	34.0	6.45	66.5	66.9	27.9	22.7	16.3	22.5	0.28
23	155.9	0.55	17.5	70.7	81.0	80.6	40.1	34.0	6.45	66.5	66.9	27.9	22.7	16.3	22.5	0.28
24	155.8	0.55	17.5	70.7	81.0	80.6	40.0	34.0	6.45	66.5	66.9	27.9	22.7	16.3	22.5	0.28
25-29	155.2	0.55	17.5	70.1	81.0	80.0	39.7	33.7	6.40	66.5	66.4	27.7	22.5	16.2	22.5	0.28
30-39	155.4	0.55	17.3	70.7	81.0	80.6	40.0	34.0	6.44	66.4	66.9	27.9	22.7	16.3	22.4	0.28
40-49	154.1	0.54	17.1	70.1	80.3	79.9	39.7	33.7	6.39	66.4	66.3	27.7	22.5	16.2	22.3	0.28
50-59	152.2	0.54	16.9	69.3	79.2	79.0	39.3	33.4	6.32	65.6	65.6	27.4	22.2	16.0	22.2	0.28
60-69	149.8	0.55	16.6	68.1	77.8	77.6	38.6	32.8	6.21	65.0	64.4	26.9	21.8	15.7	22.1	0.28
70-79	147.1	0.55	16.4	66.7	76.4	76.0	37.8	32.1	6.08	64.0	63.1	26.3	21.4	15.4	22.0	0.28
20-29	155.6	0.55	17.3	70.4	81.2	80.3	39.9	33.9	6.42	66.5	66.7	27.8	22.6	16.3	22.5	0.28
20-49	155.0	0.55	17.3	70.4	80.8	80.3	39.9	33.9	6.42	66.4	66.6	27.8	22.6	16.3	22.4	0.28

Bolds show estimated values.

Table 13a. Skinfold thickness and calculated body fat of Japanese males: 15 to 70 years.

Age		Total of 1975-1980										1981-1989										[GP1-MHWJ]	
		n		triceps		subscapular		Total		Fat (%)		n		triceps		subscapular		Total					
		Ave	SD	Ave	SD	Ave	SD	Ave	SD	Fat (%)	Ave	SD	Ave	SD	Ave	SD	Ave	SD	Fat (%)				
15	796	11.65	5.94	11.25	4.87	22.90	5.40	15.21	1010	12.06	6.31	11.52	5.62	23.58	5.96	15.60							
16	704	12.10	6.42	11.86	5.46	23.97	5.94	15.83	883	12.27	6.19	12.06	5.56	24.33	5.88	16.05							
17	698	12.34	6.47	12.51	5.66	24.85	6.06	16.36	864	11.80	6.37	12.46	6.05	24.26	6.21	16.01							
18	578	11.92	6.64	12.40	5.18	24.31	5.91	16.04	673	12.00	6.13	12.73	5.58	24.74	5.85	16.29							
19	391	12.14	6.76	13.12	5.91	25.26	6.33	16.12	497	12.04	6.89	13.26	6.67	25.30	6.78	16.14							
20	350	11.77	6.64	12.95	5.45	24.72	6.04	15.87	455	12.13	6.34	13.94	6.69	26.07	6.52	16.50							
21	387	11.87	7.01	13.06	6.05	24.93	6.53	15.96	411	11.48	6.27	13.09	5.35	24.57	5.81	15.80							
22	403	11.78	7.00	13.26	5.72	25.04	6.36	16.02	408	11.47	6.34	13.48	5.69	24.96	6.02	15.98							
23	422	12.02	6.94	13.30	5.67	25.32	6.30	16.15	440	11.21	5.64	13.68	6.08	24.90	5.86	15.95							
24	423	11.49	6.57	13.29	5.31	24.78	5.94	15.90	446	11.20	6.15	14.10	6.23	25.29	6.19	16.14							
25	489	11.23	7.15	13.50	6.07	24.72	6.61	15.87	439	11.67	6.40	13.93	6.21	25.60	6.30	16.28							
26-29	2437	11.92	7.29	14.19	6.20	26.11	6.75	16.52	2079	11.53	6.16	14.27	6.31	25.80	6.23	16.37							
30-39	6590	12.33	7.31	15.19	6.65	27.51	6.98	17.18	8055	11.82	6.57	15.26	6.66	27.07	6.61	16.97							
40-49	6830	12.21	7.40	15.69	6.87	27.89	7.13	17.36	7848	11.82	6.50	15.81	6.60	27.63	6.55	17.24							
50-59	5015	11.64	6.96	15.01	6.77	26.65	6.86	16.78	7584	11.48	6.38	15.82	6.82	27.30	6.60	17.08							
60-69	3632	10.88	6.46	14.14	6.71	25.02	6.59	16.01	5410	10.97	6.23	14.89	6.64	25.85	6.43	16.40							
70-	2304	10.77	6.40	13.35	6.47	24.12	6.43	15.58	3813	10.09	5.76	13.32	6.23	23.41	5.99	15.25							

Table 13b. Skinfold thickness and calculated body fat of Japanese females: 15 to 70 years.

Age	Total of 1975-1980										1981-1989										[GP1-MHWJ]
	n	triceps		subscapular		Total		Fat (%)	n	triceps		subscapular		Total							
		Ave	SD	Ave	SD	Ave	SD			Ave	SD	Ave	SD	Ave	SD						
15	768	17.98	5.94	6.34	16.67	6.34	34.65	6.14	26.21	981	17.24	5.55	15.73	5.77	32.97	5.66	25.08				
16	721	18.69	6.40	6.57	17.31	6.57	36.00	6.48	27.13	910	17.79	5.72	16.54	5.82	34.32	5.77	25.99				
17	703	18.43	5.94	6.17	17.27	6.17	35.70	6.05	26.93	862	17.61	5.58	16.75	6.03	34.36	5.81	26.02				
18	588	18.22	5.85	5.69	17.00	5.69	35.22	5.77	26.60	729	17.98	5.65	20.34	6.04	34.99	5.84	26.44				
19	497	18.06	5.75	6.06	16.91	6.06	34.98	5.90	23.88	557	17.47	6.00	16.76	6.12	34.23	6.06	23.47				
20	502	17.93	5.83	6.16	16.83	6.16	34.76	5.99	23.76	504	17.25	5.54	16.64	6.52	33.89	6.03	23.28				
21	500	18.14	6.05	6.56	17.16	6.56	35.30	6.30	24.06	568	17.10	6.11	16.65	6.43	33.74	6.27	23.19				
22	569	17.61	6.18	6.69	6.51	6.51	34.30	6.34	23.50	559	16.68	5.91	16.04	6.48	32.72	6.19	22.63				
23	545	17.71	6.37	6.80	6.44	6.44	34.51	6.40	23.62	582	16.44	5.71	15.64	6.00	32.07	5.86	22.27				
24	586	17.91	6.85	7.05	6.85	6.85	34.96	6.85	23.87	594	16.72	6.14	16.14	6.72	32.86	6.43	22.70				
25	667	17.59	6.01	6.68	6.68	6.68	34.47	6.35	23.60	690	16.74	6.24	16.56	7.01	33.30	6.63	22.95				
26-29	3452	18.21	6.71	7.22	7.22	7.22	35.93	6.96	24.42	3203	17.16	6.26	17.01	7.15	34.17	6.71	23.44				
30-39	9609	19.25	7.23	7.23	19.29	8.02	38.54	7.63	25.88	12271	18.40	6.56	18.63	7.63	37.03	7.10	25.03				
40-49	9137	20.21	7.28	8.59	21.50	8.59	41.71	7.94	27.67	11600	19.71	6.82	20.92	8.06	40.63	7.44	27.06				
50-59	7017	19.70	7.39	8.52	21.19	8.52	40.89	7.96	27.21	10300	19.59	7.00	21.36	8.37	40.95	7.68	27.25				
60-69	4903	18.05	7.64	8.79	19.42	8.79	37.47	8.21	25.28	7564	18.21	7.08	19.82	8.40	38.03	7.74	25.59				
70-	3125	15.34	7.13	7.98	16.22	7.98	31.56	7.56	21.98	5399	15.13	6.73	16.33	7.94	31.46	7.33	21.93				

Table 14. Skinfold thickness and lipid (fat) content for Asian Reference males and females of different ages.

[GP1-MHWJ]				
Age (Y)	Male		Female	
	Thickness (cm)	Fat (%)	Thickness (cm)	Fat (%)
0	****	9.76	****	9.86
1	****	10.01	****	10.04
2	****	10.18	****	10.21
3	****	10.32	****	10.33
4	****	10.43	****	10.44
5	15.00	10.76	16.00	10.91
6	15.50	11.04	16.50	11.20
7	16.30	11.49	17.50	11.78
8	18.20	12.55	19.00	12.66
9	20.30	13.74	21.20	13.95
10	22.50	14.98	23.50	15.31
11	21.60	14.47	23.80	15.49
12	19.40	13.23	23.20	15.14
13	17.60	12.22	25.00	16.21
14	18.80	12.89	28.00	18.00
15	20.80	14.02	30.00	19.21
16	21.50	14.41	32.00	20.42
17	22.20	14.81	32.40	20.66
18	23.00	15.27	33.50	21.33
19	23.60	15.61	33.70	21.45
20	24.20	15.95	34.30	21.82
21	24.80	16.29	34.70	22.06
22	25.00	16.41	35.12	22.32
23	25.20	16.52	35.40	22.49
24	25.40	16.64	35.90	22.80
26-29	25.90	16.92	37.00	23.48
30-39	26.70	17.38	39.80	25.21
40-49	27.80	18.02	41.60	26.33
50-59	27.60	17.90	41.50	26.27
60-69	27.30	17.73	41.20	26.08

Note:

Fat percentage was calculated by Brozek's equation

$$\text{Fat (\%)} = 4.570/D - 4.142$$

where D is the body density calculated and modified by

Nagamine-Tanaka's equation.

For Male:  $D = 1.09654 - 0.00141X$

For Female:  $D = 1.09854 - 0.00147X$

X: Skinfold thickness (cm)

**Table 15. Number of autopsy cases of normal Japanese children and adults of both sexes\***

Age (y)	0	1-19 <sup>†</sup>	20-30	31-35	50-	Total
Male	200	550	1000	1300	850	900
Female	150	370	250	300	400	1470
Sum	350	920	1250	1600	1250	5370

\*) Sudden deaths of subjects who supposedly lived normal lives until shortly before death.

†) For ages 2-18 y, cases from another source of the same nature were added.



Table 16. Measured and reference masses of the mineralized bone in 17 Japanese adults (20-50 years) and estimated mass of red bone marrow (unit: g).

[ARM-93]									
		ARM						Ellis	
		Mineralized bone (g)			Red marrow (g)		Red marrow ratio	Red marrow (g)	
		Observed		Asian Reference Man		Observed Mean			
		Mean	S.D.	wet wt.	Mean				
Whole skeleton		4167.2	122.9	4500		962.4		0.214	1045.7
1	Head	694.9	51.7	730		135.0		0.185	136.6
	Cranium	602.3	50.8		632		122.8	0.194	124.3
	Mandible	92.6	11.7		98		12.2	0.124	12.3
2	Clavicles	48.1	2.9	52		14.4		0.277	16.2
3	Scapulae	130.3	9.3	140		45.0		0.321	50.5
4	Ribs	283.5	23.4	307		92.4		0.301	82.6
	1	13.1	2.8		14		4.2	0.300	4.1
	2	16.8	2.0		18		5.4	0.300	5.0
	3	19.9	2.1		22		6.6	0.300	6.4
	4	25.9	2.1		28		8.4	0.300	7.4
	5	28.5	3.1		31		9.3	0.300	9.5
	6	32.5	2.8		35		10.8	0.309	9.4
	7	36.1	3.6		39		11.7	0.300	10.0
	8	33.1	3.5		36		10.8	0.300	9.6
	9	29.8	3.2		32		9.6	0.300	8.5
	10	24.4	3.3		26		7.8	0.300	6.4
	11	15.8	2.2		17		5.1	0.300	4.5
	12	8.1	1.6		9		2.7	0.300	1.8
5	Sternum	20.8	3.5	23		20.8		0.904	23.4
6	Vertebrae	372.1	31.7	406		264.9		0.652	297.8
	Cervical	61.7	3.8		71		46.5	0.655	35.8
	1	9.9	0.9		11		7.2	0.655	5.0
	2	11.6	0.8		13		8.5	0.654	6.3
	3	7.0	0.6		9		5.9	0.656	4.1
	4	7.5	0.8		9		5.9	0.656	4.3
	5	7.9	0.8		9		5.9	0.656	4.4
	6	8.2	0.6		9		5.9	0.656	5.3
	7	9.6	0.8		11		7.2	0.655	6.4
	Thoracic	166.8	14.6		179		116.6	0.651	147.9
	1	12.7	1.3		14		9.1	0.650	8.1
	2	12.2	1.3		13		8.5	0.654	8.8
	3	10.9	1.2		12		7.8	0.650	8.5
	4	10.8	1.0		12		7.8	0.650	9.1
	5	10.9	1.2		12		7.8	0.650	10.1
	6	12.0	1.1		13		8.5	0.654	11.5
	7	12.8	1.2		14		9.1	0.650	12.1
	8	13.9	1.5		15		9.8	0.653	13.9
	9	15.2	1.4		16		10.4	0.650	14.8
	10	16.8	1.6		18		11.7	0.650	15.9
	11	18.2	1.9		19		12.4	0.653	16.3
	12	20.4	2.0		21		13.7	0.652	18.8
	Lumbar	144.8	16.2		156		101.8	0.653	114.1
	1	23.5	2.1		26		17.0	0.654	20.8
	2	27.1	3.4		29		18.9	0.652	21.8
	3	30.5	4.2		33		21.5	0.652	23.8
	4	31.5	3.7		34		22.2	0.653	24.1
	5	32.1	4.4		34		22.2	0.653	23.6
7	Sacrum	94.6	10.5	102		129.5		1.270	145.6
8	Coxa	376.1	24.2	402		207.3		0.516	233.0
9	Upper limb	576.9	30.9	631		17.7		0.028	20.0
	Humerus	284.4	16.0		310		17.7	0.057	20.0
	Radius	85.6	6.0		94				
	Ulna	107.1	7.9		117				
	Hand	99.8	11.0		110				
10	Lower limb	1569.8	75.7	1706		35.4		0.021	40.0
	Femur	745.1	38.2		812		35.4	0.044	40.0
	Patella	29.4	2.3		32				
	Tibia	436.8	34.9		476				
	Fibula	102.8	7.0		112				
	Foot	250.5	20.0		274				
Water Percent		9.7%		17%					
Remark		20-50yrs		20-50yrs		35yrs		40yrs	
Age		17						1	

Table 17. Conversion factors for estimating mass of wet bone from that of dry bone in Japanese male and female adult.

Bone	Male					Female				Ratio of Female to Male
	Literature		Present study		Wet bone	Literature		Present study		
	n	Dry bone	Conv. factor	Wet bone		n	Dry bone	Conv. factor	Wet bone	
Skull (incl. mandible and teeth)	78	674	1.08	730		20	619	1.08	670	0.92
Scapula	208	109	1.28	140		128	79	1.28	101	0.72
Clavicle	213	42	1.24	53		138	32	1.25	40	0.77
Rib	**	260	1.18	307		**	195	1.18	230	0.75
Sternum	**	18	1.28	23		**	14	1.29	18	0.78
Vertebral column	**	325	1.25	406		**	244	1.25	305	0.75
Sacrum	**	70	1.46	102		**	53	1.45	77	0.75
Innominate	204	300	1.34	402		150	237	1.34	318	0.79
Humerus (2)	259	234	1.32	310		186	157	1.32	208	0.67
Radius (2)	239	74	1.27	94		138	49	1.27	62	0.66
Ulna (2)	233	92	1.27	117		138	61	1.28	78	0.67
Hands (2)	85	88	1.25	110		36	60	1.25	75	0.68
Femur (2)	308	628	1.29	812		204	461	1.29	596	0.73
Patella (2)	85	22	1.45	32		36	15	1.47	22	0.68
Tibia (2)	274	356	1.34	476		203	260	1.34	348	0.73
Fibula (2)	275	83	1.35	112		201	65	1.35	88	0.78
Feet (2)	83	184	1.49	274		36	130	1.49	194	0.71
Total		3559	1.26	4500			2731	1.26	3430	0.76

\*\* ) More than 10.

Table 18. Body content of potassium in Japanese as measured by whole body gamma counting and comparison with Caucasian data.

Differences in biological parameters of body potassium between two regions in Japan (adult male 20-49)

Biological parameters	(a) 20year		(b) 30year		(c) Over 40year	
	Eastern Japan	Western Japan	Eastern Japan	Western Japan	Eastern Japan	Western Japan
Number of individuals	17	14	28	26	22	6
Age (yr)	27 ± 2	26 ± 2	34 ± 2	33 ± 2	46 ± 4	49 ± 5
Body mass (kg)	65 ± 8	72 ± 12	64 ± 7	61 ± 8	62 ± 8	57 ± 8
Potassium (g)	134 ± 10	143 ± 11	133 ± 14	129 ± 11	126 ± 12	109 ± 15
K(g)/BW(kg)	2.06	1.99	2.08	2.11	2.03	1.91

Differences in biological parameters of body potassium between two kind of race (all ages)

Biological parameters	Japanese		Caucasian	
	Eastern Japan	Western Japan	Caucasian (A)	Caucasian (B)
Number of individuals	67	46	154	154
Age (yr)	36 ± 8	33 ± 7		
Body mass (kg)	64 ± 7	64 ± 11	70	73
Potassium (g)	131 ± 13	130 ± 16	145	145
Annual internal dose (mrad)	18 ± 2	18 ± 2		
K(g)/BW(kg)	2.05	2.03	2.07	1.99

Japanese: Masafumi UCHIYAMA, Body Potassium in Japanese Male Adults and Its Regional Difference

J. AT. ENERGY SOC. JAPAN 29, PP1123-1138 (1987)

Caucasian: SPEIGHT, R.G., A note on the potassium content of a group of 154 people in normal health,

AEWM, 391, 1964. POCHIN, E.E., personal communication, 1970.

Caucasian A, data formed in 1975.

Caucasian B is recent value.

Table 19. Lipid, LBM, mineral, protein and water of the total body of males: newborn, child and adult up to 60-69 years for Asian Reference Man.

[ARM93, ICRP23]

Age	1	2		3		4		5		6	
	B.W.	Lipid		LBM		Mineral		Protein		Body Water	
	(kg)	%	(kg)	%	(kg)	%	(kg)	%	(kg)	%	(kg)
Newborn	3.2	9.8	0.3	90.2	2.9	2.2	0.1	8.0	0.3	80.0	2.6
0-1 M	4.4	9.8	0.4	90.2	4.0	2.7	0.1	9.7	0.4	77.8	3.4
2-3	5.8	9.8	0.6	90.2	5.2	2.6	0.2	12.7	0.7	74.9	4.3
4-5	7.0	9.8	0.7	90.2	6.3	3.1	0.2	17.2	1.2	69.8	4.9
6-11	8.8	9.8	0.9	90.2	7.9	3.8	0.3	19.8	1.7	66.7	5.8
1 Y	10.7	10.0	1.1	90.0	9.6	5.2	0.6	19.6	2.1	65.2	7.0
2	12.8	10.2	1.3	89.8	11.5	6.3	0.8	18.7	2.4	64.8	8.3
3	14.7	10.3	1.5	89.7	13.2	6.7	1.0	18.3	2.7	64.7	9.5
4	16.6	10.4	1.7	89.6	14.9	6.9	1.2	18.1	3.0	64.5	10.7
5	18.5	10.8	2.0	89.2	16.5	7.2	1.3	17.7	3.3	64.4	11.9
6	20.4	11.0	2.3	89.0	18.2	7.3	1.5	17.5	3.6	64.2	13.1
7	22.5	11.5	2.6	88.5	19.9	7.3	1.6	17.3	3.9	63.9	14.4
8	24.8	12.6	3.1	87.4	21.7	7.3	1.8	16.4	4.1	63.7	15.8
9	27.4	13.7	3.8	86.3	23.6	7.2	2.0	15.4	4.2	63.6	17.4
10	30.3	15.0	4.5	85.0	25.8	7.1	2.2	14.3	4.3	63.6	19.3
11	33.8	14.5	4.9	85.5	28.9	6.9	2.3	15.2	5.1	63.5	21.5
12	38.2	13.2	5.1	86.8	33.2	6.2	2.4	16.9	6.5	63.7	24.4
13	43.6	12.2	5.3	87.8	38.3	5.7	2.5	16.8	7.3	65.2	28.4
14	49.0	12.9	6.3	87.1	42.7	5.5	2.7	14.9	7.3	66.7	32.7
15	53.7	14.0	7.5	86.0	46.2	5.3	2.9	13.6	7.3	67.1	36.0
16	56.8	14.4	8.2	85.6	48.6	5.3	3.0	12.9	7.3	67.4	38.3
17	58.3	14.8	8.6	85.2	49.7	5.4	3.2	12.3	7.2	67.4	39.3
18	58.9	15.3	9.0	84.7	49.9	5.4	3.2	12.3	7.2	67.1	39.5
19	59.5	15.6	9.3	84.4	50.2	5.4	3.2	12.5	7.4	66.5	39.6
20	59.8	16.0	9.5	84.0	50.3	5.4	3.2	12.6	7.5	66.1	39.5
21	59.9	16.3	9.8	83.7	50.1	5.4	3.2	12.7	7.6	65.6	39.2
22	59.9	16.4	9.8	83.6	50.1	5.4	3.3	13.0	7.8	65.1	39.0
23	60.0	16.5	9.9	83.5	50.0	5.5	3.3	13.6	8.1	64.5	38.6
24	60.0	16.6	10.0	83.4	50.0	5.5	3.3	13.8	8.3	64.1	38.4
25-29	60.0	16.9	10.2	83.1	49.8	5.4	3.3	14.3	8.6	63.4	38.0
30-39	60.1	17.4	10.4	82.6	49.7	5.5	3.3	15.4	9.3	61.6	37.1
40-49	60.0	18.0	10.8	82.0	49.1	5.5	3.3	15.2	9.1	61.3	36.7
50-59	59.0	17.9	10.6	82.1	48.4	5.6	3.3	15.5	9.1	61.1	36.0
60-69	57.8	17.7	10.2	82.3	47.6	5.2	3.0	16.2	9.4	60.8	35.2
20-30	59.9	16.6	10.0	83.4	50.0	5.4	3.3	13.7	8.2	64.2	38.5
20-50	60.0	17.4	10.4	82.7	49.6	5.5	3.3	14.8	8.9	62.4	37.4

Note: Body weight, lipid ratio, water percentage, mineral were fixed and data were calculated based on fixed ones.

lipid = lipid ratio\*body weight

body water = water percentage \* body weight

LBM = body weight - lipid

protein = body weight - lipid - water - mineral

Table 20. Lipid, LBM, mineral, protein and water of the total body of females: newborn, child and adult up to 60-69 years for Asian Reference Man.

[ARM93, ICRP23]

Age	1	2		3		4		5		6	
	B.W.	Lipid		LBM		Mineral		Protein		Body Water	
	(kg)	%	(kg)	%	(kg)	%	(kg)	%	(kg)	%	(kg)
Newborn	3.2	9.9	0.3	90.1	2.9	2.2	0.1	7.9	0.3	80.0	2.6
0-1 M	4.2	9.9	0.4	90.1	3.8	2.8	0.1	9.5	0.4	77.8	3.3
2-3	5.7	9.9	0.6	90.1	5.2	2.6	0.2	12.6	0.7	74.9	4.3
4-5	7.0	9.9	0.7	90.1	6.3	3.1	0.2	17.2	1.2	69.8	4.9
6-11	8.6	9.9	0.9	90.1	7.8	3.8	0.3	19.7	1.7	66.7	5.8
1 Y	10.4	10.0	1.0	90.0	9.3	5.1	0.5	19.6	2.0	65.2	6.8
2	12.4	10.2	1.3	89.8	11.2	6.2	0.8	18.8	2.3	64.8	8.1
3	14.3	10.3	1.5	89.7	12.9	6.6	0.9	18.4	2.6	64.7	9.3
4	16.2	10.4	1.7	89.6	14.5	6.9	1.1	18.1	2.9	64.5	10.5
5	18.0	10.9	2.0	89.1	16.0	7.1	1.3	17.5	3.2	64.4	11.6
6	19.8	11.2	2.2	88.8	17.6	7.3	1.4	17.4	3.4	64.2	12.7
7	21.8	11.8	2.6	88.2	19.3	7.2	1.6	17.1	3.7	63.9	14.0
8	24.2	12.7	3.1	87.3	21.1	7.2	1.7	16.4	4.0	63.7	15.4
9	27.0	14.0	3.8	86.0	23.3	7.2	1.9	15.2	4.1	63.6	17.2
10	30.5	15.3	4.7	84.7	25.9	7.0	2.2	14.1	4.3	63.6	19.4
11	34.8	15.5	5.4	84.5	29.4	6.6	2.3	14.4	5.0	63.5	22.1
12	39.5	15.1	6.0	84.9	33.5	5.9	2.3	16.0	6.3	63.0	24.9
13	44.0	16.2	7.1	83.8	36.9	5.3	2.4	15.8	7.0	62.6	27.5
14	47.3	18.0	8.5	82.0	38.7	5.0	2.4	14.7	7.0	62.2	29.4
15	49.5	19.2	9.5	80.8	40.0	4.9	2.4	13.9	6.9	62.1	30.7
16	50.7	20.4	10.4	79.6	40.4	4.8	2.4	13.0	6.6	61.8	31.3
17	50.8	20.7	10.5	79.3	40.3	5.0	2.5	12.8	6.5	61.5	31.3
18	51.0	21.3	10.9	78.7	40.1	4.9	2.5	12.5	6.4	61.2	31.2
19	51.0	21.5	10.9	78.5	40.1	4.9	2.5	12.8	6.5	60.9	31.1
20	51.0	21.8	11.1	78.2	39.9	4.9	2.5	12.9	6.6	60.4	30.8
21	51.0	22.1	11.3	77.9	39.7	4.9	2.5	12.9	6.6	60.2	30.7
22	51.0	22.3	11.4	77.7	39.6	4.9	2.5	12.9	6.6	59.9	30.5
23	51.0	22.5	11.5	77.5	39.5	4.9	2.5	13.0	6.7	59.6	30.4
24	51.1	22.8	11.7	77.2	39.4	4.9	2.5	13.2	6.7	59.1	30.2
25-29	51.2	23.5	12.0	76.5	39.2	4.8	2.5	13.5	6.9	58.2	29.8
30-39	51.3	25.2	12.9	74.8	38.4	4.8	2.5	13.5	6.9	56.5	29.0
40-49	51.4	26.3	13.5	73.7	37.9	4.8	2.5	12.9	6.6	56.0	28.8
50-59	51.0	26.3	13.4	73.7	37.6	4.9	2.5	13.3	6.8	55.6	28.3
60-69	50.2	26.1	13.1	73.9	37.1	4.6	2.3	13.8	6.9	55.6	27.9
20-30	51.1	22.9	11.7	77.1	39.4	4.9	2.5	13.2	6.8	59.0	30.2
20-50	51.3	24.8	12.7	75.2	38.6	4.8	2.5	13.2	6.8	57.2	29.3

Note: Body weight, lipid ratio, water percentage, mineral were fixed and data were calculated based on fixed ones.

lipid = lipid ratio\*body weight

body water = water percentage \* body weight

LBM = body weight - lipid

protein = body weight - lipid - water - mineral

Table 21. Important parameters of body composition for Asian Reference Man adult male as compared with that of ICRP Reference Man (Caucasian Reference Man).

Organ, tissue or component	[ICRP23, ARM93]					
	Caucasian Reference Man (CRM)		Asian Reference Man (ARM)		ARM to CRM ratio	
	Weight (g)	Rel. wt. (%)	Weight (g)	Weight (%)	Weight 1	Weight 2
Body Weight (BW)	70,000	100.00	60,000	100.00	0.86	1.00
Fat	13,500	19.29	10,000	16.67	0.74	0.86
Essential	1,500		1,200		0.80	
Non-Essential	12,000		8,800		0.73	
Lean Body Mass (LBM)	56,500	80.71	50,000	83.33	0.86	1.03
Skeleton	10,000	14.29	8,400	14.00	0.84	0.98
Teeth(32)	46		45		0.98	1.14
Soft LBM (SLBM)	46,454	66.36	41,655	69.43	0.90	1.05
Water	42,000	60.00	37,000	61.67	0.88	1.03
Extracellular	18,000		16,000		0.89	
Intracellular	24,000		21,000		0.88	
Blood	5,500	7.86	4,800	8.00	0.87	1.02
Muscle	28,000	40.00	24,600	41.00	0.88	1.03
Body Surface	18,000	25.71	16,300	27.17	0.91	
Sp. Gr.	1.07		1.06			

Table 22. Physical properties, contents of blood, water, mineral, lipid and protein of all organs and tissues for Asian Reference Man adult (ARM) as compared with those for ICRP Reference Man adult (CRM).

Organ, tissue, or component <sup>1</sup>	Weight in situ (g)		Total blood (ml)		Residual blood (ml)		Water (g)		Mineral (g)		Lipid (g)		Protein (g)		Specific gravity <sup>9</sup>
	CRM	ARM	CRM	ARM	CRM	ARM	CRM	ARM	CRM	ARM	CRM	ARM	CRM	ARM	
1 Total body	70000	60000	5200	4500	..	..	42000	37000	3700	3200	13500	10000	10600	9200	1.06
1a Total soft tissue	60000	52000	..	..	..	..	38700	33000	400	340	11400	9700	8700	7500	..
2 Adipose tissue	15000	11000	270	150	270	150	2300	1700	30	22	12000	8800	750	550	0.92
3 Subcutaneous (hypodermis)*	7500	5500	140	80	140	80	1100	810	15	11	6000	4400	380	280	0.97
4 Other separable*	5000	3500	90	60	90	60	750	490	10.0	7.0	4000	2800	250	170	0.92
5 Interstitial	1000	700	..	..	..	..	150	110	2.0	1.4	800	560	50	35	0.92
6 Yellow marrow (skeleton)	1500	1300	20	13	..	..	230	200	3.0	2.6	1200	1000	60	52	0.98
7 Adrenals (2)*	14	14	3.3	1.1	0.6	0.6	8	8	0.06	0.10	3.6	2.8	2.2	2.4	1.02
8 Aorta*	100	90	..	..	..	..	70	63	1.4	1.3	1.5	1.1	27	24	..
9 Contents*	190	170	180	160	..	..	150	140	1.9	1.7	1.2	0.9	34	31	1.06
10 Blood	5500	4800	5200	4500	..	..	4400	3800	55	48	36	31	990	860	1.06
11 Plasma	3100	2700	..	..	..	..	2900	2500	29	25	23	20	210	180	1.03
12 Erythrocytes	2400	2100	..	..	..	..	1500	1300	26	23	13	11	780	680	1.09
13 Blood vessels*	200	180	..	..	..	..	150	140	1.2	1.1	..	..	48	42	..
14 Contents (except aorta and pulmonary)*	3000	2100	2900	2000	..	..	2400	1700	30	21	20	14	540	380	1.06
15 Body fat	13500	10000	..	..	..	..	..	..	..	..	13500	10000	..	..	0.92
16 Essential	1500	1200	..	..	..	..	..	..	..	..	1500	1200	..	..	0.92
17 Nonessential	12000	8800	..	..	..	..	..	..	..	..	12000	8800	..	..	0.92
18 Body water	42000	37000	..	..	..	..	42000	37000	..	..	..	..	..	..	1.00
19 Extracellular	18000	16000	..	..	..	..	18000	16000	..	..	..	..	..	..	1.00
20 Intracellular	24000	21000	..	..	..	..	24000	21000	..	..	..	..	..	..	1.00
21 Cartilage (skeleton)	1100	900	..	..	..	..	860	700	45	37	14	11	180	140	1.10
22 Connective tissue	3400	2900	..	..	..	..	2100	1800	140	120	44	38	1200	1000	1.20
23 Tendons and fascia	1400	1200	..	..	..	..	880	750	57	49	14	12	520	450	1.20
24 Periticular tissue	1500	1300	..	..	..	..	950	820	62	54	15	13	560	490	1.20
25 Other connective tissue	500	400	..	..	..	..	320	260	21	17	5	4	180	140	1.20
26 Separable connective tissue*	1600	1400	..	..	..	..	1000	850	66	58	21	16	580	480	1.20
27 Central nervous system*	1430	1500	32	25	..	..	1100	1200	21	23	160	170	110	120	..
28 Brain	1400	1500	31	27.9	..	..	1100	1000	21	29	150	240	110	120	1.03
29 Cerebrum	1200	1300	..	..	..	..	930	980	18	19	130	140	96	98	..
30 Cerebellum	150	160	..	..	..	..	120	130	2.30	2.50	13	14	12	13	..
31 Brain stem	30	30	..	..	..	..	23	23	0.45	0.45	3.3	3.3	2.40	2.40	1.04
32 Spinal cord	30	30	..	..	..	..	..	24	..	0.40	..	3	..	2.60	1.03
33 Contents (cerebrospinal fluid)*	120	110	..	..	..	..	120	110	0.80	0.70	..	..	0.03	0.03	1.01
34 Eyes (2)*	15	15	..	..	..	..	..	..	..	..	..	..	..	..	1.03
35 Lenses (2)	0.4	0.4	..	..	..	..	0.27	0.27	0.00	0.00	0.008	0.008	0.14	0.14	1.10

Table 22. (continued).

Organ, tissue, or component	Weight in situ (g)		Total blood (ml)		Residual blood (ml)		Water (g)		Mineral (g)		Lipid (g)		Protein (g)		Specific gravity
	CFM	ARM	CFM	ARM	CFM	ARM	CFM	ARM	CFM	ARM	CFM	ARM	CFM	ARM	
36 Gall bladder*	10 *	8	.. *	..	.. *	..	7.3 *	7.9	0.07 *	0.06	.. *	..	.. *	..	..
37 Contents (bile)*	62 *	50	.. *	..	.. *	..	53 *	48	0.60 *	0.50	1.2 *	0.9	0.26 *	0.24	1.03
38 GI tract*	1200 *	1100	.. *	..	.. *	..	950 *	880	10 *	9	74 *	55	160 *	150	1.04
39 Contents (food plus digestive fluids)*	1005 *	950	.. *	..	.. *	..	900 *	850	.. *	..	.. *	..	.. *	..	..
40 Esophagus	40	40	..	..	..	..	30	30	0.36	0.36	..	..	..	..	1.04
41 Stomach	150	140	6	4.40	..	..	110	100	1.20	1.10	9.3	8.7	20	19	1.05
42 Contents	250	240	..	..	..	..	..	..	..	..	..	..	..	..	..
43 Intestine	1000	920	..	..	..	..	790	730	8	7	62	57	130	120	1.04
44 Contents	750	710	..	..	..	..	..	..	..	..	..	..	..	..	..
45 Small intestine	640	590	..	..	..	..	510	470	5.1	4.7	40	40	83	77	1.04
46 Contents	400	350	..	..	..	..	..	..	..	..	..	..	..	..	..
47 Duodenum	60	50	..	..	..	..	47	39	0.48	0.40	3.7	3.1	7.80	6.50	1.05
48 Jejunum	280	260	..	..	..	..	220	200	2.20	2.00	17	16	36	33	1.04
49 Ileum	300	280	..	..	..	..	240	220	2.40	2.20	19	18	39	36	1.04
50 Large intestine	370	330	..	..	..	..	290	260	2.30	2.10	23	21	48	43	1.04
51 Contents	355	360	..	..	..	..	..	..	..	..	..	..	..	..	..
52 Upper large intestine	210	180	..	..	..	..	170	150	1.40	1.20	13	11	27	23	1.04
53 Contents	220	220	..	..	..	..	..	..	..	..	..	..	..	..	..
54 Ascending colon and cecum	90	80	..	..	..	..	71	63	0.72	0.64	5.6	5.0	12	11	1.04
55 Transverse colon	120	100	..	..	..	..	95	79	0.96	0.80	7.4	6.2	16	13	1.04
56 Lower large intestine	160	150	..	..	..	..	130	120	1.30	1.20	9.9	9.3	21	20	1.04
57 Contents	135	140	..	..	..	..	..	..	..	..	..	..	..	..	..
58 Descending colon	90	80	..	..	..	..	71	63	0.72	0.64	5.6	5.4	3.80	3.40	1.04
59 Sigmoid colon	50	50	..	..	..	..	40	40	0.40	0.40	3.1	3.1	6.50	6.50	1.04
60 Rectum	20	20	..	..	..	..	16	16	0.16	0.16	1.2	1.2	2.60	2.60	1.04
61 Hair*	20 *	25	.. *	..	.. *	..	1.7 *	2.1	0.10 *	0.13	0.5 *	0.6	18 *	22	1.30
62 Heart*	330 *	380	53 *	89.2	13 *	11	240 *	200	3.60 *	3.40	33 *	26	55 *	54	1.03
63 Contents (av.)*	500 *	400	500 *	380	.. *	..	400 *	320	5 *	4	3.3 *	2.5	90 *	72	1.06
64 Kidneys (2)*	310 *	320	70 *	48.5	25 *	26	240 *	190	3.40 *	2.80	16 *	30	53 *	50.7	1.05
65 Larynx*	28 *	27	.. *	..	.. *	..	19 *	18	0.84 *	0.81	.. *	..	.. *	..	1.08
66 Liver*	1800 *	1600	250 *	180	.. *	..	1300 *	980	23 *	17.9	120 *	160	320 *	260	..
67 Lung*	1000 *	1200	530 *	710	100 *	90	780 *	370	11 *	6	9.9 *	6.2	177 *	76	1.05 deflated
68 Parenchyma (includes bronchial tree plus capillary blood)	570	500	..	90	100	90	430	380	6.3	5.5	7.1	6.2	100	88	1.00 inflated
69 Blood (arterial and venous)	430	700	400	660	..	..	350	550	4.3	7.0	2.8	4.2	77	130	1.06
70 Bronchial tree	30	26	..	..	..	..	..	..	..	..	..	..	..	..	..



Table 22. (continued).

Organ, tissue, or component 1	Weight in situ (g)		Total blood (ml)		Residual blood (ml)		Water (g)		Mineral (g)		Lipid (g)		Protein (g)		Specific gravity 9
	CRM	ARM	CRM	ARM	CRM	ARM	CRM	ARM	CRM	ARM	CRM	ARM	CRM	ARM	
71 Lymphocytes	1500	1300	..	..	..	..	..	..	..	..	..	..	..	..	..
72 Lymphatic tissue	700	600	..	..	..	..	..	..	..	..	..	..	..	..	..
73 Lymph nodes (dissectible)*	250 *	220	..	3	9 *	3	..	..	..	..	..	..	..	..	..
74 Miscellaneous*	2953 *	2534	..	..	..	..	1770 *	1800	..	..	..	..	..	..	..
75 Solid soft tissue (nasopharynx, etc.)	2600	2134	..	..	..	..	..	..	..	..	..	..	..	..	..
76 Fluid (synovial, pleural, etc.)	350	400	..	..	..	..	350	300	..	..	..	..	..	..	..
77 Muscle (skeletal)*	28000 *	25000	700 *	430	250 *	220	22000 *	20000	340 *	300	620 *	460	4800 *	4300	1.04
78 Nails (20)*	3 *	3	..	..	..	..	0.2 *	0.2	..	..	..	..	..	..	1.30
79 Pancreas*	100 *	130	..	..	3 *	2	71 *	80	1.20 *	2.40	8 *	17	13 *	19	1.05
80 Parathyroid (4)*	0.12 *	0.12	..	..	..	..	..	..	..	..	..	..	..	..	1.05
81 Pineal*	0.18 *	0.18	..	..	..	..	..	..	..	..	..	..	..	..	1.07
82 Pituitary*	0.60 *	0.60	0.056 *	0.060	..	..	0.5 *	0.4	..	0.01	..	0.09	..	0.05	..
83 Prostate*	16 *	12	..	..	..	..	13 *	9	0.20 *	0.20	0.2 *	0.2	2.40 *	1.70	1.05
83a Contents*	..	4	..	..	..	..	..	3	..	..	..	..	..	0.15	..
84 Salivary glands (6)*	85 *	82	8.2 *	6.1	..	..	64 *	62	..	..	..	..	..	..	1.05
85 Parotid (2)	50	48	4.8	4.1	..	..	..	..	..	..	..	..	..	..	1.05
86 Submaxillary (2)	25	24	2.4	2.1	..	..	..	..	..	..	..	..	..	..	1.05
87 Sublingual (2)	10	10	1.0	0.7	..	..	..	..	..	..	..	..	..	..	1.05
88 Skeleton*	10000 *	8400	350 *	220	..	..	3300 *	2700	2800 *	2500	1900 *	1400	1900 *	1700	1.40
89 Bone	5000	4500	250	160	..	..	850	770	2700	2400	50	45	1300	1200	2.20
90 Cortical	4000	3600	..	..	..	..	600	540	2200	2000	40	30	1000	900	1.85
91 Trabecular	1000	900	..	..	..	..	230	210	500	450	10	9	240	220	1.08
92 Red marrow	1500	1000	80	45	..	..	600	400	9	6	600	400	300	200	1.03
93 Yellow marrow	1500	1300	20	15	..	..	230	200	3	3	1200	1000	60	52	0.98
94 Cartilage	1100	900	..	..	..	..	860	700	45	37	14	11	180	140	1.10
95 Periarticular tissue (skeletal)	900	700	..	..	..	..	570	450	37	29	12	9	140	110	1.10
96 Skin*	2600 *	2400	65 *	47	..	..	1600 *	1500	18 *	17	260 *	190	750 *	690	1.10
97 Epidermis	100	100	..	..	..	..	..	..	..	..	..	..	..	..	1.15
98 Dermis	2500	2300	..	..	..	..	..	..	..	..	..	..	..	..	1.12
99 Hypodermis (see adipose tissue)	7500	5500	..	..	..	..	..	..	..	..	..	..	..	..	0.97
100 Spleen*	180 *	135	90 *	65.2	40 *	30	140 *	48.9	2.5 *	1.0	2.9 *	2.2	35 *	17	1.06
101 Teeth (32)*	46 *	45	..	..	..	..	4.2 *	3.7	34 *	33	..	..	8.30 *	7.30	2.10
102 Enamel	10	10	..	..	..	..	0.3	0.3	9.6	9.6	..	..	0.12	0.12	..
103 Dentin	35	34	..	..	..	..	3.9	3.7	25	24	..	..	0.16	0.15	..
104 Pulp	1	1	..	..	..	..	0.7	0.7	0.1	0.1	0.0	0.0	0.60	0.60	..
105 Testes (2)*	35 *	36.9	1.3 *	2.8	..	..	28 *	25	0.4 *	0.4	1.1 *	3.2	4.20 *	5.50	1.04

Table 22. (continued).

Organ, tissue, or component	Weight in situ (g)		Total blood (ml)		Residual blood (ml)		Water (g)		Mineral (g)		Lipid (g)		Protein (g)		Specific gravity
	CRM	ARM	CRM	ARM	CRM	ARM	CRM	ARM	CRM	ARM	CRM	ARM	CRM	ARM	
106 Non-Parenchyma*	20 *	30.1	6.0 *	6.6	.. *	..	16 *	13.1	0.2 *	0.1	.. *	6.4	.. *	3.80	1.03
107 Thyroid*	20 *	19	3.6 *	2.6	.. *	..	15 *	11.3	0.2 *	0.2	2.0 *	2.2	2.80 *	2.80	1.05
108 Tongue*	70 *	67	.. *	..	.. *	..	46 *	45	0.7 *	0.7	14 *	11	12 *	11	..
109 Tonsils (2 palatine)*	4 *	4	.. *	..	.. *	..	3 *	3	.. *	..	.. *	..	.. *	..	..
110 Trachea*	10 *	9	.. *	..	.. *	..	6 *	5	0.2 *	0.1	.. *	..	.. *	..	1.08
111 Ureters (2)*	16 *	14	.. *	..	.. *	..	11 *	10	.. *	..	.. *	..	.. *	..	..
112 Urethra*	10 *	9	.. *	..	.. *	..	7.5 *	6.8	.. *	..	.. *	..	.. *	..	..
113 Urinary bladder*	45 *	40	.. *	..	.. *	..	29 *	26	0.4 *	0.3	.. *	..	.. *	..	..
114 Contents (urine)*	102 *	100	.. *	..	.. *	..	95 *	95	1.1 *	1.1	.. *	..	6.20 *	6.20	1.02
115a Breast		19					8		0.1			1.5	0.40		
116a Penis*		47		30		3	37		0.5			0.3	8		1.04
Total body	70000	60000	5200	4500	..	..	42000	37000	3700	3200	13500	10000	10600	9200	..
Total of asterisked quantities	70000	60000	5972	4563	..	..	40958	36000	3404	3026	13273	9779	10378	8988	..

(Asterisked quantities make up the totality of Reference Man)

CRM: Reference Man, (ICRP publication 23)

ARM: Asian Reference Man, Tanaka Model

Table 23. Physical properties, contents of blood, water, mineral, lipid and protein of all organs and tissues for Asian Reference Man male (ARMM) and female (ARMF): 0 year (3 months).

[ARM93, Main D, Main Comp]

1 Organ, tissue, or component	2 Weight in situ (g)		3 Total blood (ml)		4 Organs without Free Blood (g)		5 Water (g)		6 Mineral (g)		7 Lipid (g)		8 Protein (g)		9 Specific gravity	
	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF
*1 Total body	6000	6000	640	640	5300	5300	4300	4300	200	200	600	600	700	700	1.08	1.08
1a Total soft tissue	5400	5400			5400	5400	3600	3600	37	37	1000	1000	810	810		
1b Total hard tissue	600	600			600	600										
2 Adipose tissue	560	560	15	15	540	544	140	150	1.9	1.5	360	360	49	47	0.94	0.94
3 Subcutaneous (hypodermis)*	320*	320	7.9*	7.9	310*	310	80*	80	1.1*	0.68	210*	210	27*	17	0.99	0.99
4 Other separable*	200*	200	6.3*	6.3	190*	190	52*	52	0.7*	0.7	130*	130	18*	27	0.94	0.94
5 Interstitial	40	40			40	40	13	13	0.16	0.1	24	24	4	2.5	0.94	0.94
6 Yellow marrow (skeleton)																
*7 Adrenals (2)*	4.3*	4	0.3*	0.3	4*	3.7	3.1*	2.9	*		0.5*	0.5	0.4*	0.3	1.04	1.04
8 Aorta*	13*	13	*	*	13*	13	9.1*	9.1	0.19*	0.19	0.16*	0.16	3.5*	3.5		
9 Contents*	24*	24	23*	23	*	*	20*	20	0.24*	0.24	0.13*	0.13	4.4*	4.4	1.08	1.08
*10 Blood	680	680	640	640			550	550	6.5	6.6	4.5	4.8	120	120	1.08	1.08
11 Plasma	380	380					350	350	3.5	3.6	2.5	2.8	25	25	1.05	1.05
12 Erythrocytes	300	300					200	200	3	3	2	2	98	98	1.11	1.11
13 Blood vessels*	26*	26	*	*	26*	26	20*	20	0.16*	0.16			6.1*	6.1		
14 Contents (except aorta and pulmonary)*	320*	320	300*	300			260*	260	3.1*	3.1	2.1*	2.2	58*	58	1.08	1.08
*15 Body fat	600	600			600	600					600	600			0.94	0.94
16 Essential	80	80			80	80					80	80			0.94	0.94
17 Nonessential	520	520			520	520					520	520			0.94	0.94
*18 Body water	4300	4300			4300	4300	4300	4300							1.02	1.02
19 Extracellular	1800	1800			1800	1800	1800	1800							1.02	1.02
20 Intracellular	2500	2500			2500	2500	2500	2500							1.02	1.02
21 Cartilage (skeleton)	130	130			130	130	100	100	5.3	5.3	1.6	1.6	20	20	1.12	1.12
22 Connective tissue	410	410			410	410	260	260	17	17	4.1	4.1	150	150	1.22	1.22
23 Tendons and fascia	170	170			170	170	110	110	6.9	6.9	1.7	1.7	64	64	1.22	1.22
24 Periaricular tissue	180	180			180	180	110	110	7.5	7.5	1.8	1.8	68	68	1.22	1.22
25 Other connective tissue	60	60			60	60	39	39	2.6	2.6	0.6	0.6	21	21	1.22	1.22
26 Separable connective tissue*	180*	180	*	*	180*	180	120*	120	8.3*	8.3	2.3*	2.3	69*	69	1.22	1.22
*27 Central nervous system*	660*	480	11*	11	650*	470	510*	380	9.7*	7.1	71*	51	51*	38		
*28 Brain	650	470	13	13	637	457	500	370	9.6	6.9	70	50	50	37	1.05	1.05
29 Cerebrum	570	390			570	390	440	300	8.3	5.7	62	43	44	30		
30 Cerebellum	70	70			70	70	57	57	1.1	1.1	6.2	6.2	5.8	5.8		
31 Brain stem	10	10			10	10	7.7	7.7	0.15	0.15	1.1	1.1	0.8	0.8	1.06	1.06
32 Spinal cord	12	12			12	12	9.6	9.6	0.16	0.16	1.2	1.2	1	1	1.05	1.05
33 Contents (cerebrospinal fluid)*	16*	16	*	*	16*	16	16*	16	0.1*	0.1	*	*	0*	0	1.03	1.03
*34 Eyes (2)*	6.7*	3.9	*	*	6.7*	3.9					*	*	*	*	1.05	1.05
*35 Lenses (2)	0.18	0.11			0.18	0.11	0.07	0.04	0	0	0	0	0.04	0.02	1.12	1.12

Table 23. (continued).

[ARM93, Main D, Main Comp]

1 Organ, tissue, or component	2 Weight in situ (g)		3 Total blood (ml)		4 Organs without Free Blood (g)		5 Water (g)		6 Mineral (g)		7 Lipid (g)		8 Protein (g)		9 Specific gravity	
	ARM	MF	ARM	MF	ARM	MF	ARM	MF	ARM	MF	ARM	MF	ARM	MF	ARM	MF
36 Gall bladder*	1 *	1	*		1 *	1	0.99 *	0.99	0.01 *	0.01	0.13 *	0.13	0.03 *	0.03	1.05	1.05
37 Contents (bile)*	7 *	7	*		7 *	7	6.7 *	6.7	0.07 *	0.07	9.5 *	9.5	20 *	20	1.06	1.06
38 GI tract*	160 *	160	*		160 *	160	120 *	120	1.3 *	1.3						
39 Contents (food plus digestive fluids)*	140 *	140	*		140 *	140	130 *	130								
40 Esophagus	7	7			7	7	5.3	5.3	0.06	0.06					1.06	1.06
41 Stomach	23	23	0.72	0.72	22	22	16	16	0.18	0.18	1.4	1.4	3.1	3.1	1.07	1.07
42 Contents	40	40			40	40										
43 Intestine	130	130			130	130	100	100	1	1	8.1	8.1	17	17	1.06	1.06
44 Contents	100	100			100	100										
45 Small intestine	83	83			83	83	65	65	0.65	0.65	5.2	5.2	11	11	1.06	1.06
46 Contents	50	50			50	50										
47 Duodenum	8	8			8	8	6.2	6.2	0.06	0.06	0.5	0.5	1	1	1.07	1.07
48 Jejunum	37	37			37	37	29	29	0.28	0.28	2.3	2.3	4.7	4.7	1.06	1.06
49 Ileum	38	38			38	38	30	30	0.3	0.3	2.4	2.4	4.9	4.9	1.06	1.06
50 Large intestine	47	47			47	47	37	37	0.38	0.38	3	3	5.2	5.2	1.06	1.06
51 Contents	50	50			50	50										
52 Upper large intestine	26	26			26	26	21	21	0.21	0.21	1.6	1.6	3.5	3.5	1.06	1.06
53 Contents	30	30			30	30										
54 Ascending colon and cecum	11	11			11	11	8.7	8.7	0.09	0.09	0.69	0.69	1.5	1.5	1.06	1.06
55 Transverse colon	15	15			15	15	12	12	0.12	0.12	0.93	0.93	2	2	1.06	1.06
56 Lower large intestine	21	21			21	21	17	17	0.17	0.17	1.4	1.4	1.8	1.8	1.06	1.06
57 Contents	20	20			20	20										
58 Descending colon	11	11			11	11	8.7	8.7	0.09	0.09	0.74	0.74	0.47	0.47	1.06	1.06
59 Sigmoid colon	7	7			7	7	5.6	5.6	0.06	0.06	0.43	0.43	0.91	0.91	1.06	1.06
60 Rectum	3	3			3	3	2.4	2.4	0.02	0.02	0.18	0.18	0.39	0.39	1.06	1.06
61 Hair*	0.2 *	0.2	*		0.2 *	0.2	0.02 *	0.02	0 *	0	0 *	0	0.18 *	0.18	1.32	1.32
*62 Heart*	37 *	33	8.8 *	8.8	28 *	23	22 *	19	0.1 *	0.1	3.5 *	3.4	2.6 *	1.9	1.05	1.05
63 Contents (av.)*	57 *	57	54 *	54	46 *	46	46 *	46	0.57 *	0.57	0.36 *	0.36	10 *	10	1.08	1.08
*64 Kidneys (2)*	42 *	37	6.2 *	6.2	35 *	30	28 *	25	0.1 *	0.1	4.3 *	4.3	3.2 *	2.5	1.07	1.07
65 Larynx*	4 *	4	*		4 *	4	2.7 *	2.7	0.12 *	0.12					1.10	1.10
*66 Liver*	240 *	220	26 *	26	210 *	190	160 *	150	1.1 *	1	26 *	26	19 *	15	1.07	1.07
*67 Lung*	140 *	140	79 *	79	57 *	57	110 *	110	1.4 *	1.4	1.3 *	1.3	26 *	26	deflated 0.26 inflated	0.26
68 Parenchyma (includes bronchial tree plus capillary blood)	60	60	11	11	49	49	46	46	0.66	0.66	0.74	0.74	11	11	1.02	1.02
*69 Blood (arterial and venous)	80	80	75	75			64	64	0.77	0.78	0.53	0.56	15	15	1.08	1.08
70 Bronchial tree	4	4			4	4										

Table 23. (continued).

[ARM93, Main D, Main Comp]

1 Organ, tissue, or component	2 Weight in situ (g)		3 Total blood (ml)		4 Organs without Free Blood (g)		5 Water (g)		6 Mineral (g)		7 Lipid (g)		8 Protein (g)		9 Specific gravity	
	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF
71 Lymphocytes	190	190			190	190										
*69 Blood (arterial and venous)	85	85			85	85										
73 Lymph nodes (dissectible)*	31 *	31	0.42 *	0.42	31 *	31	*		*		*		*			
74 Miscellaneous*	34 *	110			34 *	110	130 *	160								
75 Solid soft tissue	5	83			5	83										
76 Fluid (synovial, pleural, etc.)	29	29			29	29	22	22								
*77 Muscle (skeletal)*	2000 *	2000	34 *	34	2000 *	2000	1600 *	1600	24 *	24	37 *	37	340 *	340	1.06	1.06
78 Nails (20)*	0.43 *	0.43			0.43 *	0.43	0.03 *	0.03							1.32	1.32
79 Pancreas*	11 *	9.8	1.3 *	1.3	9.8 *	8.4	7.7 *	6.8	0.1 *	0.1	1.2 *	1.1	0.9 *	0.7	1.07	1.07
80 Parathyroid (4)*	0.05 *	0.05			0.05 *	0.05									1.07	1.07
*81 Pineal*	0.08 *	0.05			0.08 *	0.05									1.09	1.09
*82 Pituitary*	0.19 *	0.21	0.02 *	0.02	0.17 *	0.19	0.13 *	0.15	0 *	0	0.02 *	0.02	0.01 *	0.01		
83 Prostate*	1 *				1 *		0.72 *		0.02 *		0.01 *		0.13 *		1.07	1.07
83a Contents*																
84 Salivary glands (6)*	13 *	13	0.89 *	0.89	12 *	12	9.1 *	9.1							1.07	1.07
85 Parotid (2)	8	8	0.68	0.68	7.3	7.3									1.07	1.07
86 Submaxillary (2)	3	3	0.26	0.26	2.7	2.7									1.07	1.07
87 Sublingual (2)	2	2	0.13	0.13	1.9	1.9									1.07	1.07
*88 Skeleton*	600 *	600	20 *	20	580 *	580	240 *	220	220 *	210	130 *	120	150 *	140	1.43	1.43
*89 Bone	300	300	11	11	290	290	55	55	160	160	3	3	82	82	2.24	2.24
90 Cortical	240	240			240	240									1.88	1.88
91 Trabecular	60	60			60	60									1.10	1.10
92 Red marrow	110	110	5	5	100	100	44	44	0.65	0.65	44	44	22	22	1.05	1.05
93 Yellow marrow																
94 Cartilage	110	110			110	110	100	100	5.3	5.3	1.6	1.6	20	20	1.12	1.12
95 Periarticular tissue (skeletal)	80	80			80	80	64	64	4.1	4.1	1.3	1.3	16	16	1.12	1.12
96 Skin*	320 *	320	6.7 *	6.7	310 *	310	210 *	210	2.4 *	2.4	27 *	27	98 *	98	1.12	1.12
97 Epidermis	20	20			20	20									1.17	1.17
98 Dermis	300	300			300	300									1.14	1.14
*99 Hypodermis (see adipose tissue)	320	320			320	320									0.99	0.99
100 Spleen*	20 *	18	9.6 *	9.6	9.7 *	7.4	8 *	7.1	0.1 *	0.1	1.2 *	1.2	1 *	0.7	1.08	1.08
101 Teeth (32)*	20 *	12			20 *	12	0.71 *	0.47	4.5 *	2.7			0.15 *	0.14	2.14	2.14
102 Enamel	4	3			4	3	0.03	0.02	0.96	0.72			0.01	0.01		
103 Dentin	16	9			16	9	0.54	0.31	3.5	2			0.02	0.01		
104 Pulp	0.2	0.2			0.2	0.2	0.14	0.14	0.02	0.02	0	0	0.12	0.12		
105 Testes (2)*	2.2 *		0.2 *		2 *		1.6 *		0.03 *		0.2 *		0.2 *		1.06	1.06

Table 23. (continued).

[ARM93, Main D, Main Comp]

1 Organ, tissue, or component	2 Weight in situ (g)		3 Total blood (ml)		4 Organs without Free Blood (g)		5 Water (g)		6 Mineral (g)		7 Lipid (g)		8 Protein (g)		9 Specific gravity	
	ARM	MF	ARM	MF	ARM	MF	ARM	MF	ARM	MF	ARM	MF	ARM	MF	ARM	MF
*106 Thymus*	25 *	26 *	5.5 *	5.5 *	19 *	20 *	15 *	16 *	0.1 *	0.1 *	2.3 *	2.6 *	1.9 *	1.7 *	1.05	1.05
*107 Thyroid*	1.8 *	1.8 *	0.2 *	0.2 *	1.6 *	1.6 *	1.2 *	1.2 *	*	*	0.2 *	0.2 *	0.1 *	0.1 *	1.07	1.07
108 Tongue*	30 *	18 *	*	*	30 *	18 *	6.7 *	4 *	0.1 *	0.06 *	1.6 *	0.96 *	1.6 *	0.96 *		
109 Tonsils (2 palatine)*																
110 Trachea*	1 *	1 *	*	*	1 *	1 *	0.56 *	0.56 *	0.02 *	0.02 *	*	*	*	*	1.10	1.10
111 Ureters (2)*	2 *	2 *	*	*	2 *	2 *	1.4 *	1.4 *	*	*	*	*	*	*		
112 Urethra*	1 *	1 *	*	*	1 *	1 *	0.76 *	0.76 *	*	*	*	*	*	*		
113 Urinary bladder*	5 *	5 *	*	*	5 *	5 *	3.9 *	3.9 *	0.05 *	0.05 *	*	*	*	*		
114 Contents (urine)*	14 *	14 *	*	*	14 *	14 *	14 *	14 *	0.16 *	0.16 *	*	*	0.91 *	0.91 *	1.04	1.04
115 Breast*	1.3 *	1.3 *	*	*	1.3 *	1.3 *	0.8 *	0.8 *	0.01 *	0.01 *	0.15 *	0.15 *	0.04 *	0.04 *		
116 Ovary*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
117 Penis*	2.8 *	2.8 *	2 *	2 *	0.68 *	0.68 *	4.7 *	4.7 *	0.06 *	0.06 *	0.04 *	0.04 *	1 *	1 *	1.06	1.06
118 Uterus*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
119 Uterine tube*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
120 Vagina*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
Total body	6000	6000	640	490	5300	5500	4300	4300	200	200	600	600	700	700		
Total of asterisked quantities	5700	5600	610	650	4900	4900	4000	3800	280	260	660	630	910	880		

(Asterisked quantities make up the totality of Reference Man)

ARM: Asian Reference Man, Male. ARMF: Asian Reference Man, female by G. Tanaka

Table 24. Physical properties, contents of blood, water, mineral, lipid and protein of all organs and tissues for Asian Reference Man male (ARMM) and female (ARMF): 1 year.

[ARM93, Main D, Main Comp]

1 Organ, tissue, or component	2 Weight in situ (g)		3 Total blood (ml)		4 Organs without Free Blood (g)		5 Water (g)		6 Mineral (g)		7 Lipid (g)		8 Protein (g)		9 Specific gravity	
	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF
*1 Total body	11000	11000	830	750	10000	10000	7100	7100	600	500	1100	1000	2100	2200	1.08	1.08
1a Total soft tissue	9700	9700			9700	9700	6000	6000	500	500	1800	1800	1400	1400	••	••
1b Total hard tissue	1300	1300			1300	1300										
2 Adipose tissue	1400	1320	20	20	1300	1300	200	200	2.7	2.6	1100	1100	68	66	0.94	0.94
3 Subcutaneous (hypodermis)*	740*	720	11*	10	730*	710	110*	110	1.5*	1.4	600*	600	38*	37	0.99	0.99
4 Other separable*	500*	480	8.6*	8.2	490*	470	70*	67	0.94*	0.91	400*	400	24*	23	0.94	0.94
5 Interstitial	120	120			120	120	19	19	0.24	0.24	96	96	6	6	0.94	0.94
6 Yellow marrow (skeleton)																
*7 Adrenals (2)*	4.5*	4.2	0.3*	0.3	4.2*	3.9	3.2*	2.9	*	*	0.5*	0.5	0.4*	0.4	1.04	1.04
8 Aorta*	17*	17	*	*	17*	17	12*	12	0.25*	0.24	0.21*	0.21	4.5*	4.5	••	••
9 Contents*	32*	32	30*	30	*	*	26*	26	0.32*	0.32	0.17*	0.17	5.8*	5.8	1.08	1.08
*10 Blood	900	900	850	850			720	720	9	9	6	6.3	160	160	1.08	1.08
11 Plasma	500	500					460	460	4.6	4.6	3	3.2	33	33	1.05	1.05
12 Erythrocytes	400	400					260	260	4.4	4.4	3	3.1	130	130	1.11	1.11
13 Blood vessels*	34*	34	*	*	34*	34	26*	26	0.21*	0.21			7.9*	7.9	••	••
14 Contents (except aorta and pulmonary)*	470*	440	440*	420	*	*	380*	350	4.5*	4.3	3.1*	3.1	85*	80	1.08	1.08
*15 Body fat	1300	1300			1300	1300					1300	1300			0.94	0.94
16 Essential	200	200			200	200					200	200			0.94	0.94
17 Nonessential	1100	1100			1100	1100					1100	1100			0.94	0.94
*18 Body water	7100	6800			7100	6800	7100	6800							1.02	1.02
19 Extracellular	3100	2900			3100	2900	3100	2900							1.02	1.02
20 Intracellular	4000	3900			4000	3900	4000	3900							1.02	1.02
21 Cartilage (skeleton)	170	170			170	170	130	130	7	6.9	2.1	2.1	26	26	1.12	1.12
22 Connective tissue	560	550			560	550	350	350	23	23	5.6	5.5	210	210	1.22	1.22
23 Tendons and fascia	230	230			230	230	140	140	9.4	9.3	2.3	2.3	86	85	1.22	1.22
24 Peritarticular tissue	250	250			250	250	160	160	10	9.9	2.5	2.5	94	93	1.22	1.22
25 Other connective tissue	80	79			80	79	52	51	3.4	3.4	0.8	0.79	28	28	1.22	1.22
26 Separable connective tissue*	260*	250	*	*	260*	250	160*	160	11*	11	3*	2.9	89*	86	1.22	1.22
*27 Central nervous system*	1100*	1100	19*	17	1100*	1100	860*	850	16*	16	120*	120	87*	86	••	••
*28 Brain	1100	1090	21	20	1080	1070	850	840	16	16	120	120	85	84	1.05	1.05
29 Cerebrum	960	950			960	950	740	730	14	14	110	110	74	73	••	••
30 Cerebellum	120	120			120	120	98	97	1.8	1.8	11	10	9.9	9.8	••	••
31 Brain stem	20	20			20	20	15	15	0.3	0.3	2.2	2.2	1.6	1.6	1.06	1.06
32 Spinal cord	15	15			15	15	11	11	0.27	0.26	2	2	1.7	1.7	1.05	1.05
33 Contents (cerebrospinal fluid)*	21*	21	*	*	21*	21	21*	21	0.13*	0.13	*	*	0.01*	0.01	1.03	1.03
*34 Eyes (2)*	7*	6.9	*	*	7*	6.9							*	*	1.05	1.05
*35 Lenses (2)	0.1	0.099			0.1	0.099	0.07	0.07	0	0	0	0	0.04	0.04	1.12	1.12

Table 24. (continued).

[ARM93, Main D, Main Comp]

1 Organ, tissue, or component	2 Weight in situ (g)		3 Total blood (ml)		4 Organs without Free Blood (g)		5 Water (g)		6 Mineral (g)		7 Lipid (g)		8 Protein (g)		9 Specific gravity	
	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM
36 Gall bladder*	2 *	2			2 *	2	2 *	2	0.02 *	0.02						
37 Contents (bile)*	9 *	8.9			9 *	8.9	8.6 *	8.6	0.09 *	0.09	0.16 *	0.16	0.04 *	0.04	1.05	1.05
38 GI tract*	210 *	210			210 *	210	160 *	160	1.7 *	1.6	11 *	11	29 *	29	1.06	1.06
39 Contents (food plus digestive fluids)*	180 *	180			180 *	180	160 *	160								
40 Esophagus	10	9.9			10	9.9	7.5	7.4	0.09	0.09					1.06	1.06
41 Stomach	30	30	0.94	0.93	29	29	21	21	0.24	0.23	1.9	1.9	4.1	4.1	1.07	1.07
42 Contents	50	50			50	50										
43 Intestine	170	170			170	170	130	130	1.3	1.3	11	11	21	20	1.06	1.06
44 Contents	130	130			130	130										
45 Small intestine	110	110			110	110	86	85	0.86	0.85	6.9	6.9	14	14	1.06	1.06
46 Contents	60	59			60	59										
47 Duodenum	9	8.9			9	8.9	7	6.9	0.07	0.07	0.56	0.55	1.2	1.2	1.07	1.07
48 Jejunum	49	49			49	49	38	37	0.38	0.37	3	3	6.2	6.1	1.06	1.06
49 Ileum	52	51			52	51	41	40	0.41	0.4	3.3	3.3	6.7	6.6	1.06	1.06
50 Large intestine	60	59			60	59	47	47	0.48	0.48	3.8	3.7	6.6	6.5	1.06	1.06
51 Contents	70	69			70	69										
52 Upper large intestine	33	33			33	33	26	26	0.26	0.26	2	2	4.4	4.4	1.06	1.06
53 Contents	40	40			40	40										
54 Ascending colon and cecum	15	15			15	15	12	12	0.12	0.12	0.94	0.93	2.1	2.1	1.06	1.06
55 Transverse colon	18	18			18	18	14	14	0.14	0.14	1.1	1.1	2.3	2.3	1.06	1.06
56 Lower large intestine	27	27			27	27	21	21	0.22	0.21	1.7	1.7	2.2	2.1	1.06	1.06
57 Contents	30	30			30	30										
58 Descending colon	15	15			15	15	12	12	0.12	0.12	1	0.99	0.64	0.63	1.06	1.06
59 Sigmoid colon	8	7.9			8	7.9	6.4	6.3	0.06	0.06	0.5	0.49	1	0.99	1.06	1.06
60 Rectum	4	4			4	4	3.2	3.2	0.03	0.03	0.24	0.24	0.52	0.51	1.06	1.06
61 Hair*	0.5 *	1			0.5 *	1	0.04 *	0.08	0 *	0.01	0.01 *	0.02	0.44 *	0.88	1.32	1.32
*62 Heart*	50 *	52	12 *	12	37 *	39	29 *	30	0.4 *	0.4	4.6 *	5.2	4.2 *	3.9	1.05	1.05
63 Contents (av.)*	75 *	74	71 *	70			60 *	59	0.72 *	0.73	0.49 *	0.52	14 *	13	1.08	1.08
*64 Kidneys (2)*	66 *	63	9.8 *	9.5	55 *	53	43 *	42	0.5 *	0.5	6.8 *	7.2	5.5 *	4.7	1.07	1.07
65 Larynx*	5 *	5			5 *	5	3.3 *	3.3	0.15 *	0.15					1.10	1.10
*66 Liver*	380 *	370	42 *	41	340 *	330	260 *	250	3.9 *	3.8	41 *	44	33 *	28		
*67 Lung*	190 *	190	110 *	110	68 *	76	150 *	150	1.9 *	2	1.7 *	1.8	34 *	34	1.07	1.07
															deflated	0.26
															inflated	0.26
68 Parenchyma (includes bronchial tree plus capillary blood)	80	80	14	14	65	65	61	61	0.88	0.88	0.99	0.99	14	14		
*69 Blood (arterial and venous)	110	110	100	100	0.063	0.063	88	88	1.1	1.1	0.73	0.77	20	20	1.02	1.02
70 Bronchial tree	4.9	4.9			4.9	4.9									1.08	1.08



Table 24. (continued).

[ARM93, Main D, Main Comp]

1 Organ, tissue, or component	2 Weight in situ (g)		3 Total blood (ml)		4 Organs without Free Blood (g)		5 Water (g)		6 Mineral (g)		7 Lipid (g)		8 Protein (g)		9 Specific gravity	
	ARM	ARMF	ARM	ARMF	ARM	ARMF	ARM	ARMF	ARM	ARMF	ARM	ARMF	ARM	ARMF	ARM	ARMF
71 Lymphocytes	250	250			250	250									..	..
72 Lymphatic tissue	110	110			110	110									..	..
73 Lymph nodes (dissectible)*	46 *	46	0.62 *	0.63	45 *	45	*	*	*	*	*	*	*	*	..	..
74 Miscellaneous*	330 *	460			330 *	460	*	*	*	*	*	*	*	*	..	..
75 Solid soft tissue	270	400			270	400									..	..
76 Fluid (synovial, pleural, etc.)	60	60			60	60									..	..
*77 Muscle (skeletal)*	4300 *	3700	69 *	59	4200 *	3600	3200 *	3200	48 *	41	74 *	63	690 *	690	1.06	1.06
78 Nails (20)*	0.56 *	0.55					0.04 *	0.04	*	*	*	*	*	*	1.32	1.32
79 Pancreas*	23 *	20	2.7 *	2.3	20 *	17	15 *	13	0.4 *	0.3	2.5 *	2.3	2.1 *	1.6	1.07	1.07
80 Parathyroid (4)*	0.02 *	0.02			0.02 *	0.02	*	*	*	*	*	*	*	*	1.07	1.07
81 Pineal*	0.03 *	0.03			0.03 *	0.03									1.09	1.09
*82 Pituitary*	0.22 *	0.25	0.02 *	0.03	0.2 *	0.22	0.15 *	0.17	0 *	0	0.04 *	0.03	0.02 *	0.02	..	..
83 Prostate*	1 *	*			1 *	*	0.9 *	*	0.03 *	*	0.02 *	*	0.26 *	*	1.07	1.07
83a Contents*							*	*	*	*	*	*	*	*		
84 Salivary glands (6)*	16 *	16	1.1 *	1.1	15 *	15	11 *	11	*	*	*	*	*	*	1.07	1.07
85 Parotid (2)	9	9	0.77	0.76	8.2	8.2									1.07	1.07
86 Submaxillary (2)	5	5	0.44	0.43	4.5	4.5									1.07	1.07
87 Sublingual (2)	2	2	0.13	0.13	1.9	1.8									1.07	1.07
*88 Skeleton*	1300 *	1300	39 *	38	1300 *	1300	440 *	440	460 *	460	88 *	87	310 *	310	1.43	1.43
*89 Bone	850	840	30	30	820	810	150	150	450	450	8.5	8.4	230	230	2.24	2.24
90 Cortical	670	660			670	660									1.88	1.88
91 Trabecular	180	180			180	180	76	75	1.1	1.1	76	75	38	38	1.10	1.10
92 Red marrow	190	190	8.6	8.5	180	180									1.05	1.05
93 Yellow marrow																
94 Cartilage	170	170			170	170	130	130	7	6.9	2.1	2.1	26	26	1.12	1.12
95 Perarticular tissue (skeletal)	130	130			130	130	84	83	5.4	5.3	1.6	1.6	20	20	1.12	1.12
96 Skin*	450 *	440	8.8 *	8.6	440 *	430	280 *	280	3.2 *	3.1	36 *	35	130 *	130	1.12	1.12
97 Epidermis	20	20			20	20	15 *	13	0.2 *	0.2	1.7 *	1.7	2.2 *	1.8	1.08	1.08
98 Dermis	430	420			430	420									1.17	1.17
*99 Hypodermis (see adipose tissue)	740	720			740	720									1.14	1.14
100 Spleen*	36 *	33	17 *	16	18 *	16									0.99	0.99
101 Teeth (32)*	8.3 *	8.1			8.3 *	8.1	0.85 *	0.79	6.2 *	6.1			0.17 *	0.13	2.14	2.14
102 Enamel	2	2			2	2	0.06	0.06	1.9	1.9			0.02	0.02	..	..
103 Dentin	6	5.9			6	5.9	0.65	0.65	4.2	4.2			0.03	0.03	..	..
104 Pulp	0.3	0.2			0.3	0.2	0.14	0.09	0.02	0.01	0	0	0.12	0.08	..	..
105 Testes (2)*	2.6 *		0.2 *		2.4 *		1.9 *		0.03 *		0.3 *		0.2 *		1.06	1.06

Table 24. (continued).

1 Organ, tissue, or component	2 Weight in situ (g)		3 Total blood (ml)		4 Organs without Free Blood (g)		5 Water (g)		6 Mineral (g)		7 Lipid (g)		8 Protein (g)		9 Specific gravity	
	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF
*106 Thymus*	27 *	28	6 *	6.1	21 *	21	16 *	16	0.1 *	0.1	2.8 *	3.1	2 *	1.8	1.05	1.05
*107 Thyroid*	2.3 *	2.4	0.3 *	0.3	2 *	2.1	1.6 *	1.6	0.03 *	0.03	0.2 *	0.3	0.2 *	0.2	1.07	1.07
108 Tongue*	13 *	13	*	*	13 *	13	8.7 *	8.6	0.14 *	0.13	2.1 *	2.1	2.1 *	2.1	••	••
109 Tonsils (2 palatine)*	2 *	*	*	*	*	*	*	*	*	*	*	*	*	*	••	••
110 Trachea*	2 *	2	*	*	2 *	2	1.1 *	1.1	0.03 *	0.03	*	*	*	*	1.10	1.10
111 Ureters (2)*	3 *	3	*	*	3 *	3	2.1 *	2	*	*	*	*	*	*	••	••
112 Urethra*	2.1 *	2	*	*	2.1 *	2	1.5 *	1.4	*	*	*	*	*	*	••	••
113 Urinary bladder*	8 *	7.9	*	*	8 *	7.9	5.2 *	5.1	0.06 *	0.06	*	*	*	*	••	••
114 Contents (urine)*	19 *	19	*	*	19 *	19	18 *	18	0.2 *	0.2	*	*	1.2 *	1.1	1.04	1.04
115 Breast*	2 *	2	*	*	2 *	2	1.6 *	1.6	0.02 *	0.02	0.3 *	0.3	0.08 *	0.08	••	••
116 Ovary*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	••	••
117 Penis*	3 *	*	1 *	*	1.9 *	*	2 *	*	0.1 *	*	0.06 *	*	1 *	*	1.06	1.06
118 Uterus*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	••	••
119 Uterine tube*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	••	••
120 Vagina*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	••	••
Total body	11000	11000	830	750	10000	10000	7100	7100	600	500	1100	1000	2100	2200		
Total of asterisked quantities	11000	10000	910	850	10000	9500	6600	6500	570	560	1400	1400	1600	1600		

(Asterisked quantities make up the totality of Reference Man)

ARMF: Asian Reference Man, Male. ARMF:Asian Reference Man, female by G.Tanaka

Table 25. Physical properties, contents of blood, water, mineral, lipid and protein of all organs and tissues for Asian Reference Man male (ARMM) and female (ARMF): 5 years.

1 Organ, tissue, or component	2 Weight in situ (g)		3 Total blood (ml)		4 Organs without Free Blood (g)		5 Water (g)		6 Mineral (g)		7 Lipid (g)		8 Protein (g)		9 Specific gravity	
	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF
*1 Total body	19000	19000	1400	1400	18000	18000	12000	12000	1300	1300	2000	2000	3300	3200	1.08	1.08
1a Total soft tissue	17000	17000			17000	17000	11000	11000	1100	1100	1800	1800	2900	2800		
1b Total hard tissue	2200	2200			2200	2200										
2 Adipose tissue	1900	1900	160	100	1700	1790	390	390	5.2	4.5	1400	1400	130	120	0.94	0.94
3 Subcutaneous (hypodermis)*	1100*	1100	80*	50	1000*	1000	220*	220	3*	3	800*	800	76*	76	0.99	0.99
4 Other separable*	670*	670	50*	33	620*	640	140*	140	1.9*	1.2	480*	480	49*	31	0.94	0.94
5 Interstitial	130	130			130	130	31	31	0.3	0.3	90	90	10	10	0.94	0.94
6 Yellow marrow (skeleton)																
*7 Adrenals (2)*	5.6*	5.6	0.4*	0.4	5.2*	5.2	3.6*	3.6	0.04*	0.04	0.9*	1	0.6*	0.5	1.04	1.04
8 Aorta*	29*	28	*	*	29*	28	20*	20	0.42*	0.41	0.35*	0.35	7.7*	7.6		
9 Contents*	55*	54	52*	51			45*	44	0.55*	0.54	0.29*	0.29	10*	9.8	1.08	1.08
*10 Blood	1500	1500	1400	1400			1200	1200	1.4	1.4	9.7	1.3	270	260	1.08	1.08
11 Plasma	850	830					780	770	7.4	7.3	6.3	8.5	56	47	1.05	1.05
12 Erythrocytes	650	640					420	410	7.1	7	3.4	4.5	220	220	1.11	1.11
13 Blood vessels*	59*	58	*	*	59*	58	46*	45	0.36*	0.35			14*	13		
14 Contents (except aorta and pulmonary)*	850*	800	800*	760			680*	650	8.2*	7.8	5.7*	7.4	150*	140	1.08	1.08
*15 Body fat	2000	2000			2000	2000					2000	2000			0.94	0.94
16 Essential	230	230	230	230	230	230					230	230			0.94	0.94
17 Nonessential	1800	1800			1800	1800					1800	1800			0.94	0.94
*18 Body water	12000	12000			12000	12000	12000	12000							1.02	1.02
19 Extracellular	5000	4850			5000	4850	5000	4850							1.02	1.02
20 Intracellular	7000	6750			7000	6750	7000	6750							1.02	1.02
21 Cartilage (skeleton)	290	280			290	280	230	230	12	12	3.5	3.5	45	44	1.12	1.12
22 Connective tissue	950	930			950	930	590	590	39	39	9.5	9.3	360	350	1.22	1.22
23 Tendons and fascia	390	380			390	380	240	240	16	16	3.9	3.8	150	150	1.22	1.22
24 Peritarticular tissue	430	420			430	420	270	270	18	18	4.3	4.2	160	160	1.22	1.22
25 Other connective tissue	130	130			130	130	85	83	5.5	5.4	1.3	1.3	46	45	1.22	1.22
26 Separable connective tissue*	460*	450	*	*	460*	450	280*	270	19*	19	5.3*	5.2	160*	160	1.22	1.22
*27 Central nervous system*	1400*	1300	22*	23	1400*	1300	1100*	1100	21*	19	150*	150	110*	100		
*28 Brain	1400	1300	27	25	1370	1270	1100	1100	20	19	150	150	110	100	1.05	1.05
29 Cerebrum	1220	1150			1220	1150	930	910	18	17	130	130	93	88		
30 Cerebellum	150	120			150	120	120	120	2.3	1.8	13	13	12	12		
31 Brain stem	30	30			30	30	21	21	0.42	0.42	3.1	3.1	2.2	2.2	1.06	1.06
32 Spinal cord	20	20			20	20	15	15	0.36	0.36	2.7	2.7	2.3	2.3	1.05	1.05
33 Contents (cerebrospinal fluid)*	36*	35	*	*	36*	35	36*	35	0.23*	0.22	*	*	0.01*	0.01	1.03	1.03
*34 Eyes (2)*	14*	11	*	*	14*	11							*	*	1.05	1.05
*35 Lenses (2)	0.38	0.3			0.38	0.3	0.2	0.16	0	0	0.01	0	0.11	0.08	1.12	1.12

Table 25. (continued).

[ARM93, Main D, Main Comp]

1 Organ, tissue, or component	2 Weight in situ (g)		3 Total blood (ml)		4 Organs without Free Blood (g)		5 Water (g)		6 Mineral (g)		7 Lipid (g)		8 Protein (g)		9 Specific gravity	
	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM
36 Gall bladder*	3*	2.9	*	*	3*	2.9	3*	2.9	0.02*	0.02	*	*	*	*	*	*
37 Contents (bile)*	16*	16	*	*	16*	16	15*	15	0.16*	0.16	0.29*	0.28	0.08*	0.08	1.05	1.05
38 GI tract*	360*	350	*	*	360*	350	280*	270	2.8*	2.8	2.2*	2.1	4.2*	4.1	1.06	1.06
39 Contents (food plus digestive fluids)*	310*	310	*	*	310*	310	280*	270	*	*	*	*	*	*	*	*
40 Esophagus	13	13			13	13	9.8	9.6	0.12	0.11					1.06	1.06
41 Stomach	47	46	2	2	45	44	34	33	0.37	0.36	2.9	2.9	6.4	6.3	1.07	1.07
42 Contents	80	80			80	80										
43 Intestine	300	290			300	290	230	230	2.3	2.3	19	18	36	35	1.06	1.06
44 Contents	230	230			230	230										
45 Small intestine	190	190			190	190	150	140	1.5	1.5	12	12	24	24	1.06	1.06
46 Contents	110	110			110	110										
47 Duodenum	15	15			15	15	12	11	0.12	0.12	0.93	0.91	2	1.9	1.07	1.07
48 Jejunum	85	83			85	83	65	64	0.65	0.64	5.2	5.1	11	11	1.06	1.06
49 Ileum	90	88			90	88	71	69	0.71	0.69	5.8	5.7	12	11	1.06	1.06
50 Large intestine	110	110			110	110	87	85	0.84	0.82	6.7	6.5	11	11	1.06	1.06
51 Contents	120	120			120	120										
52 Upper large intestine	60	58			60	58	47	46	0.48	0.47	3.7	3.7	8	7.8	1.06	1.06
53 Contents	70	69			70	69										
54 Ascending colon and cecum	27	26			27	26	21	21	0.22	0.21	1.7	1.7	3.7	3.6	1.06	1.06
55 Transverse colon	33	32			33	32	26	26	0.26	0.26	2	2	4.3	4.2	1.06	1.06
56 Lower large intestine	49	48			49	48	40	39	0.36	0.35	2.9	2.9	3.5	3.4	1.06	1.06
57 Contents	50	49			50	49										
58 Descending colon	27	26			27	26	21	21	0.22	0.21	1.8	1.8	1.1	1.1	1.06	1.06
59 Sigmoid colon	16	16			16	16	13	13	0.13	0.13	0.99	0.97	2.1	2	1.06	1.06
60 Rectum	6	6			6	6	5.5	5.5	0.02	0.02	0.12	0.12	0.26	0.25	1.06	1.06
61 Hair*	5*	4.9	*	*	5*	4.9	0.42*	0.41	0.03*	0.03	0.12*	0.12	4.4*	4.3	1.32	1.32
*62 Heart*	100*	100	24*	24	76*	77	59*	59	1.2*	1.2	8.3*	9.1	9.7*	8.9	1.05	1.05
63 Contents (av.)*	130*	130	120*	120	*	*	100*	100	1.3*	1.3	0.85*	1.2	2.4*	2.3	1.08	1.08
*64 Kidneys (2)*	120*	100	18*	16	99*	88	73*	65	1.3*	1.2	12*	12	1.4*	1.1	1.07	1.07
65 Larynx*	9*	8.8	*	*	9*	8.8	6*	5.9	0.27*	0.26	*	*	*	*	1.10	1.10
*66 Liver*	630*	600	70*	67	550*	530	410*	400	8.1*	7.7	67*	71	69*	60	1.07	1.07
*67 Lung*	320*	310	200*	170	110*	130	250*	250	3.3*	3.2	2.9*	3.3	57*	56	deflated   inflated	0.26 0.26
68 Parenchyma (includes bronchial tree plus capillary blood)	130	130	22	22	110	100	99	97	1.4	1.4	1.6	1.6	23	22	1.02	1.02
*69 Blood (arterial and venous)	190	190	180	180			150	150	1.8	1.8	1.3	1.7	34	33	1.08	1.08
70 Bronchial tree	8.5	8.3			8.5	8.3										

Table 25. (continued).

[ARM93, Main D, Main Comp]

1 Organ, tissue, or component	2 Weight in situ (g)		3 Total blood (ml)		4 Organs without Free Blood (g)		5 Water (g)		6 Mineral (g)		7 Lipid (g)		8 Protein (g)		9 Specific gravity	
	ARM	ARMF	ARM	ARMF	ARM	ARMF	ARM	ARMF	ARM	ARMF	ARM	ARMF	ARM	ARMF	ARM	ARMF
71 Lymphocytes	420	410			420	410										
72 Lymphatic tissue	200	200			200	200										
73 Lymph nodes (dissectible)*	72*	71	1*	1	71*	70	*	*	*	*	*	*	*	*	*	*
74 Miscellaneous*	700*	590			700*	590	*	*	*	*	*	*	*	*	*	*
75 Solid soft tissue	600	500			600	500										
76 Fluid (synovial, pleural, etc.)	100	88			100	88										
*77 Muscle (skeletal)*	9300*	9200	120*	120	9200*	9100	5100*	5000	77*	76	120*	120	1100*	1100	1.06	1.06
78 Nails (20)*	0.98*	0.96			0.98*	0.96	0.065*	0.064							1.32	1.32
79 Pancreas*	44*	40	5.3*	4.7	39*	35	29*	26	1*	0.9	5*	4.9	4.3*	3.4	1.07	1.07
80 Parathyroid (4)*	0.11*	0.14			0.11*	0.14									1.07	1.07
81 Pineal*	0.17*	0.14			0.17*	0.14									1.09	1.09
*82 Pituitary*	0.29*	0.3	0.03*	0.03	0.26*	0.27	0.2*	0.2	*		0.04*	0.04	0.02*	0.02	1.07	1.07
83 Prostate*	1*				1*		*	*	*	*	*	*	*	*		
83a Contents*	0.34*				0.34*		*	*	*	*	*	*	*	*		
84 Salivary glands (6)*	27*	26	2.5*	2.5	24*	24	20*	20	*		*	*	*	*	1.07	1.07
85 Parotid (2)	16	16	1.7	1.7	14	14									1.07	1.07
86 Submaxillary (2)	8	7.8	0.9	0.9	7	6.9									1.07	1.07
87 Sublingual (2)	3	2.9	0.25	0.25	2.7	2.7									1.07	1.07
*88 Skeleton*	2200*	2200	50*	50	2200*	2100	740*	740	780*	770	140*	140	500*	480	1.43	1.43
*89 Bone	1400	1400	35	35	1400	1300	240	240	760	750	12	12	350	340	2.24	2.24
90 Cortical	1100	1100			1100	1100	170	170	610	600	9.2	9	280	270	1.88	1.88
91 Trabecular	300	290			300	290	70	69	150	150	3	2.9	73	72	1.10	1.10
92 Red marrow	310	300	15	15	290	290	120	120	1.8	1.8	120	120	62	61	1.05	1.05
93 Yellow marrow																
94 Cartilage	290	280			290	280	230	230	12	12	3.5	3.5	45	44	1.12	1.12
95 Periaricular tissue (skeletal)	240	240			240	240	150	150	9.9	9.7	3	2.9	38	37	1.12	1.12
96 Skin*	780*	770	18*	18	760*	750	490*	480	5.5*	5.4	62*	61	230*	230	1.12	1.12
97 Epidermis	33	32			33	32									1.17	1.17
98 Dermis	750	740			750	740									1.14	1.14
*99 Hypodermis (see adipose tissue)	1100	1100			1100	1100									0.99	0.99
100 Spleen*	59*	58	29*	28	29*	29	23*	23	0.5*	0.5	1.9*	2	5.3*	5.1	1.08	1.08
101 Teeth (32)*	43*	34	*	*	43*	34	1.5*	1.3	11*	8.3	*	*	0.28*	0.26	2.14	2.14
102 Enamel	9	6			9	6	0.084	0.056	2.9	1.9			0.04	0.02		
103 Dentin	33	27			33	27	1.2	0.98	7.8	6.4			0.05	0.04		
104 Pulp	1	1			1	1	0.23	0.23	0.03	0.03	0	0	0.2	0.2		
105 Testes (2)*	3.1*		0.2*		2.9*		2.2*		0.1*		0.3*		0.3*		1.06	1.06

Table 25. (continued).

1 Organ, tissue, or component	2 Weight in situ (g)		3 Total blood (ml)		4 Organs without Free Blood (g)		5 Water (g)		6 Mineral (g)		7 Lipid (g)		8 Protein (g)		9 Specific gravity	
	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF
*106 Thymus*	35 *	31	7.6 *	6.8	27 *	24	18 *	16	0.2 *	0.2	5.8 *	5.7	2.9 *	2	1.05	1.05
*107 Thyroid*	4.5 *	4.6	0.6 *	0.6	3.9 *	4	2.8 *	2.9	0.1 *	0.1	0.5 *	0.5	0.5 *	0.5	1.07	1.07
108 Tongue*	64 *	50	*	*	64 *	50	15 *	15	0.23 *	0.18	3.6 *	2.8	3.6 *	2.8		
109 Tonsils (2 palatine)*	1 *	0.98	*	*	1 *	0.98	0.75 *	0.74	*	*	*	*	*	*		
110 Trachea*	3.2 *	2.9	*	*	3.2 *	2.9	1.7 *	1.5	0.05 *	0.04	*	*	*	*	1.10	1.10
111 Ureters (2)*	5.1 *	4.9	*	*	5.1 *	4.9	3.4 *	3.3	*	*	*	*	*	*		
112 Urethra*	3.3 *	2.9	*	*	3.3 *	2.9	2.3 *	2	*	*	*	*	*	*		
113 Urinary bladder*	13 *	13	*	*	13 *	13	8.5 *	8.3	0.1 *	0.1	*	*	*	*		
114 Contents (urine)*	33 *	32	*	*	33 *	32	31 *	30	0.36 *	0.35	*	*	2 *	2	1.04	1.04
115 Breast*	3 *	3	*	*	3 *	3	2.4 *	2.4	0.03 *	0.03	0.45 *	0.45	0.12 *	0.12		
116 Ovary*	*	0.5	*	*	*	0.5	*	*	*	*	*	*	*	*		
117 Penis*	4 *	*	2 *	*	1.9 *	*	2 *	*	0.1 *	*	0.1 *	*	1.8 *	*	1.06	1.06
118 Uterus*	*	5.9	*	*	*	5.9	*	3	*	0.15	*	0.15	*	2.7		
119 Uterine tube*	*	0.84	*	*	*	0.84	*	0.42	*	0.02	*	0.02	*	0.38		
120 Vagina*	*	2.1	*	*	*	2.1	*	1.1	*	0.05	*	0.05	*	0.95		
Total body	19000	19000	1400	1400	18000	18000	12000	12000	1300	1300	2000	2000	3300	3200		
Total of asterisked quantities	20000	20000	1700	1500	18000	18000	11000	11000	950	930	1900	1900	2700	2600		

(Asterisked quantities make up the totality of Reference Man)

ARMF: Asian Reference Man, Male. ARMF:Asian Reference Man, female by G,Tanaka

Table 26. Physical properties, contents of blood, water, mineral, lipid and protein of all organs and tissues for Asian Reference Man male (ARMM) and female (ARMF): 10 years.

1 Organ, tissue, or component	2 Weight in situ (g)		3 Total blood (ml)		4 Organs without Free Blood (g)		5 Water (g)		6 Mineral (g)		7 Lipid (g)		8 Protein (g)		9 Specific gravity	
	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF
*1 Total body	30000	31000	2400	2500	27000	28000	19000	19000	2200	2200	4500	4700	4300	4300	1.06	1.06
1a Total soft tissue	25400	26600			25000	27000	16000	17000	1900	1900	3800	4000	3700	3700	..	..
1b Total hard tissue	4600	4400			4600	4400										
2 Adipose tissue	4800	5100	89	91	4700	5000	1300	1300	16	17	3300	3600	300	300	0.92	0.92
3 Subcutaneous (hypodermis)*	2400	2700	45	46	2400	2700	650	700	8.5	8.8	1600	1900	160	170	0.97	0.97
4 Other separable*	1500	1800	35	37	1500	1800	400	420	5.4	5.6	1100	1300	90	100	0.92	0.92
5 Interstitial	300	200			300	200	70	50	1.3	1.4	200	130	25	15	0.92	0.92
6 Yellow marrow (skeleton)	600	400	6	6.2	590	390	140	100	1.2	1	450	300	24	15	0.98	0.98
*7 Adrenals (2)*	8.1	8.1	0.6	0.6	7.5	7.5	5	5	0.06	0.06	1.5	1.7	1	1	1.02	1.02
8 Aorta*	48	49			48	49	35	36	0.8	0.82	0.59	0.6	12	12	..	..
9 Contents*	90	93	85	88			75	78	1	1	0.48	0.49	13	14	1.06	1.06
*10 Blood	2400	2500	2300	2400			1900	2000	23	24	16	23	440	480	1.06	1.06
11 Plasma	1400	1400					1300	1300	13	14	10	15	110	130	1.03	1.03
12 Erythrocytes	1000	1100					660	720	10	10	5.2	7.7	330	350	1.09	1.09
13 Blood vessels*	96	100			96	100	75	78	0.59	0.61			22	23	..	..
14 Contents (except aorta and pulmonary)*	1300	1300	1200	1300			1000	1100	12	13	8.7	12	240	240	1.06	1.06
*15 Body fat	4500	4700			4500	4700					4500	4700			0.92	0.92
16 Essential	570	480			570	480					570	480			0.92	0.92
17 Nonessential	3900	4200			3900	4200					3900	4200			0.92	0.92
*18 Body water	19000	19000			19000	19000									1.00	1.00
19 Extracellular	8300	8430			8300	8430									1.00	1.00
20 Intracellular	11000	11000			11000	11000									1.00	1.00
21 Cartilage (skeleton)	480	360			480	360	380	280	26	20	5.9	4.4	75	70	1.10	1.10
22 Connective tissue	1500	1100			1500	1100	920	640	79	60	15	11	490	430	1.20	1.20
23 Tendons and fascia	620	470			620	470	380	250	33	25	6.2	4.7	200	190	1.20	1.20
24 Periticular tissue	680	520			680	520	400	290	35	27	6.8	5.2	240	200	1.20	1.20
25 Other connective tissue	200	150			200	150	140	100	11	8.3	2	1.5	50	40	1.20	1.20
26 Separable connective tissue*	750	770			750	770	470	490	41	42	8.6	8.8	230	230	1.20	1.20
*27 Central nervous system*	1500	1300	22	23	1500	1300	1200	920	29	30	160	120	120	120	..	..
*28 Brain	1470	1320	26	25	1440	1290	1100	900	29	30	160	120	110	120	1.03	1.03
29 Cerebrum	1280	1130			1280	1130	970	720	25	26	140	100	97	100	..	..
30 Cerebellum	160	160			160	160	150	150	3.2	3.3	14	14	13	13	..	..
31 Brain stem	25	25			25	25	22	22	0.5	0.5	3.2	3.2	2.3	2.3	1.04	1.04
32 Spinal cord	30	30			30	30	24	24	0.5	0.5	3	3	2.6	2.6	1.03	1.03
33 Contents (cerebrospinal fluid)*	59	60			59	60	65	66	0.5	0.51			0.02	0.02	1.01	1.01
*34 Eyes (2)*	15	11			15	11									1.03	1.03
*35 Lenses (2)	0.4	0.3			0.4	0.3	0.2	0.2	0	0	0.01	0.01	0.11	0.09	1.10	1.10

Table 26. (continued).

[ARM93, Main D, Main Comp]

1 Organ, tissue, or component	2 Weight in situ (g)		3 Total blood (ml)		4 Organs without Free Blood (g)		5 Water (g)		6 Mineral (g)		7 Lipid (g)		8 Protein (g)		9 Specific gravity	
	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF
36 Gall bladder*	4*	4	*	*	4*	4	4*	4	0.03*	0.03	0.49*	0.52	0.13*	0.14	1.03	1.03
37 Contents (bile)*	27*	29	*	*	27*	29	30*	32	0.4*	0.43	36*	37	71*	62	1.04	1.04
38 GI tract*	600*	610	*	*	600*	610	470*	480	6.1*	6.2					1.04	1.04
39 Contents (food plus digestive fluids)*	510*	520	*	*	510*	520									1.04	1.04
40 Esophagus	25	25			25	25	19	19	0.3	0.3					1.04	1.04
41 Stomach	75	75	2.4	2.4	73	73	54	54	0.7	0.7	4.7	4.7	10	10	1.05	1.05
42 Contents	130	130			130	130									1.04	1.04
43 Intestine	500	510			500	510	400	400	5.1	5.2	32	32	61	52	1.04	1.04
44 Contents	380	390			380	390									1.04	1.04
45 Small intestine	320	330			320	330	250	260	3	3.1	20	20	41	32	1.04	1.04
46 Contents	190	190			190	190									1.04	1.04
47 Duodenum	30	30			30	30	23	23	0.3	0.3	1.9	1.9	3.9	3.9	1.05	1.05
48 Jejunum	140	150			140	150	110	110	1.4	1.5	8.6	8.9	18	14	1.04	1.04
49 Ileum	150	150			150	150	120	120	1.3	1.3	9.6	9.6	19	14	1.04	1.04
50 Large intestine	180	180			180	180	140	150	2.1	2.1	11	12	20	20	1.04	1.04
51 Contents	190	200			190	200	78	79	1	1	6.2	6.3	13	13	1.04	1.04
52 Upper large intestine	100	100			100	100									1.04	1.04
53 Contents	120	130			120	130									1.04	1.04
54 Ascending colon and cecum	45	46			45	46	35	36	0.5	0.51	2.8	2.9	6.2	6.3	1.04	1.04
55 Transverse colon	55	55			55	55	43	43	0.5	0.5	3.4	3.4	7.2	7.2	1.04	1.04
56 Lower large intestine	80	83			80	83	64	66	1.1	1.1	5.2	5.4	6.6	6.9	1.04	1.04
57 Contents	70	70			70	70									1.04	1.04
58 Descending colon	43	45			43	45	34	36	0.5	0.52	2.9	3	1.8	1.9	1.04	1.04
59 Sigmoid colon	27	28			27	28	22	23	0.4	0.41	1.7	1.7	3.5	3.6	1.04	1.04
60 Rectum	10	10			10	10	8	8	0.2	0.2	0.6	0.6	1.3	1.3	1.04	1.04
61 Hair*	13*	39	*	*	13*	39	1.1*	3.3	0.2*	0.6	0.31*	0.94	1.1*	33	1.30	1.30
*62 Heart*	180*	180	42*	43	130*	130	98*	100	2.2*	2.2	1.3*	1.5	2.1*	20	1.03	1.03
63 Contents (av.)*	210*	220	200*	210			170*	180	2*	2.1	1.5*	1.9	38*	39	1.06	1.06
*64 Kidneys (2)*	180*	170	28*	25	160*	140	110*	100	2.1*	1.9	19*	19	23*	20	1.05	1.05
65 Larynx*	14*	15	*	*	14*	15	9*	9.6	0.42*	0.45					1.08	1.08
*66 Liver*	1000*	970	110*	110	890*	860	630*	620	14*	14	110*	110	140*	140	1.05	1.05
*67 Lung*	520*	540	330*	290	170*	240	410*	380	5.3*	5.5	4.7*	5.7	93*	85	1.05	1.05
															deflated	0.26
															inflated	0.26
68 Parenchyma (includes bronchial tree plus capillary blood)	210	220	30	31	180	190	160	120	2.3	2.4	2.6	2.7	37	28	1.00	1.00
*69 Blood (arterial and venous)	310	320	290	300			250	260	3	3.1	2.1	2.9	56	57	1.06	1.06
70 Bronchial tree	14	15			14	15									1.06	1.06



Table 26. (continued).

[ARM93, Main D, Main Comp]

1 Organ, tissue, or component	2 Weight in situ (g)		3 Total blood (ml)		4 Organs without Free Blood (g)		5 Water (g)		6 Mineral (g)		7 Lipid (g)		8 Protein (g)		9 Specific gravity	
	ARM	MF	ARM	MF	ARM	MF	ARM	MF	ARM	MF	ARM	MF	ARM	MF	ARM	MF
71 Lymphocytes	690	700			690	700									••	••
72 Lymphatic tissue	320	330			320	330									••	••
73 Lymph nodes (dissectible)*	120*	130	1.6*	1.7	120*	120	*		*		*		*		••	••
74 Miscellaneous*	840*	1300			840*	1300	*		*		*		*		••	••
75 Solid soft tissue	690	1200			690	1200									••	••
76 Fluid (synovial, pleural, etc.)	150	110			150	110									••	••
*77 Muscle (skeletal)*	12000*	12000	150*	150	12000*	12000	8500*	8500	120*	120	150*	140	1700*	1700	1.04	1.04
78 Nails (20)*	2*	2			2*	2	0.13*	0.13							1.30	1.30
79 Pancreas*	71*	65	8.4*	7.8	62*	57	44*	40	1.5*	1.4	8.2*	8.4	8.9*	7.5	1.05	1.05
80 Parathyroid (4)*	0.12*	0.14			0.12*	0.14									1.05	1.05
81 Pineal*	0.18*	0.14			0.18*	0.14									1.07	1.07
*82 Pituitary*	0.4*	0.45	0.04*	0.05	0.36*	0.4	0.27*	0.3	0.01*	0.01	0.05*	0.07	0.03*	0.03	••	••
83 Prostate*	1.5*				1.5*										1.05	1.05
83a Contents*	0.51*				0.51*											
84 Salivary glands (6)*	44*	46	3.3*	3.3	41*	43	33*	25							1.05	1.05
85 Parotid (2)	26	26	2.2	2.2	24	24									1.05	1.05
86 Submaxillary (2)	13	15	1.1	1.3	12	14									1.05	1.05
87 Sublingual (2)	5	5	0.33	0.33	4.7	4.7									1.05	1.05
*88 Skeleton*	4600*	4400	100*	100	4500*	4300	1500*	1100	1800*	1800	760*	540	900*	730	1.40	1.40
*89 Bone	2400	2500	70	73	2300	2400	410	300	1800	1700	21	22	600	470	2.20	2.20
90 Cortical	1900	2000			1900	2000	290	210	1500	1400	16	17	480	350	1.85	1.85
91 Trabecular	500	520			500	520	120	90	330	330	5	5.2	120	120	1.08	1.08
92 Red marrow	700	720	32	32	670	690	280	210	5	5.1	280	210	140	110	1.03	1.03
93 Yellow marrow	600	400	6.9	7.2	590	390	140	100	1.2	1	450	300	24	15	0.98	0.98
94 Cartilage	480	360			480	360	380	280	26	20	5.9	4.4	75	70	1.10	1.10
95 Periarticular tissue (skeletal)	380	390			380	390	240	180	20	21	4.8	4.9	60	61	1.10	1.10
96 Skin*	1200*	1200	24*	25	1200*	1200	950*	950	11*	12	95*	100	350*	260	1.10	1.10
97 Epidermis	50	52			50	52									1.15	1.15
98 Dermis	1150	1200			1200	1200									1.12	1.12
*99 Hypodermis (see adipose tissue)	2400	2700			2400	2700									0.97	0.97
100 Spleen*	88*	87	43*	42	43*	43	33*	33	0.8*	0.8	2*	2.1	9.5*	9.2	1.06	1.06
101 Teeth (32)*	45*	34			45*	34	2.5*	2.5	19*	16			0.45*	0.45	2.10	2.10
102 Enamel	10	7			10	7	0.17	0.17	5.8	5.8			0.07	0.07	••	••
103 Dentin	34	26			34	26	2	2	13	10			0.08	0.08	••	••
104 Pulp	1	1			1	1	0.35	0.35	0.05	0.05	0.01	0.01	0.3	0.3	••	••
105 Testes (2)*	4.7*		0.4*		4.3*		3.3*		0.1*		0.5*		0.6*		1.04	1.04

Table 26. (continued).

1 Organ, tissue, or component	2 Weight in situ (g)		3 Total blood (ml)		4 Organs without Free Blood (g)		5 Water (g)		6 Mineral (g)		7 Lipid (g)		8 Protein (g)		9 Specific gravity	
	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF
*106 Thymus*	42 *	32	9.2 *	7.2	32 *	24	21 *	16	0.2 *	0.2	7.9 *	6.8	3.7 *	2.3	1.03	1.03
*107 Thyroid*	8.4 *	8.6	1.1 *	1.2	7.2 *	7.3	5.2 *	5.3	0.1 *	0.1	0.9 *	1	1.1 *	1	1.05	1.05
108 Tongue*	67 *	51	*	*	67 *	51	28 *	28	0.38 *	0.38	5.9 *	5.9	5.9 *	5.9	••	••
109 Tonsils (2 palatine)*	1 *	1	*	*	1 *	1	0.75 *	0.75	*	*	*	*	*	*	••	••
110 Trachea*	5 *	5	*	*	5 *	5	2.8 *	2.8	0.08 *	0.08	*	*	*	*	1.08	1.08
111 Ureters (2)*	8 *	8.6	*	*	8 *	8.6	5.5 *	5.9	*	*	*	*	*	*	••	••
112 Urethra*	5 *	5	*	*	5 *	5	3.8 *	3.8	*	*	*	*	*	*	••	••
113 Urinary bladder*	21 *	21	*	*	21 *	21	14 *	14	0.17 *	0.17	*	*	*	*	••	••
114 Contents (urine)*	54 *	54	*	*	54 *	54	50 *	50	0.58 *	0.58	*	*	3.3 *	3.3	1.02	1.02
115 Breast*	2.8 *	3.8	*	*	2.8 *	3.8	4 *	120	0.05 *	1.5	0.75 *	2.3	0.2 *	6		
116 Ovary*	*	1.4	*	*	*	1.4	*	*	*	*	*	*	*	*		
117 Penis*	6 *		*	*	3.9 *		3.1 *		0.2 *		0.1 *		2.6 *		1.04	1.04
118 Uterus*	*	8.9	*	*	*	8.9	*	4.6	*	0.3	*	0.15	*	3.9		
119 Uterine tube*	*	1.3	*	*	*	1.3	*	0.67	*	0.04	*	0.02	*	0.56		
120 Vagina*	*	3.2	*	*	*	3.2	*	1.7	*	0.11	*	0.05	*	1.4		
Total body	30000	31000	2400	2500	27000	28000	19000	19000	2200	2200	4500	4700	4300	4300		
Total of asterisked quantities	30000	31000	2500	2500	28000	28000	18000	18000	2200	2200	4100	4500	4200	4100		

(Asterisked quantities make up the totality of Reference Man)

ARMM: Asian Reference Man, Male. ARMF: Asian Reference Man, female by G.Tanaka

Table 27. Physical properties, contents of blood, water, mineral, lipid and protein of all organs and tissues for Asian Reference Man male (ARMM) and female (ARMF): 15 years.

1 Organ, tissue, or component	2 Weight in situ (g)		3 Total blood (ml)		4 Organs without Free Blood (g)		5 Water (g)		6 Mineral (g)		7 Lipid (g)		8 Protein (g)		9 Specific gravity	
	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF
*1 Total body	54000	49000	4100	3000	50000	46000	36000	31000	2900	2400	7500	9500	7300	6900	1.07	1.05
1a Total soft tissue	46700	43400			47000	43000	32000	25000	310	260	8700	9000	6700	5500	..	..
1b Total hard tissue	7300	5600			7300	5600										
2 Adipose tissue	9500	8850	140	105	9400	8740	1800	1600	20	15	7100	6800	470	420	0.93	0.91
3 Subcutaneous (hypodermis)*	4900*	4600	73*	66	4800*	4500	850*	800	10*	7.6	3700*	3600	240*	230	0.98	0.96
4 Other separable*	3100*	2900	55*	50	3000*	2800	600*	550	6*	4.7	2300*	2200	150*	130	0.93	0.91
5 Interstitial	500	450			500	450	100	90	1.4	1.1	360	340	35	28	0.93	0.91
6 Yellow marrow (skeleton)	1000	900	11	8.5	990	890	200	180	2.2	1.7	750	690	44	34	0.99	0.97
*7 Adrenals (2)*	11*	11	0.9*	0.8	10*	9.8	6.5*	6.1	0.1*	0.1	2.2*	2.8	1.7*	1.4	1.03	1.01
8 Aorta*	84*	63			84*	63	59*	44	1.2*	0.92	1*	1.2	20*	17	..	..
9 Contents*	160*	120	150*	120			130*	99	1.6*	1.2	0.85*	1	25*	22	1.07	1.05
*10 Blood	4300	3200	4100	3000			3400	2600	41	31	29	29	780	570	1.07	1.05
11 Plasma	2400	2000					2200	1800	21	18	18	19	160	150	1.04	1.02
12 Erythrocytes	1900	1200					1200	750	20	13	10	10	620	430	1.10	1.08
13 Blood vessels*	170*	130	*		170*	130	130*	100	1*	0.81			40*	31	..	..
14 Contents (except aorta and pulmonary)*	1900*	1500	1800*	1400			1500*	1200	18*	15	13*	14	340*	270	1.07	1.05
*15 Body fat	7500	9500			7500	9500					7500	9500			0.93	0.91
16 Essential	900	700			900	700					900	700			0.93	0.91
17 Nonessential	6600	8800			6600	8800					6600	8800			0.93	0.91
*18 Body water	36000	31000			36000	31000	36000	31000							1.01	0.99
19 Extracellular	16000	12800			16000	12800	16000	12800							1.01	0.99
20 Intracellular	20000	18200			20000	18200	20000	18200							1.01	0.99
21 Cartilage (skeleton)	840	640			840	640	650	490	34	26	10	12	130	99	1.11	1.09
22 Connective tissue	2700	2000			2700	2000	1700	1300	110	85	27	31	1000	760	1.21	1.19
23 Tendons and fascia	1100	830			1100	830	690	520	45	34	11	12	410	310	1.21	1.19
24 Periaricular tissue	1200	910			1200	910	760	580	50	38	12	14	450	340	1.21	1.19
25 Other connective tissue	400	300			400	300	260	200	17	13	4	5	140	110	1.21	1.19
26 Separable connective tissue*	1300*	1000	*		1300*	1000	870*	620	54*	41	15*	18	420*	380	1.21	1.19
*27 Central nervous system*	1500*	1400	25*	23	1500*	1300	1200*	880	22*	17	160*	170	120*	89	..	..
*28 Brain	1470	1320	28	26	1440	1290	1100	860	22	16	160	170	110	86	1.04	1.02
29 Cerebrum	1280	1130			1280	1130	980	740	19	14	140	150	98	75	..	..
30 Cerebellum	160	160			160	160	130	98	2.4	1.8	14	16	13	9.9	..	..
31 Brain stem	30	30			30	30	23	18	0.45	0.35	3.3	4	2.4	1.8	1.05	1.03
32 Spinal cord	30	30			30	30	24	20	0.4	0.33	3	3.5	2.6	2.2	1.04	1.02
33 Contents (cerebrospinal fluid)*	100*	75	*		100*	75	100*	75	0.64*	0.48	*	*	0.03*	0.02	1.02	1.00
*34 Eyes (2)*	15*	12	*		15*	12									1.04	1.02
*35 Lenses (2)	0.4	0.33			0.4	0.33	0.2	0.2	0	0	0.01	0.01	0.11	0.11	1.11	1.09

Table 27. (continued).

1 Organ, tissue, or component	2 Weight in situ (g)		3 Total blood (ml)		4 Organs without Free Blood (g)		5 Water (g)		6 Mineral (g)		7 Lipid (g)		8 Protein (g)		9 Specific gravity	
	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF
36 Gall bladder*	8 *	6.1	*	*	8 *	6.1	7.9 *	6	0.06 *	0.05	*	*	*	*	1.04	1.02
37 Contents (bile)*	47 *	36	*	*	47 *	36	45 *	34	0.47 *	0.36	0.85 *	1	0.23 *	0.17	1.04	1.02
38 GI tract*	1000 *	790	*	*	1000 *	790	770 *	600	7.9 *	6.2	50 *	55	120 *	110	1.05	1.03
39 Contents (food plus digestive fluids)*	900 *	690	*	*	900 *	690	*	*	*	*	*	*	*	*	1.05	1.03
40 Esophagus	30	28			30	28	23	17	0.27	0.2					1.05	1.03
41 Stomach	120	95	3.8	3	120	92	86	68	0.94	0.75	7.5	8	16	13	1.06	1.04
42 Contents	230	170			230	170									1.05	1.03
43 Intestine	850	660			850	660	670	520	6.7	5.2	54	61	100	80	1.05	1.03
44 Contents	670	520			670	520									1.05	1.03
45 Small intestine	540	420			540	420	420	330	4.2	3.3	34	40	69	53	1.05	1.03
46 Contents	330	260			330	260									1.05	1.03
47 Duodenum	40	30			40	30	31	23	0.32	0.24	2.5	2.9	5.2	3.9	1.06	1.04
48 Jejunum	240	190			240	190	190	150	1.8	1.5	15	18	31	24	1.05	1.03
49 Ileum	260	200			260	200	200	150	2	1.6	17	19	33	25	1.05	1.03
50 Large intestine	310	240			310	240	250	190	2.5	1.9	20	22	34	27	1.05	1.03
51 Contents	340	260			340	260									1.05	1.03
52 Upper large intestine	170	130			170	130	130	100	1.4	1	11	12	22	17	1.05	1.03
53 Contents	210	160			210	160									1.05	1.03
54 Ascending colon and cecum	75	56			75	56	59	44	0.6	0.45	4.7	5.5	10	7.5	1.05	1.03
55 Transverse colon	95	75			95	75	75	59	0.76	0.6	5.9	6	12	9.5	1.05	1.03
56 Lower large intestine	140	110			140	110	110	89	1.1	0.9	9	10	12	9.7	1.05	1.03
57 Contents	130	100			130	100									1.05	1.03
58 Descending colon	74	56			74	56	58	44	0.59	0.44	5	6	3.1	2.4	1.05	1.03
59 Sigmoid colon	47	38			47	38	38	30	0.38	0.3	2.9	2.9	6.1	4.9	1.05	1.03
60 Rectum	19	19			19	19	15	15	0.15	0.15	1.1	1.1	2.5	2.5	1.05	1.03
61 Hair*	23 *	70	*	*	23 *	70	1.9 *	5.9	0.12 *	0.36	0.55 *	1.7	20 *	61	1.31	1.29
*62 Heart*	290 *	240	69 *	57	220 *	180	160 *	130	2.9 *	2.4	21 *	24	35 *	32	1.04	1.02
63 Contents (av.)*	380 *	290	360 *	270	*	*	310 *	230	3.6 *	3.7	1.9 *	3.5	69 *	52	1.07	1.05
*64 Kidneys (2)*	250 *	230	38 *	34	210 *	190	150 *	140	2.4 *	2.2	23 *	26	35 *	31	1.06	1.04
65 Larynx*	25 *	20	*	*	25 *	20	17 *	13	0.75 *	0.6	*	*	*	*	1.09	1.07
*66 Liver*	1400 *	1200	150 *	140	1200 *	1100	860 *	780	17 *	15	140 *	190	190 *	170	1.06	1.04
*67 Lung*	930 *	710	570 *	270	330 *	430	730 *	560	9.5 *	7.3	8.7 *	9.5	170 *	130	1.06	1.04
68 Parenchyma (includes bronchial tree plus capillary blood)	430	330	77	70	350	260	330	250	4.7	3.6	5.3	6	76	58	1.01	0.99
*69 Blood (arterial and venous)	500	380	470	360			400	310	4.8	3.7	3.3	3.5	91	68	1.07	1.05
70 Bronchial tree	24	18			24	18									1.07	1.05

Table 27. (continued).

[ARM93, Main D, Main Comp]

1 Organ, tissue, or component	2 Weight in situ (g)		3 Total blood (ml)		4 Organs without Free Blood (g)		5 Water (g)		6 Mineral (g)		7 Lipid (g)		8 Protein (g)		9 Specific gravity	
	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF
71 Lymphocytes	1200	910			1200	910									••	••
72 Lymphatic tissue	540	410			540	410									••	••
73 Lymph nodes (dissectible)*	210*	160	2.9*	2.6	210*	160	*	*	*	*	*	*	*	*	••	••
74 Miscellaneous*	2500*	4400			2100*	3900	*	*	*	*	*	*	*	*	••	••
75 Solid soft tissue	2200	4180			2200	4200									••	••
76 Fluid (synovial, pleural, etc.)	300	250			300	250	230	170							••	••
*77 Muscle (skeletal)*	23000*	20000	400*	360	22000*	20000	18000*	16000	300*	250	300*	600	3500*	2900	1.05	1.03
78 Nails (20)*	3*	3			3*	3	0.2*	0.2							1.31	1.29
79 Pancreas*	100*	89	12*	11	88*	78	60*	53	1.9*	1.7	12*	13	14*	12	1.06	1.04
80 Parathyroid (4)*	0.12*	0.16			0.12*	0.16									1.06	1.04
81 Pineal*	0.18*	0.16			0.18*	0.16	*		*		*		*		1.08	1.06
*82 Pituitary*	0.53*	0.61	0.06*	0.07	0.47*	0.54	0.35*	0.4	0.01*	0.01	0.08*	0.1	0.04*	0.04	••	••
83 Prostate*	11*				11*		*		*		*		*		1.06	1.04
83a Contents*	3.6*				3.6*		*		*		*		*			
84 Salivary glands (6)*	77*	59	5.7*	5.2	71*	53	58*	45	*		*		*		1.06	1.04
85 Parotid (2)	45	35	3.8	3	41	32									1.06	1.04
86 Submaxillary (2)	23	17	2	1.5	21	15									1.06	1.04
87 Sublingual (2)	9	6.8	0.59	0.44	8.4	6.4									1.06	1.04
*88 Skeleton*	7300*	5700	200*	180	7100*	5500	2300*	1700	2300*	1800	1200*	1100	1400*	1100	1.41	1.39
*89 Bone	4000	3000	140	130	3800	2900	670	500	2200	1700	35	41	1000	750	2.22	2.18
90 Cortical	3200	2400			3200	2400	480	360	1800	1400	27	32	800	600	1.87	1.83
91 Trabecular	800	600			800	600	190	140	400	300	8	9	200	150	1.09	1.07
92 Red marrow	900	750	41	37	860	710	360	270	5.3	4	360	400	180	140	1.04	1.02
93 Yellow marrow	1000	900	13	12	990	890	200	180	2.2	1.7	750	690	44	34	0.99	0.97
94 Cartilage	840	640			840	640	650	490	34	26	10	12	130	99	1.11	1.09
95 Periaricular tissue (skeletal)	600	450			600	450	390	300	25	19	7.5	10	94	71	1.11	1.09
96 Skin*	2200*	1700	43*	39	2200*	1600	1600*	1400	16*	13	170*	190	630*	470	1.11	1.09
97 Epidermis	100	76			100	76									1.16	1.14
98 Dermis	2100	1600			2100	1600									1.13	1.11
*99 Hypodermis (see adipose tissue)	4900	4600			4900	4600									0.98	0.96
100 Spleen*	120*	110	57*	54	57*	55	43*	41	0.9*	0.9	2.1*	2.5	15*	14	1.07	1.05
101 Teeth (32)*	45*	34			45*	34	4.4*	3.4	32*	25			6.8*	6.2	2.12	2.08
102 Enamel	10	7			10	7	0.25	0.19	8.6	6.6			0.11	0.08	••	••
103 Dentin	34	26			34	26	3.5	2.7	23	18			0.14	0.11	••	••
104 Pulp	1	1			1	1	0.7	0.53	0.1	0.08	0.01	0.01	0.6	0.46	••	••
105 Testes (2)*	33*		2.5*		31*		23*		0.3*		2.9*		4.6*		1.05	1.03

Table 27. (continued).

1 Organ, tissue, or component	2 Weight in situ (g)		3 Total blood (ml)		4 Organs without Free Blood (g)		5 Water (g)		6 Mineral (g)		7 Lipid (g)		8 Protein (g)		9 Specific gravity	
	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF
*106 Thymus*	37 *	32	8.1 *	7	28 *	24	17 *	15	0.2 *	0.2	7.8 *	8.5	3.7 *	2.5	1.04	1.02
*107 Thyroid*	16 *	15	2.1 *	2	13 *	13	9.2 *	8.9	0.2 *	0.1	1.8 *	2.2	2.2 *	2	1.06	1.04
108 Tongue*	67 *	51	*	*	67 *	51	42 *	32	0.66 *	0.5	10 *	12	10 *	7.6	*	*
109 Tonsils (2 palatine)*	4 *	3	*	*	4 *	3	3 *	2.3	*	*	*	*	*	*	*	*
110 Trachea*	8 *	6	*	*	8 *	6	4.4 *	3.4	0.12 *	0.09	*	*	*	*	1.09	1.07
111 Ureters (2)*	13 *	14	*	*	13 *	14	8.9 *	9.6	*	*	*	*	*	*	*	*
112 Urethra*	8 *	5	*	*	8 *	5	6 *	3.8	*	*	*	*	*	*	*	*
113 Urinary bladder*	38 *	30	*	*	38 *	30	25 *	19	0.3 *	0.24	*	*	*	*	*	*
114 Contents (urine)*	96 *	78	*	*	96 *	78	89 *	72	1 *	0.84	*	*	5.8 *	4.7	1.03	1.01
115 Breast*	20 *	270	*	*	20 *	270	6.4 *	190	0.08 *	2.4	1.2 *	36	0.32 *	9.6	*	*
116 Ovary*	*	9.8	*	*	*	9.8	*	*	*	*	*	*	*	*	1.05	1.03
117 Penis*	42 *	*	*	*	42 *	*	30 *	*	*	*	*	*	*	*	*	*
118 Uterus*	*	63	*	*	*	63	*	*	*	*	*	*	*	*	*	*
119 Uterine tube*	*	8.9	*	*	*	8.9	*	*	*	*	*	*	*	*	*	*
120 Vagina*	*	22	*	*	*	22	*	*	*	*	*	*	*	*	*	*
Total body	54000	49000	4100	3000	50000	46000	36000	31000	2900	2400	7500	9500	7300	6900		
Total of asterisked quantities	54000	49000	4400	3600	49000	45000	31000	27000	2800	2200	8100	8300	7600	6300		

(Asterisked quantities make up the totality of Reference Man)

ARMF: Asian Reference Man, Male. ARMF:Asian Reference Man, female by G.Tanaka

Table 28. Physical properties, contents of blood, water, mineral, lipid and protein of all organs and tissues for Asian Reference Man male (ARMM) and female (ARMF): adult.

1 Organ, tissue, or component	2 Weight in situ (g)		3 Total blood (ml)		4 Organs without Free Blood (g)		5 Water (g)		6 Mineral (g)		7 Lipid (g)		8 Protein (g)		9 Specific gravity	
	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF
*1 Total body	60000	51000	4500	3600	55000	47000	37000	29000	3300	2500	10000	13000	8900	6800	1.06	1.04
1a Total soft tissue	52000	45000			52000	45000	34000	27000	340	290	9700	11000	8000	6300	..	..
1b Total hard tissue	8400	6400			8400	6400										
2 Adipose tissue	11000	13000	150	120	10800	12800	1900	1700	22	16	8600	11000	540	410	0.92	0.90
3 Subcutaneous (hypodermis)*	5500	7000	75	65	5400	6900	910	880	11	8	4300	5900	280	210	0.97	0.95
4 Other separable*	3500	4500	55	45	3400	4400	620	520	6.6	5	2700	3800	170	130	0.92	0.90
5 Interstitial	700	530			700	530	110	90	1.4	1	550	410	35	27	0.92	0.90
6 Yellow marrow (skeleton)	1300	990	20	10	1300	980	250	160	2.6	1.9	1000	790	52	40	0.98	0.96
*7 Adrenals (2)*	14	13	1.1	1	13	12	8.9	8	0.1	0.1	3	3	2.4	1.9	1.02	1.00
8 Aorta*	90	68			90	68	63	48	1.3	0.98	1.1	1.4	24	18	..	..
9 Contents*	170	130	150	120			140	110	1.7	1.3	0.9	1.1	27	18	1.06	1.04
*10 Blood	4800	3800	4500	3600			3900	3100	46	37	32	35	870	680	1.06	1.04
11 Plasma	2700	2100					2500	1900	23	19	17	21	160	130	1.03	1.01
12 Erythrocytes	2100	1700			180	140	1400	1100	23	18	15	14	710	550	1.09	1.07
13 Blood vessels*	180	140					140	110	1.1	0.86			39	29	..	..
14 Contents (except aorta and pulmonary)*	2100	1600	2000	1500	10000	13000	1700	1300	20	16	14	15	380	290	1.06	1.04
*15 Body fat	10000	13000									10000	13000			0.92	0.90
16 Essential	1200	1000			1200	1000					1200	1000			0.92	0.90
17 Nonessential	8800	12000			8800	12000					8800	12000			0.92	0.90
*18 Body water	37000	29000			37000	29000									1.00	0.98
19 Extracellular	16000	12500			16000	12500									1.00	0.98
20 Intracellular	21000	16500			21000	16500									1.00	0.98
21 Cartilage (skeleton)	900	700			900	700	700	530	37	29	11	14	140	110	1.10	1.08
22 Connective tissue	2900	2200			2900	2200	1800	1400	120	91	29	37	1100	810	1.20	1.18
23 Tendons and fascia	1200	910			1200	910	750	570	49	37	12	15	450	340	1.20	1.18
24 Periaricular tissue	1300	990			1300	990	820	620	54	41	13	17	490	370	1.20	1.18
25 Other connective tissue	400	300			400	300	260	200	17	13	4	5.1	140	100	1.20	1.18
26 Separable connective tissue*	1400	1100			1400	1100	900	720	58	46	16	20	430	320	1.20	1.18
*27 Central nervous system*	1500	1400	25	23	1470	1330	1200	870	22	16	160	200	120	87	..	..
*28 Brain	1470	1320			1470	1320	1100	850	22	16	160	200	110	85	1.03	1.01
29 Cerebrum	1280	1130			1280	1130	980	730	19	14	140	180	98	73	..	..
30 Cerebellum	160	160			160	160	130	98	2.5	1.8	14	18	13	10	..	..
31 Brain stem	30	30			30	30	23	18	0.45	0.35	3.3	4.2	2.4	1.8	1.04	1.02
32 Spinal cord	30	30			30	30	24	20	0.4	0.33	3	3.8	2.6	2.1	1.03	1.01
33 Contents (cerebrospinal fluid)*	110	83			110	83	110	83	0.7	0.53			0.03	0.02	1.01	0.99
*34 Eyes (2)*	15	12			15	12									1.03	1.01
*35 Lenses (2)	0.4	0.3			0.4	0.3	0.27	0.2	0	0	0.008	0.01	0.14	0.1	1.10	1.08

Table 28. (continued).

[ARM93, Main D, Main Comp]

1 Organ, tissue, or component	2 Weight in situ (g)		3 Total blood (ml)		4 Organs without Free Blood (g)		5 Water (g)		6 Mineral (g)		7 Lipid (g)		8 Protein (g)		9 Specific gravity	
	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF	ARMM	ARMF
36 Gall bladder*	8 *	6	*		8 *	6	7.9 *	6	0.06 *	0.05	0.9 *	1.1	0.24 *	0.18	1.03	1.01
37 Contents (bile)*	50 *	38	*		50 *	38	4.8 *	36	0.5 *	0.38	0.9 *	1.1	0.24 *	0.18	1.03	1.01
38 GI tract*	1100 *	850	*		1100 *	850	850 *	620	8.7 *	6.7	6.7 *	85	130 *	100	1.04	1.02
39 Contents (food plus digestive fluids)*	950 *	730	*		950 *	730										
40 Esophagus	40	30			40	30	30	23	0.36	0.27					1.04	1.02
41 Stomach	140	110	4.4	3.5	135	106	100	79	1.1	0.86	8.7	11	19	15	1.05	1.03
42 Contents	240	180			240	180										
43 Intestine	920	710			920	710	720	520	7.2	5.6	58	74	110	85	1.04	1.02
44 Contents	710	550			710	550										
45 Small intestine	590	450			590	450	460	340	4.6	3.5	37	47	76	57	1.04	1.02
46 Contents	350	270			350	270										
47 Duodenum	50	40			50	40	39	31	0.4	0.32	3.1	3.9	6.5	5	1.05	1.03
48 Jejunum	260	200			260	200	200	150	2	1.5	16	20	33	25	1.04	1.02
49 Ileum	280	210			280	210	220	160	2.2	1.7	18	23	36	27	1.04	1.02
50 Large intestine	330	260			330	260	260	170	2.6	2.1	21	27	37	28	1.04	1.02
51 Contents	360	280			360	280										
52 Upper large intestine	180	140			180	140	140	79	1.4	1.1	11	14	24	18	1.04	1.02
53 Contents	220	170			220	170										
54 Ascending colon and cecum	80	60			80	60	63	47	0.64	0.48	5	6.4	11	8	1.04	1.02
55 Transverse colon	100	80			100	80	79	32	0.8	0.64	6.2	7.9	13	10	1.04	1.02
56 Lower large intestine	150	120			150	120	120	95	1.2	0.96	9.7	12	13	10	1.04	1.02
57 Contents	140	110			140	110										
58 Descending colon	80	60			80	60	63	47	0.64	0.48	5.4	6.9	3.4	2.5	1.04	1.02
59 Sigmoid colon	50	40			50	40	40	32	0.4	0.32	3.1	3.9	6.5	5.2	1.04	1.02
60 Rectum	20	20			20	20	16	16	0.16	0.16	1.2	1.5	2.6	2.6	1.04	1.02
61 Hair*	25 *	75	*		25 *	75	2.1 *	6	0.13 *	0.39	0.6 *	0.76	22 *	66	1.30	1.28
*62 Heart*	380 *	320	89 *	76	290 *	240	200 *	170	3.4 *	2.9	26 *	24	54 *	44	1.03	1.01
63 Contents (av.)*	400 *	300	380 *	290			320 *	240	3.8 *	3.9	2 *	3.7	73 *	54	1.06	1.04
*64 Kidneys (2)*	320 *	280	49 *	42	270 *	240	190 *	170	2.8 *	2.4	30 *	29	51 *	42	1.05	1.03
65 Larynx*	27 *	20			27 *	20	18 *	13	0.81 *	0.6					1.08	1.06
*66 Liver*	1600 *	1400	180 *	150	1400 *	1200	980 *	840	18 *	15	160 *	150	260 *	210	1.05	1.05
*67 Lung*	1200 *	910	710 *	540	450 *	340	940 *	720	12 *	9.3	11 *	13	210 *	160	deflated	0.26
															inflated	0.26
68 Parenchyma (includes bronchial tree plus capillary blood)	500	380	90	68	400	310	380	290	5.5	4.1	6.2	7.9	88	67	1.00	0.98
*69 Blood (arterial and venous)	700	530	660	500			560	430	6.7	5.2	4.7	4.9	130	95	1.06	1.04
70 Bronchial tree	26	20			26	20									*	*



Table 28. (continued).

1 Organ, tissue, or component	2 Weight in situ (g)		3 Total blood (ml)		4 Organs without Free Blood (g)		5 Water (g)		6 Mineral (g)		7 Lipid (g)		8 Protein (g)		9 Specific gravity	
	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF
71 Lymphocytes	1300	990			1300	990									..	..
72 Lymphatic tissue	600	450			600	450									..	..
73 Lymph nodes (dissectible)*	220*	170	3*	2.2	217*	168									..	..
74 Miscellaneous*	2500*	790			2500*	790									..	..
75 Solid soft tissue	2100	540			2100	540									..	..
76 Fluid (synovial, pleural, etc.)	400	250			400	250									..	..
*77 Muscle (skeletal)*	25000*	20000	410*	360	25000*	20000	20000*	15000	280*	280	420*	620	4300*	3800	1.04	1.02
78 Nails (20)*	3*	2.3			3*	2.3	0.2*	0.15							1.30	1.28
79 Pancreas*	130*	110	16*	13	110*	96	80*	67	2.4*	2	17*	15	19*	15	1.05	1.03
80 Parathyroid (4)*	0.12*	0.14			0.12*	0.14									1.05	1.03
81 Pineal*	0.18*	0.14			0.18*	0.14									1.07	1.05
*82 Pituitary*	0.6*	0.64	0.06*	0.07	0.54*	0.57	0.37*	0.41	0.01*	0.01	0.09*	0.11	0.05*	0.04	..	..
83 Prostate*	12*				12*		9.4*		0.2*		0.15*		1.7*		1.05	1.03
83a Contents*	4*				4*		2.7*						0.15*			
84 Salivary glands (6)*	82*	62	6.1*	5	76*	56	62*	47							1.05	1.03
85 Parotid (2)	48	36	4.1	3.5	44	32									1.05	1.03
86 Submaxillary (2)	24	18	2.1	1.8	22	16									1.05	1.03
87 Sublingual (2)	10	7.6	0.65	0.6	9.3	7									1.05	1.03
*88 Skeleton*	8400*	6400	210*	180	8200*	6200	2700*	2000	2500*	1900	1500*	1200	1800*	1300	1.40	1.37
*89 Bone	4500	3400	160	140	4300	3300	810	610	2500	1800	40	52	1200	900	2.20	2.16
90 Cortical	3600	2700			3600	2700	590	440	2000	1500	30	40	980	720	1.85	1.82
91 Trabecular	900	700			900	700	220	170	450	340	10	12	220	180	1.08	1.06
92 Red marrow	1000	780	45	34	950	740	400	280	5.9	4	400	380	200	120	1.03	1.01
93 Yellow marrow	1300	990	15	11	1300	980	250	160	2.6	1.9	1000	790	52	40	0.98	0.96
94 Cartilage	900	700			900	700	700	530	37	29	11	14	140	110	1.10	1.08
95 Periaricular tissue (skeletal)	700	530			700	530	500	380	33	28	8.8	11	160	110	1.10	1.08
96 Skin*	2400*	1800	47*	40	2400*	1700									1.10	1.08
97 Epidermis	100	76			100	76									1.15	1.13
98 Dermis	2300	1700			2300	1700									1.12	1.10
*99 Hypodermis (see adipose tissue)	5500	7000			5500	7000									0.97	0.95
100 Spleen*	140*	120	65*	60	66*	61	49*	45	1*	0.9	2.2*	2.3	17*	16	1.06	1.04
101 Teeth (32)*	45*	34			45*	34	4.7*	3.5	34*	25			0.87*	0.66	2.10	2.06
102 Enamel	10	7.3			10	7.3	0.28	0.2	9.6	7.3			0.12	0.09	..	..
103 Dentin	34	26			34	26	3.7	2.8	24	18			0.15	0.11	..	..
104 Pulp	1	0.7			1	0.7	0.7	0.5	0.1	0.08	0.01	0.01	0.6	0.46	..	..
105 Testes (2)*	37*		2.8*		34*		25*		0.4*		3.2*		5.5*		1.04	

Table 28. (continued).

1 Organ, tissue, or component	2 Weight in situ (g)		3 Total blood (ml)		4 Organs without Free Blood (g)		5 Water (g)		6 Mineral (g)		7 Lipid (g)		8 Protein (g)		9 Specific gravity	
	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF	ARMF
*106 Thymus*	30 *	29	6.6 *	6.3	23 *	22	13 *	12	0.1 *	0.1	6.4 *	6.7	3.8 *	3	1.03	1.01
*107 Thyroid*	19 *	17	2.6 *	2.3	16 *	15	11 *	10	0.2 *	0.2	2.2 *	2.2	2.8 *	2.3	1.05	1.03
108 Tongue*	67 *	51			67 *	51	45 *	34	0.7 *	0.53	11 *	14	11 *	8.4	..	..
109 Tonsils (2 palatine)*	4 *	3			4 *	3	3 *	2.3							..	..
110 Trachea*	9 *	6.8			9 *	6.8	5 *	3.8	0.14 *	0.11					1.08	1.06
111 Ureters (2)*	14 *	15			14 *	15	9.6 *	10							..	..
112 Urethra*	9 *	6			9 *	6	6.8 *	4							..	..
113 Urinary bladder*	40 *	30			40 *	30	26 *	19	0.32 *	0.24					..	..
114 Contents (urine)*	100 *	85			100 *	85	93 *	79	1.1 *	0.94			6.2 *	5.3	1.02	1.00
115 Breast*	22 *	300			22 *	300	15 *	200	0.1 *	3	3 *	50	4 *	4.7	1.02	1.02
116 Ovary*		11				11										
117 Penis*	47 *		15 *		31 *		38 *		0.6 *		0.4 *		8 *		1.04	
118 Uterus*		70		30		38		57		0.89		0.6		12		1.04
119 Uterine tube*		10		5		4.7		8.1		0.13		0.085		1.7		1.04
120 Vagina*		25		10		14		20		0.32		0.21		4.3		1.04
Total body	60000	51000	4500	3600	55000	47000	37000	29000	3300	2500	10000	13000	8900	6800		
Total of asterisked quantities	60000	51000	4500	3600	55000	47000	36000	27000	3200	2400	9800	13000	9200	7400		

(Asterisked quantities make up the totality of Reference Man)

ARMF: Asian Reference Man, Male. ARMF:Asian Reference Man, female by G.Tanaka

**Table 29a. Regression analysis of mass of the adrenal, left against body height and weight in normal Japanese males, 0-19 years.**

**Org. wt. =  $a$  BodyWeight +  $b$**

DEP VAR: LEFT ADRENAL N: 542 MULTIPLE R: 0.888 SQUARED MULTIPLE R: 0.788  
ADJUSTED SQUARED MULTIPLE R: 0.788 STANDARD ERROR OF ESTIMATE: 0.884

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1.546	0.060	0.000	.	25.834	0.000
WEIGHT	0.080	0.002	0.888	1.000	44.847	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1573.455	1	1573.455	2011.291	0.000
RESIDUAL	422.448	540	0.782		

**Org. wt. =  $a$  BodyHeight +  $b$**

DEP VAR: LEFT ADRENAL N: 542 MULTIPLE R: 0.856 SQUARED MULTIPLE R: 0.733  
ADJUSTED SQUARED MULTIPLE R: 0.732 STANDARD ERROR OF ESTIMATE: 0.994

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-0.646	0.119	0.000	.	-5.436	0.000
HEIGHT	3.890	0.101	0.856	1.000	38.478	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1462.489	1	1462.489	1480.549	0.000
RESIDUAL	533.413	540	0.988		

**Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$**

DEP VAR: LEFT ADRENAL N: 542 MULTIPLE R: 0.879 SQUARED MULTIPLE R: 0.772  
ADJUSTED SQUARED MULTIPLE R: 0.772 STANDARD ERROR OF ESTIMATE: 0.917

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1.222	0.068	0.000	.	17.844	0.000
HEIGHT2	1.736	0.041	0.879	1.000	42.807	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1541.603	1	1541.603	1832.415	0.000
RESIDUAL	454.300	540	0.841		

**Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$**

DEP VAR: LEFT ADRENAL N: 542 MULTIPLE R: 0.885 SQUARED MULTIPLE R: 0.783  
ADJUSTED SQUARED MULTIPLE R: 0.782 STANDARD ERROR OF ESTIMATE: 0.896

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1.819	0.056	0.000	.	32.430	0.000
HEIGHT3	0.937	0.021	0.885	1.000	44.124	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1562.529	1	1562.529	1946.968	0.000
RESIDUAL	433.374	540	0.803		

**Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$**

DEP VAR: LEFT ADRENAL N: 542 MULTIPLE R: 0.888 SQUARED MULTIPLE R: 0.789  
ADJUSTED SQUARED MULTIPLE R: 0.788 STANDARD ERROR OF ESTIMATE: 0.885

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1.408	0.202	0.000	.	6.966	0.000
WEIGHT	0.076	0.006	0.839	0.079	11.926	0.000
HEIGHT	0.230	0.320	0.051	0.079	0.718	0.473

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1573.858	2	786.929	1005.000	0.000
RESIDUAL	422.044	539	0.783		

Table 29b. Regression analysis of mass of the adrenal, right against body height and weight in normal Japanese males, 0-19 years.

Org. wt. =  $a$  BodyWeight +  $b$

DEP VAR:RIGHT ADRENAL N: 539 MULTIPLE R: 0.886 SQUARED MULTIPLE R: 0.786  
ADJUSTED SQUARED MULTIPLE R: 0.785 STANDARD ERROR OF ESTIMATE: 0.870

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1.502	0.059	0.000	.	25.315	0.000
WEIGHT	0.078	0.002	0.886	1.000	44.381	0.000

ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1489.223	1	1489.223	1969.629	0.000
RESIDUAL	406.022	537	0.756		

Org. wt. =  $a$  BodyHeight +  $b$

DEP VAR:RIGHT ADRENAL N: 539 MULTIPLE R: 0.860 SQUARED MULTIPLE R: 0.740  
ADJUSTED SQUARED MULTIPLE R: 0.739 STANDARD ERROR OF ESTIMATE: 0.958

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-0.676	0.116	0.000	.	-5.844	0.000
HEIGHT	3.823	0.098	0.860	1.000	39.064	0.000

ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1401.920	1	1401.920	1526.034	0.000
RESIDUAL	493.325	537	0.919		

Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$

DEP VAR:RIGHT ADRENAL N: 539 MULTIPLE R: 0.881 SQUARED MULTIPLE R: 0.776  
ADJUSTED SQUARED MULTIPLE R: 0.776 STANDARD ERROR OF ESTIMATE: 0.889

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1.170	0.067	0.000	.	17.454	0.000
HEIGHT2	1.700	0.039	0.881	1.000	43.133	0.000

ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1470.736	1	1470.736	1860.464	0.000
RESIDUAL	424.510	537	0.791		

Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$

DEP VAR:RIGHT ADRENAL N: 539 MULTIPLE R: 0.885 SQUARED MULTIPLE R: 0.783  
ADJUSTED SQUARED MULTIPLE R: 0.783 STANDARD ERROR OF ESTIMATE: 0.875

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1.762	0.055	0.000	.	31.872	0.000
HEIGHT3	0.914	0.021	0.885	1.000	44.022	0.000

ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1484.029	1	1484.029	1937.967	0.000
RESIDUAL	411.216	537	0.766		

Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$

DEP VAR:RIGHT ADRENAL N: 539 MULTIPLE R: 0.887 SQUARED MULTIPLE R: 0.787  
ADJUSTED SQUARED MULTIPLE R: 0.786 STANDARD ERROR OF ESTIMATE: 0.868

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1.179	0.200	0.000	.	5.899	0.000
WEIGHT	0.068	0.006	0.772	0.079	10.896	0.000
HEIGHT	0.532	0.315	0.120	0.079	1.692	0.091

ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1491.379	2	745.690	989.658	0.000
RESIDUAL	403.866	536	0.753		

Table 30a. Regression analysis of mass of the brain against body height and weight in normal Japanese males, 0-19 years (all subjects).

$$\text{Org. wt.} = a \text{ BodyWeight} + b$$

DEP VAR: BRAIN N: 548 MULTIPLE R: 0.706 SQUARED MULTIPLE R: 0.498  
ADJUSTED SQUARED MULTIPLE R: 0.497 STANDARD ERROR OF ESTIMATE: 249.216

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	893.463	16.711	0.000	.	53.465	0.000
WEIGHT	11.576	0.497	0.706	1.000	23.290	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.336891E+08	1	.336891E+08	542.422	0.000
RESIDUAL	.339114E+08	546	62108.708		

$$\text{Org. wt.} = a \text{ BodyHeight} + b$$

DEP VAR: BRAIN N: 548 MULTIPLE R: 0.838 SQUARED MULTIPLE R: 0.702  
ADJUSTED SQUARED MULTIPLE R: 0.702 STANDARD ERROR OF ESTIMATE: 191.938

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	435.971	22.636	0.000	.	19.260	0.000
HEIGHT	692.678	19.293	0.838	1.000	35.902	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.474858E+08	1	.474858E+08	1288.973	0.000
RESIDUAL	.201147E+08	546	36840.035		

$$\text{Org. wt.} = a \text{ BodyHeight}^2 + b$$

DEP VAR: BRAIN N: 548 MULTIPLE R: 0.777 SQUARED MULTIPLE R: 0.604  
ADJUSTED SQUARED MULTIPLE R: 0.604 STANDARD ERROR OF ESTIMATE: 221.319

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	808.284	16.348	0.000	.	49.442	0.000
HEIGHT2	279.826	9.689	0.777	1.000	28.881	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.408561E+08	1	.408561E+08	834.100	0.000
RESIDUAL	.267443E+08	546	48982.275		

$$\text{Org. wt.} = a \text{ BodyHeight}^3 + b$$

DEP VAR: BRAIN N: 548 MULTIPLE R: 0.722 SQUARED MULTIPLE R: 0.522  
ADJUSTED SQUARED MULTIPLE R: 0.521 STANDARD ERROR OF ESTIMATE: 243.376

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	926.044	15.107	0.000	.	61.299	0.000
HEIGHT3	139.536	5.719	0.722	1.000	24.399	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.352599E+08	1	.352599E+08	595.288	0.000
RESIDUAL	.323405E+08	546	59231.738		

$$\text{Org. wt.} = a \text{ BodyHeight} + b \text{ BodyWeight} + c$$

DEP VAR: BRAIN N: 548 MULTIPLE R: 0.909 SQUARED MULTIPLE R: 0.827  
ADJUSTED SQUARED MULTIPLE R: 0.826 STANDARD ERROR OF ESTIMATE: 146.482

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-122.680	33.071	0.000	.	-3.710	0.000
WEIGHT	-20.690	1.044	-1.262	0.078	-19.810	0.000
HEIGHT	1693.850	52.640	2.050	0.078	32.178	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.559064E+08	2	.279532E+08	1302.751	0.000
RESIDUAL	.116941E+08	545	21457.042		

**Table 30b. Regression analysis of mass of the brain against body height and weight in normal Japanese males, 0-19 years (subjects showing body weight below 13 kg).**

$$\text{Org. wt.} = a \text{ BodyWeight} + b$$

DEP VAR: BRAIN N: 238 MULTIPLE R: 0.906 SQUARED MULTIPLE R: 0.820  
ADJUSTED SQUARED MULTIPLE R: 0.819 STANDARD ERROR OF ESTIMATE: 116.848

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	96.417	24.721	0.000	.	3.900	0.000
WEIGHT	98.360	3.000	0.906	1.000	32.789	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.146788E+08	1	.146788E+08	1075.091	0.000
RESIDUAL	3222242.964	236	13653.572		

$$\text{Org. wt.} = a \text{ BodyHeight} + b$$

DEP VAR: BRAIN N: 238 MULTIPLE R: 0.932 SQUARED MULTIPLE R: 0.869  
ADJUSTED SQUARED MULTIPLE R: 0.868 STANDARD ERROR OF ESTIMATE: 99.729

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-665.595	39.316	0.000	.	-16.929	0.000
HEIGHT	2260.458	57.161	0.932	1.000	39.545	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.155538E+08	1	.155538E+08	1563.846	0.000
RESIDUAL	2347230.620	236	9945.892		

$$\text{Org. wt.} = a \text{ BodyHeight}^2 + b$$

DEP VAR: BRAIN N: 238 MULTIPLE R: 0.924 SQUARED MULTIPLE R: 0.854  
ADJUSTED SQUARED MULTIPLE R: 0.853 STANDARD ERROR OF ESTIMATE: 105.289

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	87.745	22.094	0.000	.	3.971	0.000
HEIGHT2	1649.321	44.418	0.924	1.000	37.132	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.152848E+08	1	.152848E+08	1378.767	0.000
RESIDUAL	2616262.248	236	11085.857		

$$\text{Org. wt.} = a \text{ BodyHeight}^3 + b$$

DEP VAR: BRAIN N: 238 MULTIPLE R: 0.909 SQUARED MULTIPLE R: 0.827  
ADJUSTED SQUARED MULTIPLE R: 0.826 STANDARD ERROR OF ESTIMATE: 114.668

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	343.463	17.313	0.000	.	19.839	0.000
HEIGHT3	1550.669	46.223	0.909	1.000	33.548	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.147980E+08	1	.147980E+08	1125.438	0.000
RESIDUAL	3103081.652	236	13148.651		

$$\text{Org. wt.} = a \text{ BodyHeight} + b \text{ BodyWeight} + c$$

DEP VAR: BRAIN N: 238 MULTIPLE R: 0.932 SQUARED MULTIPLE R: 0.869  
ADJUSTED SQUARED MULTIPLE R: 0.868 STANDARD ERROR OF ESTIMATE: 99.840

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-618.332	78.958	0.000	.	-7.831	0.000
WEIGHT	6.948	10.062	0.064	0.065	0.690	0.491
HEIGHT	2110.461	224.646	0.870	0.065	9.395	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.155586E+08	2	7779299.398	780.428	0.000
RESIDUAL	2342478.199	235	9967.992		

**Table 30c. Regression analysis of mass of the brain against body height and weight in normal Japanese males, 0-19 years (subjects showing body weight 13 kg and higher).**

$$\text{Org. wt.} = a \text{ BodyWeight} + b$$

DEP VAR: BRAIN N: 310 MULTIPLE R: 0.377 SQUARED MULTIPLE R: 0.142  
ADJUSTED SQUARED MULTIPLE R: 0.139 STANDARD ERROR OF ESTIMATE: 119.580

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1341.997	15.729	0.000	.	85.322	0.000
WEIGHT	2.547	0.357	0.377	1.000	7.143	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	729661.246	1	729661.246	51.027	0.000
RESIDUAL	4404208.189	308	14299.377		

$$\text{Org. wt.} = a \text{ BodyHeight} + b$$

DEP VAR: BRAIN N: 310 MULTIPLE R: 0.440 SQUARED MULTIPLE R: 0.194  
ADJUSTED SQUARED MULTIPLE R: 0.191 STANDARD ERROR OF ESTIMATE: 115.910

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1152.122	34.460	0.000	.	33.433	0.000
HEIGHT	206.202	23.951	0.440	1.000	8.609	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	995837.712	1	995837.712	74.122	0.000
RESIDUAL	4138031.723	308	13435.168		

$$\text{Org. wt.} = a \text{ BodyHeight}^2 + b$$

DEP VAR: BRAIN N: 310 MULTIPLE R: 0.438 SQUARED MULTIPLE R: 0.191  
ADJUSTED SQUARED MULTIPLE R: 0.189 STANDARD ERROR OF ESTIMATE: 116.090

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1287.190	19.436	0.000	.	66.226	0.000
HEIGHT2	75.430	8.832	0.438	1.000	8.540	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	982968.062	1	982968.062	72.937	0.000
RESIDUAL	4150901.374	308	13476.953		

$$\text{Org. wt.} = a \text{ BodyHeight}^3 + b$$

DEP VAR: BRAIN N: 310 MULTIPLE R: 0.438 SQUARED MULTIPLE R: 0.191  
ADJUSTED SQUARED MULTIPLE R: 0.189 STANDARD ERROR OF ESTIMATE: 116.090

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1287.190	19.436	0.000	.	66.226	0.000
HEIGHT2	75.430	8.832	0.438	1.000	8.540	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	982968.062	1	982968.062	72.937	0.000
RESIDUAL	4150901.374	308	13476.953		

$$\text{Org. wt.} = a \text{ BodyHeight} + b \text{ BodyWeight} + c$$

DEP VAR: BRAIN N: 310 MULTIPLE R: 0.478 SQUARED MULTIPLE R: 0.228  
ADJUSTED SQUARED MULTIPLE R: 0.223 STANDARD ERROR OF ESTIMATE: 113.610

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	890.017	78.696	0.000	.	11.309	0.000
WEIGHT	-4.792	1.299	-0.709	0.068	-3.687	0.000
HEIGHT	526.790	90.053	1.125	0.068	5.850	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1171345.191	2	585672.595	45.375	0.000
RESIDUAL	3962524.245	307	12907.245		

**Table 31. Regression analysis of mass of the heart against body height and weight in normal Japanese males, 0-19 years.**

**Org. wt. =  $a$  BodyWeight +  $b$**

DEP VAR: HEART N: 543 MULTIPLE R: 0.961 SQUARED MULTIPLE R: 0.923  
ADJUSTED SQUARED MULTIPLE R: 0.923 STANDARD ERROR OF ESTIMATE: 35.205

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.615	2.380	0.000	.	0.258	0.796
WEIGHT	5.663	0.070	0.961	1.000	80.447	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	8020957.760	1	8020957.760	6471.738	0.000
RESIDUAL	670505.856	541	1239.382		

**Org. wt. =  $a$  BodyHeight +  $b$**

DEP VAR: HEART N: 543 MULTIPLE R: 0.925 SQUARED MULTIPLE R: 0.855  
ADJUSTED SQUARED MULTIPLE R: 0.855 STANDARD ERROR OF ESTIMATE: 48.294

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-153.211	5.734	0.000	.	-26.720	0.000
HEIGHT	274.903	4.871	0.925	1.000	56.441	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	7429704.616	1	7429704.616	3185.609	0.000
RESIDUAL	1261759.000	541	2332.272		

**Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$**

DEP VAR: HEART N: 543 MULTIPLE R: 0.946 SQUARED MULTIPLE R: 0.895  
ADJUSTED SQUARED MULTIPLE R: 0.895 STANDARD ERROR OF ESTIMATE: 41.011

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-21.247	3.054	0.000	.	-6.957	0.000
HEIGHT2	122.508	1.801	0.946	1.000	68.019	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	7781533.736	1	7781533.736	4626.521	0.000
RESIDUAL	909929.881	541	1681.941		

**Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$**

DEP VAR: HEART N: 543 MULTIPLE R: 0.952 SQUARED MULTIPLE R: 0.907  
ADJUSTED SQUARED MULTIPLE R: 0.907 STANDARD ERROR OF ESTIMATE: 38.672

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	20.608	2.421	0.000	.	8.514	0.000
HEIGHT3	66.164	0.911	0.952	1.000	72.599	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	7882376.043	1	7882376.043	5270.586	0.000
RESIDUAL	809087.573	541	1495.541		

**Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$**

DEP VAR: HEART N: 543 MULTIPLE R: 0.961 SQUARED MULTIPLE R: 0.923  
ADJUSTED SQUARED MULTIPLE R: 0.923 STANDARD ERROR OF ESTIMATE: 35.221

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-4.782	7.979	0.000	.	-0.599	0.549
WEIGHT	5.492	0.251	0.932	0.078	21.843	0.000
HEIGHT	8.987	12.682	0.030	0.078	0.709	0.479

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	8021580.812	2	4010790.406	3233.143	0.000
RESIDUAL	669882.805	540	1240.524		



Table 32a. Regression analysis of mass of the kidney, left against body height and weight in normal Japanese males, 0-19 years.

Org. wt. =  $a$  BodyWeight +  $b$

DEP VAR: LEFT KIDNEY N: 546 MULTIPLE R: 0.950 SQUARED MULTIPLE R: 0.903  
ADJUSTED SQUARED MULTIPLE R: 0.903 STANDARD ERROR OF ESTIMATE: 15.844

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	13.522	1.066	0.000	.	12.683	0.000
WEIGHT	2.255	0.032	0.950	1.000	71.201	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1272561.471	1	1272561.471	5069.546	0.000
RESIDUAL	136555.320	544	251.021		

Org. wt. =  $a$  BodyHeight +  $b$

DEP VAR: LEFT KIDNEY N: 546 MULTIPLE R: 0.949 SQUARED MULTIPLE R: 0.900  
ADJUSTED SQUARED MULTIPLE R: 0.900 STANDARD ERROR OF ESTIMATE: 16.092

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-51.932	1.902	0.000	.	-27.311	0.000
HEIGHT	113.291	1.619	0.949	1.000	69.981	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1268238.476	1	1268238.476	4897.288	0.000
RESIDUAL	140878.315	544	258.967		

Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$

DEP VAR: LEFT KIDNEY N: 546 MULTIPLE R: 0.956 SQUARED MULTIPLE R: 0.915  
ADJUSTED SQUARED MULTIPLE R: 0.914 STANDARD ERROR OF ESTIMATE: 14.872

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	3.416	1.102	0.000	.	3.099	0.002
HEIGHT2	49.786	0.652	0.956	1.000	76.337	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1288802.870	1	1288802.870	5827.329	0.000
RESIDUAL	120313.921	544	221.165		

Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$

DEP VAR: LEFT KIDNEY N: 546 MULTIPLE R: 0.950 SQUARED MULTIPLE R: 0.903  
ADJUSTED SQUARED MULTIPLE R: 0.903 STANDARD ERROR OF ESTIMATE: 15.873

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	21.037	0.989	0.000	.	21.273	0.000
HEIGHT3	26.567	0.374	0.950	1.000	71.055	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1272053.744	1	1272053.744	5048.751	0.000
RESIDUAL	137063.048	544	251.954		

Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$

DEP VAR: LEFT KIDNEY N: 546 MULTIPLE R: 0.959 SQUARED MULTIPLE R: 0.920  
ADJUSTED SQUARED MULTIPLE R: 0.920 STANDARD ERROR OF ESTIMATE: 14.406

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-19.707	3.247	0.000	.	-6.069	0.000
WEIGHT	1.197	0.103	0.505	0.079	11.652	0.000
HEIGHT	55.446	5.171	0.464	0.079	10.722	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1296419.240	2	648209.620	3123.207	0.000
RESIDUAL	112697.551	543	207.546		

Table 32b. Regression analysis of mass of the kidney, right against body height and weight in normal Japanese males, 0-19 years.

Org. wt. =  $a$  BodyWeight +  $b$

DEP VAR: RIGHT KIDNEY N: 548 MULTIPLE R: 0.945 SQUARED MULTIPLE R: 0.893  
ADJUSTED SQUARED MULTIPLE R: 0.893 STANDARD ERROR OF ESTIMATE: 15.882

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	13.957	1.067	0.000	.	13.085	0.000
WEIGHT	2.138	0.032	0.945	1.000	67.532	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1150351.607	1	1150351.607	4560.578	0.000
RESIDUAL	137722.000	546	252.238		

Org. wt. =  $a$  BodyHeight +  $b$

DEP VAR: RIGHT KIDNEY N: 548 MULTIPLE R: 0.948 SQUARED MULTIPLE R: 0.899  
ADJUSTED SQUARED MULTIPLE R: 0.898 STANDARD ERROR OF ESTIMATE: 15.469

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-48.626	1.823	0.000	.	-26.674	0.000
HEIGHT	107.941	1.552	0.948	1.000	69.549	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1157424.320	1	1157424.320	4837.024	0.000
RESIDUAL	130649.286	546	239.284		

Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$

DEP VAR: RIGHT KIDNEY N: 548 MULTIPLE R: 0.954 SQUARED MULTIPLE R: 0.911  
ADJUSTED SQUARED MULTIPLE R: 0.910 STANDARD ERROR OF ESTIMATE: 14.525

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	4.187	1.074	0.000	.	3.899	0.000
HEIGHT2	47.367	0.635	0.954	1.000	74.559	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1172874.706	1	1172874.706	5558.990	0.000
RESIDUAL	115198.900	546	210.987		

Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$

DEP VAR: RIGHT KIDNEY N: 548 MULTIPLE R: 0.947 SQUARED MULTIPLE R: 0.896  
ADJUSTED SQUARED MULTIPLE R: 0.896 STANDARD ERROR OF ESTIMATE: 15.630

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	20.993	0.972	0.000	.	21.602	0.000
HEIGHT3	25.249	0.367	0.947	1.000	68.752	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1154693.353	1	1154693.353	4726.806	0.000
RESIDUAL	133380.253	546	244.286		

Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$

DEP VAR: RIGHT KIDNEY N: 548 MULTIPLE R: 0.956 SQUARED MULTIPLE R: 0.914  
ADJUSTED SQUARED MULTIPLE R: 0.914 STANDARD ERROR OF ESTIMATE: 14.244

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-21.448	3.207	0.000	.	-6.688	0.000
WEIGHT	1.010	0.102	0.446	0.078	9.945	0.000
HEIGHT	59.126	5.112	0.519	0.078	11.566	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1177493.038	2	588746.519	2901.657	0.000
RESIDUAL	110580.569	545	202.900		

**Table 33. Regression analysis of mass of the liver against body height and weight in normal Japanese males, 0-19 years.**

$$\text{Org. wt.} = a \text{ BodyWeight} + b$$

DEP VAR: LIVER N: 547 MULTIPLE R: 0.953 SQUARED MULTIPLE R: 0.908  
ADJUSTED SQUARED MULTIPLE R: 0.908 STANDARD ERROR OF ESTIMATE: 155.467

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	177.424	10.409	0.000	.	17.044	0.000
WEIGHT	22.775	0.310	0.953	1.000	73.459	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.130426E+09	1	.130426E+09	5396.208	0.000
RESIDUAL	.131727E+08	545	24170.023		

$$\text{Org. wt.} = a \text{ BodyHeight} + b$$

DEP VAR: LIVER N: 547 MULTIPLE R: 0.956 SQUARED MULTIPLE R: 0.914  
ADJUSTED SQUARED MULTIPLE R: 0.914 STANDARD ERROR OF ESTIMATE: 150.456

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-487.820	17.676	0.000	.	-27.598	0.000
HEIGHT	1149.236	15.092	0.956	1.000	76.148	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.131262E+09	1	.131262E+09	5798.591	0.000
RESIDUAL	.123371E+08	545	22636.883		

$$\text{Org. wt.} = a \text{ BodyHeight}^2 + b$$

DEP VAR: LIVER N: 547 MULTIPLE R: 0.961 SQUARED MULTIPLE R: 0.923  
ADJUSTED SQUARED MULTIPLE R: 0.923 STANDARD ERROR OF ESTIMATE: 142.359

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	75.151	10.488	0.000	.	7.166	0.000
HEIGHT2	503.538	6.226	0.961	1.000	80.874	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.132554E+09	1	.132554E+09	6540.657	0.000
RESIDUAL	.110451E+08	545	20266.170		

$$\text{Org. wt.} = a \text{ BodyHeight}^3 + b$$

DEP VAR: LIVER N: 547 MULTIPLE R: 0.952 SQUARED MULTIPLE R: 0.907  
ADJUSTED SQUARED MULTIPLE R: 0.907 STANDARD ERROR OF ESTIMATE: 156.630

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	253.876	9.707	0.000	.	26.153	0.000
HEIGHT3	268.111	3.680	0.952	1.000	72.858	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.130229E+09	1	.130229E+09	5308.288	0.000
RESIDUAL	.133705E+08	545	24533.071		

$$\text{Org. wt.} = a \text{ BodyHeight} + b \text{ BodyWeight} + c$$

DEP VAR: LIVER N: 547 MULTIPLE R: 0.964 SQUARED MULTIPLE R: 0.930  
ADJUSTED SQUARED MULTIPLE R: 0.930 STANDARD ERROR OF ESTIMATE: 136.106

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-199.915	30.581	0.000	.	-6.537	0.000
WEIGHT	10.724	0.971	0.449	0.078	11.044	0.000
HEIGHT	631.321	48.840	0.525	0.078	12.926	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.133522E+09	2	.667608E+08	3603.881	0.000
RESIDUAL	.100774E+08	544	18524.708		

**Table 34a. Regression analysis of mass of the lung, left against body height and weight in normal Japanese males, 0-19 years.**

**Org. wt. =  $a$  BodyWeight +  $b$**

DEP VAR: LEFT LUNG N: 538 MULTIPLE R: 0.949 SQUARED MULTIPLE R: 0.901  
ADJUSTED SQUARED MULTIPLE R: 0.901 STANDARD ERROR OF ESTIMATE: 58.489

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	6.850	3.975	0.000	.	1.723	0.085
WEIGHT	8.211	0.117	0.949	1.000	70.005	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.167648E+08	1	.167648E+08	4900.655	0.000
RESIDUAL	1833617.319	536	3420.928		

**Org. wt. =  $a$  BodyHeight +  $b$**

DEP VAR: LEFT LUNG N: 538 MULTIPLE R: 0.920 SQUARED MULTIPLE R: 0.846  
ADJUSTED SQUARED MULTIPLE R: 0.846 STANDARD ERROR OF ESTIMATE: 73.049

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-219.644	8.721	0.000	.	-25.187	0.000
HEIGHT	401.772	7.398	0.920	1.000	54.308	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.157383E+08	1	.157383E+08	2949.399	0.000
RESIDUAL	2860144.701	536	5336.091		

**Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$**

DEP VAR: LEFT LUNG N: 538 MULTIPLE R: 0.940 SQUARED MULTIPLE R: 0.884  
ADJUSTED SQUARED MULTIPLE R: 0.883 STANDARD ERROR OF ESTIMATE: 63.550

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-26.522	4.763	0.000	.	-5.568	0.000
HEIGHT <sup>2</sup>	178.850	2.804	0.940	1.000	63.790	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.164337E+08	1	.164337E+08	4069.173	0.000
RESIDUAL	2164683.997	536	4038.590		

**Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$**

DEP VAR: LEFT LUNG N: 538 MULTIPLE R: 0.945 SQUARED MULTIPLE R: 0.893  
ADJUSTED SQUARED MULTIPLE R: 0.892 STANDARD ERROR OF ESTIMATE: 61.030

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	34.775	3.845	0.000	.	9.043	0.000
HEIGHT <sup>3</sup>	96.510	1.446	0.945	1.000	66.763	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.166020E+08	1	.166020E+08	4457.243	0.000
RESIDUAL	1996447.054	536	3724.715		

**Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$**

DEP VAR: LEFT LUNG N: 538 MULTIPLE R: 0.950 SQUARED MULTIPLE R: 0.902  
ADJUSTED SQUARED MULTIPLE R: 0.902 STANDARD ERROR OF ESTIMATE: 58.263

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-21.859	13.250	0.000	.	-1.650	0.100
WEIGHT	7.303	0.416	0.844	0.079	17.537	0.000
HEIGHT	47.750	21.032	0.109	0.079	2.270	0.024

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.167823E+08	2	8391142.373	2471.898	0.000
RESIDUAL	1816118.983	535	3394.615		

Table 34b. Regression analysis of mass of the lung, right against body height and weight in normal Japanese males, 0-19 years.

Org. wt. =  $a$  BodyWeight +  $b$

DEP VAR: RIGHT LUNG N: 512 MULTIPLE R: 0.957 SQUARED MULTIPLE R: 0.916  
ADJUSTED SQUARED MULTIPLE R: 0.916 STANDARD ERROR OF ESTIMATE: 54.691

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	17.430	3.749	0.000	.	4.649	0.000
WEIGHT	8.667	0.116	0.957	1.000	74.678	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.166809E+08	1	.166809E+08	5576.871	0.000
RESIDUAL	1525452.745	510	2991.084		

Org. wt. =  $a$  BodyHeight +  $b$

DEP VAR: RIGHT LUNG N: 512 MULTIPLE R: 0.924 SQUARED MULTIPLE R: 0.854  
ADJUSTED SQUARED MULTIPLE R: 0.854 STANDARD ERROR OF ESTIMATE: 72.173

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-216.147	8.791	0.000	.	-24.587	0.000
HEIGHT	417.853	7.648	0.924	1.000	54.637	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.155498E+08	1	.155498E+08	2985.218	0.000
RESIDUAL	2656553.887	510	5208.929		

Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$

DEP VAR: RIGHT LUNG N: 512 MULTIPLE R: 0.945 SQUARED MULTIPLE R: 0.893  
ADJUSTED SQUARED MULTIPLE R: 0.893 STANDARD ERROR OF ESTIMATE: 61.717

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-16.227	4.670	0.000	.	-3.475	0.001
HEIGHT2	187.439	2.868	0.945	1.000	65.344	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.162638E+08	1	.162638E+08	4269.871	0.000
RESIDUAL	1942569.944	510	3808.961		

Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$

DEP VAR: RIGHT LUNG N: 512 MULTIPLE R: 0.950 SQUARED MULTIPLE R: 0.903  
ADJUSTED SQUARED MULTIPLE R: 0.903 STANDARD ERROR OF ESTIMATE: 58.776

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	47.421	3.723	0.000	.	12.737	0.000
HEIGHT3	101.758	1.475	0.950	1.000	68.993	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.164445E+08	1	.164445E+08	4760.098	0.000
RESIDUAL	1761871.290	510	3454.650		

Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$

DEP VAR: RIGHT LUNG N: 512 MULTIPLE R: 0.957 SQUARED MULTIPLE R: 0.917  
ADJUSTED SQUARED MULTIPLE R: 0.916 STANDARD ERROR OF ESTIMATE: 54.575

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-4.174	12.710	0.000	.	-0.328	0.743
WEIGHT	7.972	0.407	0.880	0.081	19.568	0.000
HEIGHT	36.184	20.344	0.080	0.081	1.779	0.076

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.166903E+08	2	8345155.855	2801.847	0.000
RESIDUAL	1516030.163	509	2978.448		

**Table 35. Regression analysis of mass of the pancreas against body height and weight in normal Japanese males, 0-19 years.**

**Org. wt. =  $a$  BodyWeight +  $b$**

DEP VAR: PANCREAS N: 537 MULTIPLE R: 0.937 SQUARED MULTIPLE R: 0.878  
ADJUSTED SQUARED MULTIPLE R: 0.877 STANDARD ERROR OF ESTIMATE: 15.178

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	4.328	1.034	0.000	.	4.186	0.000
WEIGHT	1.893	0.031	0.937	1.000	61.917	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	883213.646	1	883213.646	3833.671	0.000
RESIDUAL	123255.037	535	230.383		

**Org. wt. =  $a$  BodyHeight +  $b$**

DEP VAR: PANCREAS N: 537 MULTIPLE R: 0.935 SQUARED MULTIPLE R: 0.873  
ADJUSTED SQUARED MULTIPLE R: 0.873 STANDARD ERROR OF ESTIMATE: 15.431

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-50.945	1.849	0.000	.	-27.550	0.000
HEIGHT	95.293	1.568	0.935	1.000	60.759	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	879070.507	1	879070.507	3691.597	0.000
RESIDUAL	127398.176	535	238.127		

**Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$**

DEP VAR: PANCREAS N: 537 MULTIPLE R: 0.941 SQUARED MULTIPLE R: 0.886  
ADJUSTED SQUARED MULTIPLE R: 0.886 STANDARD ERROR OF ESTIMATE: 14.619

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-4.233	1.098	0.000	.	-3.853	0.000
HEIGHT2	41.797	0.647	0.941	1.000	64.612	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	892138.062	1	892138.062	4174.681	0.000
RESIDUAL	114330.622	535	213.702		

**Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$**

DEP VAR: PANCREAS N: 537 MULTIPLE R: 0.935 SQUARED MULTIPLE R: 0.874  
ADJUSTED SQUARED MULTIPLE R: 0.874 STANDARD ERROR OF ESTIMATE: 15.367

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	10.670	0.970	0.000	.	11.002	0.000
HEIGHT3	22.274	0.365	0.935	1.000	61.051	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	880135.473	1	880135.473	3727.226	0.000
RESIDUAL	126333.210	535	236.137		

**Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$**

DEP VAR: PANCREAS N: 537 MULTIPLE R: 0.945 SQUARED MULTIPLE R: 0.894  
ADJUSTED SQUARED MULTIPLE R: 0.893 STANDARD ERROR OF ESTIMATE: 14.154

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-23.340	3.218	0.000	.	-7.253	0.000
WEIGHT	1.020	0.101	0.505	0.080	10.095	0.000
HEIGHT	45.934	5.097	0.450	0.080	9.012	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	899485.620	2	449742.810	2244.866	0.000
RESIDUAL	106983.063	534	200.343		

**Table 36. Regression analysis of mass of the pituitary against body height and weight in normal Japanese males, 0-19 years.**

**Org. wt. =  $a$  BodyWeight +  $b$**

DEP VAR: PITUITARY N: 434 MULTIPLE R: 0.823 SQUARED MULTIPLE R: 0.677  
ADJUSTED SQUARED MULTIPLE R: 0.676 STANDARD ERROR OF ESTIMATE: 0.096

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.164	0.008	0.000	.	20.683	0.000
WEIGHT	0.006	0.000	0.823	1.000	30.097	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	8.433	1	8.433	905.800	0.000
RESIDUAL	4.022	432	0.009		

**Org. wt. =  $a$  BodyHeight +  $b$**

DEP VAR: PITUITARY N: 434 MULTIPLE R: 0.821 SQUARED MULTIPLE R: 0.674  
ADJUSTED SQUARED MULTIPLE R: 0.673 STANDARD ERROR OF ESTIMATE: 0.097

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-0.047	0.014	0.000	.	-3.280	0.001
HEIGHT	0.340	0.011	0.821	1.000	29.902	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	8.398	1	8.398	894.104	0.000
RESIDUAL	4.058	432	0.009		

**Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$**

DEP VAR: PITUITARY N: 434 MULTIPLE R: 0.828 SQUARED MULTIPLE R: 0.685  
ADJUSTED SQUARED MULTIPLE R: 0.684 STANDARD ERROR OF ESTIMATE: 0.095

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.127	0.009	0.000	.	14.454	0.000
HEIGHT2	0.145	0.005	0.828	1.000	30.635	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	8.529	1	8.529	938.518	0.000
RESIDUAL	3.926	432	0.009		

**Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$**

DEP VAR: PITUITARY N: 434 MULTIPLE R: 0.822 SQUARED MULTIPLE R: 0.676  
ADJUSTED SQUARED MULTIPLE R: 0.675 STANDARD ERROR OF ESTIMATE: 0.097

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.184	0.007	0.000	.	24.877	0.000
HEIGHT3	0.076	0.003	0.822	1.000	30.010	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	8.418	1	8.418	900.618	0.000
RESIDUAL	4.038	432	0.009		

**Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$**

DEP VAR: PITUITARY N: 434 MULTIPLE R: 0.831 SQUARED MULTIPLE R: 0.690  
ADJUSTED SQUARED MULTIPLE R: 0.689 STANDARD ERROR OF ESTIMATE: 0.095

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.057	0.026	0.000	.	2.196	0.029
WEIGHT	0.003	0.001	0.440	0.083	4.740	0.000
HEIGHT	0.165	0.038	0.400	0.083	4.302	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	8.599	2	4.299	480.506	0.000
RESIDUAL	3.856	431	0.009		

**Table 37. Regression analysis of mass of the spleen against body height and weight in normal Japanese males, 0-19 years.**

**Org. wt. =  $a$  BodyWeight +  $b$**

DEP VAR: SPLEEN N: 533 MULTIPLE R: 0.889 SQUARED MULTIPLE R: 0.790  
ADJUSTED SQUARED MULTIPLE R: 0.789 STANDARD ERROR OF ESTIMATE: 21.022

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	18.613	1.446	0.000	.	12.875	0.000
WEIGHT	1.894	0.042	0.889	1.000	44.659	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	881382.875	1	881382.875	1994.408	0.000
RESIDUAL	234663.265	531	441.927		

**Org. wt. =  $a$  BodyHeight +  $b$**

DEP VAR: SPLEEN N: 533 MULTIPLE R: 0.897 SQUARED MULTIPLE R: 0.805  
ADJUSTED SQUARED MULTIPLE R: 0.805 STANDARD ERROR OF ESTIMATE: 20.251

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-38.663	2.457	0.000	.	-15.734	0.000
HEIGHT	97.020	2.073	0.897	1.000	46.802	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	898287.256	1	898287.256	2190.453	0.000
RESIDUAL	217758.883	531	410.092		

**Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$**

DEP VAR: SPLEEN N: 533 MULTIPLE R: 0.897 SQUARED MULTIPLE R: 0.805  
ADJUSTED SQUARED MULTIPLE R: 0.805 STANDARD ERROR OF ESTIMATE: 20.246

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	9.539	1.539	0.000	.	6.197	0.000
HEIGHT2	42.150	0.900	0.897	1.000	46.815	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	898386.285	1	898386.285	2191.691	0.000
RESIDUAL	217659.855	531	409.906		

**Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$**

DEP VAR: SPLEEN N: 533 MULTIPLE R: 0.886 SQUARED MULTIPLE R: 0.784  
ADJUSTED SQUARED MULTIPLE R: 0.784 STANDARD ERROR OF ESTIMATE: 21.290

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	24.998	1.357	0.000	.	18.417	0.000
HEIGHT3	22.279	0.507	0.886	1.000	43.946	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	875362.494	1	875362.494	1931.238	0.000
RESIDUAL	240683.645	531	453.265		

**Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$**

DEP VAR: SPLEEN N: 533 MULTIPLE R: 0.903 SQUARED MULTIPLE R: 0.815  
ADJUSTED SQUARED MULTIPLE R: 0.814 STANDARD ERROR OF ESTIMATE: 19.745

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-18.086	4.536	0.000	.	-3.987	0.000
WEIGHT	0.751	0.141	0.352	0.080	5.342	0.000
HEIGHT	60.479	7.133	0.559	0.080	8.479	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	909412.519	2	454706.259	1166.288	0.000
RESIDUAL	206633.620	530	389.875		



**Table 38a. Regression analysis of mass of the testis, left against body height and weight in normal Japanese males, 0-19 years (all subjects).**

**Org. wt. =  $a$  BodyWeight +  $b$**

DEP VAR: LEFT TESTIS N: 534 MULTIPLE R: 0.925 SQUARED MULTIPLE R: 0.855  
ADJUSTED SQUARED MULTIPLE R: 0.855 STANDARD ERROR OF ESTIMATE: 2.718

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-2.150	0.185	0.000	.	-11.593	0.000
WEIGHT	0.310	0.006	0.925	1.000	56.061	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	23214.013	1	23214.013	3142.872	0.000
RESIDUAL	3929.480	532	7.386		

**Org. wt. =  $a$  BodyHeight +  $b$**

DEP VAR: LEFT TESTIS N: 534 MULTIPLE R: 0.831 SQUARED MULTIPLE R: 0.691  
ADJUSTED SQUARED MULTIPLE R: 0.690 STANDARD ERROR OF ESTIMATE: 3.971

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-9.459	0.477	0.000	.	-19.824	0.000
HEIGHT	14.004	0.406	0.831	1.000	34.484	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	18753.412	1	18753.412	1189.120	0.000
RESIDUAL	8390.081	532	15.771		

**Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$**

DEP VAR: LEFT TESTIS N: 534 MULTIPLE R: 0.875 SQUARED MULTIPLE R: 0.766  
ADJUSTED SQUARED MULTIPLE R: 0.765 STANDARD ERROR OF ESTIMATE: 3.457

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-2.985	0.260	0.000	.	-11.475	0.000
HEIGHT2	6.429	0.154	0.875	1.000	41.708	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	20786.445	1	20786.445	1739.548	0.000
RESIDUAL	6357.048	532	11.949		

**Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$**

DEP VAR: LEFT TESTIS N: 534 MULTIPLE R: 0.901 SQUARED MULTIPLE R: 0.812  
ADJUSTED SQUARED MULTIPLE R: 0.812 STANDARD ERROR OF ESTIMATE: 3.094

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-0.940	0.195	0.000	.	-4.810	0.000
HEIGHT3	3.557	0.074	0.901	1.000	47.994	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	22050.726	1	22050.726	2303.460	0.000
RESIDUAL	5092.767	532	9.573		

**Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$**

DEP VAR: LEFT TESTIS N: 534 MULTIPLE R: 0.946 SQUARED MULTIPLE R: 0.894  
ADJUSTED SQUARED MULTIPLE R: 0.894 STANDARD ERROR OF ESTIMATE: 2.324

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	4.937	0.530	0.000	.	9.320	0.000
WEIGHT	0.536	0.017	1.596	0.080	31.978	0.000
HEIGHT	-11.793	0.841	-0.700	0.080	-14.022	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	24275.866	2	12137.933	2247.588	0.000
RESIDUAL	2867.627	531	5.400		

**Table 38b. Regression analysis of mass of the testis, left against body height and weight in normal Japanese males, 0-19 years (subjects showing body weight 30 kg and lower).**

**Org. wt. =  $a$  BodyWeight +  $b$**

DEP VAR: LTESTIS N: 352 MULTIPLE R: 0.568 SQUARED MULTIPLE R: 0.322  
ADJUSTED SQUARED MULTIPLE R: 0.320 STANDARD ERROR OF ESTIMATE: 0.421

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.863	0.046	0.000	.	18.735	0.000
WEIGHT	0.044	0.003	0.568	1.000	12.904	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	29.451	1	29.451	166.525	0.000
RESIDUAL	61.900	350	0.177		

**Org. wt. =  $a$  BodyHeight +  $b$**

DEP VAR: LTESTIS N: 352 MULTIPLE R: 0.564 SQUARED MULTIPLE R: 0.318  
ADJUSTED SQUARED MULTIPLE R: 0.316 STANDARD ERROR OF ESTIMATE: 0.422

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.396	0.080	0.000	.	4.923	0.000
HEIGHT	1.187	0.093	0.564	1.000	12.780	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	29.065	1	29.065	163.322	0.000
RESIDUAL	62.286	350	0.178		

**Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$**

DEP VAR: LTESTIS N: 352 MULTIPLE R: 0.566 SQUARED MULTIPLE R: 0.320  
ADJUSTED SQUARED MULTIPLE R: 0.318 STANDARD ERROR OF ESTIMATE: 0.421

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.890	0.044	0.000	.	20.014	0.000
HEIGHT2	0.658	0.051	0.566	1.000	12.840	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	29.250	1	29.250	164.857	0.000
RESIDUAL	62.100	350	0.177		

**Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$**

DEP VAR: LTESTIS N: 352 MULTIPLE R: 0.564 SQUARED MULTIPLE R: 0.318  
ADJUSTED SQUARED MULTIPLE R: 0.316 STANDARD ERROR OF ESTIMATE: 0.422

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1.053	0.034	0.000	.	30.776	0.000
HEIGHT3	0.453	0.035	0.564	1.000	12.764	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	29.017	1	29.017	162.931	0.000
RESIDUAL	62.334	350	0.178		

**Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$**

DEP VAR: LTESTIS N: 352 MULTIPLE R: 0.569 SQUARED MULTIPLE R: 0.324  
ADJUSTED SQUARED MULTIPLE R: 0.320 STANDARD ERROR OF ESTIMATE: 0.421

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.701	0.196	0.000	.	3.578	0.000
WEIGHT	0.029	0.017	0.381	0.039	1.706	0.089
HEIGHT	0.401	0.470	0.191	0.039	0.854	0.394

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	29.580	2	14.790	83.563	0.000
RESIDUAL	61.771	349	0.177		

**Table 38c. Regression analysis of mass of the testis, left against body height and weight in normal Japanese males, 0-19 years (subjects showing body weight over 30 kg).**

**Org. wt. =  $a$  BodyWeight +  $b$**

DEP VAR: LTESTIS N: 182 MULTIPLE R: 0.757 SQUARED MULTIPLE R: 0.573  
ADJUSTED SQUARED MULTIPLE R: 0.571 STANDARD ERROR OF ESTIMATE: 3.791

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-6.397	1.380	0.000	.	-4.636	0.000
WEIGHT	0.396	0.025	0.757	1.000	15.549	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	3474.470	1	3474.470	241.759	0.000
RESIDUAL	2586.892	180	14.372		

**Org. wt. =  $a$  BodyHeight +  $b$**

DEP VAR: LTESTIS N: 182 MULTIPLE R: 0.668 SQUARED MULTIPLE R: 0.446  
ADJUSTED SQUARED MULTIPLE R: 0.443 STANDARD ERROR OF ESTIMATE: 4.320

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-39.960	4.547	0.000	.	-8.788	0.000
HEIGHT	33.914	2.819	0.668	1.000	12.030	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	2701.459	1	2701.459	144.725	0.000
RESIDUAL	3359.903	180	18.666		

**Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$**

DEP VAR: LTESTIS N: 182 MULTIPLE R: 0.660 SQUARED MULTIPLE R: 0.435  
ADJUSTED SQUARED MULTIPLE R: 0.432 STANDARD ERROR OF ESTIMATE: 4.361

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-13.091	2.374	0.000	.	-5.515	0.000
HEIGHT2	10.646	0.904	0.660	1.000	11.779	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	2638.386	1	2638.386	138.742	0.000
RESIDUAL	3422.976	180	19.017		

**Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$**

DEP VAR: LTESTIS N: 182 MULTIPLE R: 0.651 SQUARED MULTIPLE R: 0.423  
ADJUSTED SQUARED MULTIPLE R: 0.420 STANDARD ERROR OF ESTIMATE: 4.407

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-4.080	1.658	0.000	.	-2.460	0.015
HEIGHT3	4.421	0.385	0.651	1.000	11.496	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	2566.239	1	2566.239	132.162	0.000
RESIDUAL	3495.123	180	19.417		

**Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$**

DEP VAR: LTESTIS N: 182 MULTIPLE R: 0.759 SQUARED MULTIPLE R: 0.576  
ADJUSTED SQUARED MULTIPLE R: 0.571 STANDARD ERROR OF ESTIMATE: 3.789

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.914	6.801	0.000	.	0.134	0.893
WEIGHT	0.458	0.062	0.875	0.170	7.420	0.000
HEIGHT	-6.577	5.991	-0.129	0.170	-1.098	0.274

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	3491.771	2	1745.886	121.620	0.000
RESIDUAL	2569.591	179	14.355		

**Table 39a. Regression analysis of mass of the testis, right against body height and weight in normal Japanese males, 0-19 years (all subjects).**

**Org. wt. =  $a$  BodyWeight +  $b$**

DEP VAR: RIGHT TESTIS N: 533 MULTIPLE R: 0.922 SQUARED MULTIPLE R: 0.849  
ADJUSTED SQUARED MULTIPLE R: 0.849 STANDARD ERROR OF ESTIMATE: 2.823

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-2.191	0.193	0.000	.	-11.374	0.000
WEIGHT	0.315	0.006	0.922	1.000	54.727	0.000

ANALYSIS OF VARIANCE					
SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	23864.156	1	23864.156	2995.082	0.000
RESIDUAL	4230.891	531	7.968		

**Org. wt. =  $a$  BodyHeight +  $b$**

DEP VAR: RIGHT TESTIS N: 533 MULTIPLE R: 0.827 SQUARED MULTIPLE R: 0.684  
ADJUSTED SQUARED MULTIPLE R: 0.684 STANDARD ERROR OF ESTIMATE: 4.086

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-9.586	0.491	0.000	.	-19.525	0.000
HEIGHT	14.196	0.418	0.827	1.000	33.933	0.000

ANALYSIS OF VARIANCE					
SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	19227.996	1	19227.996	1151.461	0.000
RESIDUAL	8867.051	531	16.699		

**Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$**

DEP VAR: RIGHT TESTIS N: 533 MULTIPLE R: 0.871 SQUARED MULTIPLE R: 0.759  
ADJUSTED SQUARED MULTIPLE R: 0.759 STANDARD ERROR OF ESTIMATE: 3.571

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-3.018	0.268	0.000	.	-11.244	0.000
HEIGHT2	6.514	0.159	0.871	1.000	40.895	0.000

ANALYSIS OF VARIANCE					
SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	21324.468	1	21324.468	1672.426	0.000
RESIDUAL	6770.579	531	12.751		

**Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$**

DEP VAR: RIGHT TESTIS N: 533 MULTIPLE R: 0.898 SQUARED MULTIPLE R: 0.806  
ADJUSTED SQUARED MULTIPLE R: 0.806 STANDARD ERROR OF ESTIMATE: 3.203

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-0.949	0.202	0.000	.	-4.697	0.000
HEIGHT3	3.605	0.077	0.898	1.000	46.980	0.000

ANALYSIS OF VARIANCE					
SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	22646.659	1	22646.659	2207.144	0.000
RESIDUAL	5448.387	531	10.261		

**Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$**

DEP VAR: RIGHT TESTIS N: 533 MULTIPLE R: 0.944 SQUARED MULTIPLE R: 0.890  
ADJUSTED SQUARED MULTIPLE R: 0.890 STANDARD ERROR OF ESTIMATE: 2.410

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	5.218	0.551	0.000	.	9.467	0.000
WEIGHT	0.551	0.017	1.611	0.079	31.566	0.000
HEIGHT	-12.337	0.876	-0.719	0.079	-14.082	0.000

ANALYSIS OF VARIANCE					
SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	25016.175	2	12508.088	2153.155	0.000
RESIDUAL	3078.871	530	5.809		

**Table 39b. Regression analysis of mass of the testis, right against body height and weight in normal Japanese males, 0-19 years (subjects showing body weight 30 kg and lower).**

**Org. wt. =  $a$  BodyWeight +  $b$**

DEP VAR: RTESTIS N: 352 MULTIPLE R: 0.575 SQUARED MULTIPLE R: 0.330  
ADJUSTED SQUARED MULTIPLE R: 0.328 STANDARD ERROR OF ESTIMATE: 0.412

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.895	0.045	0.000	.	19.763	0.000
WEIGHT	0.044	0.003	0.575	1.000	13.141	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	29.254	1	29.254	172.696	0.000
RESIDUAL	59.289	350	0.169		

**Org. wt. =  $a$  BodyHeight +  $b$**

DEP VAR: RTESTIS N: 352 MULTIPLE R: 0.574 SQUARED MULTIPLE R: 0.330  
ADJUSTED SQUARED MULTIPLE R: 0.328 STANDARD ERROR OF ESTIMATE: 0.412

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.421	0.079	0.000	.	5.336	0.000
HEIGHT	1.198	0.091	0.574	1.000	13.130	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	29.221	1	29.221	172.404	0.000
RESIDUAL	59.322	350	0.169		

**Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$**

DEP VAR: RTESTIS N: 352 MULTIPLE R: 0.573 SQUARED MULTIPLE R: 0.328  
ADJUSTED SQUARED MULTIPLE R: 0.326 STANDARD ERROR OF ESTIMATE: 0.412

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.922	0.044	0.000	.	21.170	0.000
HEIGHT2	0.660	0.050	0.573	1.000	13.082	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	29.078	1	29.078	171.146	0.000
RESIDUAL	59.465	350	0.170		

**Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$**

DEP VAR: RTESTIS N: 352 MULTIPLE R: 0.567 SQUARED MULTIPLE R: 0.321  
ADJUSTED SQUARED MULTIPLE R: 0.319 STANDARD ERROR OF ESTIMATE: 0.414

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1.089	0.034	0.000	.	32.415	0.000
HEIGHT3	0.451	0.035	0.567	1.000	12.869	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	28.440	1	28.440	165.619	0.000
RESIDUAL	60.103	350	0.172		

**Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$**

DEP VAR: RTESTIS N: 352 MULTIPLE R: 0.578 SQUARED MULTIPLE R: 0.334  
ADJUSTED SQUARED MULTIPLE R: 0.330 STANDARD ERROR OF ESTIMATE: 0.411

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.657	0.191	0.000	.	3.439	0.001
WEIGHT	0.023	0.017	0.298	0.039	1.357	0.176
HEIGHT	0.588	0.459	0.282	0.039	1.282	0.201

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	29.532	2	14.766	87.329	0.000
RESIDUAL	59.011	349	0.169		

Table 39c. Regression analysis of mass of the testis, right against body height and weight in normal Japanese males, 0-19 years (subjects showing body weight over 30 kg).

Org. wt. =  $a$  BodyWeight +  $b$

DEP VAR: RTESTIS N: 181 MULTIPLE R: 0.760 SQUARED MULTIPLE R: 0.578  
ADJUSTED SQUARED MULTIPLE R: 0.575 STANDARD ERROR OF ESTIMATE: 3.962

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-7.318	1.442	0.000	.	-5.074	0.000
WEIGHT	0.417	0.027	0.760	1.000	15.650	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	3845.253	1	3845.253	244.924	0.000
RESIDUAL	2810.261	179	15.700		

Org. wt. =  $a$  BodyHeight +  $b$

DEP VAR: RTESTIS N: 181 MULTIPLE R: 0.674 SQUARED MULTIPLE R: 0.454  
ADJUSTED SQUARED MULTIPLE R: 0.451 STANDARD ERROR OF ESTIMATE: 4.505

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-43.111	4.756	0.000	.	-9.065	0.000
HEIGHT	35.964	2.947	0.674	1.000	12.203	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	3022.472	1	3022.472	148.917	0.000
RESIDUAL	3633.043	179	20.296		

Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$

DEP VAR: RTESTIS N: 181 MULTIPLE R: 0.666 SQUARED MULTIPLE R: 0.444  
ADJUSTED SQUARED MULTIPLE R: 0.441 STANDARD ERROR OF ESTIMATE: 4.546

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-14.640	2.483	0.000	.	-5.895	0.000
HEIGHT2	11.298	0.945	0.666	1.000	11.958	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	2955.523	1	2955.523	142.984	0.000
RESIDUAL	3699.992	179	20.670		

Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$

DEP VAR: RTESTIS N: 181 MULTIPLE R: 0.658 SQUARED MULTIPLE R: 0.432  
ADJUSTED SQUARED MULTIPLE R: 0.429 STANDARD ERROR OF ESTIMATE: 4.594

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-5.088	1.736	0.000	.	-2.931	0.004
HEIGHT3	4.694	0.402	0.658	1.000	11.675	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	2877.234	1	2877.234	136.312	0.000
RESIDUAL	3778.280	179	21.108		

Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$

DEP VAR: RTESTIS N: 181 MULTIPLE R: 0.762 SQUARED MULTIPLE R: 0.580  
ADJUSTED SQUARED MULTIPLE R: 0.576 STANDARD ERROR OF ESTIMATE: 3.961

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.084	7.235	0.000	.	0.012	0.991
WEIGHT	0.479	0.065	0.874	0.165	7.316	0.000
HEIGHT	-6.657	6.376	-0.125	0.165	-1.044	0.298

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	3862.358	2	1931.179	123.069	0.000
RESIDUAL	2793.157	178	15.692		

**Table 40. Regression analysis of mass of the thymus against body height and weight in normal Japanese males, 0-19 years.**

$$\text{Org. wt.} = a \text{ BodyWeight} + b$$

DEP VAR: THYMUS N: 498 MULTIPLE R: 0.258 SQUARED MULTIPLE R: 0.067  
ADJUSTED SQUARED MULTIPLE R: 0.065 STANDARD ERROR OF ESTIMATE: 12.741

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	28.571	0.895	0.000	.	31.926	0.000
WEIGHT	0.165	0.028	0.258	1.000	5.952	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	5750.249	1	5750.249	35.422	0.000
RESIDUAL	80517.793	496	162.334		

$$\text{Org. wt.} = a \text{ BodyHeight} + b$$

DEP VAR: THYMUS N: 498 MULTIPLE R: 0.316 SQUARED MULTIPLE R: 0.100  
ADJUSTED SQUARED MULTIPLE R: 0.098 STANDARD ERROR OF ESTIMATE: 12.511

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	21.810	1.566	0.000	.	13.926	0.000
HEIGHT	10.048	1.353	0.316	1.000	7.428	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	8635.009	1	8635.009	55.169	0.000
RESIDUAL	77633.033	496	156.518		

$$\text{Org. wt.} = a \text{ BodyHeight}^2 + b$$

DEP VAR: THYMUS N: 498 MULTIPLE R: 0.295 SQUARED MULTIPLE R: 0.087  
ADJUSTED SQUARED MULTIPLE R: 0.085 STANDARD ERROR OF ESTIMATE: 12.599

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	27.176	0.977	0.000	.	27.804	0.000
HEIGHT2	4.101	0.595	0.295	1.000	6.888	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	7531.339	1	7531.339	47.443	0.000
RESIDUAL	78736.703	496	158.743		

$$\text{Org. wt.} = a \text{ BodyHeight}^3 + b$$

DEP VAR: THYMUS N: 498 MULTIPLE R: 0.274 SQUARED MULTIPLE R: 0.075  
ADJUSTED SQUARED MULTIPLE R: 0.073 STANDARD ERROR OF ESTIMATE: 12.685

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	28.914	0.821	0.000	.	35.197	0.000
HEIGHT3	2.045	0.323	0.274	1.000	6.337	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	6461.812	1	6461.812	40.161	0.000
RESIDUAL	79806.230	496	160.900		

$$\text{Org. wt.} = a \text{ BodyHeight} + b \text{ BodyWeight} + c$$

DEP VAR: THYMUS N: 498 MULTIPLE R: 0.352 SQUARED MULTIPLE R: 0.124  
ADJUSTED SQUARED MULTIPLE R: 0.120 STANDARD ERROR OF ESTIMATE: 12.356

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	12.748	2.913	0.000	.	4.376	0.000
WEIGHT	-0.341	0.093	-0.534	0.084	-3.670	0.000
HEIGHT	26.275	4.618	0.827	0.084	5.689	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	10691.860	2	5345.930	35.014	0.000
RESIDUAL	75576.182	495	152.679		

**Table 41. Regression analysis of mass of the thyroid against body height and weight in normal Japanese males, 0-19 years.**

**Org. wt. =  $a$  BodyWeight +  $b$**

DEP VAR: THYROID N: 537 MULTIPLE R: 0.947 SQUARED MULTIPLE R: 0.898  
ADJUSTED SQUARED MULTIPLE R: 0.897 STANDARD ERROR OF ESTIMATE: 2.134

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-0.377	0.146	0.000	.	-2.590	0.010
WEIGHT	0.295	0.004	0.947	1.000	68.505	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	21370.418	1	21370.418	4692.968	0.000
RESIDUAL	2436.235	535	4.554		

**Org. wt. =  $a$  BodyHeight +  $b$**

DEP VAR: THYROID N: 537 MULTIPLE R: 0.897 SQUARED MULTIPLE R: 0.805  
ADJUSTED SQUARED MULTIPLE R: 0.804 STANDARD ERROR OF ESTIMATE: 2.948

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-8.211	0.355	0.000	.	-23.116	0.000
HEIGHT	14.128	0.301	0.897	1.000	46.950	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	19157.016	1	19157.016	2204.259	0.000
RESIDUAL	4649.637	535	8.691		

**Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$**

DEP VAR: THYROID N: 537 MULTIPLE R: 0.924 SQUARED MULTIPLE R: 0.853  
ADJUSTED SQUARED MULTIPLE R: 0.853 STANDARD ERROR OF ESTIMATE: 2.558

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-1.443	0.193	0.000	.	-7.485	0.000
HEIGHT2	6.318	0.113	0.924	1.000	55.695	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	20304.636	1	20304.636	3101.921	0.000
RESIDUAL	3502.018	535	6.546		

**Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$**

DEP VAR: THYROID N: 537 MULTIPLE R: 0.934 SQUARED MULTIPLE R: 0.872  
ADJUSTED SQUARED MULTIPLE R: 0.871 STANDARD ERROR OF ESTIMATE: 2.391

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.711	0.151	0.000	.	4.708	0.000
HEIGHT3	3.421	0.057	0.934	1.000	60.240	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	20747.824	1	20747.824	3628.867	0.000
RESIDUAL	3058.829	535	5.717		

**Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$**

DEP VAR: THYROID N: 537 MULTIPLE R: 0.948 SQUARED MULTIPLE R: 0.899  
ADJUSTED SQUARED MULTIPLE R: 0.899 STANDARD ERROR OF ESTIMATE: 2.117

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1.048	0.485	0.000	.	2.160	0.031
WEIGHT	0.339	0.015	1.091	0.080	22.433	0.000
HEIGHT	-2.358	0.766	-0.150	0.080	-3.078	0.002

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	21412.883	2	10706.441	2388.383	0.000
RESIDUAL	2393.771	534	4.483		



Table 42a. Regression analysis of mass of the adrenal, left against body height and weight in normal Japanese males, 20-49 years.

**Org. wt. =  $a$  BodyWeight +  $b$**

DEP VAR: LADRE N: 1645 MULTIPLE R: 0.140 SQUARED MULTIPLE R: 0.020  
ADJUSTED SQUARED MULTIPLE R: 0.019 STANDARD ERROR OF ESTIMATE: 1.907

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	3.770	0.635	0.000	.	5.934	0.000
WEIGHT	0.060	0.011	0.140	1.000	5.733	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	119.524	1	119.524	32.865	0.000
RESIDUAL	5975.302	1643	3.637		

**Org. wt. =  $a$  BodyHeight +  $b$**

DEP VAR: LADRE N: 1645 MULTIPLE R: 0.183 SQUARED MULTIPLE R: 0.033  
ADJUSTED SQUARED MULTIPLE R: 0.033 STANDARD ERROR OF ESTIMATE: 1.894

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-1.087	1.126	0.000	.	-0.965	0.335
HEIGHT	5.178	0.686	0.183	1.000	7.544	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	204.056	1	204.056	56.914	0.000
RESIDUAL	5890.769	1643	3.585		

**Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$**

DEP VAR: LADRE N: 1645 MULTIPLE R: 0.184 SQUARED MULTIPLE R: 0.034  
ADJUSTED SQUARED MULTIPLE R: 0.033 STANDARD ERROR OF ESTIMATE: 1.893

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	3.097	0.570	0.000	.	5.435	0.000
HEIGHT2	1.599	0.211	0.184	1.000	7.582	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	206.030	1	206.030	57.483	0.000
RESIDUAL	5888.796	1643	3.584		

**Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$**

DEP VAR: LADRE N: 1645 MULTIPLE R: 0.184 SQUARED MULTIPLE R: 0.034  
ADJUSTED SQUARED MULTIPLE R: 0.033 STANDARD ERROR OF ESTIMATE: 1.893

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	4.506	0.384	0.000	.	11.744	0.000
HEIGHT3	0.654	0.086	0.184	1.000	7.601	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	207.065	1	207.065	57.782	0.000
RESIDUAL	5887.761	1643	3.584		

**Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$**

DEP VAR: LADRE N: 1645 MULTIPLE R: 0.188 SQUARED MULTIPLE R: 0.035  
ADJUSTED SQUARED MULTIPLE R: 0.034 STANDARD ERROR OF ESTIMATE: 1.892

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-1.043	1.126	0.000	.	-0.927	0.354
WEIGHT	0.022	0.013	0.052	0.667	1.738	0.082
HEIGHT	4.335	0.840	0.153	0.667	5.160	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	214.868	2	107.434	30.001	0.000
RESIDUAL	5879.958	1642	3.581		

Table 42b. Regression analysis of mass of the adrenal, right against body height and weight in normal Japanese males, 20-49 years.

**Org. wt. = a BodyWeight + b**

DEP VAR: RADRE N: 1651 MULTIPLE R: 0.105 SQUARED MULTIPLE R: 0.011  
ADJUSTED SQUARED MULTIPLE R: 0.011 STANDARD ERROR OF ESTIMATE: 1.813

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	4.304	0.601	0.000	.	7.160	0.000
WEIGHT	0.043	0.010	0.105	1.000	4.306	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	60.942	1	60.942	18.543	0.000
RESIDUAL	5419.416	1649	3.286		

**Org. wt. = a BodyHeight + b**

DEP VAR: RADRE N: 1651 MULTIPLE R: 0.146 SQUARED MULTIPLE R: 0.021  
ADJUSTED SQUARED MULTIPLE R: 0.021 STANDARD ERROR OF ESTIMATE: 1.803

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.458	1.073	0.000	.	0.427	0.669
HEIGHT	3.921	0.654	0.146	1.000	5.997	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	116.957	1	116.957	35.959	0.000
RESIDUAL	5363.401	1649	3.253		

**Org. wt. = a BodyHeight<sup>2</sup> + b**

DEP VAR: RADRE N: 1651 MULTIPLE R: 0.146 SQUARED MULTIPLE R: 0.021  
ADJUSTED SQUARED MULTIPLE R: 0.021 STANDARD ERROR OF ESTIMATE: 1.804

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	3.646	0.543	0.000	.	6.717	0.000
HEIGHT2	1.203	0.201	0.146	1.000	5.989	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	116.686	1	116.686	35.874	0.000
RESIDUAL	5363.672	1649	3.253		

**Org. wt. = a BodyHeight<sup>3</sup> + b**

DEP VAR: RADRE N: 1651 MULTIPLE R: 0.145 SQUARED MULTIPLE R: 0.021  
ADJUSTED SQUARED MULTIPLE R: 0.021 STANDARD ERROR OF ESTIMATE: 1.804

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	4.721	0.366	0.000	.	12.913	0.000
HEIGHT3	0.489	0.082	0.145	1.000	5.966	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	115.804	1	115.804	35.597	0.000
RESIDUAL	5364.554	1649	3.253		

**Org. wt. = a BodyHeight + b BodyWeight + c**

DEP VAR: RADRE N: 1651 MULTIPLE R: 0.148 SQUARED MULTIPLE R: 0.022  
ADJUSTED SQUARED MULTIPLE R: 0.021 STANDARD ERROR OF ESTIMATE: 1.803

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.486	1.073	0.000	.	0.453	0.650
WEIGHT	0.013	0.012	0.032	0.668	1.067	0.286
HEIGHT	3.428	0.800	0.128	0.668	4.285	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	120.661	2	60.330	18.550	0.000
RESIDUAL	5359.697	1648	3.252		

**Table 43. Regression analysis of mass of the brain against body height and weight in normal Japanese males, 20-49 years.**

**Org. wt. =  $a$  BodyWeight +  $b$**

DEP VAR: BRAIN N: 1655 MULTIPLE R: 0.151 SQUARED MULTIPLE R: 0.023  
ADJUSTED SQUARED MULTIPLE R: 0.022 STANDARD ERROR OF ESTIMATE: 114.960

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1208.051	37.976	0.000	.	31.811	0.000
WEIGHT	3.903	0.630	0.151	1.000	6.196	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	507321.637	1	507321.637	38.387	0.000
RESIDUAL	.218459E+08	1653	13215.888		

**Org. wt. =  $a$  BodyHeight +  $b$**

DEP VAR: BRAIN N: 1655 MULTIPLE R: 0.288 SQUARED MULTIPLE R: 0.083  
ADJUSTED SQUARED MULTIPLE R: 0.082 STANDARD ERROR OF ESTIMATE: 111.376

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	637.640	66.007	0.000	.	9.660	0.000
HEIGHT	491.126	40.234	0.288	1.000	12.207	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1848377.750	1	1848377.750	149.007	0.000
RESIDUAL	.205048E+08	1653	12404.602		

**Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$**

DEP VAR: BRAIN N: 1655 MULTIPLE R: 0.290 SQUARED MULTIPLE R: 0.084  
ADJUSTED SQUARED MULTIPLE R: 0.084 STANDARD ERROR OF ESTIMATE: 111.293

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1033.186	33.360	0.000	.	30.971	0.000
HEIGHT2	152.142	12.352	0.290	1.000	12.317	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1879027.864	1	1879027.864	151.705	0.000
RESIDUAL	.204742E+08	1653	12386.060		

**Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$**

DEP VAR: BRAIN N: 1655 MULTIPLE R: 0.292 SQUARED MULTIPLE R: 0.085  
ADJUSTED SQUARED MULTIPLE R: 0.084 STANDARD ERROR OF ESTIMATE: 111.235

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1166.558	22.448	0.000	.	51.966	0.000
HEIGHT3	62.373	5.033	0.292	1.000	12.393	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1900322.056	1	1900322.056	153.584	0.000
RESIDUAL	.204529E+08	1653	12373.178		

**Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$**

DEP VAR: BRAIN N: 1655 MULTIPLE R: 0.288 SQUARED MULTIPLE R: 0.083  
ADJUSTED SQUARED MULTIPLE R: 0.082 STANDARD ERROR OF ESTIMATE: 111.385

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	635.942	66.043	0.000	.	9.629	0.000
WEIGHT	-0.640	0.750	-0.025	0.663	-0.854	0.393
HEIGHT	515.651	49.431	0.302	0.663	10.432	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1857429.728	2	928714.864	74.856	0.000
RESIDUAL	.204958E+08	1652	12406.631		

**Table 44. Regression analysis of mass of the heart against body height and weight in normal Japanese males, 20-49 years.**

**Org. wt. =  $a$  BodyWeight +  $b$**

DEP VAR: HEART N: 1664 MULTIPLE R: 0.121 SQUARED MULTIPLE R: 0.015  
ADJUSTED SQUARED MULTIPLE R: 0.014 STANDARD ERROR OF ESTIMATE: 95.785

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	223.813	31.927	0.000	.	7.010	0.000
WEIGHT	2.624	0.530	0.121	1.000	4.952	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	225029.239	1	225029.239	24.527	0.000
RESIDUAL	.152484E+08	1662	9174.714		

**Org. wt. =  $a$  BodyHeight +  $b$**

DEP VAR: HEART N: 1664 MULTIPLE R: 0.169 SQUARED MULTIPLE R: 0.028  
ADJUSTED SQUARED MULTIPLE R: 0.028 STANDARD ERROR OF ESTIMATE: 95.104

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-11.819	56.380	0.000	.	-0.210	0.834
HEIGHT	239.863	34.353	0.169	1.000	6.982	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	440950.844	1	440950.844	48.752	0.000
RESIDUAL	.150325E+08	1662	9044.797		

**Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$**

DEP VAR: HEART N: 1664 MULTIPLE R: 0.170 SQUARED MULTIPLE R: 0.029  
ADJUSTED SQUARED MULTIPLE R: 0.028 STANDARD ERROR OF ESTIMATE: 95.081

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	181.416	28.515	0.000	.	6.362	0.000
HEIGHT <sup>2</sup>	74.286	10.551	0.170	1.000	7.040	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	448116.756	1	448116.756	49.568	0.000
RESIDUAL	.150253E+08	1662	9040.486		

**Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$**

DEP VAR: HEART N: 1664 MULTIPLE R: 0.171 SQUARED MULTIPLE R: 0.029  
ADJUSTED SQUARED MULTIPLE R: 0.029 STANDARD ERROR OF ESTIMATE: 95.069

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	246.737	19.200	0.000	.	12.851	0.000
HEIGHT <sup>3</sup>	30.410	4.300	0.171	1.000	7.071	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	451936.340	1	451936.340	50.003	0.000
RESIDUAL	.150215E+08	1662	9038.187		

**Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$**

DEP VAR: HEART N: 1664 MULTIPLE R: 0.171 SQUARED MULTIPLE R: 0.029  
ADJUSTED SQUARED MULTIPLE R: 0.028 STANDARD ERROR OF ESTIMATE: 95.096

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-10.201	56.393	0.000	.	-0.181	0.856
WEIGHT	0.736	0.647	0.034	0.662	1.139	0.255
HEIGHT	211.888	42.231	0.149	0.662	5.017	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	452677.040	2	226338.520	25.029	0.000
RESIDUAL	.150207E+08	1661	9043.183		

**Table 45a. Regression analysis of mass of the kidney, left against body height and weight in normal Japanese males, 20-49 years.**

$$\text{Org. wt.} = a \text{ BodyWeight} + b$$

DEP VAR: LKIDY N: 1664 MULTIPLE R: 0.168 SQUARED MULTIPLE R: 0.028  
ADJUSTED SQUARED MULTIPLE R: 0.028 STANDARD ERROR OF ESTIMATE: 34.600

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	87.693	11.433	0.000	.	7.670	0.000
WEIGHT	1.318	0.190	0.168	1.000	6.948	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	57788.397	1	57788.397	48.272	0.000
RESIDUAL	1989632.900	1662	1197.132		

$$\text{Org. wt.} = a \text{ BodyHeight} + b$$

DEP VAR: LKIDY N: 1664 MULTIPLE R: 0.250 SQUARED MULTIPLE R: 0.062  
ADJUSTED SQUARED MULTIPLE R: 0.062 STANDARD ERROR OF ESTIMATE: 33.988

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-44.324	20.127	0.000	.	-2.202	0.028
HEIGHT	128.857	12.268	0.250	1.000	10.504	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	127453.926	1	127453.926	110.329	0.000
RESIDUAL	1919967.372	1662	1155.215		

$$\text{Org. wt.} = a \text{ BodyHeight}^2 + b$$

DEP VAR: LKIDY N: 1664 MULTIPLE R: 0.249 SQUARED MULTIPLE R: 0.062  
ADJUSTED SQUARED MULTIPLE R: 0.062 STANDARD ERROR OF ESTIMATE: 33.989

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	60.348	10.181	0.000	.	5.928	0.000
HEIGHT2	39.587	3.769	0.249	1.000	10.502	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	127422.802	1	127422.802	110.300	0.000
RESIDUAL	1919998.495	1662	1155.234		

$$\text{Org. wt.} = a \text{ BodyHeight}^3 + b$$

DEP VAR: LKIDY N: 1664 MULTIPLE R: 0.249 SQUARED MULTIPLE R: 0.062  
ADJUSTED SQUARED MULTIPLE R: 0.061 STANDARD ERROR OF ESTIMATE: 33.995

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	95.655	6.856	0.000	.	13.952	0.000
HEIGHT3	16.093	1.537	0.249	1.000	10.471	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	126702.910	1	126702.910	109.636	0.000
RESIDUAL	1920718.388	1662	1155.667		

$$\text{Org. wt.} = a \text{ BodyHeight} + b \text{ BodyWeight} + c$$

DEP VAR: LKIDY N: 1664 MULTIPLE R: 0.251 SQUARED MULTIPLE R: 0.063  
ADJUSTED SQUARED MULTIPLE R: 0.062 STANDARD ERROR OF ESTIMATE: 33.984

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-43.660	20.132	0.000	.	-2.169	0.030
WEIGHT	0.278	0.228	0.035	0.665	1.215	0.225
HEIGHT	118.274	15.045	0.229	0.665	7.861	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	129157.802	2	64578.901	55.918	0.000
RESIDUAL	1918263.496	1661	1154.885		

**Table 45b. Regression analysis of mass of the kidney, right against body height and weight in normal Japanese males, 20-49 years.**

**Org. wt. =  $a$  BodyWeight +  $b$**

DEP VAR: RKIDY N: 1668 MULTIPLE R: 0.161 SQUARED MULTIPLE R: 0.026  
ADJUSTED SQUARED MULTIPLE R: 0.025 STANDARD ERROR OF ESTIMATE: 31.816

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	87.736	10.510	0.000	.	8.348	0.000
WEIGHT	1.158	0.174	0.161	1.000	6.643	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	44675.420	1	44675.420	44.134	0.000
RESIDUAL	1686444.959	1666	1012.272		

**Org. wt. =  $a$  BodyHeight +  $b$**

DEP VAR: RKIDY N: 1668 MULTIPLE R: 0.211 SQUARED MULTIPLE R: 0.045  
ADJUSTED SQUARED MULTIPLE R: 0.044 STANDARD ERROR OF ESTIMATE: 31.508

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-6.813	18.638	0.000	.	-0.366	0.715
HEIGHT	100.154	11.360	0.211	1.000	8.816	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	77163.799	1	77163.799	77.726	0.000
RESIDUAL	1653956.580	1666	992.771		

**Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$**

DEP VAR: RKIDY N: 1668 MULTIPLE R: 0.212 SQUARED MULTIPLE R: 0.045  
ADJUSTED SQUARED MULTIPLE R: 0.044 STANDARD ERROR OF ESTIMATE: 31.505

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	74.336	9.426	0.000	.	7.886	0.000
HEIGHT2	30.845	3.490	0.212	1.000	8.838	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	77528.000	1	77528.000	78.110	0.000
RESIDUAL	1653592.379	1666	992.552		

**Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$**

DEP VAR: RKIDY N: 1668 MULTIPLE R: 0.212 SQUARED MULTIPLE R: 0.045  
ADJUSTED SQUARED MULTIPLE R: 0.044 STANDARD ERROR OF ESTIMATE: 31.506

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	101.720	6.347	0.000	.	16.027	0.000
HEIGHT3	12.568	1.423	0.212	1.000	8.833	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	77443.182	1	77443.182	78.020	0.000
RESIDUAL	1653677.197	1666	992.603		

**Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$**

DEP VAR: RKIDY N: 1668 MULTIPLE R: 0.216 SQUARED MULTIPLE R: 0.047  
ADJUSTED SQUARED MULTIPLE R: 0.046 STANDARD ERROR OF ESTIMATE: 31.481

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-5.826	18.629	0.000	.	-0.313	0.755
WEIGHT	0.416	0.212	0.058	0.664	1.965	0.050
HEIGHT	84.299	13.926	0.178	0.664	6.053	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	80990.881	2	40495.440	40.860	0.000
RESIDUAL	1650129.498	1665	991.069		

Table 46. Regression analysis of mass of the liver against body height and weight in normal Japanese males, 20-49 years.

$$\text{Org. wt.} = a \text{ BodyWeight} + b$$

DEP VAR: LIVER N: 1662 MULTIPLE R: 0.188 SQUARED MULTIPLE R: 0.035  
ADJUSTED SQUARED MULTIPLE R: 0.035 STANDARD ERROR OF ESTIMATE: 364.890

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	664.197	121.775	0.000	.	5.454	0.000
WEIGHT	15.725	2.020	0.188	1.000	7.784	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	8066819.798	1	8066819.798	60.587	0.000
RESIDUAL	.221021E+09	1660	133144.889		

$$\text{Org. wt.} = a \text{ BodyHeight} + b$$

DEP VAR: LIVER N: 1662 MULTIPLE R: 0.263 SQUARED MULTIPLE R: 0.069  
ADJUSTED SQUARED MULTIPLE R: 0.069 STANDARD ERROR OF ESTIMATE: 358.414

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-752.029	212.834	0.000	.	-3.533	0.000
HEIGHT	1439.904	129.661	0.263	1.000	11.105	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.158423E+08	1	.158423E+08	123.324	0.000
RESIDUAL	.213245E+09	1660	128460.890		

$$\text{Org. wt.} = a \text{ BodyHeight}^2 + b$$

DEP VAR: LIVER N: 1662 MULTIPLE R: 0.264 SQUARED MULTIPLE R: 0.070  
ADJUSTED SQUARED MULTIPLE R: 0.069 STANDARD ERROR OF ESTIMATE: 358.306

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	413.025	107.632	0.000	.	3.837	0.000
HEIGHT2	444.061	39.813	0.264	1.000	11.154	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.159711E+08	1	.159711E+08	124.402	0.000
RESIDUAL	.213116E+09	1660	128383.260		

$$\text{Org. wt.} = a \text{ BodyHeight}^3 + b$$

DEP VAR: LIVER N: 1662 MULTIPLE R: 0.265 SQUARED MULTIPLE R: 0.070  
ADJUSTED SQUARED MULTIPLE R: 0.069 STANDARD ERROR OF ESTIMATE: 358.259

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	805.667	72.468	0.000	.	11.118	0.000
HEIGHT3	181.292	16.223	0.265	1.000	11.175	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.160276E+08	1	.160276E+08	124.875	0.000
RESIDUAL	.213060E+09	1660	128349.216		

$$\text{Org. wt.} = a \text{ BodyHeight} + b \text{ BodyWeight} + c$$

DEP VAR: LIVER N: 1662 MULTIPLE R: 0.266 SQUARED MULTIPLE R: 0.071  
ADJUSTED SQUARED MULTIPLE R: 0.070 STANDARD ERROR OF ESTIMATE: 358.176

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-741.962	212.766	0.000	.	-3.487	0.001
WEIGHT	4.373	2.440	0.052	0.661	1.793	0.073
HEIGHT	1273.462	159.404	0.233	0.661	7.989	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.162546E+08	2	8127278.385	63.351	0.000
RESIDUAL	.212833E+09	1659	128289.800		

Table 47a. Regression analysis of mass of the lung, left against body height and weight in normal Japanese males, 20-49 years.

Org. wt. =  $a$  BodyWeight +  $b$

DEP VAR: LLUNG N: 1638 MULTIPLE R: 0.115 SQUARED MULTIPLE R: 0.013  
ADJUSTED SQUARED MULTIPLE R: 0.013 STANDARD ERROR OF ESTIMATE: 156.615

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	293.301	52.617	0.000	.	5.574	0.000
WEIGHT	4.093	0.873	0.115	1.000	4.689	0.000

ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	539272.201	1	539272.201	21.986	0.000
RESIDUAL	.401282E+08	1636	24528.210		

Org. wt. =  $a$  BodyHeight +  $b$

DEP VAR: LLUNG N: 1638 MULTIPLE R: 0.177 SQUARED MULTIPLE R: 0.031  
ADJUSTED SQUARED MULTIPLE R: 0.031 STANDARD ERROR OF ESTIMATE: 155.176

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-132.855	92.531	0.000	.	-1.436	0.151
HEIGHT	409.910	56.377	0.177	1.000	7.271	0.000

ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1272995.416	1	1272995.416	52.866	0.000
RESIDUAL	.393944E+08	1636	24079.723		

Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$

DEP VAR: LLUNG N: 1638 MULTIPLE R: 0.177 SQUARED MULTIPLE R: 0.031  
ADJUSTED SQUARED MULTIPLE R: 0.031 STANDARD ERROR OF ESTIMATE: 155.186

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	200.749	46.815	0.000	.	4.288	0.000
HEIGHT2	125.694	17.320	0.177	1.000	7.257	0.000

ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1268284.519	1	1268284.519	52.664	0.000
RESIDUAL	.393991E+08	1636	24082.603		

Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$

DEP VAR: LLUNG N: 1638 MULTIPLE R: 0.176 SQUARED MULTIPLE R: 0.031  
ADJUSTED SQUARED MULTIPLE R: 0.030 STANDARD ERROR OF ESTIMATE: 155.203

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	313.018	31.531	0.000	.	9.927	0.000
HEIGHT3	51.060	7.061	0.176	1.000	7.232	0.000

ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1259739.019	1	1259739.019	52.298	0.000
RESIDUAL	.394077E+08	1636	24087.826		

Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$

DEP VAR: LLUNG N: 1638 MULTIPLE R: 0.177 SQUARED MULTIPLE R: 0.031  
ADJUSTED SQUARED MULTIPLE R: 0.030 STANDARD ERROR OF ESTIMATE: 155.209

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-131.169	92.599	0.000	.	-1.417	0.157
WEIGHT	0.598	1.070	0.017	0.653	0.558	0.577
HEIGHT	386.972	69.762	0.167	0.653	5.547	0.000

ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1280508.802	2	640254.401	26.578	0.000
RESIDUAL	.393869E+08	1635	24089.856		



Table 47b. Regression analysis of mass of the lung, right against body height and weight in normal Japanese males, 20-49 years.

Org. wt. =  $a$  BodyWeight +  $b$

DEP VAR: RLUNG N: 1588 MULTIPLE R: 0.119 SQUARED MULTIPLE R: 0.014  
ADJUSTED SQUARED MULTIPLE R: 0.013 STANDARD ERROR OF ESTIMATE: 197.664

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	316.919	67.235	0.000	.	4.714	0.000
WEIGHT	5.316	1.115	0.119	1.000	4.765	0.000

ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	887226.417	1	887226.417	22.708	0.000
RESIDUAL	.619670E+08	1586	39071.230		

Org. wt. =  $a$  BodyHeight +  $b$

DEP VAR: RLUNG N: 1588 MULTIPLE R: 0.144 SQUARED MULTIPLE R: 0.021  
ADJUSTED SQUARED MULTIPLE R: 0.020 STANDARD ERROR OF ESTIMATE: 196.989

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-56.276	119.318	0.000	.	-0.472	0.637
HEIGHT	422.493	72.710	0.144	1.000	5.811	0.000

ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1310181.086	1	1310181.086	33.764	0.000
RESIDUAL	.615440E+08	1586	38804.550		

Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$

DEP VAR: RLUNG N: 1588 MULTIPLE R: 0.145 SQUARED MULTIPLE R: 0.021  
ADJUSTED SQUARED MULTIPLE R: 0.020 STANDARD ERROR OF ESTIMATE: 196.962

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	284.529	60.372	0.000	.	4.713	0.000
HEIGHT2	130.682	22.344	0.145	1.000	5.849	0.000

ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1327045.781	1	1327045.781	34.208	0.000
RESIDUAL	.615272E+08	1586	38793.917		

Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$

DEP VAR: RLUNG N: 1588 MULTIPLE R: 0.146 SQUARED MULTIPLE R: 0.021  
ADJUSTED SQUARED MULTIPLE R: 0.021 STANDARD ERROR OF ESTIMATE: 196.947

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	399.556	40.660	0.000	.	9.827	0.000
HEIGHT3	53.470	9.110	0.146	1.000	5.870	0.000

ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1336304.047	1	1336304.047	34.451	0.000
RESIDUAL	.615179E+08	1586	38788.079		

Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$

DEP VAR: RLUNG N: 1588 MULTIPLE R: 0.151 SQUARED MULTIPLE R: 0.023  
ADJUSTED SQUARED MULTIPLE R: 0.021 STANDARD ERROR OF ESTIMATE: 196.869

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-50.417	119.294	0.000	.	-0.423	0.673
WEIGHT	2.343	1.368	0.052	0.659	1.712	0.087
HEIGHT	333.026	89.505	0.114	0.659	3.721	0.000

ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1423787.290	2	711893.645	18.368	0.000
RESIDUAL	.614304E+08	1585	38757.357		

Table 48. Regression analysis of mass of the pancreas against body height and weight in normal Japanese males, 20-49 years.

Org. wt. =  $a$  BodyWeight +  $b$

DEP VAR: PANCRE N: 1643 MULTIPLE R: 0.136 SQUARED MULTIPLE R: 0.019  
ADJUSTED SQUARED MULTIPLE R: 0.018 STANDARD ERROR OF ESTIMATE: 53.736

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	36.808	18.045	0.000	.	2.040	0.042
WEIGHT	1.670	0.299	0.136	1.000	5.577	0.000

ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	89821.477	1	89821.477	31.107	0.000
RESIDUAL	4738410.473	1641	2887.514		

Org. wt. =  $a$  BodyHeight +  $b$

DEP VAR: PANCRE N: 1643 MULTIPLE R: 0.139 SQUARED MULTIPLE R: 0.019  
ADJUSTED SQUARED MULTIPLE R: 0.019 STANDARD ERROR OF ESTIMATE: 53.713

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-45.730	32.099	0.000	.	-1.425	0.154
HEIGHT	111.537	19.557	0.139	1.000	5.703	0.000

ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	93839.821	1	93839.821	32.526	0.000
RESIDUAL	4734392.129	1641	2885.065		

Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$

DEP VAR: PANCRE N: 1643 MULTIPLE R: 0.139 SQUARED MULTIPLE R: 0.019  
ADJUSTED SQUARED MULTIPLE R: 0.019 STANDARD ERROR OF ESTIMATE: 53.713

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	44.868	16.241	0.000	.	2.763	0.006
HEIGHT2	34.267	6.009	0.139	1.000	5.703	0.000

ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	93832.615	1	93832.615	32.524	0.000
RESIDUAL	4734399.335	1641	2885.070		

Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$

DEP VAR: PANCRE N: 1643 MULTIPLE R: 0.139 SQUARED MULTIPLE R: 0.019  
ADJUSTED SQUARED MULTIPLE R: 0.019 STANDARD ERROR OF ESTIMATE: 53.715

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	75.373	10.939	0.000	.	6.891	0.000
HEIGHT3	13.943	2.450	0.139	1.000	5.692	0.000

ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	93489.856	1	93489.856	32.402	0.000
RESIDUAL	4734742.094	1641	2885.279		

Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$

DEP VAR: PANCRE N: 1643 MULTIPLE R: 0.155 SQUARED MULTIPLE R: 0.024  
ADJUSTED SQUARED MULTIPLE R: 0.023 STANDARD ERROR OF ESTIMATE: 53.603

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-43.312	32.046	0.000	.	-1.352	0.177
WEIGHT	1.022	0.368	0.083	0.660	2.781	0.005
HEIGHT	72.593	24.021	0.091	0.660	3.022	0.003

ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	116062.115	2	58031.058	20.197	0.000
RESIDUAL	4712169.835	1640	2873.274		

**Table 49. Regression analysis of mass of the pituitary against body height and weight in normal Japanese males, 20-49 years.**

$$\text{Org. wt.} = a \text{ BodyWeight} + b$$

DEP VAR: PITUIT N: 1606 MULTIPLE R: 0.043 SQUARED MULTIPLE R: 0.002  
ADJUSTED SQUARED MULTIPLE R: 0.001 STANDARD ERROR OF ESTIMATE: 0.115

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.497	0.039	0.000	.	12.885	0.000
WEIGHT	0.001	0.001	0.043	1.000	1.712	0.087

ANALYSIS OF VARIANCE					
SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	0.039	1	0.039	2.930	0.087
RESIDUAL	21.130	1604	0.013		

$$\text{Org. wt.} = a \text{ BodyHeight} + b$$

DEP VAR: PITUIT N: 1606 MULTIPLE R: 0.091 SQUARED MULTIPLE R: 0.008  
ADJUSTED SQUARED MULTIPLE R: 0.008 STANDARD ERROR OF ESTIMATE: 0.114

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.311	0.069	0.000	.	4.536	0.000
HEIGHT	0.153	0.042	0.091	1.000	3.661	0.000

ANALYSIS OF VARIANCE					
SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	0.175	1	0.175	13.406	0.000
RESIDUAL	20.993	1604	0.013		

$$\text{Org. wt.} = a \text{ BodyHeight}^2 + b$$

DEP VAR: PITUIT N: 1606 MULTIPLE R: 0.090 SQUARED MULTIPLE R: 0.008  
ADJUSTED SQUARED MULTIPLE R: 0.007 STANDARD ERROR OF ESTIMATE: 0.114

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.438	0.035	0.000	.	12.603	0.000
HEIGHT2	0.046	0.013	0.090	1.000	3.604	0.000

ANALYSIS OF VARIANCE					
SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	0.170	1	0.170	12.989	0.000
RESIDUAL	20.998	1604	0.013		

$$\text{Org. wt.} = a \text{ BodyHeight}^3 + b$$

DEP VAR: PITUIT N: 1606 MULTIPLE R: 0.088 SQUARED MULTIPLE R: 0.008  
ADJUSTED SQUARED MULTIPLE R: 0.007 STANDARD ERROR OF ESTIMATE: 0.114

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.480	0.023	0.000	.	20.527	0.000
HEIGHT3	0.019	0.005	0.088	1.000	3.545	0.000

ANALYSIS OF VARIANCE					
SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	0.165	1	0.165	12.564	0.000
RESIDUAL	21.004	1604	0.013		

$$\text{Org. wt.} = a \text{ BodyHeight} + b \text{ BodyWeight} + c$$

DEP VAR: PITUIT N: 1606 MULTIPLE R: 0.092 SQUARED MULTIPLE R: 0.008  
ADJUSTED SQUARED MULTIPLE R: 0.007 STANDARD ERROR OF ESTIMATE: 0.114

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.310	0.069	0.000	.	4.510	0.000
WEIGHT	-0.000	0.001	-0.017	0.651	-0.554	0.580
HEIGHT	0.170	0.052	0.101	0.651	3.280	0.001

ANALYSIS OF VARIANCE					
SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	0.179	2	0.090	6.854	0.001
RESIDUAL	20.989	1603	0.013		

**Table 50. Regression analysis of mass of the spleen against body height and weight in normal Japanese males, 20-49 years.**

**Org. wt. =  $a$  BodyWeight +  $b$**

DEP VAR: SPLEEN N: 1615 MULTIPLE R: 0.114 SQUARED MULTIPLE R: 0.013  
ADJUSTED SQUARED MULTIPLE R: 0.012 STANDARD ERROR OF ESTIMATE: 64.640

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	36.488	21.939	0.000	.	1.663	0.096
WEIGHT	1.674	0.364	0.114	1.000	4.602	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	88474.869	1	88474.869	21.175	0.000
RESIDUAL	6739674.390	1613	4178.347		

**Org. wt. =  $a$  BodyHeight +  $b$**

DEP VAR: SPLEEN N: 1615 MULTIPLE R: 0.128 SQUARED MULTIPLE R: 0.016  
ADJUSTED SQUARED MULTIPLE R: 0.016 STANDARD ERROR OF ESTIMATE: 64.526

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-64.559	38.885	0.000	.	-1.660	0.097
HEIGHT	123.021	23.693	0.128	1.000	5.192	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	112246.740	1	112246.740	26.959	0.000
RESIDUAL	6715902.520	1613	4163.610		

**Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$**

DEP VAR: SPLEEN N: 1615 MULTIPLE R: 0.130 SQUARED MULTIPLE R: 0.017  
ADJUSTED SQUARED MULTIPLE R: 0.016 STANDARD ERROR OF ESTIMATE: 64.511

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	33.931	19.669	0.000	.	1.725	0.085
HEIGHT2	38.329	7.278	0.130	1.000	5.266	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	115417.293	1	115417.293	27.734	0.000
RESIDUAL	6712731.966	1613	4161.644		

**Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$**

DEP VAR: SPLEEN N: 1615 MULTIPLE R: 0.131 SQUARED MULTIPLE R: 0.017  
ADJUSTED SQUARED MULTIPLE R: 0.017 STANDARD ERROR OF ESTIMATE: 64.502

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	67.349	13.244	0.000	.	5.085	0.000
HEIGHT3	15.755	2.966	0.131	1.000	5.311	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	117353.501	1	117353.501	28.207	0.000
RESIDUAL	6710795.759	1613	4160.444		

**Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$**

DEP VAR: SPLEEN N: 1615 MULTIPLE R: 0.137 SQUARED MULTIPLE R: 0.019  
ADJUSTED SQUARED MULTIPLE R: 0.018 STANDARD ERROR OF ESTIMATE: 64.471

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-62.462	38.867	0.000	.	-1.607	0.108
WEIGHT	0.868	0.447	0.059	0.658	1.942	0.052
HEIGHT	89.892	29.182	0.094	0.658	3.080	0.002

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	127915.626	2	63957.813	15.388	0.000
RESIDUAL	6700233.634	1612	4156.472		

**Table 51a. Regression analysis of mass of the testis, left against body height and weight in normal Japanese males, 20-49 years.**

**Org. wt. =  $a$  BodyWeight +  $b$**

DEP VAR: LTEST N: 1639 MULTIPLE R: 0.158 SQUARED MULTIPLE R: 0.025  
ADJUSTED SQUARED MULTIPLE R: 0.024 STANDARD ERROR OF ESTIMATE: 3.889

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	9.391	1.292	0.000	.	7.271	0.000
WEIGHT	0.139	0.021	0.158	1.000	6.485	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	635.938	1	635.938	42.053	0.000
RESIDUAL	24754.922	1637	15.122		

**Org. wt. =  $a$  BodyHeight +  $b$**

DEP VAR: LTEST N: 1639 MULTIPLE R: 0.204 SQUARED MULTIPLE R: 0.042  
ADJUSTED SQUARED MULTIPLE R: 0.041 STANDARD ERROR OF ESTIMATE: 3.855

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-1.667	2.303	0.000	.	-0.724	0.469
HEIGHT	11.836	1.403	0.204	1.000	8.436	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1057.832	1	1057.832	71.165	0.000
RESIDUAL	24333.028	1637	14.864		

**Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$**

DEP VAR: LTEST N: 1639 MULTIPLE R: 0.205 SQUARED MULTIPLE R: 0.042  
ADJUSTED SQUARED MULTIPLE R: 0.042 STANDARD ERROR OF ESTIMATE: 3.854

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	7.897	1.164	0.000	.	6.784	0.000
HEIGHT2	3.655	0.431	0.205	1.000	8.486	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1069.788	1	1069.788	72.005	0.000
RESIDUAL	24321.072	1637	14.857		

**Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$**

DEP VAR: LTEST N: 1639 MULTIPLE R: 0.206 SQUARED MULTIPLE R: 0.042  
ADJUSTED SQUARED MULTIPLE R: 0.042 STANDARD ERROR OF ESTIMATE: 3.854

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	11.130	0.784	0.000	.	14.203	0.000
HEIGHT3	1.492	0.175	0.206	1.000	8.503	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1073.917	1	1073.917	72.295	0.000
RESIDUAL	24316.943	1637	14.855		

**Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$**

DEP VAR: LTEST N: 1639 MULTIPLE R: 0.210 SQUARED MULTIPLE R: 0.044  
ADJUSTED SQUARED MULTIPLE R: 0.043 STANDARD ERROR OF ESTIMATE: 3.852

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-1.516	2.302	0.000	.	-0.659	0.510
WEIGHT	0.052	0.026	0.060	0.662	2.012	0.044
HEIGHT	9.820	1.723	0.169	0.662	5.700	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1117.907	2	558.953	37.674	0.000
RESIDUAL	24272.953	1636	14.837		

Table 51b. Regression analysis of mass of the testis, right against body height and weight in normal Japanese females, 20-49 years.

Org. wt. =  $a$  BodyWeight +  $b$

DEP VAR: RTEST N: 1636 MULTIPLE R: 0.140 SQUARED MULTIPLE R: 0.020  
ADJUSTED SQUARED MULTIPLE R: 0.019 STANDARD ERROR OF ESTIMATE: 4.070

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	10.830	1.354	0.000	.	7.999	0.000
WEIGHT	0.129	0.022	0.140	1.000	5.735	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	544.814	1	544.814	32.891	0.000
RESIDUAL	27065.530	1634	16.564		

Org. wt. =  $a$  BodyHeight +  $b$

DEP VAR: RTEST N: 1636 MULTIPLE R: 0.184 SQUARED MULTIPLE R: 0.034  
ADJUSTED SQUARED MULTIPLE R: 0.033 STANDARD ERROR OF ESTIMATE: 4.041

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.350	2.414	0.000	.	0.145	0.885
HEIGHT	11.113	1.471	0.184	1.000	7.556	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	932.254	1	932.254	57.099	0.000
RESIDUAL	26678.090	1634	16.327		

Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$

DEP VAR: RTEST N: 1636 MULTIPLE R: 0.185 SQUARED MULTIPLE R: 0.034  
ADJUSTED SQUARED MULTIPLE R: 0.034 STANDARD ERROR OF ESTIMATE: 4.040

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	9.317	1.220	0.000	.	7.636	0.000
HEIGHT2	3.436	0.451	0.185	1.000	7.611	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	945.398	1	945.398	57.933	0.000
RESIDUAL	26664.946	1634	16.319		

Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$

DEP VAR: RTEST N: 1636 MULTIPLE R: 0.186 SQUARED MULTIPLE R: 0.034  
ADJUSTED SQUARED MULTIPLE R: 0.034 STANDARD ERROR OF ESTIMATE: 4.039

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	12.347	0.821	0.000	.	15.034	0.000
HEIGHT3	1.405	0.184	0.186	1.000	7.637	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	951.657	1	951.657	58.330	0.000
RESIDUAL	26658.687	1634	16.315		

Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$

DEP VAR: RTEST N: 1636 MULTIPLE R: 0.188 SQUARED MULTIPLE R: 0.035  
ADJUSTED SQUARED MULTIPLE R: 0.034 STANDARD ERROR OF ESTIMATE: 4.038

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.482	2.413	0.000	.	0.200	0.842
WEIGHT	0.046	0.027	0.051	0.661	1.697	0.090
HEIGHT	9.328	1.807	0.154	0.661	5.161	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	979.206	2	489.603	30.022	0.000
RESIDUAL	26631.138	1633	16.308		

**Table 52. Regression analysis of mass of the thymus against body height and weight in normal Japanese males, 20-49 years.**

$$\text{Org. wt.} = a \text{ BodyWeight} + b$$

DEP VAR: THYMUS N: 497 MULTIPLE R: 0.149 SQUARED MULTIPLE R: 0.022  
ADJUSTED SQUARED MULTIPLE R: 0.020 STANDARD ERROR OF ESTIMATE: 15.366

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-0.269	9.607	0.000	.	-0.028	0.978
WEIGHT	0.531	0.158	0.149	1.000	3.349	0.001

ANALYSIS OF VARIANCE					
SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	2648.890	1	2648.890	11.218	0.001
RESIDUAL	116880.881	495	236.123		

$$\text{Org. wt.} = a \text{ BodyHeight} + b$$

DEP VAR: THYMUS N: 497 MULTIPLE R: 0.168 SQUARED MULTIPLE R: 0.028  
ADJUSTED SQUARED MULTIPLE R: 0.026 STANDARD ERROR OF ESTIMATE: 15.319

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-31.777	16.787	0.000	.	-1.893	0.059
HEIGHT	38.577	10.173	0.168	1.000	3.792	0.000

ANALYSIS OF VARIANCE					
SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	3374.229	1	3374.229	14.379	0.000
RESIDUAL	116155.542	495	234.658		

$$\text{Org. wt.} = a \text{ BodyHeight}^2 + b$$

DEP VAR: THYMUS N: 497 MULTIPLE R: 0.169 SQUARED MULTIPLE R: 0.029  
ADJUSTED SQUARED MULTIPLE R: 0.027 STANDARD ERROR OF ESTIMATE: 15.316

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-0.319	8.461	0.000	.	-0.038	0.970
HEIGHT2	11.805	3.097	0.169	1.000	3.812	0.000

ANALYSIS OF VARIANCE					
SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	3408.494	1	3408.494	14.530	0.000
RESIDUAL	116121.276	495	234.588		

$$\text{Org. wt.} = a \text{ BodyHeight}^3 + b$$

DEP VAR: THYMUS N: 497 MULTIPLE R: 0.169 SQUARED MULTIPLE R: 0.029  
ADJUSTED SQUARED MULTIPLE R: 0.027 STANDARD ERROR OF ESTIMATE: 15.315

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	10.223	5.687	0.000	.	1.798	0.073
HEIGHT3	4.796	1.253	0.169	1.000	3.826	0.000

ANALYSIS OF VARIANCE					
SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	3433.944	1	3433.944	14.641	0.000
RESIDUAL	116095.826	495	234.537		

$$\text{Org. wt.} = a \text{ BodyHeight} + b \text{ BodyWeight} + c$$

DEP VAR: THYMUS N: 497 MULTIPLE R: 0.173 SQUARED MULTIPLE R: 0.030  
ADJUSTED SQUARED MULTIPLE R: 0.026 STANDARD ERROR OF ESTIMATE: 15.321

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-28.479	17.179	0.000	.	-1.658	0.098
WEIGHT	0.207	0.228	0.058	0.482	0.907	0.365
HEIGHT	29.000	14.660	0.126	0.482	1.978	0.048

ANALYSIS OF VARIANCE					
SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	3567.508	2	1783.754	7.599	0.001
RESIDUAL	115962.263	494	234.741		

Table 53. Regression analysis of mass of the thyroid against body height and weight in normal Japanese males, 20-49 years.

$$\text{Org. wt.} = a \text{ BodyWeight} + b$$

DEP VAR: THYRD N: 1654 MULTIPLE R: 0.092 SQUARED MULTIPLE R: 0.008  
ADJUSTED SQUARED MULTIPLE R: 0.008 STANDARD ERROR OF ESTIMATE: 5.135

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	12.510	1.699	0.000	.	7.365	0.000
WEIGHT	0.106	0.028	0.092	1.000	3.759	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	372.495	1	372.495	14.129	0.000
RESIDUAL	43553.590	1652	26.364		

$$\text{Org. wt.} = a \text{ BodyHeight} + b$$

DEP VAR: THYRD N: 1654 MULTIPLE R: 0.135 SQUARED MULTIPLE R: 0.018  
ADJUSTED SQUARED MULTIPLE R: 0.018 STANDARD ERROR OF ESTIMATE: 5.109

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	2.136	3.031	0.000	.	0.705	0.481
HEIGHT	10.212	1.847	0.135	1.000	5.528	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	797.890	1	797.890	30.563	0.000
RESIDUAL	43128.195	1652	26.107		

$$\text{Org. wt.} = a \text{ BodyHeight}^2 + b$$

DEP VAR: THYRD N: 1654 MULTIPLE R: 0.135 SQUARED MULTIPLE R: 0.018  
ADJUSTED SQUARED MULTIPLE R: 0.018 STANDARD ERROR OF ESTIMATE: 5.109

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	10.431	1.533	0.000	.	6.803	0.000
HEIGHT2	3.137	0.568	0.135	1.000	5.527	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	797.530	1	797.530	30.549	0.000
RESIDUAL	43128.556	1652	26.107		

$$\text{Org. wt.} = a \text{ BodyHeight}^3 + b$$

DEP VAR: THYRD N: 1654 MULTIPLE R: 0.134 SQUARED MULTIPLE R: 0.018  
ADJUSTED SQUARED MULTIPLE R: 0.017 STANDARD ERROR OF ESTIMATE: 5.110

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	13.224	1.033	0.000	.	12.807	0.000
HEIGHT3	1.276	0.231	0.134	1.000	5.517	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	794.548	1	794.548	30.432	0.000
RESIDUAL	43131.537	1652	26.109		

$$\text{Org. wt.} = a \text{ BodyHeight} + b \text{ BodyWeight} + c$$

DEP VAR: THYRD N: 1654 MULTIPLE R: 0.136 SQUARED MULTIPLE R: 0.018  
ADJUSTED SQUARED MULTIPLE R: 0.017 STANDARD ERROR OF ESTIMATE: 5.110

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	2.195	3.033	0.000	.	0.724	0.469
WEIGHT	0.024	0.034	0.021	0.664	0.704	0.481
HEIGHT	9.287	2.267	0.123	0.664	4.097	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	810.847	2	405.424	15.525	0.000
RESIDUAL	43115.238	1651	26.115		



Table 54a. Regression analysis of mass of the adrenal, left against body height and weight in normal Japanese males, 0-49 years.

$$\text{Org. wt.} = a \text{ BodyWeight} + b$$

DEP VAR: LADRE N: 2187 MULTIPLE R: 0.725 SQUARED MULTIPLE R: 0.526  
ADJUSTED SQUARED MULTIPLE R: 0.525 STANDARD ERROR OF ESTIMATE: 1.738

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1.378	0.110	0.000	.	12.548	0.000
WEIGHT	0.098	0.002	0.725	1.000	49.208	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	7316.914	1	7316.914	2421.443	0.000
RESIDUAL	6602.450	2185	3.022		

$$\text{Org. wt.} = a \text{ BodyHeight} + b$$

DEP VAR: LADRE N: 2187 MULTIPLE R: 0.708 SQUARED MULTIPLE R: 0.502  
ADJUSTED SQUARED MULTIPLE R: 0.502 STANDARD ERROR OF ESTIMATE: 1.781

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-1.935	0.183	0.000	.	-10.571	0.000
HEIGHT	5.582	0.119	0.708	1.000	46.920	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	6985.785	1	6985.785	2201.452	0.000
RESIDUAL	6933.579	2185	3.173		

$$\text{Org. wt.} = a \text{ BodyHeight}^2 + b$$

DEP VAR: LADRE N: 2187 MULTIPLE R: 0.716 SQUARED MULTIPLE R: 0.513  
ADJUSTED SQUARED MULTIPLE R: 0.513 STANDARD ERROR OF ESTIMATE: 1.762

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.901	0.122	0.000	.	7.388	0.000
HEIGHT2	2.350	0.049	0.716	1.000	47.954	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	7137.493	1	7137.493	2299.576	0.000
RESIDUAL	6781.870	2185	3.104		

$$\text{Org. wt.} = a \text{ BodyHeight}^3 + b$$

DEP VAR: LADRE N: 2187 MULTIPLE R: 0.714 SQUARED MULTIPLE R: 0.509  
ADJUSTED SQUARED MULTIPLE R: 0.509 STANDARD ERROR OF ESTIMATE: 1.768

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1.850	0.104	0.000	.	17.782	0.000
HEIGHT3	1.212	0.025	0.714	1.000	47.609	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	7087.223	1	7087.223	2266.578	0.000
RESIDUAL	6832.141	2185	3.127		

$$\text{Org. wt.} = a \text{ BodyHeight} + b \text{ BodyWeight} + c$$

DEP VAR: LADRE N: 2187 MULTIPLE R: 0.726 SQUARED MULTIPLE R: 0.527  
ADJUSTED SQUARED MULTIPLE R: 0.527 STANDARD ERROR OF ESTIMATE: 1.736

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.653	0.299	0.000	.	2.188	0.029
WEIGHT	0.080	0.007	0.588	0.073	10.802	0.000
HEIGHT	1.119	0.429	0.142	0.073	2.609	0.009

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	7337.426	2	3668.713	1217.342	0.000
RESIDUAL	6581.938	2184	3.014		

Table 54b. Regression analysis of mass of the adrenal, right against body height and weight in normal Japanese males, 0-49 years.

$$\text{Org. wt.} = a \text{ BodyWeight} + b$$

DEP VAR: RADRE N: 2190 MULTIPLE R: 0.639 SQUARED MULTIPLE R: 0.409  
ADJUSTED SQUARED MULTIPLE R: 0.408 STANDARD ERROR OF ESTIMATE: 1.997

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1.444	0.127	0.000	.	11.353	0.000
WEIGHT	0.090	0.002	0.639	1.000	38.884	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	6028.910	1	6028.910	1511.966	0.000
RESIDUAL	8724.572	2188	3.987		

$$\text{Org. wt.} = a \text{ BodyHeight} + b$$

DEP VAR: RADRE N: 2190 MULTIPLE R: 0.629 SQUARED MULTIPLE R: 0.395  
ADJUSTED SQUARED MULTIPLE R: 0.395 STANDARD ERROR OF ESTIMATE: 2.019

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-1.657	0.210	0.000	.	-7.902	0.000
HEIGHT	5.147	0.136	0.629	1.000	37.821	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	5832.233	1	5832.233	1430.397	0.000
RESIDUAL	8921.250	2188	4.077		

$$\text{Org. wt.} = a \text{ BodyHeight}^2 + b$$

DEP VAR: RADRE N: 2190 MULTIPLE R: 0.633 SQUARED MULTIPLE R: 0.401  
ADJUSTED SQUARED MULTIPLE R: 0.400 STANDARD ERROR OF ESTIMATE: 2.010

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.987	0.141	0.000	.	7.027	0.000
HEIGHT <sup>2</sup>	2.155	0.056	0.633	1.000	38.240	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	5910.149	1	5910.149	1462.277	0.000
RESIDUAL	8843.334	2188	4.042		

$$\text{Org. wt.} = a \text{ BodyHeight}^3 + b$$

DEP VAR: RADRE N: 2190 MULTIPLE R: 0.628 SQUARED MULTIPLE R: 0.394  
ADJUSTED SQUARED MULTIPLE R: 0.394 STANDARD ERROR OF ESTIMATE: 2.021

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1.882	0.120	0.000	.	15.702	0.000
HEIGHT <sup>3</sup>	1.105	0.029	0.628	1.000	37.735	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	5816.335	1	5816.335	1423.960	0.000
RESIDUAL	8937.147	2188	4.085		

$$\text{Org. wt.} = a \text{ BodyHeight} + b \text{ BodyWeight} + c$$

DEP VAR: RADRE N: 2190 MULTIPLE R: 0.641 SQUARED MULTIPLE R: 0.411  
ADJUSTED SQUARED MULTIPLE R: 0.411 STANDARD ERROR OF ESTIMATE: 1.993

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.463	0.345	0.000	.	1.342	0.180
WEIGHT	0.065	0.008	0.462	0.074	7.671	0.000
HEIGHT	1.506	0.493	0.184	0.074	3.054	0.002

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	6065.966	2	3032.983	763.525	0.000
RESIDUAL	8687.517	2187	3.972		

Table 55a. Regression analysis of mass of the brain against body height and weight in normal Japanese males, 0-49 years (subjects showing body weight below 13 kg).

$$\text{Org. wt.} = a \text{ BodyWeight} + b$$

DEP VAR: BRAIN N: 238 MULTIPLE R: 0.906 SQUARED MULTIPLE R: 0.820  
ADJUSTED SQUARED MULTIPLE R: 0.819 STANDARD ERROR OF ESTIMATE: 116.848

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	96.417	24.721	0.000	.	3.900	0.000
WEIGHT	98.360	3.000	0.906	1.000	32.789	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.146788E+08	1	.146788E+08	1075.091	0.000
RESIDUAL	3222242.964	236	13653.572		

$$\text{Org. wt.} = a \text{ BodyHeight} + b$$

DEP VAR: BRAIN N: 238 MULTIPLE R: 0.932 SQUARED MULTIPLE R: 0.869  
ADJUSTED SQUARED MULTIPLE R: 0.868 STANDARD ERROR OF ESTIMATE: 99.729

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-665.601	39.316	0.000	.	-16.930	0.000
HEIGHT	2260.469	57.161	0.932	1.000	39.546	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.155539E+08	1	.155539E+08	1563.859	0.000
RESIDUAL	2347213.735	236	9945.821		

$$\text{Org. wt.} = a \text{ BodyHeight}^2 + b$$

DEP VAR: BRAIN N: 238 MULTIPLE R: 0.924 SQUARED MULTIPLE R: 0.854  
ADJUSTED SQUARED MULTIPLE R: 0.853 STANDARD ERROR OF ESTIMATE: 105.289

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	87.743	22.094	0.000	.	3.971	0.000
HEIGHT2	1649.328	44.418	0.924	1.000	37.132	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.152848E+08	1	.152848E+08	1378.769	0.000
RESIDUAL	2616258.900	236	11085.843		

$$\text{Org. wt.} = a \text{ BodyHeight}^3 + b$$

DEP VAR: BRAIN N: 238 MULTIPLE R: 0.909 SQUARED MULTIPLE R: 0.827  
ADJUSTED SQUARED MULTIPLE R: 0.826 STANDARD ERROR OF ESTIMATE: 114.668

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	343.463	17.313	0.000	.	19.839	0.000
HEIGHT3	1550.674	46.223	0.909	1.000	33.547	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.147980E+08	1	.147980E+08	1125.431	0.000
RESIDUAL	3103097.236	236	13148.717		

$$\text{Org. wt.} = a \text{ BodyHeight} + b \text{ BodyWeight} + c$$

DEP VAR: BRAIN N: 238 MULTIPLE R: 0.932 SQUARED MULTIPLE R: 0.869  
ADJUSTED SQUARED MULTIPLE R: 0.868 STANDARD ERROR OF ESTIMATE: 99.840

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-618.351	78.960	0.000	.	-7.831	0.000
WEIGHT	6.946	10.062	0.064	0.065	0.690	0.491
HEIGHT	2110.513	224.649	0.870	0.065	9.395	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.155586E+08	2	7779306.449	780.433	0.000
RESIDUAL	2342464.098	235	9967.932		

**Table 55b. Regression analysis of mass of the brain against body height and weight in normal Japanese males, 0-49 years (subjects showing body weight 13 kg and higher).**

$$\text{Org. wt.} = a \text{ BodyWeight} + b$$

DEP VAR: BRAIN N: 1965 MULTIPLE R: 0.156 SQUARED MULTIPLE R: 0.024  
ADJUSTED SQUARED MULTIPLE R: 0.024 STANDARD ERROR OF ESTIMATE: 116.876

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1350.128	13.467	0.000	.	100.254	0.000
WEIGHT	1.628	0.232	0.156	1.000	7.017	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	672501.876	1	672501.876	49.231	0.000
RESIDUAL	.268147E+08	1963	13660.042		

$$\text{Org. wt.} = a \text{ BodyHeight} + b$$

DEP VAR: BRAIN N: 1965 MULTIPLE R: 0.245 SQUARED MULTIPLE R: 0.060  
ADJUSTED SQUARED MULTIPLE R: 0.059 STANDARD ERROR OF ESTIMATE: 114.741

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1134.742	27.692	0.000	.	40.977	0.000
HEIGHT	192.123	17.195	0.245	1.000	11.173	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1643512.997	1	1643512.997	124.836	0.000
RESIDUAL	.258437E+08	1963	13165.385		

$$\text{Org. wt.} = a \text{ BodyHeight}^2 + b$$

DEP VAR: BRAIN N: 1965 MULTIPLE R: 0.256 SQUARED MULTIPLE R: 0.066  
ADJUSTED SQUARED MULTIPLE R: 0.065 STANDARD ERROR OF ESTIMATE: 114.391

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1258.013	15.961	0.000	.	78.819	0.000
HEIGHT2	71.246	6.073	0.256	1.000	11.731	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1800853.549	1	1800853.549	137.625	0.000
RESIDUAL	.256863E+08	1963	13085.232		

$$\text{Org. wt.} = a \text{ BodyHeight}^3 + b$$

DEP VAR: BRAIN N: 1965 MULTIPLE R: 0.266 SQUARED MULTIPLE R: 0.071  
ADJUSTED SQUARED MULTIPLE R: 0.070 STANDARD ERROR OF ESTIMATE: 114.065

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1299.308	12.009	0.000	.	108.198	0.000
HEIGHT3	33.983	2.778	0.266	1.000	12.232	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1946849.454	1	1946849.454	149.633	0.000
RESIDUAL	.255403E+08	1963	13010.858		

$$\text{Org. wt.} = a \text{ BodyHeight} + b \text{ BodyWeight} + c$$

DEP VAR: BRAIN N: 1965 MULTIPLE R: 0.293 SQUARED MULTIPLE R: 0.086  
ADJUSTED SQUARED MULTIPLE R: 0.085 STANDARD ERROR OF ESTIMATE: 113.153

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	914.910	40.021	0.000	.	22.861	0.000
WEIGHT	-4.113	0.547	-0.395	0.168	-7.514	0.000
HEIGHT	475.212	41.315	0.605	0.168	11.502	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	2366418.260	2	1183209.130	92.412	0.000
RESIDUAL	.251207E+08	1962	12803.642		

Table 56. Regression analysis of mass of the heart against body height and weight in normal Japanese males, 0-49 years.

$$\text{Org. wt.} = a \text{ BodyWeight} + b$$

DEP VAR: HEART N: 2207 MULTIPLE R: 0.801 SQUARED MULTIPLE R: 0.642  
ADJUSTED SQUARED MULTIPLE R: 0.642 STANDARD ERROR OF ESTIMATE: 86.786

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-0.638	5.486	0.000	.	-0.116	0.907
WEIGHT	6.278	0.100	0.801	1.000	62.876	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.297766E+08	1	.297766E+08	3953.409	0.000
RESIDUAL	.166078E+08	2205	7531.889		

$$\text{Org. wt.} = a \text{ BodyHeight} + b$$

DEP VAR: HEART N: 2207 MULTIPLE R: 0.786 SQUARED MULTIPLE R: 0.618  
ADJUSTED SQUARED MULTIPLE R: 0.618 STANDARD ERROR OF ESTIMATE: 89.590

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-212.147	9.172	0.000	.	-23.130	0.000
HEIGHT	356.037	5.956	0.786	1.000	59.783	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.286862E+08	1	.286862E+08	3573.977	0.000
RESIDUAL	.176982E+08	2205	8026.411		

$$\text{Org. wt.} = a \text{ BodyHeight}^2 + b$$

DEP VAR: HEART N: 2207 MULTIPLE R: 0.791 SQUARED MULTIPLE R: 0.626  
ADJUSTED SQUARED MULTIPLE R: 0.626 STANDARD ERROR OF ESTIMATE: 88.698

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-30.327	6.133	0.000	.	-4.945	0.000
HEIGHT2	149.472	2.460	0.791	1.000	60.752	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.290369E+08	1	.290369E+08	3690.808	0.000
RESIDUAL	.173475E+08	2205	7867.361		

$$\text{Org. wt.} = a \text{ BodyHeight}^3 + b$$

DEP VAR: HEART N: 2207 MULTIPLE R: 0.785 SQUARED MULTIPLE R: 0.617  
ADJUSTED SQUARED MULTIPLE R: 0.617 STANDARD ERROR OF ESTIMATE: 89.791

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	30.863	5.282	0.000	.	5.843	0.000
HEIGHT3	76.845	1.290	0.785	1.000	59.566	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.286067E+08	1	.286067E+08	3548.136	0.000
RESIDUAL	.177777E+08	2205	8062.463		

$$\text{Org. wt.} = a \text{ BodyHeight} + b \text{ BodyWeight} + c$$

DEP VAR: HEART N: 2207 MULTIPLE R: 0.803 SQUARED MULTIPLE R: 0.645  
ADJUSTED SQUARED MULTIPLE R: 0.645 STANDARD ERROR OF ESTIMATE: 86.441

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-60.033	14.795	0.000	.	-4.058	0.000
WEIGHT	4.740	0.369	0.605	0.072	12.830	0.000
HEIGHT	92.233	21.350	0.204	0.072	4.320	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.299161E+08	2	.149580E+08	2001.870	0.000
RESIDUAL	.164684E+08	2204	7472.035		

Table 57a. Regression analysis of mass of the kidney, left against body height and weight in normal Japanese males, 0-49 years.

Org. wt. =  $a$  BodyWeight +  $b$

DEP VAR: LKIDY N: 2210 MULTIPLE R: 0.830 SQUARED MULTIPLE R: 0.689  
ADJUSTED SQUARED MULTIPLE R: 0.689 STANDARD ERROR OF ESTIMATE: 31.732

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	12.102	1.996	0.000	.	6.064	0.000
WEIGHT	2.542	0.036	0.830	1.000	69.961	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	4928309.930	1	4928309.930	4894.482	0.000
RESIDUAL	2223260.484	2208	1006.911		

Org. wt. =  $a$  BodyHeight +  $b$

DEP VAR: LKIDY N: 2210 MULTIPLE R: 0.827 SQUARED MULTIPLE R: 0.683  
ADJUSTED SQUARED MULTIPLE R: 0.683 STANDARD ERROR OF ESTIMATE: 32.030

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-76.637	3.262	0.000	.	-23.497	0.000
HEIGHT	146.283	2.120	0.827	1.000	69.013	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	4886323.606	1	4886323.606	4762.838	0.000
RESIDUAL	2265246.808	2208	1025.927		

Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$

DEP VAR: LKIDY N: 2210 MULTIPLE R: 0.829 SQUARED MULTIPLE R: 0.688  
ADJUSTED SQUARED MULTIPLE R: 0.688 STANDARD ERROR OF ESTIMATE: 31.797

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-1.648	2.188	0.000	.	-0.753	0.451
HEIGHT2	61.299	0.879	0.829	1.000	69.752	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	4919140.694	1	4919140.694	4865.310	0.000
RESIDUAL	2232429.720	2208	1011.064		

Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$

DEP VAR: LKIDY N: 2210 MULTIPLE R: 0.822 SQUARED MULTIPLE R: 0.675  
ADJUSTED SQUARED MULTIPLE R: 0.675 STANDARD ERROR OF ESTIMATE: 32.425

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	23.568	1.899	0.000	.	12.411	0.000
HEIGHT3	31.485	0.465	0.822	1.000	67.780	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	4830141.678	1	4830141.678	4594.133	0.000
RESIDUAL	2321428.736	2208	1051.372		

Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$

DEP VAR: LKIDY N: 2210 MULTIPLE R: 0.836 SQUARED MULTIPLE R: 0.699  
ADJUSTED SQUARED MULTIPLE R: 0.699 STANDARD ERROR OF ESTIMATE: 31.214

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-30.522	5.305	0.000	.	-5.754	0.000
WEIGHT	1.439	0.132	0.470	0.073	10.858	0.000
HEIGHT	66.226	7.657	0.374	0.073	8.649	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	5001202.519	2	2500601.260	2566.457	0.000
RESIDUAL	2150367.895	2207	974.340		

Table 57b. Regression analysis of mass of the kidney, right against body height and weight in normal Japanese males, 0-49 years.

$$\text{Org. wt.} = a \text{ BodyWeight} + b$$

DEP VAR: RKIDY N: 2216 MULTIPLE R: 0.832 SQUARED MULTIPLE R: 0.692  
ADJUSTED SQUARED MULTIPLE R: 0.692 STANDARD ERROR OF ESTIMATE: 29.347

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	13.210	1.843	0.000	.	7.169	0.000
WEIGHT	2.369	0.034	0.832	1.000	70.611	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	4294019.191	1	4294019.191	4985.878	0.000
RESIDUAL	1906777.033	2214	861.236		

$$\text{Org. wt.} = a \text{ BodyHeight} + b$$

DEP VAR: RKIDY N: 2216 MULTIPLE R: 0.828 SQUARED MULTIPLE R: 0.685  
ADJUSTED SQUARED MULTIPLE R: 0.685 STANDARD ERROR OF ESTIMATE: 29.684

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-69.172	3.016	0.000	.	-22.936	0.000
HEIGHT	136.128	1.960	0.828	1.000	69.449	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	4249912.548	1	4249912.548	4823.100	0.000
RESIDUAL	1950883.676	2214	881.158		

$$\text{Org. wt.} = a \text{ BodyHeight}^2 + b$$

DEP VAR: RKIDY N: 2216 MULTIPLE R: 0.829 SQUARED MULTIPLE R: 0.687  
ADJUSTED SQUARED MULTIPLE R: 0.686 STANDARD ERROR OF ESTIMATE: 29.625

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.910	2.034	0.000	.	0.448	0.655
HEIGHT2	56.915	0.817	0.829	1.000	69.651	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	4257671.863	1	4257671.863	4851.200	0.000
RESIDUAL	1943124.361	2214	877.653		

$$\text{Org. wt.} = a \text{ BodyHeight}^3 + b$$

DEP VAR: RKIDY N: 2216 MULTIPLE R: 0.819 SQUARED MULTIPLE R: 0.671  
ADJUSTED SQUARED MULTIPLE R: 0.671 STANDARD ERROR OF ESTIMATE: 30.354

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	24.557	1.774	0.000	.	13.840	0.000
HEIGHT3	29.172	0.434	0.819	1.000	67.201	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	4160881.466	1	4160881.466	4515.969	0.000
RESIDUAL	2039914.758	2214	921.371		

$$\text{Org. wt.} = a \text{ BodyHeight} + b \text{ BodyWeight} + c$$

DEP VAR: RKIDY N: 2216 MULTIPLE R: 0.838 SQUARED MULTIPLE R: 0.702  
ADJUSTED SQUARED MULTIPLE R: 0.702 STANDARD ERROR OF ESTIMATE: 28.889

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-25.350	4.903	0.000	.	-5.171	0.000
WEIGHT	1.369	0.123	0.481	0.072	11.159	0.000
HEIGHT	59.984	7.085	0.365	0.072	8.466	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	4353835.777	2	2176917.889	2608.350	0.000
RESIDUAL	1846960.447	2213	834.596		

Table 58. Regression analysis of mass of the liver against body height and weight in normal Japanese males, 0-49 years.

$$\text{Org. wt.} = a \text{ BodyWeight} + b$$

DEP VAR: LIVER N: 2209 MULTIPLE R: 0.803 SQUARED MULTIPLE R: 0.644  
ADJUSTED SQUARED MULTIPLE R: 0.644 STANDARD ERROR OF ESTIMATE: 327.615

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	180.532	20.525	0.000	.	8.796	0.000
WEIGHT	23.632	0.374	0.803	1.000	63.200	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.428705E+09	1	.428705E+09	3994.207	0.000
RESIDUAL	.236881E+09	2207	107331.786		

$$\text{Org. wt.} = a \text{ BodyHeight} + b$$

DEP VAR: LIVER N: 2209 MULTIPLE R: 0.805 SQUARED MULTIPLE R: 0.649  
ADJUSTED SQUARED MULTIPLE R: 0.648 STANDARD ERROR OF ESTIMATE: 325.539

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-654.911	32.942	0.000	.	-19.881	0.000
HEIGHT	1366.629	21.412	0.805	1.000	63.824	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.431698E+09	1	.431698E+09	4073.548	0.000
RESIDUAL	.233889E+09	2207	105975.872		

$$\text{Org. wt.} = a \text{ BodyHeight}^2 + b$$

DEP VAR: LIVER N: 2209 MULTIPLE R: 0.808 SQUARED MULTIPLE R: 0.653  
ADJUSTED SQUARED MULTIPLE R: 0.653 STANDARD ERROR OF ESTIMATE: 323.562

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	44.529	22.146	0.000	.	2.011	0.044
HEIGHT2	572.937	8.893	0.808	1.000	64.425	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.434531E+09	1	.434531E+09	4150.548	0.000
RESIDUAL	.231056E+09	2207	104692.348		

$$\text{Org. wt.} = a \text{ BodyHeight}^3 + b$$

DEP VAR: LIVER N: 2209 MULTIPLE R: 0.801 SQUARED MULTIPLE R: 0.642  
ADJUSTED SQUARED MULTIPLE R: 0.642 STANDARD ERROR OF ESTIMATE: 328.440

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	278.034	19.152	0.000	.	14.517	0.000
HEIGHT3	294.725	4.682	0.801	1.000	62.953	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.427511E+09	1	.427511E+09	3963.093	0.000
RESIDUAL	.238076E+09	2207	107873.020		

$$\text{Org. wt.} = a \text{ BodyHeight} + b \text{ BodyWeight} + c$$

DEP VAR: LIVER N: 2209 MULTIPLE R: 0.811 SQUARED MULTIPLE R: 0.658  
ADJUSTED SQUARED MULTIPLE R: 0.658 STANDARD ERROR OF ESTIMATE: 321.047

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-306.496	54.557	0.000	.	-5.618	0.000
WEIGHT	10.919	1.374	0.371	0.071	7.949	0.000
HEIGHT	760.182	79.157	0.448	0.071	9.603	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.438211E+09	2	.219106E+09	2125.766	0.000
RESIDUAL	.227375E+09	2206	103071.365		



**Table 59a. Regression analysis of mass of the lung, left against body height and weight in normal Japanese males, 0-49 years.**

$$\text{Org. wt.} = a \text{ BodyWeight} + b$$

DEP VAR: LLUNG N: 2176 MULTIPLE R: 0.756 SQUARED MULTIPLE R: 0.571  
ADJUSTED SQUARED MULTIPLE R: 0.571 STANDARD ERROR OF ESTIMATE: 140.483

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	8.291	8.934	0.000	.	0.928	0.353
WEIGHT	8.750	0.163	0.756	1.000	53.811	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.571466E+08	1	.571466E+08	2895.627	0.000
RESIDUAL	.429049E+08	2174	19735.482		

$$\text{Org. wt.} = a \text{ BodyHeight} + b$$

DEP VAR: LLUNG N: 2176 MULTIPLE R: 0.747 SQUARED MULTIPLE R: 0.559  
ADJUSTED SQUARED MULTIPLE R: 0.558 STANDARD ERROR OF ESTIMATE: 142.511

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-292.470	14.681	0.000	.	-19.922	0.000
HEIGHT	500.166	9.534	0.747	1.000	52.463	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.558991E+08	1	.558991E+08	2752.386	0.000
RESIDUAL	.441525E+08	2174	20309.318		

$$\text{Org. wt.} = a \text{ BodyHeight}^2 + b$$

DEP VAR: LLUNG N: 2176 MULTIPLE R: 0.752 SQUARED MULTIPLE R: 0.566  
ADJUSTED SQUARED MULTIPLE R: 0.566 STANDARD ERROR OF ESTIMATE: 141.287

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-37.430	9.832	0.000	.	-3.807	0.000
HEIGHT2	210.140	3.945	0.752	1.000	53.274	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.566541E+08	1	.566541E+08	2838.095	0.000
RESIDUAL	.433974E+08	2174	19962.016		

$$\text{Org. wt.} = a \text{ BodyHeight}^3 + b$$

DEP VAR: LLUNG N: 2176 MULTIPLE R: 0.748 SQUARED MULTIPLE R: 0.559  
ADJUSTED SQUARED MULTIPLE R: 0.559 STANDARD ERROR OF ESTIMATE: 142.498

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	48.241	8.437	0.000	.	5.718	0.000
HEIGHT3	108.127	2.061	0.748	1.000	52.472	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.559069E+08	1	.559069E+08	2753.264	0.000
RESIDUAL	.441446E+08	2174	20305.696		

$$\text{Org. wt.} = a \text{ BodyHeight} + b \text{ BodyWeight} + c$$

DEP VAR: LLUNG N: 2176 MULTIPLE R: 0.759 SQUARED MULTIPLE R: 0.576  
ADJUSTED SQUARED MULTIPLE R: 0.576 STANDARD ERROR OF ESTIMATE: 139.653

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-108.013	24.111	0.000	.	-4.480	0.000
WEIGHT	5.740	0.602	0.496	0.072	9.533	0.000
HEIGHT	180.567	34.801	0.270	0.072	5.188	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.576716E+08	2	.288358E+08	1478.536	0.000
RESIDUAL	.423799E+08	2173	19502.950		

Table 59b. Regression analysis of mass of the lung, right against body height and weight in normal Japanese males, 0-49 years.

$$\text{Org. wt.} = a \text{ BodyWeight} + b$$

DEP VAR: RLUNG N: 2100 MULTIPLE R: 0.740 SQUARED MULTIPLE R: 0.547  
ADJUSTED SQUARED MULTIPLE R: 0.547 STANDARD ERROR OF ESTIMATE: 176.677

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	5.272	11.259	0.000	.	0.468	0.640
WEIGHT	10.343	0.206	0.740	1.000	50.331	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.790739E+08	1	.790739E+08	2533.226	0.000
RESIDUAL	.654885E+08	2098	31214.707		

$$\text{Org. wt.} = a \text{ BodyHeight} + b$$

DEP VAR: RLUNG N: 2100 MULTIPLE R: 0.723 SQUARED MULTIPLE R: 0.523  
ADJUSTED SQUARED MULTIPLE R: 0.523 STANDARD ERROR OF ESTIMATE: 181.241

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-339.509	18.703	0.000	.	-18.153	0.000
HEIGHT	584.412	12.178	0.723	1.000	47.988	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.756464E+08	1	.756464E+08	2302.896	0.000
RESIDUAL	.689159E+08	2098	32848.395		

$$\text{Org. wt.} = a \text{ BodyHeight}^2 + b$$

DEP VAR: RLUNG N: 2100 MULTIPLE R: 0.728 SQUARED MULTIPLE R: 0.531  
ADJUSTED SQUARED MULTIPLE R: 0.530 STANDARD ERROR OF ESTIMATE: 179.847

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-42.167	12.538	0.000	.	-3.363	0.001
HEIGHT2	245.862	5.049	0.728	1.000	48.697	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.767026E+08	1	.767026E+08	2371.391	0.000
RESIDUAL	.678598E+08	2098	32344.983		

$$\text{Org. wt.} = a \text{ BodyHeight}^3 + b$$

DEP VAR: RLUNG N: 2100 MULTIPLE R: 0.724 SQUARED MULTIPLE R: 0.524  
ADJUSTED SQUARED MULTIPLE R: 0.524 STANDARD ERROR OF ESTIMATE: 181.124

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	57.316	10.751	0.000	.	5.331	0.000
HEIGHT3	126.715	2.637	0.724	1.000	48.048	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.757356E+08	1	.757356E+08	2308.599	0.000
RESIDUAL	.688267E+08	2098	32805.885		

$$\text{Org. wt.} = a \text{ BodyHeight} + b \text{ BodyWeight} + c$$

DEP VAR: RLUNG N: 2100 MULTIPLE R: 0.741 SQUARED MULTIPLE R: 0.548  
ADJUSTED SQUARED MULTIPLE R: 0.548 STANDARD ERROR OF ESTIMATE: 176.430

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-70.073	30.855	0.000	.	-2.271	0.023
WEIGHT	8.383	0.775	0.599	0.070	10.816	0.000
HEIGHT	117.410	44.775	0.145	0.070	2.622	0.009

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.792880E+08	2	.396440E+08	1273.599	0.000
RESIDUAL	.652744E+08	2097	31127.524		

**Table 60. Regression analysis of mass of the pancreas against body height and weight in normal Japanese males, 0-49 years.**

$$\text{Org. wt.} = a \text{ BodyWeight} + b$$

DEP VAR: PANCRE N: 2180 MULTIPLE R: 0.656 SQUARED MULTIPLE R: 0.430  
ADJUSTED SQUARED MULTIPLE R: 0.430 STANDARD ERROR OF ESTIMATE: 47.545

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.999	3.027	0.000	.	0.330	0.742
WEIGHT	2.235	0.055	0.656	1.000	40.568	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	3720327.213	1	3720327.213	1645.775	0.000
RESIDUAL	4923438.688	2178	2260.532		

$$\text{Org. wt.} = a \text{ BodyHeight} + b$$

DEP VAR: PANCRE N: 2180 MULTIPLE R: 0.645 SQUARED MULTIPLE R: 0.416  
ADJUSTED SQUARED MULTIPLE R: 0.416 STANDARD ERROR OF ESTIMATE: 48.146

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-74.945	4.973	0.000	.	-15.069	0.000
HEIGHT	127.151	3.229	0.645	1.000	39.381	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	3595020.109	1	3595020.109	1550.871	0.000
RESIDUAL	5048745.792	2178	2318.065		

$$\text{Org. wt.} = a \text{ BodyHeight}^2 + b$$

DEP VAR: PANCRE N: 2180 MULTIPLE R: 0.647 SQUARED MULTIPLE R: 0.419  
ADJUSTED SQUARED MULTIPLE R: 0.419 STANDARD ERROR OF ESTIMATE: 48.021

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-9.616	3.348	0.000	.	-2.872	0.004
HEIGHT2	53.219	1.343	0.647	1.000	39.628	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	3621260.485	1	3621260.485	1570.353	0.000
RESIDUAL	5022505.416	2178	2306.017		

$$\text{Org. wt.} = a \text{ BodyHeight}^3 + b$$

DEP VAR: PANCRE N: 2180 MULTIPLE R: 0.642 SQUARED MULTIPLE R: 0.412  
ADJUSTED SQUARED MULTIPLE R: 0.411 STANDARD ERROR OF ESTIMATE: 48.322

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	12.376	2.865	0.000	.	4.320	0.000
HEIGHT3	27.309	0.700	0.642	1.000	39.035	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	3558006.280	1	3558006.280	1523.733	0.000
RESIDUAL	5085759.621	2178	2335.060		

$$\text{Org. wt.} = a \text{ BodyHeight} + b \text{ BodyWeight} + c$$

DEP VAR: PANCRE N: 2180 MULTIPLE R: 0.658 SQUARED MULTIPLE R: 0.433  
ADJUSTED SQUARED MULTIPLE R: 0.432 STANDARD ERROR OF ESTIMATE: 47.455

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-22.140	8.185	0.000	.	-2.705	0.007
WEIGHT	1.639	0.203	0.481	0.073	8.056	0.000
HEIGHT	35.819	11.776	0.182	0.073	3.042	0.002

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	3741164.576	2	1870582.288	830.632	0.000
RESIDUAL	4902601.325	2177	2251.999		

Table 61. Regression analysis of mass of the pituitary against body height and weight in normal Japanese males, 0-49 years.

$$\text{Org. wt.} = a \text{ BodyWeight} + b$$

DEP VAR: PITUIT N: 2042 MULTIPLE R: 0.633 SQUARED MULTIPLE R: 0.400  
ADJUSTED SQUARED MULTIPLE R: 0.400 STANDARD ERROR OF ESTIMATE: 0.127

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.178	0.010	0.000	.	18.427	0.000
WEIGHT	0.006	0.000	0.633	1.000	36.913	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	22.059	1	22.059	1362.533	0.000
RESIDUAL	33.027	2040	0.016		

$$\text{Org. wt.} = a \text{ BodyHeight} + b$$

DEP VAR: PITUIT N: 2042 MULTIPLE R: 0.638 SQUARED MULTIPLE R: 0.407  
ADJUSTED SQUARED MULTIPLE R: 0.407 STANDARD ERROR OF ESTIMATE: 0.127

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-0.078	0.016	0.000	.	-4.792	0.000
HEIGHT	0.387	0.010	0.638	1.000	37.421	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	22.422	1	22.422	1400.358	0.000
RESIDUAL	32.663	2040	0.016		

$$\text{Org. wt.} = a \text{ BodyHeight}^2 + b$$

DEP VAR: PITUIT N: 2042 MULTIPLE R: 0.634 SQUARED MULTIPLE R: 0.402  
ADJUSTED SQUARED MULTIPLE R: 0.402 STANDARD ERROR OF ESTIMATE: 0.127

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.136	0.011	0.000	.	12.620	0.000
HEIGHT2	0.156	0.004	0.634	1.000	37.032	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	22.145	1	22.145	1371.395	0.000
RESIDUAL	32.941	2040	0.016		

$$\text{Org. wt.} = a \text{ BodyHeight}^3 + b$$

DEP VAR: PITUIT N: 2042 MULTIPLE R: 0.621 SQUARED MULTIPLE R: 0.386  
ADJUSTED SQUARED MULTIPLE R: 0.386 STANDARD ERROR OF ESTIMATE: 0.129

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.212	0.009	0.000	.	23.305	0.000
HEIGHT3	0.078	0.002	0.621	1.000	35.802	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	21.256	1	21.256	1281.786	0.000
RESIDUAL	33.829	2040	0.017		

$$\text{Org. wt.} = a \text{ BodyHeight} + b \text{ BodyWeight} + c$$

DEP VAR: PITUIT N: 2042 MULTIPLE R: 0.643 SQUARED MULTIPLE R: 0.414  
ADJUSTED SQUARED MULTIPLE R: 0.413 STANDARD ERROR OF ESTIMATE: 0.126

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.018	0.026	0.000	.	0.691	0.490
WEIGHT	0.003	0.001	0.270	0.092	4.827	0.000
HEIGHT	0.231	0.034	0.381	0.092	6.799	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	22.791	2	11.395	719.482	0.000
RESIDUAL	32.294	2039	0.016		

Table 62. Regression analysis of mass of the spleen against body height and weight in normal Japanese males, 0-49 years.

$$\text{Org. wt.} = a \text{ BodyWeight} + b$$

DEP VAR: SPLEEN N: 2148 MULTIPLE R: 0.538 SQUARED MULTIPLE R: 0.289  
ADJUSTED SQUARED MULTIPLE R: 0.289 STANDARD ERROR OF ESTIMATE: 57.032

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	18.162	3.666	0.000	.	4.954	0.000
WEIGHT	1.970	0.067	0.538	1.000	29.544	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	2839146.023	1	2839146.023	872.863	0.000
RESIDUAL	6980259.361	2146	3252.684		

$$\text{Org. wt.} = a \text{ BodyHeight} + b$$

DEP VAR: SPLEEN N: 2148 MULTIPLE R: 0.537 SQUARED MULTIPLE R: 0.289  
ADJUSTED SQUARED MULTIPLE R: 0.288 STANDARD ERROR OF ESTIMATE: 57.054

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-52.298	5.974	0.000	.	-8.754	0.000
HEIGHT	114.413	3.878	0.537	1.000	29.506	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	2833908.170	1	2833908.170	870.599	0.000
RESIDUAL	6985497.214	2146	3255.125		

$$\text{Org. wt.} = a \text{ BodyHeight}^2 + b$$

DEP VAR: SPLEEN N: 2148 MULTIPLE R: 0.538 SQUARED MULTIPLE R: 0.290  
ADJUSTED SQUARED MULTIPLE R: 0.290 STANDARD ERROR OF ESTIMATE: 56.999

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	6.880	4.021	0.000	.	1.711	0.087
HEIGHT2	47.737	1.613	0.538	1.000	29.603	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	2847187.061	1	2847187.061	876.344	0.000
RESIDUAL	6972218.323	2146	3248.937		

$$\text{Org. wt.} = a \text{ BodyHeight}^3 + b$$

DEP VAR: SPLEEN N: 2148 MULTIPLE R: 0.534 SQUARED MULTIPLE R: 0.285  
ADJUSTED SQUARED MULTIPLE R: 0.285 STANDARD ERROR OF ESTIMATE: 57.201

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	26.768	3.425	0.000	.	7.815	0.000
HEIGHT3	24.461	0.837	0.534	1.000	29.241	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	2797697.907	1	2797697.907	855.043	0.000
RESIDUAL	7021707.477	2146	3271.998		

$$\text{Org. wt.} = a \text{ BodyHeight} + b \text{ BodyWeight} + c$$

DEP VAR: SPLEEN N: 2148 MULTIPLE R: 0.543 SQUARED MULTIPLE R: 0.294  
ADJUSTED SQUARED MULTIPLE R: 0.294 STANDARD ERROR OF ESTIMATE: 56.834

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-18.846	9.944	0.000	.	-1.895	0.058
WEIGHT	1.028	0.245	0.280	0.074	4.199	0.000
HEIGHT	56.922	14.225	0.267	0.074	4.002	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	2890870.625	2	1445435.312	447.491	0.000
RESIDUAL	6928534.759	2145	3230.086		

Table 63a. Regression analysis of mass of the testis, left against body height and weight in normal Japanese males, 0-49 years (subjects showing body weight 30 kg and lower).

$$\text{Org. wt.} = a \text{ BodyWeight} + b$$

DEP VAR: LTEST N: 352 MULTIPLE R: 0.568 SQUARED MULTIPLE R: 0.322  
ADJUSTED SQUARED MULTIPLE R: 0.320 STANDARD ERROR OF ESTIMATE: 0.421

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.863	0.046	0.000	.	18.735	0.000
WEIGHT	0.044	0.003	0.568	1.000	12.904	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	29.451	1	29.451	166.525	0.000
RESIDUAL	61.900	350	0.177		

$$\text{Org. wt.} = a \text{ BodyHeight} + b$$

DEP VAR: LTEST N: 352 MULTIPLE R: 0.564 SQUARED MULTIPLE R: 0.318  
ADJUSTED SQUARED MULTIPLE R: 0.316 STANDARD ERROR OF ESTIMATE: 0.422

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.396	0.080	0.000	.	4.923	0.000
HEIGHT	1.187	0.093	0.564	1.000	12.780	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	29.065	1	29.065	163.322	0.000
RESIDUAL	62.286	350	0.178		

$$\text{Org. wt.} = a \text{ BodyHeight}^2 + b$$

DEP VAR: LTEST N: 352 MULTIPLE R: 0.566 SQUARED MULTIPLE R: 0.320  
ADJUSTED SQUARED MULTIPLE R: 0.318 STANDARD ERROR OF ESTIMATE: 0.421

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.890	0.044	0.000	.	20.014	0.000
HEIGHT2	0.658	0.051	0.566	1.000	12.840	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	29.250	1	29.250	164.857	0.000
RESIDUAL	62.100	350	0.177		

$$\text{Org. wt.} = a \text{ BodyHeight}^3 + b$$

DEP VAR: LTEST N: 352 MULTIPLE R: 0.564 SQUARED MULTIPLE R: 0.318  
ADJUSTED SQUARED MULTIPLE R: 0.316 STANDARD ERROR OF ESTIMATE: 0.422

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1.053	0.034	0.000	.	30.776	0.000
HEIGHT3	0.453	0.035	0.564	1.000	12.764	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	29.017	1	29.017	162.931	0.000
RESIDUAL	62.334	350	0.178		

$$\text{Org. wt.} = a \text{ BodyHeight} + b \text{ BodyWeight} + c$$

DEP VAR: LTEST N: 352 MULTIPLE R: 0.569 SQUARED MULTIPLE R: 0.324  
ADJUSTED SQUARED MULTIPLE R: 0.320 STANDARD ERROR OF ESTIMATE: 0.421

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.701	0.196	0.000	.	3.578	0.000
WEIGHT	0.029	0.017	0.381	0.039	1.706	0.089
HEIGHT	0.401	0.470	0.191	0.039	0.854	0.394

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	29.580	2	14.790	83.563	0.000
RESIDUAL	61.771	349	0.177		

**Table 63b. Regression analysis of mass of the testis, left against body height and weight in normal Japanese males, 0-49 years. (subjects showing body weight over 30 kg).**

$$\text{Org. wt.} = a \text{ BodyWeight} + b$$

DEP VAR: LTEST N: 1821 MULTIPLE R: 0.371 SQUARED MULTIPLE R: 0.138  
ADJUSTED SQUARED MULTIPLE R: 0.137 STANDARD ERROR OF ESTIMATE: 3.959

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1.491	0.939	0.000	.	1.588	0.113
WEIGHT	0.268	0.016	0.371	1.000	17.050	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	4555.567	1	4555.567	290.708	0.000
RESIDUAL	28504.816	1819	15.671		

$$\text{Org. wt.} = a \text{ BodyHeight} + b$$

DEP VAR: LTEST N: 1821 MULTIPLE R: 0.321 SQUARED MULTIPLE R: 0.103  
ADJUSTED SQUARED MULTIPLE R: 0.102 STANDARD ERROR OF ESTIMATE: 4.038

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-12.657	2.087	0.000	.	-6.066	0.000
HEIGHT	18.382	1.274	0.321	1.000	14.434	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	3397.360	1	3397.360	208.333	0.000
RESIDUAL	29663.022	1819	16.307		

$$\text{Org. wt.} = a \text{ BodyHeight}^2 + b$$

DEP VAR: LTEST N: 1821 MULTIPLE R: 0.316 SQUARED MULTIPLE R: 0.100  
ADJUSTED SQUARED MULTIPLE R: 0.099 STANDARD ERROR OF ESTIMATE: 4.045

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	2.369	1.065	0.000	.	2.224	0.026
HEIGHT2	5.610	0.395	0.316	1.000	14.193	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	3296.370	1	3296.370	201.455	0.000
RESIDUAL	29764.013	1819	16.363		

$$\text{Org. wt.} = a \text{ BodyHeight}^3 + b$$

DEP VAR: LTEST N: 1821 MULTIPLE R: 0.310 SQUARED MULTIPLE R: 0.096  
ADJUSTED SQUARED MULTIPLE R: 0.096 STANDARD ERROR OF ESTIMATE: 4.053

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	7.438	0.724	0.000	.	10.273	0.000
HEIGHT3	2.265	0.163	0.310	1.000	13.920	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	3182.616	1	3182.616	193.762	0.000
RESIDUAL	29877.767	1819	16.425		

$$\text{Org. wt.} = a \text{ BodyHeight} + b \text{ BodyWeight} + c$$

DEP VAR: LTEST N: 1821 MULTIPLE R: 0.384 SQUARED MULTIPLE R: 0.147  
ADJUSTED SQUARED MULTIPLE R: 0.146 STANDARD ERROR OF ESTIMATE: 3.938

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-7.033	2.115	0.000	.	-3.325	0.001
WEIGHT	0.205	0.021	0.284	0.553	9.740	0.000
HEIGHT	7.503	1.670	0.131	0.553	4.492	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	4868.495	2	2434.247	156.976	0.000
RESIDUAL	28191.888	1818	15.507		

Table 64a. Regression analysis of mass of the testis, right against body height and weight in normal Japanese males, 0-49 years (subjects showing body weight 30 kg and lower).

$$\text{Org. wt.} = a \text{ BodyWeight} + b$$

DEP VAR: RTEST N: 352 MULTIPLE R: 0.575 SQUARED MULTIPLE R: 0.330  
ADJUSTED SQUARED MULTIPLE R: 0.328 STANDARD ERROR OF ESTIMATE: 0.412

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.895	0.045	0.000	.	19.763	0.000
WEIGHT	0.044	0.003	0.575	1.000	13.141	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	29.254	1	29.254	172.696	0.000
RESIDUAL	59.289	350	0.169		

$$\text{Org. wt.} = a \text{ BodyHeight} + b$$

DEP VAR: RTEST N: 352 MULTIPLE R: 0.574 SQUARED MULTIPLE R: 0.330  
ADJUSTED SQUARED MULTIPLE R: 0.328 STANDARD ERROR OF ESTIMATE: 0.412

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.421	0.079	0.000	.	5.336	0.000
HEIGHT	1.198	0.091	0.574	1.000	13.130	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	29.221	1	29.221	172.404	0.000
RESIDUAL	59.322	350	0.169		

$$\text{Org. wt.} = a \text{ BodyHeight}^2 + b$$

DEP VAR: RTEST N: 352 MULTIPLE R: 0.573 SQUARED MULTIPLE R: 0.328  
ADJUSTED SQUARED MULTIPLE R: 0.326 STANDARD ERROR OF ESTIMATE: 0.412

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.922	0.044	0.000	.	21.170	0.000
HEIGHT2	0.660	0.050	0.573	1.000	13.082	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	29.078	1	29.078	171.146	0.000
RESIDUAL	59.465	350	0.170		

$$\text{Org. wt.} = a \text{ BodyHeight}^3 + b$$

DEP VAR: RTEST N: 352 MULTIPLE R: 0.567 SQUARED MULTIPLE R: 0.321  
ADJUSTED SQUARED MULTIPLE R: 0.319 STANDARD ERROR OF ESTIMATE: 0.414

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1.089	0.034	0.000	.	32.415	0.000
HEIGHT3	0.451	0.035	0.567	1.000	12.869	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	28.440	1	28.440	165.619	0.000
RESIDUAL	60.103	350	0.172		

$$\text{Org. wt.} = a \text{ BodyHeight} + b \text{ BodyWeight} + c$$

DEP VAR: RTEST N: 352 MULTIPLE R: 0.578 SQUARED MULTIPLE R: 0.334  
ADJUSTED SQUARED MULTIPLE R: 0.330 STANDARD ERROR OF ESTIMATE: 0.411

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.657	0.191	0.000	.	3.439	0.001
WEIGHT	0.023	0.017	0.298	0.039	1.357	0.176
HEIGHT	0.588	0.459	0.282	0.039	1.282	0.201

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	29.532	2	14.766	87.329	0.000
RESIDUAL	59.011	349	0.169		



Table 64b. Regression analysis of mass of the testis, right against body height and weight in normal Japanese males, 0-49 years. (subjects showing body weight over 30 kg).

$$\text{Org. wt.} = a \text{ BodyWeight} + b$$

DEP VAR: RTEST N: 1817 MULTIPLE R: 0.371 SQUARED MULTIPLE R: 0.138  
ADJUSTED SQUARED MULTIPLE R: 0.137 STANDARD ERROR OF ESTIMATE: 4.171

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1.418	0.991	0.000	.	1.431	0.153
WEIGHT	0.282	0.017	0.371	1.000	17.016	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	5036.733	1	5036.733	289.532	0.000
RESIDUAL	31573.969	1815	17.396		

$$\text{Org. wt.} = a \text{ BodyHeight} + b$$

DEP VAR: RTEST N: 1817 MULTIPLE R: 0.308 SQUARED MULTIPLE R: 0.095  
ADJUSTED SQUARED MULTIPLE R: 0.094 STANDARD ERROR OF ESTIMATE: 4.273

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-12.237	2.210	0.000	.	-5.536	0.000
HEIGHT	18.592	1.349	0.308	1.000	13.782	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	3468.393	1	3468.393	189.942	0.000
RESIDUAL	33142.310	1815	18.260		

$$\text{Org. wt.} = a \text{ BodyHeight}^2 + b$$

DEP VAR: RTEST N: 1817 MULTIPLE R: 0.303 SQUARED MULTIPLE R: 0.092  
ADJUSTED SQUARED MULTIPLE R: 0.091 STANDARD ERROR OF ESTIMATE: 4.281

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	2.987	1.129	0.000	.	2.647	0.008
HEIGHT2	5.665	0.419	0.303	1.000	13.529	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	3353.998	1	3353.998	183.046	0.000
RESIDUAL	33256.705	1815	18.323		

$$\text{Org. wt.} = a \text{ BodyHeight}^3 + b$$

DEP VAR: RTEST N: 1817 MULTIPLE R: 0.297 SQUARED MULTIPLE R: 0.088  
ADJUSTED SQUARED MULTIPLE R: 0.088 STANDARD ERROR OF ESTIMATE: 4.289

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	8.123	0.767	0.000	.	10.591	0.000
HEIGHT3	2.283	0.172	0.297	1.000	13.247	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	3227.603	1	3227.603	175.481	0.000
RESIDUAL	33383.099	1815	18.393		

$$\text{Org. wt.} = a \text{ BodyHeight} + b \text{ BodyWeight} + c$$

DEP VAR: RTEST N: 1817 MULTIPLE R: 0.380 SQUARED MULTIPLE R: 0.144  
ADJUSTED SQUARED MULTIPLE R: 0.143 STANDARD ERROR OF ESTIMATE: 4.156

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-5.999	2.235	0.000	.	-2.684	0.007
WEIGHT	0.227	0.022	0.299	0.553	10.221	0.000
HEIGHT	6.529	1.765	0.108	0.553	3.699	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	5273.130	2	2636.565	152.620	0.000
RESIDUAL	31337.572	1814	17.275		

**Table 65. Regression analysis of mass of the thymus against body height and weight in normal Japanese males, 0-49 years.**

$$\text{Org. wt.} = a \text{ BodyWeight} + b$$

DEP VAR: THYMUS N: 995 MULTIPLE R: 0.098 SQUARED MULTIPLE R: 0.010  
ADJUSTED SQUARED MULTIPLE R: 0.009 STANDARD ERROR OF ESTIMATE: 14.334

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	29.670	0.951	0.000	.	31.202	0.000
WEIGHT	0.060	0.020	0.098	1.000	3.088	0.002

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1958.838	1	1958.838	9.534	0.002
RESIDUAL	204017.489	993	205.456		

$$\text{Org. wt.} = a \text{ BodyHeight} + b$$

DEP VAR: THYMUS N: 995 MULTIPLE R: 0.141 SQUARED MULTIPLE R: 0.020  
ADJUSTED SQUARED MULTIPLE R: 0.019 STANDARD ERROR OF ESTIMATE: 14.259

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	25.529	1.568	0.000	.	16.282	0.000
HEIGHT	4.925	1.100	0.141	1.000	4.476	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	4073.606	1	4073.606	20.035	0.000
RESIDUAL	201902.720	993	203.326		

$$\text{Org. wt.} = a \text{ BodyHeight}^2 + b$$

DEP VAR: THYMUS N: 995 MULTIPLE R: 0.131 SQUARED MULTIPLE R: 0.017  
ADJUSTED SQUARED MULTIPLE R: 0.016 STANDARD ERROR OF ESTIMATE: 14.278

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	28.319	1.045	0.000	.	27.102	0.000
HEIGHT2	1.935	0.464	0.131	1.000	4.172	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	3548.746	1	3548.746	17.408	0.000
RESIDUAL	202427.581	993	203.855		

$$\text{Org. wt.} = a \text{ BodyHeight}^3 + b$$

DEP VAR: THYMUS N: 995 MULTIPLE R: 0.124 SQUARED MULTIPLE R: 0.015  
ADJUSTED SQUARED MULTIPLE R: 0.014 STANDARD ERROR OF ESTIMATE: 14.291

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	29.215	0.893	0.000	.	32.707	0.000
HEIGHT3	0.957	0.243	0.124	1.000	3.942	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	3172.940	1	3172.940	15.536	0.000
RESIDUAL	202803.387	993	204.233		

$$\text{Org. wt.} = a \text{ BodyHeight} + b \text{ BodyWeight} + c$$

DEP VAR: THYMUS N: 995 MULTIPLE R: 0.213 SQUARED MULTIPLE R: 0.045  
ADJUSTED SQUARED MULTIPLE R: 0.043 STANDARD ERROR OF ESTIMATE: 14.079

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	12.461	2.972	0.000	.	4.193	0.000
WEIGHT	-0.407	0.079	-0.657	0.059	-5.151	0.000
HEIGHT	27.228	4.464	0.778	0.059	6.099	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	9332.951	2	4666.475	23.541	0.000
RESIDUAL	196643.376	992	198.229		

**Table 66. Regression analysis of mass of the thyroid against body height and weight in normal Japanese males, 0-49 years.**

$$\text{Org. wt.} = a \text{ BodyWeight} + b$$

DEP VAR: THYRD N: 2191 MULTIPLE R: 0.779 SQUARED MULTIPLE R: 0.606  
ADJUSTED SQUARED MULTIPLE R: 0.606 STANDARD ERROR OF ESTIMATE: 4.675

VARIABLE	COEFFICIENT	STD ERROR	STD COEF TOLERANCE	T	P(2 TAIL)
CONSTANT	-0.251	0.298	0.000	-0.842	0.400
WEIGHT	0.315	0.005	0.779	1.000	58.060

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	73670.799	1	73670.799	3371.001	0.000
RESIDUAL	47839.017	2189	21.854		

$$\text{Org. wt.} = a \text{ BodyHeight} + b$$

DEP VAR: THYRD N: 2191 MULTIPLE R: 0.761 SQUARED MULTIPLE R: 0.580  
ADJUSTED SQUARED MULTIPLE R: 0.580 STANDARD ERROR OF ESTIMATE: 4.829

VARIABLE	COEFFICIENT	STD ERROR	STD COEF TOLERANCE	T	P(2 TAIL)
CONSTANT	-10.884	0.501	0.000	-21.731	0.000
HEIGHT	17.867	0.325	0.761	1.000	54.961

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	70454.395	1	70454.395	3020.731	0.000
RESIDUAL	51055.421	2189	23.324		

$$\text{Org. wt.} = a \text{ BodyHeight}^2 + b$$

DEP VAR: THYRD N: 2191 MULTIPLE R: 0.766 SQUARED MULTIPLE R: 0.587  
ADJUSTED SQUARED MULTIPLE R: 0.587 STANDARD ERROR OF ESTIMATE: 4.787

VARIABLE	COEFFICIENT	STD ERROR	STD COEF TOLERANCE	T	P(2 TAIL)
CONSTANT	-1.712	0.334	0.000	-5.121	0.000
HEIGHT2	7.484	0.134	0.766	1.000	55.802

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	71351.320	1	71351.320	3113.890	0.000
RESIDUAL	50158.495	2189	22.914		

$$\text{Org. wt.} = a \text{ BodyHeight}^3 + b$$

DEP VAR: THYRD N: 2191 MULTIPLE R: 0.760 SQUARED MULTIPLE R: 0.578  
ADJUSTED SQUARED MULTIPLE R: 0.578 STANDARD ERROR OF ESTIMATE: 4.840

VARIABLE	COEFFICIENT	STD ERROR	STD COEF TOLERANCE	T	P(2 TAIL)
CONSTANT	1.390	0.287	0.000	4.843	0.000
HEIGHT3	3.839	0.070	0.760	1.000	54.751

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	70227.125	1	70227.125	2997.643	0.000
RESIDUAL	51282.691	2189	23.427		

$$\text{Org. wt.} = a \text{ BodyHeight} + b \text{ BodyWeight} + c$$

DEP VAR: THYRD N: 2191 MULTIPLE R: 0.780 SQUARED MULTIPLE R: 0.608  
ADJUSTED SQUARED MULTIPLE R: 0.608 STANDARD ERROR OF ESTIMATE: 4.664

VARIABLE	COEFFICIENT	STD ERROR	STD COEF TOLERANCE	T	P(2 TAIL)
CONSTANT	-2.758	0.806	0.000	-3.424	0.001
WEIGHT	0.251	0.020	0.620	0.074	12.612
HEIGHT	3.863	1.154	0.165	0.074	3.348

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	73914.691	2	36957.346	1698.970	0.000
RESIDUAL	47595.125	2188	21.753		

Table 67a. Regression analysis of mass of the adrenal, left against body height and weight in normal Japanese females, 0-19 years.

Org. wt. =  $a$  BodyWeight +  $b$

DEP VAR: LADRE N: 490 MULTIPLE R: 0.889 SQUARED MULTIPLE R: 0.790  
ADJUSTED SQUARED MULTIPLE R: 0.790 STANDARD ERROR OF ESTIMATE: 0.841

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1.372	0.061	0.000	.	22.471	0.000
WEIGHT	0.091	0.002	0.889	1.000	42.890	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1299.606	1	1299.606	1839.514	0.000
RESIDUAL	344.769	488	0.706		

Org. wt. =  $a$  BodyHeight +  $b$

DEP VAR: LADRE N: 490 MULTIPLE R: 0.863 SQUARED MULTIPLE R: 0.744  
ADJUSTED SQUARED MULTIPLE R: 0.744 STANDARD ERROR OF ESTIMATE: 0.925

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-0.863	0.121	0.000	.	-7.132	0.000
HEIGHT	4.126	0.109	0.863	1.000	37.696	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1216.336	1	1216.336	1420.983	0.000
RESIDUAL	417.719	488	0.856		

Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$

DEP VAR: LADRE N: 490 MULTIPLE R: 0.878 SQUARED MULTIPLE R: 0.772  
ADJUSTED SQUARED MULTIPLE R: 0.771 STANDARD ERROR OF ESTIMATE: 0.875

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1.060	0.070	0.000	.	15.098	0.000
HEIGHT2	1.928	0.047	0.878	1.000	40.601	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1260.808	1	1260.808	1648.438	0.000
RESIDUAL	373.247	488	0.765		

Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$

DEP VAR: LADRE N: 490 MULTIPLE R: 0.877 SQUARED MULTIPLE R: 0.769  
ADJUSTED SQUARED MULTIPLE R: 0.769 STANDARD ERROR OF ESTIMATE: 0.879

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1.688	0.058	0.000	.	28.880	0.000
HEIGHT3	1.093	0.027	0.877	1.000	40.355	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1257.302	1	1257.302	1628.555	0.000
RESIDUAL	376.753	488	0.772		

Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$

DEP VAR: LADRE N: 489 MULTIPLE R: 0.892 SQUARED MULTIPLE R: 0.796  
ADJUSTED SQUARED MULTIPLE R: 0.795 STANDARD ERROR OF ESTIMATE: 0.829

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1.122	0.210	0.000	.	5.331	0.000
WEIGHT	0.082	0.007	0.806	0.079	11.033	0.000
HEIGHT	0.426	0.350	0.089	0.079	1.218	0.224

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1297.932	2	648.966	945.394	0.000
RESIDUAL	333.615	486	0.686		

Table 67b. Regression analysis of mass of the adrenal, right against body height and weight in normal Japanese females, 0-19 years.

Org. wt. =  $a$  BodyWeight +  $b$

DEP VAR: RADRE N: 485 MULTIPLE R: 0.897 SQUARED MULTIPLE R: 0.805  
ADJUSTED SQUARED MULTIPLE R: 0.804 STANDARD ERROR OF ESTIMATE: 0.775

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1.266	0.057	0.000	.	22.253	0.000
WEIGHT	0.087	0.002	0.897	1.000	44.585	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1192.905	1	1192.905	1987.839	0.000
RESIDUAL	289.849	483	0.600		

Org. wt. =  $a$  BodyHeight +  $b$

DEP VAR: RADRE N: 485 MULTIPLE R: 0.868 SQUARED MULTIPLE R: 0.753  
ADJUSTED SQUARED MULTIPLE R: 0.752 STANDARD ERROR OF ESTIMATE: 0.873

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-0.901	0.116	0.000	.	-7.800	0.000
HEIGHT	3.990	0.104	0.868	1.000	38.373	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1121.861	1	1121.861	1472.497	0.000
RESIDUAL	367.987	483	0.762		

Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$

DEP VAR: RADRE N: 485 MULTIPLE R: 0.883 SQUARED MULTIPLE R: 0.780  
ADJUSTED SQUARED MULTIPLE R: 0.779 STANDARD ERROR OF ESTIMATE: 0.824

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.968	0.067	0.000	.	14.467	0.000
HEIGHT2	1.859	0.045	0.883	1.000	41.359	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1161.796	1	1161.796	1710.546	0.000
RESIDUAL	328.052	483	0.679		

Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$

DEP VAR: RADRE N: 485 MULTIPLE R: 0.882 SQUARED MULTIPLE R: 0.778  
ADJUSTED SQUARED MULTIPLE R: 0.778 STANDARD ERROR OF ESTIMATE: 0.827

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1.577	0.056	0.000	.	28.383	0.000
HEIGHT3	1.052	0.026	0.882	1.000	41.185	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1159.633	1	1159.633	1696.178	0.000
RESIDUAL	330.215	483	0.684		

Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$

DEP VAR: RADRE N: 484 MULTIPLE R: 0.897 SQUARED MULTIPLE R: 0.805  
ADJUSTED SQUARED MULTIPLE R: 0.804 STANDARD ERROR OF ESTIMATE: 0.775

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1.061	0.200	0.000	.	5.312	0.000
WEIGHT	0.080	0.007	0.823	0.078	11.438	0.000
HEIGHT	0.354	0.331	0.077	0.078	1.070	0.285

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1193.258	2	596.629	992.718	0.000
RESIDUAL	289.084	481	0.601		

**Table 68a. Regression analysis of mass of the brain against body height and weight in normal Japanese females, 0-19 years (subjects showing body weight below 13 kg).**

**Org. wt. =  $a$  BodyWeight +  $b$**

DEP VAR: BRAIN N: 216 MULTIPLE R: 0.890 SQUARED MULTIPLE R: 0.792  
ADJUSTED SQUARED MULTIPLE R: 0.791 STANDARD ERROR OF ESTIMATE: 125.024

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	127.870	25.681	0.000	.	4.979	0.000
WEIGHT	90.387	3.168	0.890	1.000	28.530	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.127226E+08	1	.127226E+08	813.940	0.000
RESIDUAL	3345016.249	214	15630.917		

**Org. wt. =  $a$  BodyHeight +  $b$**

DEP VAR: BRAIN N: 216 MULTIPLE R: 0.889 SQUARED MULTIPLE R: 0.791  
ADJUSTED SQUARED MULTIPLE R: 0.790 STANDARD ERROR OF ESTIMATE: 125.265

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-550.355	48.869	0.000	.	-11.262	0.000
HEIGHT	2037.305	71.584	0.889	1.000	28.460	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.127097E+08	1	.127097E+08	809.990	0.000
RESIDUAL	3357921.842	214	15691.224		

**Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$**

DEP VAR: BRAIN N: 216 MULTIPLE R: 0.880 SQUARED MULTIPLE R: 0.775  
ADJUSTED SQUARED MULTIPLE R: 0.774 STANDARD ERROR OF ESTIMATE: 129.960

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	131.129	26.837	0.000	.	4.886	0.000
HEIGHT2	1476.288	54.367	0.880	1.000	27.154	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.124533E+08	1	.124533E+08	737.336	0.000
RESIDUAL	3614366.210	214	16889.562		

**Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$**

DEP VAR: BRAIN N: 216 MULTIPLE R: 0.865 SQUARED MULTIPLE R: 0.748  
ADJUSTED SQUARED MULTIPLE R: 0.747 STANDARD ERROR OF ESTIMATE: 137.575

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	360.973	20.452	0.000	.	17.650	0.000
HEIGHT3	1377.668	54.674	0.865	1.000	25.198	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.120173E+08	1	.120173E+08	634.938	0.000
RESIDUAL	4050327.502	214	18926.764		

**Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$**

DEP VAR: BRAIN N: 216 MULTIPLE R: 0.896 SQUARED MULTIPLE R: 0.804  
ADJUSTED SQUARED MULTIPLE R: 0.802 STANDARD ERROR OF ESTIMATE: 121.733

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-221.428	101.058	0.000	.	-2.191	0.030
WEIGHT	46.634	12.647	0.459	0.059	3.687	0.000
HEIGHT	1017.416	285.205	0.444	0.059	3.567	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.129112E+08	2	6455607.944	435.632	0.000
RESIDUAL	3156434.112	213	14818.939		

**Table 68b. Regression analysis of mass of the brain against body height and weight in normal Japanese females, 0-19 years (subjects showing body weight 13 kg and higher).**

$$\text{Org. wt.} = a \text{ BodyWeight} + b$$

DEP VAR: BRAIN N: 276 MULTIPLE R: 0.273 SQUARED MULTIPLE R: 0.075  
ADJUSTED SQUARED MULTIPLE R: 0.071 STANDARD ERROR OF ESTIMATE: 91.533

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1247.413	13.282	0.000	.	93.919	0.000
WEIGHT	1.648	0.350	0.273	1.000	4.714	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	186183.810	1	186183.810	22.222	0.000
RESIDUAL	2304042.905	275	8378.338		

$$\text{Org. wt.} = a \text{ BodyHeight} + b$$

DEP VAR: BRAIN N: 276 MULTIPLE R: 0.322 SQUARED MULTIPLE R: 0.104  
ADJUSTED SQUARED MULTIPLE R: 0.100 STANDARD ERROR OF ESTIMATE: 90.085

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1135.200	30.466	0.000	.	37.261	0.000
HEIGHT	126.871	22.525	0.322	1.000	5.632	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	257446.478	1	257446.478	31.723	0.000
RESIDUAL	2223608.595	274	8115.360		

$$\text{Org. wt.} = a \text{ BodyHeight}^2 + b$$

DEP VAR: BRAIN N: 276 MULTIPLE R: 0.316 SQUARED MULTIPLE R: 0.100  
ADJUSTED SQUARED MULTIPLE R: 0.097 STANDARD ERROR OF ESTIMATE: 90.274

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1216.372	16.794	0.000	.	72.428	0.000
HEIGHT2	47.933	8.687	0.316	1.000	5.518	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	248140.035	1	248140.035	30.449	0.000
RESIDUAL	2232915.038	274	8149.325		

$$\text{Org. wt.} = a \text{ BodyHeight}^3 + b$$

DEP VAR: BRAIN N: 276 MULTIPLE R: 0.311 SQUARED MULTIPLE R: 0.097  
ADJUSTED SQUARED MULTIPLE R: 0.094 STANDARD ERROR OF ESTIMATE: 90.425

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1242.858	12.525	0.000	.	99.230	0.000
HEIGHT3	23.676	4.364	0.311	1.000	5.425	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	240667.605	1	240667.605	29.434	0.000
RESIDUAL	2240387.468	274	8176.597		

$$\text{Org. wt.} = a \text{ BodyHeight} + b \text{ BodyWeight} + c$$

DEP VAR: BRAIN N: 276 MULTIPLE R: 0.348 SQUARED MULTIPLE R: 0.121  
ADJUSTED SQUARED MULTIPLE R: 0.115 STANDARD ERROR OF ESTIMATE: 89.356

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	984.877	70.912	0.000	.	13.889	0.000
WEIGHT	-3.042	1.298	-0.505	0.069	-2.343	0.020
HEIGHT	318.911	84.944	0.810	0.069	3.754	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	301289.809	2	150644.904	18.867	0.000
RESIDUAL	2179765.264	273	7984.488		

Table 69. Regression analysis of mass of the heart against body height and weight in normal Japanese females, 0-19 years.

Org. wt. =  $a$  BodyWeight +  $b$

DEP VAR: HEART N: 493 MULTIPLE R: 0.943 SQUARED MULTIPLE R: 0.890  
ADJUSTED SQUARED MULTIPLE R: 0.890 STANDARD ERROR OF ESTIMATE: 30.644

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	14.033	2.240	0.000	.	6.265	0.000
WEIGHT	4.844	0.077	0.943	1.000	62.957	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	3721993.064	1	3721993.064	3963.616	0.000
RESIDUAL	461068.526	491	939.040		

Org. wt. =  $a$  BodyHeight +  $b$

DEP VAR: HEART N: 493 MULTIPLE R: 0.943 SQUARED MULTIPLE R: 0.888  
ADJUSTED SQUARED MULTIPLE R: 0.888 STANDARD ERROR OF ESTIMATE: 30.913

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-113.472	4.065	0.000	.	-27.917	0.000
HEIGHT	228.112	3.648	0.943	1.000	62.537	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	3737213.339	1	3737213.339	3910.916	0.000
RESIDUAL	469192.349	491	955.585		

Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$

DEP VAR: HEART N: 493 MULTIPLE R: 0.949 SQUARED MULTIPLE R: 0.900  
ADJUSTED SQUARED MULTIPLE R: 0.900 STANDARD ERROR OF ESTIMATE: 29.307

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-5.510	2.372	0.000	.	-2.323	0.021
HEIGHT2	105.380	1.587	0.949	1.000	66.381	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	3784690.783	1	3784690.783	4406.492	0.000
RESIDUAL	421714.905	491	858.890		

Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$

DEP VAR: HEART N: 493 MULTIPLE R: 0.938 SQUARED MULTIPLE R: 0.880  
ADJUSTED SQUARED MULTIPLE R: 0.880 STANDARD ERROR OF ESTIMATE: 32.007

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	29.906	2.144	0.000	.	13.947	0.000
HEIGHT3	59.112	0.983	0.938	1.000	60.125	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	3703406.912	1	3703406.912	3615.064	0.000
RESIDUAL	502998.776	491	1024.437		

Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$

DEP VAR: HEART N: 492 MULTIPLE R: 0.953 SQUARED MULTIPLE R: 0.908  
ADJUSTED SQUARED MULTIPLE R: 0.907 STANDARD ERROR OF ESTIMATE: 28.094

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-51.851	7.059	0.000	.	-7.345	0.000
WEIGHT	2.529	0.248	0.493	0.081	10.219	0.000
HEIGHT	113.704	11.657	0.470	0.081	9.754	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	3796490.459	2	1898245.230	2405.089	0.000
RESIDUAL	385949.020	489	789.262		



**Table 70a. Regression analysis of mass of the kidney, left against body height and weight in normal Japanese females, 0-19 years.**

**Org. wt. =  $a$  BodyWeight +  $b$**

DEP VAR: LKIDY N: 498 MULTIPLE R: 0.943 SQUARED MULTIPLE R: 0.889  
ADJUSTED SQUARED MULTIPLE R: 0.889 STANDARD ERROR OF ESTIMATE: 14.555

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	11.910	1.053	0.000	.	11.311	0.000
WEIGHT	2.289	0.036	0.943	1.000	63.097	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	843366.106	1	843366.106	3981.241	0.000
RESIDUAL	105070.145	496	211.835		

**Org. wt. =  $a$  BodyHeight +  $b$**

DEP VAR: LKIDY N: 498 MULTIPLE R: 0.942 SQUARED MULTIPLE R: 0.887  
ADJUSTED SQUARED MULTIPLE R: 0.887 STANDARD ERROR OF ESTIMATE: 14.733

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-48.028	1.916	0.000	.	-25.064	0.000
HEIGHT	107.587	1.726	0.942	1.000	62.351	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	843831.134	1	843831.134	3887.653	0.000
RESIDUAL	107658.852	496	217.054		

**Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$**

DEP VAR: LKIDY N: 498 MULTIPLE R: 0.946 SQUARED MULTIPLE R: 0.894  
ADJUSTED SQUARED MULTIPLE R: 0.894 STANDARD ERROR OF ESTIMATE: 14.235

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	2.986	1.139	0.000	.	2.622	0.009
HEIGHT2	49.583	0.765	0.946	1.000	64.803	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	850980.512	1	850980.512	4199.468	0.000
RESIDUAL	100509.474	496	202.640		

**Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$**

DEP VAR: LKIDY N: 498 MULTIPLE R: 0.935 SQUARED MULTIPLE R: 0.874  
ADJUSTED SQUARED MULTIPLE R: 0.873 STANDARD ERROR OF ESTIMATE: 15.567

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	19.605	1.032	0.000	.	19.001	0.000
HEIGHT3	27.798	0.475	0.935	1.000	58.570	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	831293.882	1	831293.882	3430.409	0.000
RESIDUAL	120196.104	496	242.331		

**Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$**

DEP VAR: LKIDY N: 497 MULTIPLE R: 0.952 SQUARED MULTIPLE R: 0.906  
ADJUSTED SQUARED MULTIPLE R: 0.906 STANDARD ERROR OF ESTIMATE: 13.392

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-18.352	3.365	0.000	.	-5.454	0.000
WEIGHT	1.221	0.119	0.503	0.079	10.299	0.000
HEIGHT	52.366	5.583	0.458	0.079	9.379	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	858543.040	2	429271.520	2393.456	0.000
RESIDUAL	88599.958	494	179.352		

**Table 70b. Regression analysis of mass of the kidney, right against body height and weight in normal Japanese females, 0-19 years.**

**Org. wt. =  $a$  BodyWeight +  $b$**

DEP VAR: RKIDY N: 498 MULTIPLE R: 0.942 SQUARED MULTIPLE R: 0.888  
ADJUSTED SQUARED MULTIPLE R: 0.887 STANDARD ERROR OF ESTIMATE: 14.548

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	11.186	1.051	0.000	.	10.638	0.000
WEIGHT	2.272	0.036	0.942	1.000	62.567	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	828474.446	1	828474.446	3914.687	0.000
RESIDUAL	104969.661	496	211.632		

**Org. wt. =  $a$  BodyHeight +  $b$**

DEP VAR: RKIDY N: 498 MULTIPLE R: 0.939 SQUARED MULTIPLE R: 0.882  
ADJUSTED SQUARED MULTIPLE R: 0.882 STANDARD ERROR OF ESTIMATE: 14.899

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-47.999	1.936	0.000	.	-24.790	0.000
HEIGHT	106.494	1.745	0.939	1.000	61.011	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	826310.718	1	826310.718	3722.331	0.000
RESIDUAL	110105.758	496	221.987		

**Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$**

DEP VAR: RKIDY N: 498 MULTIPLE R: 0.944 SQUARED MULTIPLE R: 0.892  
ADJUSTED SQUARED MULTIPLE R: 0.892 STANDARD ERROR OF ESTIMATE: 14.285

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	2.400	1.142	0.000	.	2.102	0.036
HEIGHT2	49.157	0.768	0.944	1.000	63.974	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	835196.024	1	835196.024	4092.624	0.000
RESIDUAL	101220.452	496	204.073		

**Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$**

DEP VAR: RKIDY N: 498 MULTIPLE R: 0.934 SQUARED MULTIPLE R: 0.873  
ADJUSTED SQUARED MULTIPLE R: 0.873 STANDARD ERROR OF ESTIMATE: 15.474

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	18.818	1.024	0.000	.	18.369	0.000
HEIGHT3	27.593	0.472	0.934	1.000	58.435	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	817648.369	1	817648.369	3414.667	0.000
RESIDUAL	118768.107	496	239.452		

**Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$**

DEP VAR: RKIDY N: 497 MULTIPLE R: 0.950 SQUARED MULTIPLE R: 0.903  
ADJUSTED SQUARED MULTIPLE R: 0.903 STANDARD ERROR OF ESTIMATE: 13.518

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-17.858	3.387	0.000	.	-5.273	0.000
WEIGHT	1.245	0.120	0.516	0.080	10.419	0.000
HEIGHT	50.330	5.621	0.444	0.080	8.953	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	842881.854	2	421440.927	2306.426	0.000
RESIDUAL	90265.997	494	182.725		

Table 71. Regression analysis of mass of the liver against body height and weight in normal Japanese females, 0-19 years.

Org. wt. =  $a$  BodyWeight +  $b$

DEP VAR: LIVER N: 498 MULTIPLE R: 0.954 SQUARED MULTIPLE R: 0.911  
ADJUSTED SQUARED MULTIPLE R: 0.911 STANDARD ERROR OF ESTIMATE: 131.124

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	164.122	9.483	0.000	.	17.306	0.000
WEIGHT	23.400	0.328	0.954	1.000	71.241	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.872608E+08	1	.872608E+08	5075.257	0.000
RESIDUAL	8527917.866	496	17193.383		

Org. wt. =  $a$  BodyHeight +  $b$

DEP VAR: LIVER N: 498 MULTIPLE R: 0.958 SQUARED MULTIPLE R: 0.918  
ADJUSTED SQUARED MULTIPLE R: 0.918 STANDARD ERROR OF ESTIMATE: 125.970

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-453.298	16.398	0.000	.	-27.643	0.000
HEIGHT	1103.777	14.796	0.958	1.000	74.598	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.883061E+08	1	.883061E+08	5564.845	0.000
RESIDUAL	7870806.542	496	15868.562		

Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$

DEP VAR: LIVER N: 498 MULTIPLE R: 0.958 SQUARED MULTIPLE R: 0.918  
ADJUSTED SQUARED MULTIPLE R: 0.918 STANDARD ERROR OF ESTIMATE: 125.753

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	72.610	10.058	0.000	.	7.219	0.000
HEIGHT2	506.906	6.782	0.958	1.000	74.738	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.883333E+08	1	.883333E+08	5585.831	0.000
RESIDUAL	7843648.273	496	15813.807		

Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$

DEP VAR: LIVER N: 498 MULTIPLE R: 0.944 SQUARED MULTIPLE R: 0.891  
ADJUSTED SQUARED MULTIPLE R: 0.891 STANDARD ERROR OF ESTIMATE: 145.321

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	244.151	9.620	0.000	.	25.379	0.000
HEIGHT3	283.296	4.447	0.944	1.000	63.704	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.857022E+08	1	.857022E+08	4058.199	0.000
RESIDUAL	.104747E+08	496	21118.289		

Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$

DEP VAR: LIVER N: 497 MULTIPLE R: 0.966 SQUARED MULTIPLE R: 0.934  
ADJUSTED SQUARED MULTIPLE R: 0.934 STANDARD ERROR OF ESTIMATE: 113.233

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-188.331	28.344	0.000	.	-6.645	0.000
WEIGHT	10.940	1.001	0.446	0.080	10.932	0.000
HEIGHT	610.305	47.020	0.530	0.080	12.980	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.893732E+08	2	.446866E+08	3485.251	0.000
RESIDUAL	6333882.376	494	12821.624		

Table 72a. Regression analysis of mass of the lung, left against body height and weight in normal Japanese females, 0-19 years.

**Org. wt. =  $a$  BodyWeight +  $b$**

DEP VAR: LLUNG N: 479 MULTIPLE R: 0.932 SQUARED MULTIPLE R: 0.868  
ADJUSTED SQUARED MULTIPLE R: 0.868 STANDARD ERROR OF ESTIMATE: 45.023

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	25.095	3.348	0.000	.	7.496	0.000
WEIGHT	6.399	0.114	0.932	1.000	56.012	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	6359569.843	1	6359569.843	3137.360	0.000
RESIDUAL	966900.403	477	2027.045		

**Org. wt. =  $a$  BodyHeight +  $b$**

DEP VAR: LLUNG N: 479 MULTIPLE R: 0.899 SQUARED MULTIPLE R: 0.808  
ADJUSTED SQUARED MULTIPLE R: 0.807 STANDARD ERROR OF ESTIMATE: 54.536

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-132.401	7.276	0.000	.	-18.196	0.000
HEIGHT	291.153	6.507	0.899	1.000	44.746	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	5954765.632	1	5954765.632	2002.179	0.000
RESIDUAL	1418666.117	477	2974.143		

**Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$**

DEP VAR: LLUNG N: 479 MULTIPLE R: 0.907 SQUARED MULTIPLE R: 0.824  
ADJUSTED SQUARED MULTIPLE R: 0.823 STANDARD ERROR OF ESTIMATE: 52.226

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	4.977	4.295	0.000	.	1.159	0.247
HEIGHT2	134.762	2.856	0.907	1.000	47.184	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	6072382.044	1	6072382.044	2226.299	0.000
RESIDUAL	1301049.706	477	2727.568		

**Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$**

DEP VAR: LLUNG N: 479 MULTIPLE R: 0.901 SQUARED MULTIPLE R: 0.812  
ADJUSTED SQUARED MULTIPLE R: 0.811 STANDARD ERROR OF ESTIMATE: 53.930

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	49.891	3.674	0.000	.	13.581	0.000
HEIGHT3	75.787	1.671	0.901	1.000	45.367	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	5986082.095	1	5986082.095	2058.141	0.000
RESIDUAL	1387349.654	477	2908.490		

**Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$**

DEP VAR: LLUNG N: 478 MULTIPLE R: 0.932 SQUARED MULTIPLE R: 0.868  
ADJUSTED SQUARED MULTIPLE R: 0.868 STANDARD ERROR OF ESTIMATE: 45.064

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	15.530	11.590	0.000	.	1.340	0.181
WEIGHT	6.061	0.407	0.883	0.079	14.900	0.000
HEIGHT	16.600	19.169	0.051	0.079	0.866	0.387

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	6361861.199	2	3180930.599	1566.393	0.000
RESIDUAL	964599.789	475	2030.736		

Table 72b. Regression analysis of mass of the lung, right against body height and weight in normal Japanese females, 0-19 years.

Org. wt. =  $a$  BodyWeight +  $b$

DEP VAR: RLUNG N: 444 MULTIPLE R: 0.929 SQUARED MULTIPLE R: 0.864  
ADJUSTED SQUARED MULTIPLE R: 0.863 STANDARD ERROR OF ESTIMATE: 50.941

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	34.130	3.889	0.000	.	8.776	0.000
WEIGHT	7.186	0.136	0.929	1.000	52.910	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	7264629.373	1	7264629.373	2799.436	0.000
RESIDUAL	1147004.580	442	2595.033		

Org. wt. =  $a$  BodyHeight +  $b$

DEP VAR: RLUNG N: 444 MULTIPLE R: 0.903 SQUARED MULTIPLE R: 0.815  
ADJUSTED SQUARED MULTIPLE R: 0.815 STANDARD ERROR OF ESTIMATE: 59.410

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-142.226	8.149	0.000	.	-17.453	0.000
HEIGHT	325.621	7.370	0.903	1.000	44.184	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	6890435.778	1	6890435.778	1952.189	0.000
RESIDUAL	1560081.058	442	3529.595		

Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$

DEP VAR: RLUNG N: 444 MULTIPLE R: 0.911 SQUARED MULTIPLE R: 0.831  
ADJUSTED SQUARED MULTIPLE R: 0.830 STANDARD ERROR OF ESTIMATE: 56.911

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	11.117	4.796	0.000	.	2.318	0.021
HEIGHT2	150.876	3.241	0.911	1.000	46.552	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	7018933.371	1	7018933.371	2167.089	0.000
RESIDUAL	1431583.464	442	3238.877		

Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$

DEP VAR: RLUNG N: 444 MULTIPLE R: 0.904 SQUARED MULTIPLE R: 0.818  
ADJUSTED SQUARED MULTIPLE R: 0.817 STANDARD ERROR OF ESTIMATE: 59.065

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	61.211	4.120	0.000	.	14.856	0.000
HEIGHT3	84.813	1.906	0.904	1.000	44.501	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	6908539.567	1	6908539.567	1980.298	0.000
RESIDUAL	1541977.269	442	3488.636		

Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$

DEP VAR: RLUNG N: 443 MULTIPLE R: 0.930 SQUARED MULTIPLE R: 0.865  
ADJUSTED SQUARED MULTIPLE R: 0.865 STANDARD ERROR OF ESTIMATE: 50.699

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	4.949	13.347	0.000	.	0.371	0.711
WEIGHT	6.144	0.476	0.795	0.081	12.906	0.000
HEIGHT	50.586	22.203	0.140	0.081	2.278	0.023

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	7273477.658	2	3636738.829	1414.865	0.000
RESIDUAL	1130966.699	440	2570.379		

**Table 73. Regression analysis of mass of the pancreas against body height and weight in normal Japanese females, 0-19 years.**

**Org. wt. =  $a$  BodyWeight +  $b$**

DEP VAR: PANCRE N: 484 MULTIPLE R: 0.942 SQUARED MULTIPLE R: 0.888  
ADJUSTED SQUARED MULTIPLE R: 0.888 STANDARD ERROR OF ESTIMATE: 12.568

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	3.463	0.927	0.000	.	3.737	0.000
WEIGHT	1.967	0.032	0.942	1.000	61.835	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	603905.334	1	603905.334	3823.581	0.000
RESIDUAL	76128.216	482	157.942		

**Org. wt. =  $a$  BodyHeight +  $b$**

DEP VAR: PANCRE N: 484 MULTIPLE R: 0.941 SQUARED MULTIPLE R: 0.885  
ADJUSTED SQUARED MULTIPLE R: 0.885 STANDARD ERROR OF ESTIMATE: 12.775

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-48.303	1.696	0.000	.	-28.485	0.000
HEIGHT	92.615	1.521	0.941	1.000	60.888	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	605009.103	1	605009.103	3707.312	0.000
RESIDUAL	78659.261	482	163.193		

**Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$**

DEP VAR: PANCRE N: 484 MULTIPLE R: 0.945 SQUARED MULTIPLE R: 0.893  
ADJUSTED SQUARED MULTIPLE R: 0.893 STANDARD ERROR OF ESTIMATE: 12.309

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-4.324	1.005	0.000	.	-4.301	0.000
HEIGHT2	42.667	0.672	0.945	1.000	63.484	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	610637.189	1	610637.189	4030.157	0.000
RESIDUAL	73031.175	482	151.517		

**Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$**

DEP VAR: PANCRE N: 484 MULTIPLE R: 0.935 SQUARED MULTIPLE R: 0.873  
ADJUSTED SQUARED MULTIPLE R: 0.873 STANDARD ERROR OF ESTIMATE: 13.396

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	10.055	0.905	0.000	.	11.106	0.000
HEIGHT3	23.906	0.414	0.935	1.000	57.687	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	597173.214	1	597173.214	3327.788	0.000
RESIDUAL	86495.150	482	179.451		

**Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$**

DEP VAR: PANCRE N: 483 MULTIPLE R: 0.951 SQUARED MULTIPLE R: 0.905  
ADJUSTED SQUARED MULTIPLE R: 0.904 STANDARD ERROR OF ESTIMATE: 11.607

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-22.630	2.956	0.000	.	-7.654	0.000
WEIGHT	1.052	0.104	0.504	0.080	10.154	0.000
HEIGHT	45.004	4.882	0.457	0.080	9.219	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	615237.065	2	307618.532	2283.368	0.000
RESIDUAL	64666.261	480	134.721		

**Table 74. Regression analysis of mass of the pituitary against body height and weight in normal Japanese females, 0-19 years.**

**Org. wt. =  $a$  BodyWeight +  $b$**

DEP VAR: PITUIT N: 395 MULTIPLE R: 0.900 SQUARED MULTIPLE R: 0.810  
ADJUSTED SQUARED MULTIPLE R: 0.810 STANDARD ERROR OF ESTIMATE: 0.081

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.154	0.007	0.000	.	21.561	0.000
WEIGHT	0.009	0.000	0.900	1.000	40.978	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	11.106	1	11.106	1679.237	0.000
RESIDUAL	2.599	393	0.007		

**Org. wt. =  $a$  BodyHeight +  $b$**

DEP VAR: PITUIT N: 396 MULTIPLE R: 0.846 SQUARED MULTIPLE R: 0.715  
ADJUSTED SQUARED MULTIPLE R: 0.714 STANDARD ERROR OF ESTIMATE: 0.100

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-0.087	0.016	0.000	.	-5.378	0.000
HEIGHT	0.429	0.014	0.846	1.000	31.446	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	9.867	1	9.867	988.837	0.000
RESIDUAL	3.932	394	0.010		

**Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$**

DEP VAR: PITUIT N: 396 MULTIPLE R: 0.869 SQUARED MULTIPLE R: 0.755  
ADJUSTED SQUARED MULTIPLE R: 0.755 STANDARD ERROR OF ESTIMATE: 0.093

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.120	0.009	0.000	.	13.069	0.000
HEIGHT2	0.197	0.006	0.869	1.000	34.878	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	10.423	1	10.423	1216.467	0.000
RESIDUAL	3.376	394	0.009		

**Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$**

DEP VAR: PITUIT N: 396 MULTIPLE R: 0.876 SQUARED MULTIPLE R: 0.767  
ADJUSTED SQUARED MULTIPLE R: 0.766 STANDARD ERROR OF ESTIMATE: 0.090

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.189	0.007	0.000	.	25.824	0.000
HEIGHT3	0.110	0.003	0.876	1.000	36.016	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	10.584	1	10.584	1297.127	0.000
RESIDUAL	3.215	394	0.008		

**Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$**

DEP VAR: PITUIT N: 395 MULTIPLE R: 0.902 SQUARED MULTIPLE R: 0.814  
ADJUSTED SQUARED MULTIPLE R: 0.813 STANDARD ERROR OF ESTIMATE: 0.081

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.218	0.025	0.000	.	8.830	0.000
WEIGHT	0.011	0.001	1.095	0.083	14.504	0.000
HEIGHT	-0.103	0.038	-0.204	0.083	-2.697	0.007

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	11.154	2	5.577	856.661	0.000
RESIDUAL	2.552	392	0.007		

Table 75. Regression analysis of mass of the spleen against body height and weight in normal Japanese females, 0-19 years.

Org. wt. =  $a$  BodyWeight +  $b$

DEP VAR: SPLEEN N: 487 MULTIPLE R: 0.893 SQUARED MULTIPLE R: 0.798  
ADJUSTED SQUARED MULTIPLE R: 0.797 STANDARD ERROR OF ESTIMATE: 20.083

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	14.982	1.482	0.000	.	10.112	0.000
WEIGHT	2.210	0.051	0.893	1.000	43.742	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	771718.822	1	771718.822	1913.346	0.000
RESIDUAL	195617.285	485	403.335		

Org. wt. =  $a$  BodyHeight +  $b$

DEP VAR: SPLEEN N: 487 MULTIPLE R: 0.904 SQUARED MULTIPLE R: 0.817  
ADJUSTED SQUARED MULTIPLE R: 0.816 STANDARD ERROR OF ESTIMATE: 19.147

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-45.096	2.546	0.000	.	-17.713	0.000
HEIGHT	105.820	2.276	0.904	1.000	46.489	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	792343.474	1	792343.474	2161.221	0.000
RESIDUAL	177809.984	485	366.619		

Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$

DEP VAR: SPLEEN N: 487 MULTIPLE R: 0.898 SQUARED MULTIPLE R: 0.806  
ADJUSTED SQUARED MULTIPLE R: 0.806 STANDARD ERROR OF ESTIMATE: 19.694

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	5.994	1.610	0.000	.	3.722	0.000
HEIGHT2	48.108	1.071	0.898	1.000	44.902	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	782035.379	1	782035.379	2016.219	0.000
RESIDUAL	188118.079	485	387.872		

Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$

DEP VAR: SPLEEN N: 487 MULTIPLE R: 0.879 SQUARED MULTIPLE R: 0.773  
ADJUSTED SQUARED MULTIPLE R: 0.773 STANDARD ERROR OF ESTIMATE: 21.309

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	22.719	1.441	0.000	.	15.768	0.000
HEIGHT3	26.659	0.656	0.879	1.000	40.639	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	749928.092	1	749928.092	1651.559	0.000
RESIDUAL	220225.366	485	454.073		

Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$

DEP VAR: SPLEEN N: 486 MULTIPLE R: 0.908 SQUARED MULTIPLE R: 0.825  
ADJUSTED SQUARED MULTIPLE R: 0.824 STANDARD ERROR OF ESTIMATE: 18.691

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-24.330	4.788	0.000	.	-5.082	0.000
WEIGHT	0.842	0.166	0.341	0.080	5.061	0.000
HEIGHT	67.482	7.880	0.576	0.080	8.564	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	796661.803	2	398330.901	1140.142	0.000
RESIDUAL	168745.531	483	349.370		



**Table 76. Regression analysis of mass of the thymus against body height and weight in normal Japanese females, 0-19 years.**

**Org. wt. =  $a$  BodyWeight +  $b$**

DEP VAR: THYMUS N: 441 MULTIPLE R: 0.144 SQUARED MULTIPLE R: 0.021  
ADJUSTED SQUARED MULTIPLE R: 0.019 STANDARD ERROR OF ESTIMATE: 8.725

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	29.776	0.683	0.000	.	43.595	0.000
WEIGHT	0.071	0.023	0.144	1.000	3.052	0.002

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	709.210	1	709.210	9.316	0.002
RESIDUAL	33418.907	439	76.125		

**Org. wt. =  $a$  BodyHeight +  $b$**

DEP VAR: THYMUS N: 442 MULTIPLE R: 0.262 SQUARED MULTIPLE R: 0.068  
ADJUSTED SQUARED MULTIPLE R: 0.066 STANDARD ERROR OF ESTIMATE: 8.501

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	24.978	1.205	0.000	.	20.736	0.000
HEIGHT	6.095	1.072	0.262	1.000	5.685	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	2335.222	1	2335.222	32.316	0.000
RESIDUAL	31794.939	440	72.261		

**Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$**

DEP VAR: THYMUS N: 442 MULTIPLE R: 0.207 SQUARED MULTIPLE R: 0.043  
ADJUSTED SQUARED MULTIPLE R: 0.041 STANDARD ERROR OF ESTIMATE: 8.616

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	28.625	0.752	0.000	.	38.078	0.000
HEIGHT2	2.221	0.499	0.207	1.000	4.448	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1468.821	1	1468.821	19.787	0.000
RESIDUAL	32661.340	440	74.230		

**Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$**

DEP VAR: THYMUS N: 442 MULTIPLE R: 0.162 SQUARED MULTIPLE R: 0.026  
ADJUSTED SQUARED MULTIPLE R: 0.024 STANDARD ERROR OF ESTIMATE: 8.690

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	29.809	0.625	0.000	.	47.669	0.000
HEIGHT3	0.986	0.286	0.162	1.000	3.451	0.001

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	899.685	1	899.685	11.913	0.001
RESIDUAL	33230.476	440	75.524		

**Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$**

DEP VAR: THYMUS N: 441 MULTIPLE R: 0.451 SQUARED MULTIPLE R: 0.203  
ADJUSTED SQUARED MULTIPLE R: 0.200 STANDARD ERROR OF ESTIMATE: 7.878

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	9.723	2.094	0.000	.	4.643	0.000
WEIGHT	-0.620	0.072	-1.255	0.085	-8.596	0.000
HEIGHT	34.162	3.409	1.463	0.085	10.021	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	6942.007	2	3471.004	55.922	0.000
RESIDUAL	27186.110	438	62.069		

Table 77. Regression analysis of mass of the thyroid against body height and weight in normal Japanese females, 0-19 years.

Org. wt. =  $a$  BodyWeight +  $b$

DEP VAR: THYRD N: 485 MULTIPLE R: 0.924 SQUARED MULTIPLE R: 0.853  
ADJUSTED SQUARED MULTIPLE R: 0.853 STANDARD ERROR OF ESTIMATE: 2.310

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-0.095	0.168	0.000	.	-0.562	0.574
WEIGHT	0.309	0.006	0.924	1.000	52.923	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	14949.649	1	14949.649	2800.844	0.000
RESIDUAL	2578.038	483	5.338		

Org. wt. =  $a$  BodyHeight +  $b$

DEP VAR: THYRD N: 485 MULTIPLE R: 0.884 SQUARED MULTIPLE R: 0.782  
ADJUSTED SQUARED MULTIPLE R: 0.782 STANDARD ERROR OF ESTIMATE: 2.813

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-7.504	0.368	0.000	.	-20.414	0.000
HEIGHT	13.891	0.333	0.884	1.000	41.666	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	13738.029	1	13738.029	1736.017	0.000
RESIDUAL	3822.236	483	7.914		

Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$

DEP VAR: THYRD N: 485 MULTIPLE R: 0.905 SQUARED MULTIPLE R: 0.819  
ADJUSTED SQUARED MULTIPLE R: 0.819 STANDARD ERROR OF ESTIMATE: 2.565

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-1.094	0.206	0.000	.	-5.308	0.000
HEIGHT <sup>2</sup>	6.541	0.140	0.905	1.000	46.757	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	14382.678	1	14382.678	2186.198	0.000
RESIDUAL	3177.587	483	6.579		

Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$

DEP VAR: THYRD N: 485 MULTIPLE R: 0.909 SQUARED MULTIPLE R: 0.826  
ADJUSTED SQUARED MULTIPLE R: 0.825 STANDARD ERROR OF ESTIMATE: 2.517

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.984	0.168	0.000	.	5.865	0.000
HEIGHT <sup>3</sup>	3.734	0.078	0.909	1.000	47.837	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	14499.823	1	14499.823	2288.367	0.000
RESIDUAL	3060.442	483	6.336		

Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$

DEP VAR: THYRD N: 484 MULTIPLE R: 0.924 SQUARED MULTIPLE R: 0.855  
ADJUSTED SQUARED MULTIPLE R: 0.854 STANDARD ERROR OF ESTIMATE: 2.299

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.308	0.585	0.000	.	0.527	0.599
WEIGHT	0.323	0.021	0.968	0.078	15.554	0.000
HEIGHT	-0.716	0.977	-0.046	0.078	-0.733	0.464

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	14934.477	2	7467.238	1412.942	0.000
RESIDUAL	2542.031	481	5.285		

**Table 78a. Regression analysis of mass of the adrenal, left against body height and weight in normal Japanese females, 20-49 years.**

**Org. wt. =  $a$  BodyWeight +  $b$**

DEP VAR: LADRE N: 443 MULTIPLE R: 0.131 SQUARED MULTIPLE R: 0.017  
ADJUSTED SQUARED MULTIPLE R: 0.015 STANDARD ERROR OF ESTIMATE: 1.445

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	3.419	1.135	0.000	.	3.012	0.003
WEIGHT	0.061	0.022	0.131	1.000	2.782	0.006

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	16.151	1	16.151	7.738	0.006
RESIDUAL	920.502	441	2.087		

**Org. wt. =  $a$  BodyHeight +  $b$**

DEP VAR: LADRE N: 443 MULTIPLE R: 0.111 SQUARED MULTIPLE R: 0.012  
ADJUSTED SQUARED MULTIPLE R: 0.010 STANDARD ERROR OF ESTIMATE: 1.448

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	2.627	1.684	0.000	.	1.560	0.120
HEIGHT	2.581	1.101	0.111	1.000	2.344	0.020

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	11.527	1	11.527	5.495	0.020
RESIDUAL	925.126	441	2.098		

**Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$**

DEP VAR: LADRE N: 443 MULTIPLE R: 0.109 SQUARED MULTIPLE R: 0.012  
ADJUSTED SQUARED MULTIPLE R: 0.010 STANDARD ERROR OF ESTIMATE: 1.449

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	4.624	0.847	0.000	.	5.459	0.000
HEIGHT2	0.833	0.361	0.109	1.000	2.307	0.022

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	11.171	1	11.171	5.323	0.022
RESIDUAL	925.482	441	2.099		

**Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$**

DEP VAR: LADRE N: 443 MULTIPLE R: 0.108 SQUARED MULTIPLE R: 0.012  
ADJUSTED SQUARED MULTIPLE R: 0.009 STANDARD ERROR OF ESTIMATE: 1.449

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	5.280	0.569	0.000	.	9.277	0.000
HEIGHT3	0.360	0.157	0.108	1.000	2.286	0.023

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	10.970	1	10.970	5.226	0.023
RESIDUAL	925.683	441	2.099		

**Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$**

DEP VAR: LADRE N: 443 MULTIPLE R: 0.140 SQUARED MULTIPLE R: 0.020  
ADJUSTED SQUARED MULTIPLE R: 0.015 STANDARD ERROR OF ESTIMATE: 1.445

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	2.114	1.704	0.000	.	1.241	0.215
WEIGHT	0.047	0.026	0.101	0.717	1.809	0.071
HEIGHT	1.333	1.297	0.057	0.717	1.028	0.305

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	18.354	2	9.177	4.397	0.013
RESIDUAL	918.299	440	2.087		

**Table 78b. Regression analysis of mass of the adrenal, right against body height and weight in normal Japanese females, 20-49 years.**

**Org. wt. =  $a$  BodyWeight +  $b$**

DEP VAR: RADRE N: 443 MULTIPLE R: 0.190 SQUARED MULTIPLE R: 0.036  
ADJUSTED SQUARED MULTIPLE R: 0.034 STANDARD ERROR OF ESTIMATE: 1.338

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1.984	1.054	0.000	.	1.882	0.060
WEIGHT	0.082	0.020	0.190	1.000	4.072	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	29.668	1	29.668	16.583	0.000
RESIDUAL	788.980	441	1.789		

**Org. wt. =  $a$  BodyHeight +  $b$**

DEP VAR: RADRE N: 443 MULTIPLE R: 0.062 SQUARED MULTIPLE R: 0.004  
ADJUSTED SQUARED MULTIPLE R: 0.002 STANDARD ERROR OF ESTIMATE: 1.360

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	4.212	1.581	0.000	.	2.663	0.008
HEIGHT	1.345	1.034	0.062	1.000	1.301	0.194

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	3.132	1	3.132	1.693	0.194
RESIDUAL	815.517	441	1.849		

**Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$**

DEP VAR: RADRE N: 443 MULTIPLE R: 0.064 SQUARED MULTIPLE R: 0.004  
ADJUSTED SQUARED MULTIPLE R: 0.002 STANDARD ERROR OF ESTIMATE: 1.360

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	5.198	0.795	0.000	.	6.538	0.000
HEIGHT2	0.457	0.339	0.064	1.000	1.349	0.178

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	3.366	1	3.366	1.821	0.178
RESIDUAL	815.282	441	1.849		

**Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$**

DEP VAR: RADRE N: 443 MULTIPLE R: 0.065 SQUARED MULTIPLE R: 0.004  
ADJUSTED SQUARED MULTIPLE R: 0.002 STANDARD ERROR OF ESTIMATE: 1.360

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	5.547	0.534	0.000	.	10.384	0.000
HEIGHT3	0.201	0.148	0.065	1.000	1.360	0.174

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	3.420	1	3.420	1.850	0.174
RESIDUAL	815.229	441	1.849		

**Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$**

DEP VAR: RADRE N: 443 MULTIPLE R: 0.196 SQUARED MULTIPLE R: 0.038  
ADJUSTED SQUARED MULTIPLE R: 0.034 STANDARD ERROR OF ESTIMATE: 1.338

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	3.149	1.578	0.000	.	1.995	0.047
WEIGHT	0.095	0.024	0.219	0.718	3.977	0.000
HEIGHT	-1.190	1.200	-0.055	0.718	-0.991	0.322

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	31.426	2	15.713	8.782	0.000
RESIDUAL	787.222	440	1.789		

**Table 79. Regression analysis of mass of the brain against body height and weight in normal Japanese females, 20-49 years.**

**Org. wt. = a BodyWeight + b**

DEP VAR: BRAIN N: 439 MULTIPLE R: 0.107 SQUARED MULTIPLE R: 0.011  
ADJUSTED SQUARED MULTIPLE R: 0.009 STANDARD ERROR OF ESTIMATE: 76.570

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1171.520	60.556	0.000	.	19.346	0.000
WEIGHT	2.613	1.162	0.107	1.000	2.248	0.025

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	29638.883	1	29638.883	5.055	0.025
RESIDUAL	2562102.461	437	5862.935		

**Org. wt. = a BodyHeight + b**

DEP VAR: BRAIN N: 439 MULTIPLE R: 0.239 SQUARED MULTIPLE R: 0.057  
ADJUSTED SQUARED MULTIPLE R: 0.055 STANDARD ERROR OF ESTIMATE: 74.776

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	853.316	88.251	0.000	.	9.669	0.000
HEIGHT	296.919	57.656	0.239	1.000	5.150	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	148290.281	1	148290.281	26.521	0.000
RESIDUAL	2443451.063	437	5591.421		

**Org. wt. = a BodyHeight<sup>2</sup> + b**

DEP VAR: BRAIN N: 439 MULTIPLE R: 0.241 SQUARED MULTIPLE R: 0.058  
ADJUSTED SQUARED MULTIPLE R: 0.056 STANDARD ERROR OF ESTIMATE: 74.738

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1077.843	44.337	0.000	.	24.310	0.000
HEIGHT2	98.027	18.870	0.241	1.000	5.195	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	150746.872	1	150746.872	26.988	0.000
RESIDUAL	2440994.472	437	5585.800		

**Org. wt. = a BodyHeight<sup>3</sup> + b**

DEP VAR: BRAIN N: 439 MULTIPLE R: 0.242 SQUARED MULTIPLE R: 0.059  
ADJUSTED SQUARED MULTIPLE R: 0.057 STANDARD ERROR OF ESTIMATE: 74.716

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1153.104	29.772	0.000	.	38.731	0.000
HEIGHT3	42.934	8.223	0.242	1.000	5.221	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	152178.501	1	152178.501	27.260	0.000
RESIDUAL	2439562.843	437	5582.524		

**Org. wt. = a BodyHeight + b BodyWeight + c**

DEP VAR: BRAIN N: 439 MULTIPLE R: 0.240 SQUARED MULTIPLE R: 0.058  
ADJUSTED SQUARED MULTIPLE R: 0.053 STANDARD ERROR OF ESTIMATE: 74.838

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	860.752	89.464	0.000	.	9.621	0.000
WEIGHT	-0.701	1.342	-0.029	0.716	-0.522	0.602
HEIGHT	315.908	68.197	0.254	0.716	4.632	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	149819.007	2	74909.504	13.375	0.000
RESIDUAL	2441922.337	436	5600.739		

Table 80. Regression analysis of mass of the heart against body height and weight in normal Japanese females, 20-49 years.

Org. wt. =  $a$  BodyWeight +  $b$

DEP VAR: HEART N: 440 MULTIPLE R: 0.156 SQUARED MULTIPLE R: 0.024  
ADJUSTED SQUARED MULTIPLE R: 0.022 STANDARD ERROR OF ESTIMATE: 84.431

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	87.215	66.770	0.000	.	1.306	0.192
WEIGHT	4.234	1.282	0.156	1.000	3.303	0.001

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	77793.214	1	77793.214	10.913	0.001
RESIDUAL	3122351.104	438	7128.655		

Org. wt. =  $a$  BodyHeight +  $b$

DEP VAR: HEART N: 440 MULTIPLE R: 0.027 SQUARED MULTIPLE R: 0.001  
ADJUSTED SQUARED MULTIPLE R: 0.000 STANDARD ERROR OF ESTIMATE: 85.445

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	250.579	100.257	0.000	.	2.499	0.013
HEIGHT	37.171	65.547	0.027	1.000	0.567	0.571

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	2347.834	1	2347.834	0.322	0.571
RESIDUAL	3197796.484	438	7300.905		

Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$

DEP VAR: HEART N: 440 MULTIPLE R: 0.029 SQUARED MULTIPLE R: 0.001  
ADJUSTED SQUARED MULTIPLE R: 0.000 STANDARD ERROR OF ESTIMATE: 85.440

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	276.586	50.449	0.000	.	5.482	0.000
HEIGHT2	13.171	21.502	0.029	1.000	0.613	0.541

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	2738.889	1	2738.889	0.375	0.541
RESIDUAL	3197405.429	438	7300.012		

Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$

DEP VAR: HEART N: 440 MULTIPLE R: 0.031 SQUARED MULTIPLE R: 0.001  
ADJUSTED SQUARED MULTIPLE R: 0.000 STANDARD ERROR OF ESTIMATE: 85.436

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	285.719	33.917	0.000	.	8.424	0.000
HEIGHT3	6.041	9.388	0.031	1.000	0.643	0.520

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	3022.474	1	3022.474	0.414	0.520
RESIDUAL	3197121.844	438	7299.365		

Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$

DEP VAR: HEART N: 440 MULTIPLE R: 0.169 SQUARED MULTIPLE R: 0.028  
ADJUSTED SQUARED MULTIPLE R: 0.024 STANDARD ERROR OF ESTIMATE: 84.348

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	189.840	100.453	0.000	.	1.890	0.059
WEIGHT	5.314	1.505	0.196	0.724	3.531	0.000
HEIGHT	-103.903	76.043	-0.076	0.724	-1.366	0.173

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	91075.727	2	45537.863	6.401	0.002
RESIDUAL	3109068.592	437	7114.573		

**Table 81a. Regression analysis of mass of the kidney, left against body height and weight in normal Japanese females, 20-49 years.**

**Org. wt. =  $a$  BodyWeight +  $b$**

DEP VAR: LKIDY N: 444 MULTIPLE R: 0.133 SQUARED MULTIPLE R: 0.018  
ADJUSTED SQUARED MULTIPLE R: 0.015 STANDARD ERROR OF ESTIMATE: 25.189

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	86.670	19.745	0.000	.	4.390	0.000
WEIGHT	1.068	0.379	0.133	1.000	2.817	0.005

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	5036.174	1	5036.174	7.937	0.005
RESIDUAL	280447.779	442	634.497		

**Org. wt. =  $a$  BodyHeight +  $b$**

DEP VAR: LKIDY N: 444 MULTIPLE R: 0.184 SQUARED MULTIPLE R: 0.034  
ADJUSTED SQUARED MULTIPLE R: 0.032 STANDARD ERROR OF ESTIMATE: 24.978

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	25.324	29.642	0.000	.	0.854	0.393
HEIGHT	76.437	19.371	0.184	1.000	3.946	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	9714.290	1	9714.290	15.570	0.000
RESIDUAL	275769.663	442	623.913		

**Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$**

DEP VAR: LKIDY N: 444 MULTIPLE R: 0.187 SQUARED MULTIPLE R: 0.035  
ADJUSTED SQUARED MULTIPLE R: 0.033 STANDARD ERROR OF ESTIMATE: 24.966

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	82.857	14.869	0.000	.	5.573	0.000
HEIGHT2	25.351	6.332	0.187	1.000	4.004	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	9990.731	1	9990.731	16.029	0.000
RESIDUAL	275493.222	442	623.288		

**Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$**

DEP VAR: LKIDY N: 444 MULTIPLE R: 0.191 SQUARED MULTIPLE R: 0.037  
ADJUSTED SQUARED MULTIPLE R: 0.034 STANDARD ERROR OF ESTIMATE: 24.946

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	101.678	9.967	0.000	.	10.201	0.000
HEIGHT3	11.283	2.756	0.191	1.000	4.094	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	10431.035	1	10431.035	16.762	0.000
RESIDUAL	275052.917	442	622.292		

**Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$**

DEP VAR: LKIDY N: 444 MULTIPLE R: 0.188 SQUARED MULTIPLE R: 0.035  
ADJUSTED SQUARED MULTIPLE R: 0.031 STANDARD ERROR OF ESTIMATE: 24.988

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	22.066	29.922	0.000	.	0.737	0.461
WEIGHT	0.366	0.449	0.046	0.701	0.815	0.415
HEIGHT	66.113	23.148	0.160	0.701	2.856	0.004

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	10129.477	2	5064.739	8.112	0.000
RESIDUAL	275354.475	441	624.387		

Table 81b. Regression analysis of mass of the kidney, right against body height and weight in normal Japanese females, 20-49 years.

Org. wt. =  $a$  BodyWeight +  $b$

DEP VAR: RKIDY N: 443 MULTIPLE R: 0.154 SQUARED MULTIPLE R: 0.024  
ADJUSTED SQUARED MULTIPLE R: 0.022 STANDARD ERROR OF ESTIMATE: 25.814

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	69.330	20.253	0.000	.	3.423	0.001
WEIGHT	1.273	0.389	0.154	1.000	3.274	0.001

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	7140.858	1	7140.858	10.716	0.001
RESIDUAL	293869.864	441	666.372		

Org. wt. =  $a$  BodyHeight +  $b$

DEP VAR: RKIDY N: 443 MULTIPLE R: 0.179 SQUARED MULTIPLE R: 0.032  
ADJUSTED SQUARED MULTIPLE R: 0.030 STANDARD ERROR OF ESTIMATE: 25.705

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	20.445	30.179	0.000	.	0.677	0.498
HEIGHT	75.264	19.724	0.179	1.000	3.816	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	9620.586	1	9620.586	14.560	0.000
RESIDUAL	291390.136	441	660.749		

Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$

DEP VAR: RKIDY N: 443 MULTIPLE R: 0.181 SQUARED MULTIPLE R: 0.033  
ADJUSTED SQUARED MULTIPLE R: 0.031 STANDARD ERROR OF ESTIMATE: 25.694

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	77.048	15.165	0.000	.	5.081	0.000
HEIGHT2	24.981	6.459	0.181	1.000	3.867	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	9874.362	1	9874.362	14.957	0.000
RESIDUAL	291136.360	441	660.173		

Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$

DEP VAR: RKIDY N: 443 MULTIPLE R: 0.183 SQUARED MULTIPLE R: 0.034  
ADJUSTED SQUARED MULTIPLE R: 0.031 STANDARD ERROR OF ESTIMATE: 25.683

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	95.893	10.185	0.000	.	9.415	0.000
HEIGHT3	11.035	2.817	0.183	1.000	3.918	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	10123.692	1	10123.692	15.348	0.000
RESIDUAL	290887.031	441	659.608		

Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$

DEP VAR: RKIDY N: 443 MULTIPLE R: 0.191 SQUARED MULTIPLE R: 0.037  
ADJUSTED SQUARED MULTIPLE R: 0.032 STANDARD ERROR OF ESTIMATE: 25.672

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	13.847	30.480	0.000	.	0.454	0.650
WEIGHT	0.670	0.460	0.081	0.707	1.456	0.146
HEIGHT	56.812	23.424	0.135	0.707	2.425	0.016

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	11017.875	2	5508.937	8.359	0.000
RESIDUAL	289992.848	440	659.075		



**Table 82. Regression analysis of mass of the liver against body height and weight in normal Japanese females, 20-49 years.**

**Org. wt. =  $a$  BodyWeight +  $b$**

DEP VAR: LIVER N: 441 MULTIPLE R: 0.201 SQUARED MULTIPLE R: 0.040  
ADJUSTED SQUARED MULTIPLE R: 0.038 STANDARD ERROR OF ESTIMATE: 264.691

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	452.969	207.345	0.000	.	2.185	0.029
WEIGHT	17.086	3.981	0.201	1.000	4.292	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1290612.098	1	1290612.098	18.421	0.000
RESIDUAL	.307570E+08	439	70061.394		

**Org. wt. =  $a$  BodyHeight +  $b$**

DEP VAR: LIVER N: 441 MULTIPLE R: 0.175 SQUARED MULTIPLE R: 0.031  
ADJUSTED SQUARED MULTIPLE R: 0.028 STANDARD ERROR OF ESTIMATE: 266.020

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	187.009	310.275	0.000	.	0.603	0.547
HEIGHT	755.165	202.830	0.175	1.000	3.723	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	980957.792	1	980957.792	13.862	0.000
RESIDUAL	.310666E+08	439	70766.757		

**Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$**

DEP VAR: LIVER N: 441 MULTIPLE R: 0.176 SQUARED MULTIPLE R: 0.031  
ADJUSTED SQUARED MULTIPLE R: 0.029 STANDARD ERROR OF ESTIMATE: 265.970

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	758.967	155.949	0.000	.	4.867	0.000
HEIGHT2	248.922	66.447	0.176	1.000	3.746	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	992747.978	1	992747.978	14.034	0.000
RESIDUAL	.310548E+08	439	70739.900		

**Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$**

DEP VAR: LIVER N: 441 MULTIPLE R: 0.177 SQUARED MULTIPLE R: 0.031  
ADJUSTED SQUARED MULTIPLE R: 0.029 STANDARD ERROR OF ESTIMATE: 265.923

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	949.536	104.746	0.000	.	9.065	0.000
HEIGHT3	109.171	28.979	0.177	1.000	3.767	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1003611.802	1	1003611.802	14.192	0.000
RESIDUAL	.310440E+08	439	70715.153		

**Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$**

DEP VAR: LIVER N: 441 MULTIPLE R: 0.215 SQUARED MULTIPLE R: 0.046  
ADJUSTED SQUARED MULTIPLE R: 0.042 STANDARD ERROR OF ESTIMATE: 264.141

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	61.094	311.605	0.000	.	0.196	0.845
WEIGHT	12.759	4.733	0.150	0.705	2.696	0.007
HEIGHT	403.569	239.941	0.093	0.705	1.682	0.093

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1487990.527	2	743995.263	10.663	0.000
RESIDUAL	.305596E+08	438	69770.716		

Table 83a. Regression analysis of mass of the lung, left against body height and weight in normal Japanese females, 20-49 years.

Org. wt. =  $a$  BodyWeight +  $b$

DEP VAR: LLUNG N: 421 MULTIPLE R: 0.185 SQUARED MULTIPLE R: 0.034  
ADJUSTED SQUARED MULTIPLE R: 0.032 STANDARD ERROR OF ESTIMATE: 99.856

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	102.242	80.457	0.000	.	1.271	0.205
WEIGHT	5.949	1.542	0.185	1.000	3.857	0.000

ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	148336.853	1	148336.853	14.877	0.000
RESIDUAL	4177904.145	419	9971.132		

Org. wt. =  $a$  BodyHeight +  $b$

DEP VAR: LLUNG N: 421 MULTIPLE R: 0.091 SQUARED MULTIPLE R: 0.008  
ADJUSTED SQUARED MULTIPLE R: 0.006 STANDARD ERROR OF ESTIMATE: 101.194

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	186.346	121.133	0.000	.	1.538	0.125
HEIGHT	147.528	79.130	0.091	1.000	1.864	0.063

ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	35594.037	1	35594.037	3.476	0.063
RESIDUAL	4290646.961	419	10240.208		

Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$

DEP VAR: LLUNG N: 421 MULTIPLE R: 0.093 SQUARED MULTIPLE R: 0.009  
ADJUSTED SQUARED MULTIPLE R: 0.006 STANDARD ERROR OF ESTIMATE: 101.174

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	296.145	60.886	0.000	.	4.864	0.000
HEIGHT2	49.455	25.906	0.093	1.000	1.909	0.057

ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	37304.709	1	37304.709	3.644	0.057
RESIDUAL	4288936.288	419	10236.125		

Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$

DEP VAR: LLUNG N: 421 MULTIPLE R: 0.097 SQUARED MULTIPLE R: 0.009  
ADJUSTED SQUARED MULTIPLE R: 0.007 STANDARD ERROR OF ESTIMATE: 101.138

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	331.429	40.891	0.000	.	8.105	0.000
HEIGHT3	22.407	11.290	0.097	1.000	1.985	0.048

ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	40295.809	1	40295.809	3.939	0.048
RESIDUAL	4285945.188	419	10228.986		

Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$

DEP VAR: LLUNG N: 421 MULTIPLE R: 0.185 SQUARED MULTIPLE R: 0.034  
ADJUSTED SQUARED MULTIPLE R: 0.030 STANDARD ERROR OF ESTIMATE: 99.969

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	122.259	121.172	0.000	.	1.009	0.314
WEIGHT	6.167	1.832	0.192	0.710	3.366	0.001
HEIGHT	-20.509	92.753	-0.013	0.710	-0.221	0.825

ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	148825.487	2	74412.744	7.446	0.001
RESIDUAL	4177415.510	418	9993.817		

Table 83b. Regression analysis of mass of the lung, right against body height and weight in normal Japanese females, 20-49 years.

Org. wt. =  $a$  BodyWeight +  $b$

DEP VAR: RLUNG N: 414 MULTIPLE R: 0.164 SQUARED MULTIPLE R: 0.027  
ADJUSTED SQUARED MULTIPLE R: 0.024 STANDARD ERROR OF ESTIMATE: 112.554

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	180.366	92.231	0.000	.	1.956	0.051
WEIGHT	5.959	1.771	0.164	1.000	3.364	0.001

ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	143396.340	1	143396.340	11.319	0.001
RESIDUAL	5219423.768	412	12668.504		

Org. wt. =  $a$  BodyHeight +  $b$

DEP VAR: RLUNG N: 414 MULTIPLE R: 0.161 SQUARED MULTIPLE R: 0.026  
ADJUSTED SQUARED MULTIPLE R: 0.024 STANDARD ERROR OF ESTIMATE: 112.598

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	31.863	138.333	0.000	.	0.230	0.818
HEIGHT	299.905	90.462	0.161	1.000	3.315	0.001

ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	139348.188	1	139348.188	10.991	0.001
RESIDUAL	5223471.921	412	12678.330		

Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$

DEP VAR: RLUNG N: 414 MULTIPLE R: 0.162 SQUARED MULTIPLE R: 0.026  
ADJUSTED SQUARED MULTIPLE R: 0.024 STANDARD ERROR OF ESTIMATE: 112.588

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	259.332	69.589	0.000	.	3.727	0.000
HEIGHT2	98.725	29.676	0.162	1.000	3.327	0.001

ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	140293.312	1	140293.312	11.068	0.001
RESIDUAL	5222526.797	412	12676.036		

Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$

DEP VAR: RLUNG N: 414 MULTIPLE R: 0.164 SQUARED MULTIPLE R: 0.027  
ADJUSTED SQUARED MULTIPLE R: 0.025 STANDARD ERROR OF ESTIMATE: 112.537

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	333.092	46.734	0.000	.	7.127	0.000
HEIGHT3	43.812	12.948	0.164	1.000	3.384	0.001

ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	144993.536	1	144993.536	11.449	0.001
RESIDUAL	5217826.572	412	12664.628		

Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$

DEP VAR: RLUNG N: 414 MULTIPLE R: 0.186 SQUARED MULTIPLE R: 0.035  
ADJUSTED SQUARED MULTIPLE R: 0.030 STANDARD ERROR OF ESTIMATE: 112.227

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-14.337	139.938	0.000	.	-0.102	0.918
WEIGHT	3.986	2.064	0.109	0.732	1.931	0.054
HEIGHT	194.539	105.389	0.105	0.732	1.846	0.066

ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	186312.755	2	93156.377	7.396	0.001
RESIDUAL	5176507.354	411	12594.908		

**Table 84. Regression analysis of mass of the pancreas against body height and weight in normal Japanese females, 20-49 years.**

**Org. wt. =  $a$  BodyWeight +  $b$**

DEP VAR: PANCRE N: 440 MULTIPLE R: 0.219 SQUARED MULTIPLE R: 0.048  
ADJUSTED SQUARED MULTIPLE R: 0.046 STANDARD ERROR OF ESTIMATE: 25.392

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	18.022	20.071	0.000	.	0.898	0.370
WEIGHT	1.814	0.386	0.219	1.000	4.704	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	14265.818	1	14265.818	22.125	0.000
RESIDUAL	282409.126	438	644.770		

**Org. wt. =  $a$  BodyHeight +  $b$**

DEP VAR: PANCRE N: 440 MULTIPLE R: 0.158 SQUARED MULTIPLE R: 0.025  
ADJUSTED SQUARED MULTIPLE R: 0.023 STANDARD ERROR OF ESTIMATE: 25.697

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	10.383	30.367	0.000	.	0.342	0.733
HEIGHT	66.650	19.850	0.158	1.000	3.358	0.001

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	7444.663	1	7444.663	11.274	0.001
RESIDUAL	289230.280	438	660.343		

**Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$**

DEP VAR: PANCRE N: 440 MULTIPLE R: 0.163 SQUARED MULTIPLE R: 0.027  
ADJUSTED SQUARED MULTIPLE R: 0.024 STANDARD ERROR OF ESTIMATE: 25.678

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	59.682	15.263	0.000	.	3.910	0.000
HEIGHT2	22.476	6.503	0.163	1.000	3.456	0.001

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	7875.676	1	7875.676	11.944	0.001
RESIDUAL	288799.268	438	659.359		

**Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$**

DEP VAR: PANCRE N: 440 MULTIPLE R: 0.167 SQUARED MULTIPLE R: 0.028  
ADJUSTED SQUARED MULTIPLE R: 0.026 STANDARD ERROR OF ESTIMATE: 25.662

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	76.253	10.253	0.000	.	7.437	0.000
HEIGHT3	10.035	2.837	0.167	1.000	3.537	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	8239.045	1	8239.045	12.511	0.000
RESIDUAL	288435.898	438	658.529		

**Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$**

DEP VAR: PANCRE N: 440 MULTIPLE R: 0.224 SQUARED MULTIPLE R: 0.050  
ADJUSTED SQUARED MULTIPLE R: 0.046 STANDARD ERROR OF ESTIMATE: 25.392

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-5.013	30.344	0.000	.	-0.165	0.869
WEIGHT	1.562	0.459	0.189	0.707	3.407	0.001
HEIGHT	23.615	23.331	0.056	0.707	1.012	0.312

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	14926.342	2	7463.171	11.576	0.000
RESIDUAL	281748.601	437	644.734		

**Table 85. Regression analysis of mass of the pituitary against body height and weight in normal Japanese females, 20-49 years.**

$$\text{Org. wt.} = a \text{ BodyWeight} + b$$

DEP VAR: PITUIT N: 441 MULTIPLE R: 0.029 SQUARED MULTIPLE R: 0.001  
ADJUSTED SQUARED MULTIPLE R: 0.000 STANDARD ERROR OF ESTIMATE: 0.317

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.785	0.252	0.000	.	3.121	0.002
WEIGHT	-0.003	0.005	-0.029	1.000	-0.598	0.550

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	0.036	1	0.036	0.358	0.550
RESIDUAL	44.081	439	0.100		

$$\text{Org. wt.} = a \text{ BodyHeight} + b$$

DEP VAR: PITUIT N: 441 MULTIPLE R: 0.037 SQUARED MULTIPLE R: 0.001  
ADJUSTED SQUARED MULTIPLE R: 0.000 STANDARD ERROR OF ESTIMATE: 0.317

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.349	0.373	0.000	.	0.936	0.350
HEIGHT	0.187	0.244	0.037	1.000	0.769	0.442

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	0.059	1	0.059	0.591	0.442
RESIDUAL	44.058	439	0.100		

$$\text{Org. wt.} = a \text{ BodyHeight}^2 + b$$

DEP VAR: PITUIT N: 441 MULTIPLE R: 0.036 SQUARED MULTIPLE R: 0.001  
ADJUSTED SQUARED MULTIPLE R: 0.000 STANDARD ERROR OF ESTIMATE: 0.317

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.492	0.187	0.000	.	2.626	0.009
HEIGHT2	0.061	0.080	0.036	1.000	0.764	0.445

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	0.059	1	0.059	0.583	0.445
RESIDUAL	44.059	439	0.100		

$$\text{Org. wt.} = a \text{ BodyHeight}^3 + b$$

DEP VAR: PITUIT N: 441 MULTIPLE R: 0.037 SQUARED MULTIPLE R: 0.001  
ADJUSTED SQUARED MULTIPLE R: 0.000 STANDARD ERROR OF ESTIMATE: 0.317

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.538	0.126	0.000	.	4.270	0.000
HEIGHT3	0.027	0.035	0.037	1.000	0.776	0.438

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	0.060	1	0.060	0.602	0.438
RESIDUAL	44.057	439	0.100		

$$\text{Org. wt.} = a \text{ BodyHeight} + b \text{ BodyWeight} + c$$

DEP VAR: PITUIT N: 441 MULTIPLE R: 0.067 SQUARED MULTIPLE R: 0.004  
ADJUSTED SQUARED MULTIPLE R: 0.000 STANDARD ERROR OF ESTIMATE: 0.317

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.427	0.378	0.000	.	1.128	0.260
WEIGHT	-0.007	0.006	-0.066	0.728	-1.172	0.242
HEIGHT	0.362	0.286	0.071	0.728	1.268	0.205

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	0.197	2	0.099	0.983	0.375
RESIDUAL	43.920	438	0.100		

Table 86. Regression analysis of mass of the spleen against body height and weight in normal Japanese females, 20-49 years.

Org. wt. =  $a$  BodyWeight +  $b$

DEP VAR: SPLEEN N: 441 MULTIPLE R: 0.092 SQUARED MULTIPLE R: 0.009  
ADJUSTED SQUARED MULTIPLE R: 0.006 STANDARD ERROR OF ESTIMATE: 47.235

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	51.929	37.032	0.000	.	1.402	0.162
WEIGHT	1.383	0.711	0.092	1.000	1.945	0.052

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	8436.682	1	8436.682	3.781	0.052
RESIDUAL	979491.934	439	2231.189		

Org. wt. =  $a$  BodyHeight +  $b$

DEP VAR: SPLEEN N: 441 MULTIPLE R: 0.197 SQUARED MULTIPLE R: 0.039  
ADJUSTED SQUARED MULTIPLE R: 0.036 STANDARD ERROR OF ESTIMATE: 46.513

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-103.720	54.213	0.000	.	-1.913	0.056
HEIGHT	148.843	35.435	0.197	1.000	4.200	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	38171.479	1	38171.479	17.644	0.000
RESIDUAL	949757.138	439	2163.456		

Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$

DEP VAR: SPLEEN N: 441 MULTIPLE R: 0.198 SQUARED MULTIPLE R: 0.039  
ADJUSTED SQUARED MULTIPLE R: 0.037 STANDARD ERROR OF ESTIMATE: 46.496

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	8.661	27.246	0.000	.	0.318	0.751
HEIGHT2	49.213	11.606	0.198	1.000	4.240	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	38867.582	1	38867.582	17.979	0.000
RESIDUAL	949061.035	439	2161.870		

Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$

DEP VAR: SPLEEN N: 441 MULTIPLE R: 0.199 SQUARED MULTIPLE R: 0.039  
ADJUSTED SQUARED MULTIPLE R: 0.037 STANDARD ERROR OF ESTIMATE: 46.494

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	46.692	18.307	0.000	.	2.551	0.011
HEIGHT3	21.484	5.063	0.199	1.000	4.244	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	38927.991	1	38927.991	18.008	0.000
RESIDUAL	949000.626	439	2161.733		

Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$

DEP VAR: SPLEEN N: 441 MULTIPLE R: 0.197 SQUARED MULTIPLE R: 0.039  
ADJUSTED SQUARED MULTIPLE R: 0.035 STANDARD ERROR OF ESTIMATE: 46.559

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-100.677	54.897	0.000	.	-1.834	0.067
WEIGHT	-0.306	0.835	-0.020	0.705	-0.367	0.714
HEIGHT	157.265	42.256	0.208	0.705	3.722	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	38463.010	2	19231.505	8.872	0.000
RESIDUAL	949465.607	438	2167.730		

**Table 87. Regression analysis of mass of the thymus against body height and weight in normal Japanese females, 20-49 years.**

**Org. wt. =  $a$  BodyWeight +  $b$**

DEP VAR: THYMUS N: 131 MULTIPLE R: 0.148 SQUARED MULTIPLE R: 0.022  
ADJUSTED SQUARED MULTIPLE R: 0.014 STANDARD ERROR OF ESTIMATE: 10.516

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.779	14.405	0.000	.	0.054	0.957
WEIGHT	0.471	0.277	0.148	1.000	1.703	0.091

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	320.815	1	320.815	2.901	0.091
RESIDUAL	14265.306	129	110.584		

**Org. wt. =  $a$  BodyHeight +  $b$**

DEP VAR: THYMUS N: 131 MULTIPLE R: 0.200 SQUARED MULTIPLE R: 0.040  
ADJUSTED SQUARED MULTIPLE R: 0.033 STANDARD ERROR OF ESTIMATE: 10.419

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-21.571	20.218	0.000	.	-1.067	0.288
HEIGHT	30.453	13.133	0.200	1.000	2.319	0.022

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	583.639	1	583.639	5.377	0.022
RESIDUAL	14002.483	129	108.546		

**Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$**

DEP VAR: THYMUS N: 131 MULTIPLE R: 0.207 SQUARED MULTIPLE R: 0.043  
ADJUSTED SQUARED MULTIPLE R: 0.035 STANDARD ERROR OF ESTIMATE: 10.404

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.896	10.194	0.000	.	0.088	0.930
HEIGHT <sup>2</sup>	10.286	4.286	0.207	1.000	2.400	0.018

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	623.481	1	623.481	5.760	0.018
RESIDUAL	13962.640	129	108.238		

**Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$**

DEP VAR: THYMUS N: 131 MULTIPLE R: 0.216 SQUARED MULTIPLE R: 0.047  
ADJUSTED SQUARED MULTIPLE R: 0.039 STANDARD ERROR OF ESTIMATE: 10.382

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	8.137	6.874	0.000	.	1.184	0.239
HEIGHT <sup>3</sup>	4.681	1.862	0.216	1.000	2.514	0.013

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	681.037	1	681.037	6.318	0.013
RESIDUAL	13905.085	129	107.791		

**Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$**

DEP VAR: THYMUS N: 131 MULTIPLE R: 0.201 SQUARED MULTIPLE R: 0.041  
ADJUSTED SQUARED MULTIPLE R: 0.026 STANDARD ERROR OF ESTIMATE: 10.456

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-21.969	20.343	0.000	.	-1.080	0.282
WEIGHT	0.100	0.362	0.031	0.576	0.275	0.784
HEIGHT	27.342	17.363	0.180	0.576	1.575	0.118

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	591.921	2	295.961	2.707	0.071
RESIDUAL	13994.200	128	109.330		

**Table 88. Regression analysis of mass of the thyroid against body height and weight in normal Japanese females, 20-49 years.**

**Org. wt. =  $a$  BodyWeight +  $b$**

DEP VAR: THYRD N: 441 MULTIPLE R: 0.123 SQUARED MULTIPLE R: 0.015  
ADJUSTED SQUARED MULTIPLE R: 0.013 STANDARD ERROR OF ESTIMATE: 4.065

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	8.451	3.218	0.000	.	2.626	0.009
WEIGHT	0.160	0.062	0.123	1.000	2.594	0.010

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	111.206	1	111.206	6.731	0.010
RESIDUAL	7253.374	439	16.522		

**Org. wt. =  $a$  BodyHeight +  $b$**

DEP VAR: THYRD N: 441 MULTIPLE R: 0.050 SQUARED MULTIPLE R: 0.003  
ADJUSTED SQUARED MULTIPLE R: 0.000 STANDARD ERROR OF ESTIMATE: 4.091

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	11.727	4.818	0.000	.	2.434	0.015
HEIGHT	3.310	3.150	0.050	1.000	1.051	0.294

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	18.479	1	18.479	1.104	0.294
RESIDUAL	7346.101	439	16.734		

**Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$**

DEP VAR: THYRD N: 441 MULTIPLE R: 0.055 SQUARED MULTIPLE R: 0.003  
ADJUSTED SQUARED MULTIPLE R: 0.001 STANDARD ERROR OF ESTIMATE: 4.090

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	14.003	2.423	0.000	.	5.779	0.000
HEIGHT2	1.190	1.033	0.055	1.000	1.152	0.250

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	22.197	1	22.197	1.327	0.250
RESIDUAL	7342.383	439	16.725		

**Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$**

DEP VAR: THYRD N: 441 MULTIPLE R: 0.058 SQUARED MULTIPLE R: 0.003  
ADJUSTED SQUARED MULTIPLE R: 0.001 STANDARD ERROR OF ESTIMATE: 4.089

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	14.827	1.629	0.000	.	9.104	0.000
HEIGHT3	0.546	0.451	0.058	1.000	1.211	0.227

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	24.524	1	24.524	1.467	0.227
RESIDUAL	7340.056	439	16.720		

**Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$**

DEP VAR: THYRD N: 441 MULTIPLE R: 0.124 SQUARED MULTIPLE R: 0.015  
ADJUSTED SQUARED MULTIPLE R: 0.011 STANDARD ERROR OF ESTIMATE: 4.069

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	9.822	4.858	0.000	.	2.022	0.044
WEIGHT	0.175	0.073	0.134	0.718	2.397	0.017
HEIGHT	-1.394	3.697	-0.021	0.718	-0.377	0.706

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	113.559	2	56.780	3.430	0.033
RESIDUAL	7251.021	438	16.555		



Table 89a. Regression analysis of mass of the adrenal, left against body height and weight in normal Japanese females, 0-49 years.

$$\text{Org. wt.} = a \text{ BodyWeight} + b$$

DEP VAR: LADRE N: 933 MULTIPLE R: 0.857 SQUARED MULTIPLE R: 0.735  
ADJUSTED SQUARED MULTIPLE R: 0.735 STANDARD ERROR OF ESTIMATE: 1.180

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1.281	0.081	0.000	.	15.753	0.000
WEIGHT	0.099	0.002	0.857	1.000	50.800	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	3593.241	1	3593.241	2580.677	0.000
RESIDUAL	1296.291	931	1.392		

$$\text{Org. wt.} = a \text{ BodyHeight} + b$$

DEP VAR: LADRE N: 933 MULTIPLE R: 0.830 SQUARED MULTIPLE R: 0.689  
ADJUSTED SQUARED MULTIPLE R: 0.688 STANDARD ERROR OF ESTIMATE: 1.278

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-1.569	0.149	0.000	.	-10.538	0.000
HEIGHT	5.103	0.112	0.830	1.000	45.393	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	3364.876	1	3364.876	2060.549	0.000
RESIDUAL	1520.323	931	1.633		

$$\text{Org. wt.} = a \text{ BodyHeight}^2 + b$$

DEP VAR: LADRE N: 933 MULTIPLE R: 0.837 SQUARED MULTIPLE R: 0.701  
ADJUSTED SQUARED MULTIPLE R: 0.701 STANDARD ERROR OF ESTIMATE: 1.252

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.877	0.096	0.000	.	9.172	0.000
HEIGHT2	2.304	0.049	0.837	1.000	46.732	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	3425.058	1	3425.058	2183.850	0.000
RESIDUAL	1460.141	931	1.568		

$$\text{Org. wt.} = a \text{ BodyHeight}^3 + b$$

DEP VAR: LADRE N: 933 MULTIPLE R: 0.833 SQUARED MULTIPLE R: 0.695  
ADJUSTED SQUARED MULTIPLE R: 0.694 STANDARD ERROR OF ESTIMATE: 1.266

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1.671	0.082	0.000	.	20.437	0.000
HEIGHT3	1.280	0.028	0.833	1.000	46.024	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	3393.611	1	3393.611	2118.181	0.000
RESIDUAL	1491.587	931	1.602		

$$\text{Org. wt.} = a \text{ BodyHeight} + b \text{ BodyWeight} + c$$

DEP VAR: LADRE N: 932 MULTIPLE R: 0.858 SQUARED MULTIPLE R: 0.737  
ADJUSTED SQUARED MULTIPLE R: 0.736 STANDARD ERROR OF ESTIMATE: 1.177

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1.278	0.260	0.000	.	4.915	0.000
WEIGHT	0.100	0.008	0.859	0.064	12.904	0.000
HEIGHT	-0.004	0.409	-0.001	0.064	-0.010	0.992

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	3598.113	2	1799.057	1298.541	0.000
RESIDUAL	1287.078	929	1.385		

Table 89b. Regression analysis of mass of the adrenal, right against body height and weight in normal Japanese females, 0-49 years.

Org. wt. =  $a$  BodyWeight +  $b$

DEP VAR: RADRE N: 928 MULTIPLE R: 0.866 SQUARED MULTIPLE R: 0.749  
ADJUSTED SQUARED MULTIPLE R: 0.749 STANDARD ERROR OF ESTIMATE: 1.091

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1.167	0.076	0.000	.	15.356	0.000
WEIGHT	0.096	0.002	0.866	1.000	52.623	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	3295.646	1	3295.646	2769.233	0.000
RESIDUAL	1102.027	926	1.190		

Org. wt. =  $a$  BodyHeight +  $b$

DEP VAR: RADRE N: 928 MULTIPLE R: 0.832 SQUARED MULTIPLE R: 0.692  
ADJUSTED SQUARED MULTIPLE R: 0.692 STANDARD ERROR OF ESTIMATE: 1.210

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-1.554	0.143	0.000	.	-10.887	0.000
HEIGHT	4.903	0.108	0.832	1.000	45.595	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	3043.210	1	3043.210	2078.903	0.000
RESIDUAL	1355.528	926	1.464		

Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$

DEP VAR: RADRE N: 928 MULTIPLE R: 0.838 SQUARED MULTIPLE R: 0.703  
ADJUSTED SQUARED MULTIPLE R: 0.702 STANDARD ERROR OF ESTIMATE: 1.188

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.810	0.092	0.000	.	8.820	0.000
HEIGHT2	2.207	0.047	0.838	1.000	46.779	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	3090.821	1	3090.821	2188.288	0.000
RESIDUAL	1307.917	926	1.412		

Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$

DEP VAR: RADRE N: 928 MULTIPLE R: 0.834 SQUARED MULTIPLE R: 0.695  
ADJUSTED SQUARED MULTIPLE R: 0.695 STANDARD ERROR OF ESTIMATE: 1.204

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1.579	0.079	0.000	.	20.095	0.000
HEIGHT3	1.223	0.027	0.834	1.000	45.930	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	3056.903	1	3056.903	2109.567	0.000
RESIDUAL	1341.836	926	1.449		

Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$

DEP VAR: RADRE N: 927 MULTIPLE R: 0.866 SQUARED MULTIPLE R: 0.750  
ADJUSTED SQUARED MULTIPLE R: 0.749 STANDARD ERROR OF ESTIMATE: 1.091

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1.477	0.244	0.000	.	6.061	0.000
WEIGHT	0.105	0.007	0.950	0.064	14.653	0.000
HEIGHT	-0.512	0.382	-0.087	0.064	-1.340	0.180

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	3297.171	2	1648.586	1384.977	0.000
RESIDUAL	1099.869	924	1.190		

**Table 90a. Regression analysis of mass of the brain against body height and weight in normal Japanese females, 0-49 years.**

**Org. wt. =  $a$  BodyWeight +  $b$**

DEP VAR: BRAIN N: 932 MULTIPLE R: 0.709 SQUARED MULTIPLE R: 0.503  
ADJUSTED SQUARED MULTIPLE R: 0.502 STANDARD ERROR OF ESTIMATE: 179.841

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	857.696	12.426	0.000	.	69.023	0.000
WEIGHT	9.185	0.299	0.709	1.000	30.680	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.304426E+08	1	.304426E+08	941.246	0.000
RESIDUAL	.300789E+08	930	32342.928		

**Org. wt. =  $a$  BodyHeight +  $b$**

DEP VAR: BRAIN N: 932 MULTIPLE R: 0.816 SQUARED MULTIPLE R: 0.666  
ADJUSTED SQUARED MULTIPLE R: 0.666 STANDARD ERROR OF ESTIMATE: 147.417

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	481.015	17.227	0.000	.	27.922	0.000
HEIGHT	560.048	13.000	0.816	1.000	43.081	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.403341E+08	1	.403341E+08	1855.996	0.000
RESIDUAL	.202106E+08	930	21731.811		

**Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$**

DEP VAR: BRAIN N: 932 MULTIPLE R: 0.767 SQUARED MULTIPLE R: 0.588  
ADJUSTED SQUARED MULTIPLE R: 0.588 STANDARD ERROR OF ESTIMATE: 163.686

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	779.747	12.548	0.000	.	62.143	0.000
HEIGHT2	235.623	6.462	0.767	1.000	36.465	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.356271E+08	1	.356271E+08	1329.708	0.000
RESIDUAL	.249176E+08	930	26793.170		

**Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$**

DEP VAR: BRAIN N: 932 MULTIPLE R: 0.723 SQUARED MULTIPLE R: 0.523  
ADJUSTED SQUARED MULTIPLE R: 0.522 STANDARD ERROR OF ESTIMATE: 176.289

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	878.754	11.428	0.000	.	76.896	0.000
HEIGHT3	123.883	3.882	0.723	1.000	31.909	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.316422E+08	1	.316422E+08	1018.157	0.000
RESIDUAL	.289025E+08	930	31077.957		

**Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$**

DEP VAR: BRAIN N: 931 MULTIPLE R: 0.872 SQUARED MULTIPLE R: 0.761  
ADJUSTED SQUARED MULTIPLE R: 0.760 STANDARD ERROR OF ESTIMATE: 124.820

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	35.279	27.419	0.000	.	1.287	0.199
WEIGHT	-15.598	0.812	-1.205	0.065	-19.206	0.000
HEIGHT	1358.893	43.035	1.981	0.065	31.576	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.460207E+08	2	.230103E+08	1476.923	0.000
RESIDUAL	.144582E+08	928	15579.912		

Table 90b. Regression analysis of mass of the brain against body height and weight in normal Japanese females, 0-49 years (subjects showing body weight below 13 kg).

Org. wt. =  $a$  BodyWeight +  $b$

DEP VAR: BRAIN N: 216 MULTIPLE R: 0.890 SQUARED MULTIPLE R: 0.792  
ADJUSTED SQUARED MULTIPLE R: 0.791 STANDARD ERROR OF ESTIMATE: 125.024

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	127.870	25.681	0.000	.	4.979	0.000
WEIGHT	90.387	3.168	0.890	1.000	28.530	0.000

ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.127226E+08	1	.127226E+08	813.940	0.000
RESIDUAL	3345016.249	214	15630.917		

Org. wt. =  $a$  BodyHeight +  $b$

DEP VAR: BRAIN N: 216 MULTIPLE R: 0.889 SQUARED MULTIPLE R: 0.791  
ADJUSTED SQUARED MULTIPLE R: 0.790 STANDARD ERROR OF ESTIMATE: 125.265

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-550.355	48.869	0.000	.	-11.262	0.000
HEIGHT	2037.305	71.584	0.889	1.000	28.460	0.000

ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.127097E+08	1	.127097E+08	809.990	0.000
RESIDUAL	3357921.842	214	15691.224		

Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$

DEP VAR: BRAIN N: 216 MULTIPLE R: 0.880 SQUARED MULTIPLE R: 0.775  
ADJUSTED SQUARED MULTIPLE R: 0.774 STANDARD ERROR OF ESTIMATE: 129.960

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	131.129	26.837	0.000	.	4.886	0.000
HEIGHT2	1476.288	54.367	0.880	1.000	27.154	0.000

ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.124533E+08	1	.124533E+08	737.336	0.000
RESIDUAL	3614366.210	214	16889.562		

Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$

DEP VAR: BRAIN N: 216 MULTIPLE R: 0.865 SQUARED MULTIPLE R: 0.748  
ADJUSTED SQUARED MULTIPLE R: 0.747 STANDARD ERROR OF ESTIMATE: 137.575

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	360.973	20.452	0.000	.	17.650	0.000
HEIGHT3	1377.668	54.674	0.865	1.000	25.198	0.000

ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.120173E+08	1	.120173E+08	634.938	0.000
RESIDUAL	4050327.502	214	18926.764		

Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$

DEP VAR: BRAIN N: 216 MULTIPLE R: 0.896 SQUARED MULTIPLE R: 0.804  
ADJUSTED SQUARED MULTIPLE R: 0.802 STANDARD ERROR OF ESTIMATE: 121.733

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-221.428	101.058	0.000	.	-2.191	0.030
WEIGHT	46.634	12.647	0.459	0.059	3.687	0.000
HEIGHT	1017.416	285.205	0.444	0.059	3.567	0.000

ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.129112E+08	2	6455607.944	435.632	0.000
RESIDUAL	3156434.112	213	14818.939		

**Table 90c. Regression analysis of mass of the brain against body height and weight in normal Japanese females, 0-49 years (subjects showing body weight 13 kg and higher).**

**Org. wt. =  $a$  BodyWeight +  $b$**

DEP VAR: BRAIN N: 716 MULTIPLE R: 0.167 SQUARED MULTIPLE R: 0.028  
ADJUSTED SQUARED MULTIPLE R: 0.027 STANDARD ERROR OF ESTIMATE: 83.187

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1257.815	11.115	0.000	.	113.161	0.000
WEIGHT	1.070	0.236	0.167	1.000	4.539	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	142591.965	1	142591.965	20.606	0.000
RESIDUAL	4940926.750	714	6920.065		

**Org. wt. =  $a$  BodyHeight +  $b$**

DEP VAR: BRAIN N: 715 MULTIPLE R: 0.238 SQUARED MULTIPLE R: 0.056  
ADJUSTED SQUARED MULTIPLE R: 0.055 STANDARD ERROR OF ESTIMATE: 81.948

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1148.511	24.319	0.000	.	47.226	0.000
HEIGHT	108.491	16.606	0.238	1.000	6.533	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	286621.210	1	286621.210	42.681	0.000
RESIDUAL	4788097.461	713	6715.424		

**Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$**

DEP VAR: BRAIN N: 715 MULTIPLE R: 0.240 SQUARED MULTIPLE R: 0.058  
ADJUSTED SQUARED MULTIPLE R: 0.056 STANDARD ERROR OF ESTIMATE: 81.903

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1216.819	13.881	0.000	.	87.658	0.000
HEIGHT2	41.652	6.315	0.240	1.000	6.596	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	291861.862	1	291861.862	43.509	0.000
RESIDUAL	4782856.809	713	6708.074		

**Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$**

DEP VAR: BRAIN N: 715 MULTIPLE R: 0.242 SQUARED MULTIPLE R: 0.059  
ADJUSTED SQUARED MULTIPLE R: 0.057 STANDARD ERROR OF ESTIMATE: 81.849

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1239.251	10.482	0.000	.	118.226	0.000
HEIGHT3	20.868	3.128	0.242	1.000	6.671	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	298109.748	1	298109.748	44.499	0.000
RESIDUAL	4776608.924	713	6699.311		

**Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$**

DEP VAR: BRAIN N: 715 MULTIPLE R: 0.289 SQUARED MULTIPLE R: 0.083  
ADJUSTED SQUARED MULTIPLE R: 0.081 STANDARD ERROR OF ESTIMATE: 80.833

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	982.413	43.606	0.000	.	22.529	0.000
WEIGHT	-3.158	0.692	-0.494	0.110	-4.561	0.000
HEIGHT	321.280	49.444	0.704	0.110	6.498	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	422561.822	2	211280.911	32.336	0.000
RESIDUAL	4652156.849	712	6533.928		

Table 91. Regression analysis of mass of the heart against body height and weight in normal Japanese females, 0-49 years.

Org. wt. =  $a$  BodyWeight +  $b$

DEP VAR: HEART N: 933 MULTIPLE R: 0.866 SQUARED MULTIPLE R: 0.750  
ADJUSTED SQUARED MULTIPLE R: 0.750 STANDARD ERROR OF ESTIMATE: 63.640

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	5.287	4.412	0.000	.	1.198	0.231
WEIGHT	5.616	0.106	0.866	1.000	52.913	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.113395E+08	1	.113395E+08	2799.809	0.000
RESIDUAL	3770637.831	931	4050.094		

Org. wt. =  $a$  BodyHeight +  $b$

DEP VAR: HEART N: 933 MULTIPLE R: 0.839 SQUARED MULTIPLE R: 0.704  
ADJUSTED SQUARED MULTIPLE R: 0.704 STANDARD ERROR OF ESTIMATE: 69.288

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-157.008	8.143	0.000	.	-19.281	0.000
HEIGHT	289.029	6.139	0.839	1.000	47.081	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.106415E+08	1	.106415E+08	2216.593	0.000
RESIDUAL	4469595.293	931	4800.854		

Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$

DEP VAR: HEART N: 933 MULTIPLE R: 0.842 SQUARED MULTIPLE R: 0.709  
ADJUSTED SQUARED MULTIPLE R: 0.708 STANDARD ERROR OF ESTIMATE: 68.770

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-16.994	5.298	0.000	.	-3.208	0.001
HEIGHT2	129.725	2.726	0.842	1.000	47.584	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.107082E+08	1	.107082E+08	2264.215	0.000
RESIDUAL	4402980.348	931	4729.302		

Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$

DEP VAR: HEART N: 933 MULTIPLE R: 0.834 SQUARED MULTIPLE R: 0.695  
ADJUSTED SQUARED MULTIPLE R: 0.695 STANDARD ERROR OF ESTIMATE: 70.362

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	28.929	4.579	0.000	.	6.318	0.000
HEIGHT3	71.630	1.555	0.834	1.000	46.057	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.105019E+08	1	.105019E+08	2121.259	0.000
RESIDUAL	4609197.556	931	4950.803		

Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$

DEP VAR: HEART N: 932 MULTIPLE R: 0.866 SQUARED MULTIPLE R: 0.750  
ADJUSTED SQUARED MULTIPLE R: 0.750 STANDARD ERROR OF ESTIMATE: 63.697

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-2.425	13.954	0.000	.	-0.174	0.862
WEIGHT	5.385	0.410	0.831	0.067	13.133	0.000
HEIGHT	12.719	21.789	0.037	0.067	0.584	0.560

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.113372E+08	2	5668594.373	1397.144	0.000
RESIDUAL	3769207.310	929	4057.274		

**Table 92a. Regression analysis of mass of the kidney, left against body height and weight in normal Japanese females, 0-49 years.**

**Org. wt. =  $a$  BodyWeight +  $b$**

DEP VAR: LKIDY N: 942 MULTIPLE R: 0.920 SQUARED MULTIPLE R: 0.847  
ADJUSTED SQUARED MULTIPLE R: 0.847 STANDARD ERROR OF ESTIMATE: 20.831

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	10.028	1.431	0.000	.	7.009	0.000
WEIGHT	2.486	0.034	0.920	1.000	72.144	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	2258547.558	1	2258547.558	5204.738	0.000
RESIDUAL	407904.247	940	433.941		

**Org. wt. =  $a$  BodyHeight +  $b$**

DEP VAR: LKIDY N: 942 MULTIPLE R: 0.906 SQUARED MULTIPLE R: 0.821  
ADJUSTED SQUARED MULTIPLE R: 0.821 STANDARD ERROR OF ESTIMATE: 22.512

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-64.110	2.615	0.000	.	-24.516	0.000
HEIGHT	129.765	1.974	0.906	1.000	65.750	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	2190913.819	1	2190913.819	4323.114	0.000
RESIDUAL	476383.272	940	506.791		

**Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$**

DEP VAR: LKIDY N: 942 MULTIPLE R: 0.909 SQUARED MULTIPLE R: 0.827  
ADJUSTED SQUARED MULTIPLE R: 0.827 STANDARD ERROR OF ESTIMATE: 22.168

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-1.346	1.689	0.000	.	-0.797	0.426
HEIGHT2	58.268	0.870	0.909	1.000	66.989	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	2205342.346	1	2205342.346	4487.500	0.000
RESIDUAL	461954.745	940	491.441		

**Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$**

DEP VAR: LKIDY N: 942 MULTIPLE R: 0.902 SQUARED MULTIPLE R: 0.813  
ADJUSTED SQUARED MULTIPLE R: 0.813 STANDARD ERROR OF ESTIMATE: 23.018

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	19.045	1.483	0.000	.	12.840	0.000
HEIGHT3	32.244	0.504	0.902	1.000	63.988	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	2169276.346	1	2169276.346	4094.447	0.000
RESIDUAL	498020.745	940	529.809		

**Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$**

DEP VAR: LKIDY N: 941 MULTIPLE R: 0.923 SQUARED MULTIPLE R: 0.851  
ADJUSTED SQUARED MULTIPLE R: 0.851 STANDARD ERROR OF ESTIMATE: 20.566

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-11.558	4.519	0.000	.	-2.557	0.011
WEIGHT	1.837	0.134	0.680	0.064	13.707	0.000
HEIGHT	35.638	7.102	0.249	0.064	5.018	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	2269717.814	2	1134858.907	2683.158	0.000
RESIDUAL	396733.187	938	422.956		

Table 92b. Regression analysis of mass of the kidney, right against body height and weight in normal Japanese females, 0-49 years.

Org. wt. =  $a$  BodyWeight +  $b$

DEP VAR: RKIDY N: 941 MULTIPLE R: 0.914 SQUARED MULTIPLE R: 0.835  
ADJUSTED SQUARED MULTIPLE R: 0.835 STANDARD ERROR OF ESTIMATE: 20.852

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	10.295	1.430	0.000	.	7.198	0.000
WEIGHT	2.377	0.034	0.914	1.000	68.920	0.000

ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	2065370.757	1	2065370.757	4749.987	0.000
RESIDUAL	408292.286	939	434.816		

Org. wt. =  $a$  BodyHeight +  $b$

DEP VAR: RKIDY N: 941 MULTIPLE R: 0.902 SQUARED MULTIPLE R: 0.813  
ADJUSTED SQUARED MULTIPLE R: 0.813 STANDARD ERROR OF ESTIMATE: 22.195

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-60.815	2.575	0.000	.	-23.621	0.000
HEIGHT	124.249	1.944	0.902	1.000	63.900	0.000

ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	2011350.923	1	2011350.923	4083.163	0.000
RESIDUAL	462547.869	939	492.596		

Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$

DEP VAR: RKIDY N: 941 MULTIPLE R: 0.905 SQUARED MULTIPLE R: 0.818  
ADJUSTED SQUARED MULTIPLE R: 0.818 STANDARD ERROR OF ESTIMATE: 21.879

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-0.737	1.665	0.000	.	-0.443	0.658
HEIGHT2	55.801	0.858	0.905	1.000	65.031	0.000

ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	2024405.340	1	2024405.340	4229.020	0.000
RESIDUAL	449493.453	939	478.694		

Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$

DEP VAR: RKIDY N: 941 MULTIPLE R: 0.897 SQUARED MULTIPLE R: 0.805  
ADJUSTED SQUARED MULTIPLE R: 0.805 STANDARD ERROR OF ESTIMATE: 22.675

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	18.788	1.459	0.000	.	12.877	0.000
HEIGHT3	30.878	0.496	0.897	1.000	62.231	0.000

ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1991120.149	1	1991120.149	3872.710	0.000
RESIDUAL	482778.644	939	514.141		

Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$

DEP VAR: RKIDY N: 940 MULTIPLE R: 0.917 SQUARED MULTIPLE R: 0.840  
ADJUSTED SQUARED MULTIPLE R: 0.840 STANDARD ERROR OF ESTIMATE: 20.549

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-13.019	4.495	0.000	.	-2.897	0.004
WEIGHT	1.673	0.133	0.643	0.065	12.554	0.000
HEIGHT	38.563	7.063	0.280	0.065	5.460	0.000

ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	2077700.721	2	1038850.360	2460.126	0.000
RESIDUAL	395671.929	937	422.275		



**Table 93. Regression analysis of mass of the liver against body height and weight in normal Japanese females, 0-49 years.**

$$\text{Org. wt.} = a \text{ BodyWeight} + b$$

DEP VAR: LIVER N: 939 MULTIPLE R: 0.908 SQUARED MULTIPLE R: 0.825  
ADJUSTED SQUARED MULTIPLE R: 0.824 STANDARD ERROR OF ESTIMATE: 205.528

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	175.388	14.095	0.000	.	12.444	0.000
WEIGHT	22.583	0.340	0.908	1.000	66.376	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.186107E+09	1	.186107E+09	4405.754	0.000
RESIDUAL	.395807E+08	937	42241.893		

$$\text{Org. wt.} = a \text{ BodyHeight} + b$$

DEP VAR: LIVER N: 939 MULTIPLE R: 0.905 SQUARED MULTIPLE R: 0.819  
ADJUSTED SQUARED MULTIPLE R: 0.819 STANDARD ERROR OF ESTIMATE: 208.671

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-516.853	24.225	0.000	.	-21.336	0.000
HEIGHT	1193.584	18.310	0.905	1.000	65.187	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.185033E+09	1	.185033E+09	4249.395	0.000
RESIDUAL	.408002E+08	937	43543.405		

$$\text{Org. wt.} = a \text{ BodyHeight}^2 + b$$

DEP VAR: LIVER N: 939 MULTIPLE R: 0.904 SQUARED MULTIPLE R: 0.818  
ADJUSTED SQUARED MULTIPLE R: 0.818 STANDARD ERROR OF ESTIMATE: 209.447

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	64.572	15.934	0.000	.	4.052	0.000
HEIGHT2	533.741	8.225	0.904	1.000	64.892	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.184729E+09	1	.184729E+09	4211.008	0.000
RESIDUAL	.411044E+08	937	43868.099		

$$\text{Org. wt.} = a \text{ BodyHeight}^3 + b$$

DEP VAR: LIVER N: 939 MULTIPLE R: 0.894 SQUARED MULTIPLE R: 0.799  
ADJUSTED SQUARED MULTIPLE R: 0.799 STANDARD ERROR OF ESTIMATE: 219.970

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	254.129	14.146	0.000	.	17.964	0.000
HEIGHT3	294.319	4.819	0.894	1.000	61.076	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.180495E+09	1	.180495E+09	3730.233	0.000
RESIDUAL	.453386E+08	937	48386.977		

$$\text{Org. wt.} = a \text{ BodyHeight} + b \text{ BodyWeight} + c$$

DEP VAR: LIVER N: 938 MULTIPLE R: 0.914 SQUARED MULTIPLE R: 0.836  
ADJUSTED SQUARED MULTIPLE R: 0.836 STANDARD ERROR OF ESTIMATE: 198.918

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-155.974	43.456	0.000	.	-3.589	0.000
WEIGHT	12.612	1.286	0.507	0.066	9.805	0.000
HEIGHT	547.160	68.207	0.415	0.066	8.022	0.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.188691E+09	2	.943457E+08	2384.384	0.000
RESIDUAL	.369962E+08	935	39568.177		

Table 94a. Regression analysis of mass of the lung, left against body height and weight in normal Japanese females, 0-49 years.

Org. wt. =  $a$  BodyWeight +  $b$

DEP VAR: LLUNG N: 900 MULTIPLE R: 0.882 SQUARED MULTIPLE R: 0.777  
ADJUSTED SQUARED MULTIPLE R: 0.777 STANDARD ERROR OF ESTIMATE: 77.878

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	13.639	5.497	0.000	.	2.481	0.013
WEIGHT	7.396	0.132	0.882	1.000	55.972	0.000

ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.190007E+08	1	.190007E+08	3132.848	0.000
RESIDUAL	5446362.379	898	6064.992		

Org. wt. =  $a$  BodyHeight +  $b$

DEP VAR: LLUNG N: 900 MULTIPLE R: 0.843 SQUARED MULTIPLE R: 0.711  
ADJUSTED SQUARED MULTIPLE R: 0.711 STANDARD ERROR OF ESTIMATE: 88.701

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-193.553	10.604	0.000	.	-18.253	0.000
HEIGHT	375.483	7.989	0.843	1.000	46.999	0.000

ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.173795E+08	1	.173795E+08	2208.906	0.000
RESIDUAL	7065390.383	898	7867.918		

Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$

DEP VAR: LLUNG N: 900 MULTIPLE R: 0.848 SQUARED MULTIPLE R: 0.720  
ADJUSTED SQUARED MULTIPLE R: 0.719 STANDARD ERROR OF ESTIMATE: 87.351

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-12.399	6.845	0.000	.	-1.811	0.070
HEIGHT2	168.883	3.517	0.848	1.000	48.018	0.000

ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.175930E+08	1	.175930E+08	2305.719	0.000
RESIDUAL	6851882.580	898	7630.159		

Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$

DEP VAR: LLUNG N: 900 MULTIPLE R: 0.843 SQUARED MULTIPLE R: 0.710  
ADJUSTED SQUARED MULTIPLE R: 0.710 STANDARD ERROR OF ESTIMATE: 88.786

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	46.690	5.878	0.000	.	7.943	0.000
HEIGHT3	93.479	1.992	0.843	1.000	46.936	0.000

ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.173659E+08	1	.173659E+08	2202.961	0.000
RESIDUAL	7078936.841	898	7883.003		

Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$

DEP VAR: LLUNG N: 899 MULTIPLE R: 0.882 SQUARED MULTIPLE R: 0.778  
ADJUSTED SQUARED MULTIPLE R: 0.778 STANDARD ERROR OF ESTIMATE: 77.747

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	49.617	17.413	0.000	.	2.849	0.004
WEIGHT	8.472	0.513	1.010	0.066	16.517	0.000
HEIGHT	-59.136	27.232	-0.133	0.066	-2.172	0.030

ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.190179E+08	2	9508941.152	1573.125	0.000
RESIDUAL	5415977.133	896	6044.617		

Table 94b. Regression analysis of mass of the lung, right against body height and weight in normal Japanese females, 0-49 years.

Org. wt. =  $a$  BodyWeight +  $b$

DEP VAR: RLUNG N: 858 MULTIPLE R: 0.885 SQUARED MULTIPLE R: 0.783  
ADJUSTED SQUARED MULTIPLE R: 0.783 STANDARD ERROR OF ESTIMATE: 90.580

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	16.746	6.546	0.000	.	2.558	0.011
WEIGHT	8.744	0.157	0.885	1.000	55.607	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.253706E+08	1	.253706E+08	3092.191	0.000
RESIDUAL	7023242.178	856	8204.722		

Org. wt. =  $a$  BodyHeight +  $b$

DEP VAR: RLUNG N: 858 MULTIPLE R: 0.850 SQUARED MULTIPLE R: 0.723  
ADJUSTED SQUARED MULTIPLE R: 0.722 STANDARD ERROR OF ESTIMATE: 102.467

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-229.603	12.514	0.000	.	-18.348	0.000
HEIGHT	445.244	9.430	0.850	1.000	47.217	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.234081E+08	1	.234081E+08	2229.438	0.000
RESIDUAL	8987618.761	856	10499.555		

Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$

DEP VAR: RLUNG N: 858 MULTIPLE R: 0.856 SQUARED MULTIPLE R: 0.733  
ADJUSTED SQUARED MULTIPLE R: 0.733 STANDARD ERROR OF ESTIMATE: 100.477

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-15.870	8.056	0.000	.	-1.970	0.049
HEIGHT2	200.819	4.140	0.856	1.000	48.507	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.237539E+08	1	.237539E+08	2352.887	0.000
RESIDUAL	8641858.101	856	10095.629		

Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$

DEP VAR: RLUNG N: 858 MULTIPLE R: 0.852 SQUARED MULTIPLE R: 0.726  
ADJUSTED SQUARED MULTIPLE R: 0.725 STANDARD ERROR OF ESTIMATE: 101.895

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	53.575	6.911	0.000	.	7.753	0.000
HEIGHT3	111.456	2.342	0.852	1.000	47.584	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.235083E+08	1	.235083E+08	2264.216	0.000
RESIDUAL	8887443.726	856	10382.528		

Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$

DEP VAR: RLUNG N: 857 MULTIPLE R: 0.885 SQUARED MULTIPLE R: 0.784  
ADJUSTED SQUARED MULTIPLE R: 0.783 STANDARD ERROR OF ESTIMATE: 90.605

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	40.117	20.634	0.000	.	1.944	0.052
WEIGHT	9.450	0.610	0.956	0.067	15.497	0.000
HEIGHT	-38.723	32.337	-0.074	0.067	-1.198	0.231

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	.253798E+08	2	.126899E+08	1545.796	0.000
RESIDUAL	7010730.390	854	8209.286		

Table 95. Regression analysis of mass of the pancreas against body height and weight in normal Japanese females, 0-49 years.

Org. wt. =  $a$  BodyWeight +  $b$

DEP VAR: PANCRE N: 924 MULTIPLE R: 0.900 SQUARED MULTIPLE R: 0.810  
ADJUSTED SQUARED MULTIPLE R: 0.810 STANDARD ERROR OF ESTIMATE: 19.850

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	2.105	1.389	0.000	.	1.516	0.130
WEIGHT	2.089	0.033	0.900	1.000	62.668	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1547473.240	1	1547473.240	3927.294	0.000
RESIDUAL	363296.001	922	394.030		

Org. wt. =  $a$  BodyHeight +  $b$

DEP VAR: PANCRE N: 924 MULTIPLE R: 0.884 SQUARED MULTIPLE R: 0.781  
ADJUSTED SQUARED MULTIPLE R: 0.781 STANDARD ERROR OF ESTIMATE: 21.300

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-60.232	2.526	0.000	.	-23.848	0.000
HEIGHT	109.046	1.901	0.884	1.000	57.366	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1493068.566	1	1493068.566	3290.911	0.000
RESIDUAL	418306.465	922	453.695		

Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$

DEP VAR: PANCRE N: 924 MULTIPLE R: 0.887 SQUARED MULTIPLE R: 0.786  
ADJUSTED SQUARED MULTIPLE R: 0.786 STANDARD ERROR OF ESTIMATE: 21.049

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-7.363	1.636	0.000	.	-4.500	0.000
HEIGHT2	48.913	0.840	0.887	1.000	58.241	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1502875.117	1	1502875.117	3392.047	0.000
RESIDUAL	408499.914	922	443.058		

Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$

DEP VAR: PANCRE N: 924 MULTIPLE R: 0.879 SQUARED MULTIPLE R: 0.773  
ADJUSTED SQUARED MULTIPLE R: 0.773 STANDARD ERROR OF ESTIMATE: 21.672

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	9.880	1.423	0.000	.	6.943	0.000
HEIGHT3	27.035	0.482	0.879	1.000	56.102	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1478318.630	1	1478318.630	3147.419	0.000
RESIDUAL	433056.401	922	469.692		

Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$

DEP VAR: PANCRE N: 923 MULTIPLE R: 0.902 SQUARED MULTIPLE R: 0.813  
ADJUSTED SQUARED MULTIPLE R: 0.812 STANDARD ERROR OF ESTIMATE: 19.714

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-13.902	4.382	0.000	.	-3.173	0.002
WEIGHT	1.610	0.129	0.694	0.066	12.503	0.000
HEIGHT	26.343	6.846	0.213	0.066	3.848	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1552871.505	2	776435.753	1997.879	0.000
RESIDUAL	357539.569	920	388.630		

**Table 96. Regression analysis of mass of the pituitary against body height and weight in normal Japanese females, 0-49 years.**

**Org. wt. =  $a$  BodyWeight +  $b$**

DEP VAR: PITUIT N: 836 MULTIPLE R: 0.825 SQUARED MULTIPLE R: 0.681  
ADJUSTED SQUARED MULTIPLE R: 0.680 STANDARD ERROR OF ESTIMATE: 0.110

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.162	0.009	0.000	.	17.678	0.000
WEIGHT	0.009	0.000	0.825	1.000	42.155	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	21.545	1	21.545	1777.051	0.000
RESIDUAL	10.112	834	0.012		

**Org. wt. =  $a$  BodyHeight +  $b$**

DEP VAR: PITUIT N: 837 MULTIPLE R: 0.795 SQUARED MULTIPLE R: 0.631  
ADJUSTED SQUARED MULTIPLE R: 0.631 STANDARD ERROR OF ESTIMATE: 0.118

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-0.118	0.017	0.000	.	-6.852	0.000
HEIGHT	0.473	0.013	0.795	1.000	37.813	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	20.007	1	20.007	1429.810	0.000
RESIDUAL	11.684	835	0.014		

**Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$**

DEP VAR: PITUIT N: 837 MULTIPLE R: 0.804 SQUARED MULTIPLE R: 0.646  
ADJUSTED SQUARED MULTIPLE R: 0.646 STANDARD ERROR OF ESTIMATE: 0.116

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.119	0.011	0.000	.	10.870	0.000
HEIGHT <sup>2</sup>	0.209	0.005	0.804	1.000	39.047	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	20.477	1	20.477	1524.695	0.000
RESIDUAL	11.214	835	0.013		

**Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$**

DEP VAR: PITUIT N: 837 MULTIPLE R: 0.802 SQUARED MULTIPLE R: 0.643  
ADJUSTED SQUARED MULTIPLE R: 0.642 STANDARD ERROR OF ESTIMATE: 0.116

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.198	0.009	0.000	.	21.723	0.000
HEIGHT <sup>3</sup>	0.114	0.003	0.802	1.000	38.746	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	20.365	1	20.365	1501.279	0.000
RESIDUAL	11.327	835	0.014		

**Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$**

DEP VAR: PITUIT N: 836 MULTIPLE R: 0.825 SQUARED MULTIPLE R: 0.681  
ADJUSTED SQUARED MULTIPLE R: 0.680 STANDARD ERROR OF ESTIMATE: 0.110

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.155	0.029	0.000	.	5.372	0.000
WEIGHT	0.009	0.001	0.807	0.076	11.372	0.000
HEIGHT	0.011	0.042	0.019	0.076	0.264	0.792

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	21.546	2	10.773	887.569	0.000
RESIDUAL	10.111	833	0.012		

Table 97. Regression analysis of mass of the spleen against body height and weight in normal Japanese females, 0-49 years.

Org. wt. =  $a$  BodyWeight +  $b$

DEP VAR: SPLEEN N: 928 MULTIPLE R: 0.753 SQUARED MULTIPLE R: 0.567  
ADJUSTED SQUARED MULTIPLE R: 0.566 STANDARD ERROR OF ESTIMATE: 35.715

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	16.687	2.501	0.000	.	6.673	0.000
WEIGHT	2.086	0.060	0.753	1.000	34.792	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1544048.453	1	1544048.453	1210.477	0.000
RESIDUAL	1181178.226	926	1275.570		

Org. wt. =  $a$  BodyHeight +  $b$

DEP VAR: SPLEEN N: 928 MULTIPLE R: 0.764 SQUARED MULTIPLE R: 0.583  
ADJUSTED SQUARED MULTIPLE R: 0.583 STANDARD ERROR OF ESTIMATE: 35.035

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-50.513	4.165	0.000	.	-12.128	0.000
HEIGHT	112.713	3.132	0.764	1.000	35.992	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1590059.528	1	1590059.528	1295.422	0.000
RESIDUAL	1136614.593	926	1227.446		

Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$

DEP VAR: SPLEEN N: 928 MULTIPLE R: 0.763 SQUARED MULTIPLE R: 0.582  
ADJUSTED SQUARED MULTIPLE R: 0.581 STANDARD ERROR OF ESTIMATE: 35.098

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	4.715	2.731	0.000	.	1.726	0.085
HEIGHT2	50.242	1.400	0.763	1.000	35.881	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1585955.167	1	1585955.167	1287.429	0.000
RESIDUAL	1140718.953	926	1231.878		

Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$

DEP VAR: SPLEEN N: 928 MULTIPLE R: 0.754 SQUARED MULTIPLE R: 0.569  
ADJUSTED SQUARED MULTIPLE R: 0.568 STANDARD ERROR OF ESTIMATE: 35.640

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	22.743	2.341	0.000	.	9.717	0.000
HEIGHT3	27.651	0.791	0.754	1.000	34.937	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1550436.629	1	1550436.629	1220.591	0.000
RESIDUAL	1176237.492	926	1270.235		

Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$

DEP VAR: SPLEEN N: 927 MULTIPLE R: 0.766 SQUARED MULTIPLE R: 0.586  
ADJUSTED SQUARED MULTIPLE R: 0.585 STANDARD ERROR OF ESTIMATE: 34.925

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-32.064	7.795	0.000	.	-4.113	0.000
WEIGHT	0.637	0.228	0.230	0.066	2.795	0.005
HEIGHT	79.889	12.149	0.541	0.066	6.576	0.000

## ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	1597894.675	2	798947.338	655.002	0.000
RESIDUAL	1127060.706	924	1219.763		

**Table 98. Regression analysis of mass of the thymus against body height and weight in normal Japanese females, 0-49 years.**

**Org. wt. =  $a$  BodyWeight +  $b$**

DEP VAR: THYMUS N: 571 MULTIPLE R: 0.083 SQUARED MULTIPLE R: 0.007  
ADJUSTED SQUARED MULTIPLE R: 0.005 STANDARD ERROR OF ESTIMATE: 9.133

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	31.045	0.690	0.000	.	44.996	0.000
WEIGHT	-0.039	0.019	-0.083	1.000	-1.997	0.046

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	332.476	1	332.476	3.986	0.046
RESIDUAL	47456.339	569	83.403		

**Org. wt. =  $a$  BodyHeight +  $b$**

DEP VAR: THYMUS N: 572 MULTIPLE R: 0.036 SQUARED MULTIPLE R: 0.001  
ADJUSTED SQUARED MULTIPLE R: 0.000 STANDARD ERROR OF ESTIMATE: 9.151

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	28.923	1.210	0.000	.	23.900	0.000
HEIGHT	0.835	0.984	0.036	1.000	0.849	0.396

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	60.358	1	60.358	0.721	0.396
RESIDUAL	47728.467	570	83.734		

**Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$**

DEP VAR: THYMUS N: 572 MULTIPLE R: 0.010 SQUARED MULTIPLE R: 0.000  
ADJUSTED SQUARED MULTIPLE R: 0.000 STANDARD ERROR OF ESTIMATE: 9.156

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	30.054	0.773	0.000	.	38.899	0.000
HEIGHT2	-0.103	0.443	-0.010	1.000	-0.233	0.816

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	4.536	1	4.536	0.054	0.816
RESIDUAL	47784.290	570	83.832		

**Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$**

DEP VAR: THYMUS N: 572 MULTIPLE R: 0.043 SQUARED MULTIPLE R: 0.002  
ADJUSTED SQUARED MULTIPLE R: 0.000 STANDARD ERROR OF ESTIMATE: 9.148

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	30.432	0.646	0.000	.	47.124	0.000
HEIGHT3	-0.254	0.248	-0.043	1.000	-1.026	0.305

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	88.113	1	88.113	1.053	0.305
RESIDUAL	47700.713	570	83.685		

**Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$**

DEP VAR: THYMUS N: 571 MULTIPLE R: 0.435 SQUARED MULTIPLE R: 0.189  
ADJUSTED SQUARED MULTIPLE R: 0.186 STANDARD ERROR OF ESTIMATE: 8.261

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	8.732	2.073	0.000	.	4.212	0.000
WEIGHT	-0.736	0.064	-1.595	0.074	-11.462	0.000
HEIGHT	36.949	3.274	1.571	0.074	11.287	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	9026.164	2	4513.082	66.131	0.000
RESIDUAL	38762.651	568	68.244		

**Table 99. Regression analysis of mass of the thyroid against body height and weight in normal Japanese females, 0-49 years.**

**Org. wt. =  $a$  BodyWeight +  $b$**

DEP VAR: THYRD N: 926 MULTIPLE R: 0.889 SQUARED MULTIPLE R: 0.790  
ADJUSTED SQUARED MULTIPLE R: 0.790 STANDARD ERROR OF ESTIMATE: 3.292

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-0.204	0.227	0.000	.	-0.897	0.370
WEIGHT	0.323	0.005	0.889	1.000	58.946	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	37662.835	1	37662.835	3474.648	0.000
RESIDUAL	10015.535	924	10.839		

**Org. wt. =  $a$  BodyHeight +  $b$**

DEP VAR: THYRD N: 926 MULTIPLE R: 0.857 SQUARED MULTIPLE R: 0.734  
ADJUSTED SQUARED MULTIPLE R: 0.734 STANDARD ERROR OF ESTIMATE: 3.703

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-9.301	0.431	0.000	.	-21.590	0.000
HEIGHT	16.455	0.326	0.857	1.000	50.540	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	35022.838	1	35022.838	2554.314	0.000
RESIDUAL	12669.194	924	13.711		

**Org. wt. =  $a$  BodyHeight<sup>2</sup> +  $b$**

DEP VAR: THYRD N: 926 MULTIPLE R: 0.865 SQUARED MULTIPLE R: 0.749  
ADJUSTED SQUARED MULTIPLE R: 0.749 STANDARD ERROR OF ESTIMATE: 3.600

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	-1.459	0.275	0.000	.	-5.301	0.000
HEIGHT2	7.452	0.142	0.865	1.000	52.496	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	35716.734	1	35716.734	2755.862	0.000
RESIDUAL	11975.298	924	12.960		

**Org. wt. =  $a$  BodyHeight<sup>3</sup> +  $b$**

DEP VAR: THYRD N: 926 MULTIPLE R: 0.862 SQUARED MULTIPLE R: 0.744  
ADJUSTED SQUARED MULTIPLE R: 0.744 STANDARD ERROR OF ESTIMATE: 3.637

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	1.076	0.236	0.000	.	4.568	0.000
HEIGHT3	4.151	0.080	0.862	1.000	51.792	0.000

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	35472.860	1	35472.860	2682.418	0.000
RESIDUAL	12219.171	924	13.224		

**Org. wt. =  $a$  BodyHeight +  $b$  BodyWeight +  $c$**

DEP VAR: THYRD N: 925 MULTIPLE R: 0.889 SQUARED MULTIPLE R: 0.791  
ADJUSTED SQUARED MULTIPLE R: 0.790 STANDARD ERROR OF ESTIMATE: 3.289

VARIABLE	COEFFICIENT	STD ERROR	STD COEF	TOLERANCE	T	P(2 TAIL)
CONSTANT	0.460	0.728	0.000	.	0.632	0.527
WEIGHT	0.343	0.022	0.946	0.063	15.777	0.000
HEIGHT	-1.125	1.151	-0.059	0.063	-0.977	0.329

**ANALYSIS OF VARIANCE**

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
REGRESSION	37697.503	2	18848.752	1742.207	0.000
RESIDUAL	9975.022	922	10.819		



Table 100. Summary of the regression analyses of organ masses and physical parameters in normal Japanese males.

	Brain (BW<13kg)			Brain (BW>=13kg)			Pituitary			Thyroid		
	a	b	r	a	b	r	a	b	r	a	b	r
0-19 Group	98.360	96.420	0.906	2.547	1341.000	0.377	0.006	0.164	0.823	0.295	-0.377	0.947
Org. wt. = a BodyWeight +b												
Org. wt. = a BodyHeight +b							0.340	-0.047	0.821	14.128	-8.211	0.897
Org. wt. = a BodyHeight <sup>2</sup> +b	1681.329	74.971	0.923	77.271	1282.576	0.425	0.145	0.127	0.828	6.318	-1.443	0.924
Org. wt. = a BodyHeight <sup>3</sup> +b							0.076	0.184	0.822	3.421	0.711	0.934
20-49 Group												
Org. wt. = a BodyWeight +b				2.316	1315.980	0.199	0.001	0.499	0.090	0.182	8.357	0.335
Org. wt. = a BodyHeight +b				340.100	890.491	0.203	0.077	0.427	0.051	8.200	5.329	0.104
Org. wt. = a BodyHeight <sup>2</sup> +b				152.142	1033.186	0.290	0.054	0.419	0.091	3.317	10.431	0.135
0-49 Group												
Org. wt. = a BodyWeight +b	98.360	96.417	0.906	1.628	1350.128	0.156	0.006	0.178	0.633	0.315	-0.251	0.779
Org. wt. = a BodyHeight +b	2260.469	-665.601	0.932	192.123	1134.742	0.245	0.387	-0.078	0.638	17.867	-10.884	0.761
Org. wt. = a BodyHeight <sup>2</sup> +b	1649.328	87.743	0.924	71.246	1258.013	0.256	0.156	0.136	0.634	7.484	-1.712	0.766
Org. wt. = a BodyHeight <sup>3</sup> +b	1550.674	343.463	0.909	33.983	1299.308	0.266	0.078	0.212	0.621	3.839	1.390	0.760

	Thymus			Heart			Left Lung			Right Lung		
	a	b	r	a	b	r	a	b	r	a	b	r
0-19 Group	0.165	28.571	0.258	5.663	0.615	0.961	8.211	6.850	0.949	8.667	17.430	0.957
Org. wt. = a BodyWeight +b												
Org. wt. = a BodyHeight +b	10.048	21.810	0.316	274.903	-153.211	0.925	401.772	-219.644	0.920	417.853	-216.000	0.924
Org. wt. = a BodyHeight <sup>2</sup> +b	4.101	27.176	0.295	122.508	-21.247	0.946	178.850	-26.522	0.940	187.439	-16.227	0.945
Org. wt. = a BodyHeight <sup>3</sup> +b	2.045	28.914	0.274	66.164	20.608	0.952	96.510	34.775	0.945	101.758	47.421	0.903
20-49 Group												
Org. wt. = a BodyWeight +b	0.650	-6.484	0.369	3.553	169.394	0.446	3.500	417.892	0.180	3.500	417.892	0.180
Org. wt. = a BodyHeight +b	48.300	-48.789	0.202	203.800	37.059	0.171	301.600	122.849	0.109	301.600	122.849	0.109
Org. wt. = a BodyHeight <sup>2</sup> +b	11.805	-0.319	0.169	74.286	181.416	0.170	125.694	200.749	0.177	130.682	284.592	0.145
0-49 Group												
Org. wt. = a BodyWeight +b	0.060	29.670	0.098	6.278	-0.638	0.801	8.750	8.291	0.756	10.343	5.272	0.740
Org. wt. = a BodyHeight +b	4.925	25.529	0.141	356.037	-212.147	0.786	500.166	-292.470	0.747	584.412	-339.509	0.723
Org. wt. = a BodyHeight <sup>2</sup> +b	1.935	28.319	0.131	149.472	-30.327	0.626	210.140	-37.430	0.752	245.862	-42.167	0.728
Org. wt. = a BodyHeight <sup>3</sup> +b	0.957	29.215	0.124	76.845	30.863	0.785	108.127	48.241	0.748	126.715	57.316	0.724

Table 100. (continued).

[RJ92]

	Liver			N= 547			Spleen			N= 533			Pancreas			N= 537			Left Kidney			N=546		
	a	b	r	a	b	r	a	b	r	a	b	r	a	b	r	a	b	r	a	b	r	a	b	r
0-19 Group																								
Org. wt. = a BodyWeight +b	22.775	177.424	0.953				1.894	18.613	0.889	1.893	4.328	0.937	2.255	13.522	0.950									
Org. wt. = a BodyHeight +b	1149.236	-487.820	0.956				97.020	38.663	0.897	95.293	-50.945	0.935	113.291	-51.932	0.949									
Org. wt. = a BodyHeight <sup>2</sup> +b	503.538	75.151	0.961				42.150	9.539	0.897	7.000	-4.233	0.941	49.786	3.416	0.956									
Org. wt. = a BodyHeight <sup>3</sup> +b	268.111	253.876	0.952				22.279	24.998	0.886	22.274	10.670	0.935	26.567	21.037	0.950									
20-49 Group																								
Org. wt. = a BodyWeight +b	15.337	729.802	0.435				1.456	44.292	0.258	1.745	34.324	0.458	1.340	89.139	0.199									
Org. wt. = a BodyHeight +b	1311.300	-546.811	0.251				154.200	-125.744	0.187	79.100	3.736	0.141	125.000	-39.725	0.239									
Org. wt. = a BodyHeight <sup>2</sup> +b	444.061	413.025	0.264				38.329	33.931	0.130	34.267	44.868	0.139	39.587	60.348	0.249									
0-49 Group																								
Org. wt. = a BodyWeight +b	23.632	180.532	0.803				1.970	18.162	0.538	2.235	0.999	0.656	2.542	12.102	0.830									
Org. wt. = a BodyHeight +b	1366.629	-654.911	0.805				114.413	-52.298	0.537	127.151	-74.945	0.645	146.283	-76.637	0.827									
Org. wt. = a BodyHeight <sup>2</sup> +b	572.937	44.529	0.808				47.737	6.880	0.538	53.219	-9.616	0.647	61.299	-1.648	0.829									
Org. wt. = a BodyHeight <sup>3</sup> +b	294.725	278.034	0.801				24.461	26.768	0.534	27.309	12.376	0.642	31.485	23.568	0.822									

	Right Kidney			N=548			Left Adrenal			N=542			Right Adrenal			N=539		
	a	b	r	a	b	r	a	b	r	a	b	r	a	b	r	a	b	r
0-19 Group																		
Org. wt. = a BodyWeight +b	2.138	13.957	0.945				0.080	1.546	0.888	0.078	1.502	0.886						
Org. wt. = a BodyHeight +b	107.941	-48.626	0.948				3.890	-0.646	0.856	3.823	-0.676	0.860						
Org. wt. = a BodyHeight <sup>2</sup> +b	47.367	4.187	0.954				1.736	1.222	0.879	1.700	1.170	0.881						
Org. wt. = a BodyHeight <sup>3</sup> +b	25.249	20.993	0.947				0.937	1.819	0.885	0.914	1.762	0.885						
20-49 Group																		
Org. wt. = a BodyWeight +b	1.244	85.490	0.374				0.047	4.599	0.243	0.050	3.981	0.268						
Org. wt. = a BodyHeight +b	103.200	-12.951	0.213				5.300	-1.508	0.190	4.400	-0.488	0.167						
Org. wt. = a BodyHeight <sup>2</sup> +b	30.845	74.336	0.212				1.599	3.097	0.184	1.103	3.967	0.110						
0-49 Group																		
Org. wt. = a BodyWeight +b	2.369	13.210	0.832				0.098	1.378	0.725	0.090	1.444	0.639						
Org. wt. = a BodyHeight +b	136.128	-69.172	0.828				5.582	-1.935	0.708	5.147	-1.657	0.629						
Org. wt. = a BodyHeight <sup>2</sup> +b	56.915	0.910	0.829				2.350	0.901	0.716	2.155	0.987	0.633						
Org. wt. = a BodyHeight <sup>3</sup> +b	29.172	24.557	0.819				1.212	1.850	0.714	1.105	1.882	0.628						

Table 100. (continued).

[RJ92]

	Left Testis(BW<=30kg) N=352			Left Testis(BW>30kg) N=181			Right Testis(BW<=31N=534			Right Testis(BW>30kg) N=534		
	a	b	r	a	b	r	a	b	r	a	b	r
0-19 Group												
Org. wt. = a BodyWeight +b	0.044	0.863	0.568	0.396	-6.397	0.757	0.044	0.895	0.575	0.417	-7.318	0.760
Org. wt. = a BodyHeight +b	1.187	0.396	0.564				1.198	0.421	0.574			
Org. wt. = a BodyHeight <sup>2</sup> +b	0.658	0.890	0.566	11.259	-14.794	0.690	0.660	0.922	0.573	11.967	-16.496	0.698
Org. wt. = a BodyHeight <sup>3</sup> +b	0.453	1.053	0.564				0.451	1.089	0.567			
20-49 Group						N=1298						N=1289
Org. wt. = a BodyWeight +b				0.120	10.863	0.286				0.134	10.857	0.312
Org. wt. = a BodyHeight +b				12.800	-3.388	0.214				12.400	-1.808	0.200
Org. wt. = a BodyHeight <sup>2</sup> +b				3.655	7.897	0.205				3.436	9.317	0.185
0-49 Group			N=352			N=1821			N=352			N=1817
Org. wt. = a BodyWeight +b	0.044	0.863	0.568	0.268	1.491	0.371	0.044	0.895	0.575	0.282	1.418	0.371
Org. wt. = a BodyHeight +b	1.187	0.396	0.564	18.382	-12.657	0.321	1.198	0.421	0.574	18.592	-12.237	0.308
Org. wt. = a BodyHeight <sup>2</sup> +b	0.658	0.890	0.566	5.610	2.369	0.316	0.660	0.922	0.573	5.665	2.987	0.303
Org. wt. = a BodyHeight <sup>3</sup> +b	0.453	1.053	0.564	2.265	7.438	0.310	0.451	1.089	0.567	2.283	8.123	0.297

Table 101. Summary of the regression analyses of organ masses and physical parameters in normal Japanese females.

	Left Adrenal			Right Adrenal			Brain (BW<13kg)			Brain (BW>=13kg)		
	a	b	r	a	b	r	a	b	r	a	b	r
0-19 Group												
Org. wt. = a BodyWeight +b	0.091	1.372	0.839	0.087	1.266	0.897	90.387	127.870	0.890	1.648	1247.413	0.273
Org. wt. = a BodyHeight +b	4.126	-0.863	0.863	3.990	-0.901	0.868	2037.305	-550.355	0.889	126.871	1135.200	0.322
Org. wt. = a BodyHeight^2 +b	1.928	1.060	0.878	1.859	0.968	0.883	1476.288	131.129	0.880	47.933	1216.372	0.316
Org. wt. = a BodyHeight^3 +b	1.093	1.688	0.877	1.052	1.577	0.882	1377.668	360.973	0.865	23.676	1242.858	0.311
20-49 Group												
Org. wt. = a BodyWeight +b	0.061	3.419	0.131	0.082	1.984	0.190				2.613	1171.520	0.107
Org. wt. = a BodyHeight +b	2.581	2.627	0.111	1.345	4.212	0.062				296.919	853.316	0.239
Org. wt. = a BodyHeight^2 +b	0.833	4.624	0.109	0.457	5.198	0.064				98.027	1077.843	0.241
Org. wt. = a BodyHeight^3 +b	0.360	5.280	0.108	0.201	5.547	0.065				42.934	1153.104	0.242
0-49 Group												
Org. wt. = a BodyWeight +b	0.099	1.281	0.857	0.096	1.167	0.866	90.387	127.870	0.890	1.070	1257.815	0.167
Org. wt. = a BodyHeight +b	5.103	-1.569	0.830	4.903	-1.554	0.832	2037.305	-550.355	0.889	108.491	1148.511	0.238
Org. wt. = a BodyHeight^2 +b	2.304	0.877	0.837	2.207	0.810	0.838	1476.288	131.129	0.880	41.652	1216.819	0.240
Org. wt. = a BodyHeight^3 +b	1.280	1.671	0.833	1.223	1.579	0.834	1377.668	360.973	0.865	20.868	1239.251	0.242

	Heart			Left Kidney			Right Kidney			Liver		
	a	b	r	a	b	r	a	b	r	a	b	r
0-19 Group												
Org. wt. = a BodyWeight +b	4.844	14.033	0.943	2.289	11.910	0.943	2.272	11.186	0.942	23.400	164.122	0.954
Org. wt. = a BodyHeight +b	228.112	-113.472	0.943	107.587	-48.028	0.942	106.494	-47.999	0.939	1103.770	-453.298	0.958
Org. wt. = a BodyHeight^2 +b	105.380	-5.510	0.949	49.583	2.986	0.946	49.157	2.400	0.944	506.906	72.610	0.958
Org. wt. = a BodyHeight^3 +b	59.112	29.906	0.938	27.798	19.605	0.935	27.593	18.818	0.934	283.296	244.151	0.944
20-49 Group												
Org. wt. = a BodyWeight +b	4.234	87.215	0.156	1.068	86.670	0.133	1.273	69.330	0.154	17.086	452.969	0.201
Org. wt. = a BodyHeight +b	37.171	250.579	0.027	76.437	25.324	0.184	75.264	20.445	0.179	755.165	187.009	0.175
Org. wt. = a BodyHeight^2 +b	13.171	276.586	0.029	25.351	82.857	0.187	24.981	77.048	0.181	248.922	758.967	0.176
Org. wt. = a BodyHeight^3 +b	6.041	285.719	0.031	11.283	101.678	0.191	11.035	95.893	0.183	109.171	949.536	0.177
0-49 Group												
Org. wt. = a BodyWeight +b	5.616	5.287	0.866	2.486	10.028	0.920	2.377	10.295	0.914	22.583	175.388	0.908
Org. wt. = a BodyHeight +b	289.029	-157.008	0.839	129.765	-64.110	0.906	124.249	-60.815	0.902	1193.584	-516.853	0.905
Org. wt. = a BodyHeight^2 +b	129.725	-16.994	0.842	58.268	-1.346	0.909	55.801	-0.737	0.905	533.741	64.572	0.904
Org. wt. = a BodyHeight^3 +b	71.630	28.929	0.834	32.244	19.045	0.902	30.878	18.788	0.897	294.319	254.129	0.894

Table 101. (continued).

[RJ92]

Continued

	Left Lung		N=479		Right Lung		N=444		Pancreas		N= 489		Pituitary		N=395	
	a	b	r		a	b	r		a	b	r		a	b	r	
0-19 Group																
Org. wt. = a BodyWeight + b	6.399	25.095	0.932		7.186	34.130	0.929		1.967	3.463	0.942		0.009	0.154	0.900	
Org. wt. = a BodyHeight + b	291.153	-132.401	0.899		325.621	-142.226	0.903		92.615	-48.303	0.941		0.429	-0.087	0.846	
Org. wt. = a BodyHeight <sup>2</sup> + b	134.762	4.977	0.907		150.876	11.117	0.911		42.667	-4.324	0.945		0.197	0.120	0.869	
Org. wt. = a BodyHeight <sup>3</sup> + b	75.787	49.891	0.901		84.813	61.211	0.904		23.906	10.055	0.935		0.110	0.189	0.876	
20-49 Group																
Org. wt. = a BodyWeight + b	5.949	102.242	0.185		5.959	180.366	0.164		1.814	18.022	0.219		-0.003	0.785	0.029	
Org. wt. = a BodyHeight + b	147.528	186.346	0.091		299.905	31.863	0.161		66.650	10.383	0.158		0.187	0.349	0.037	
Org. wt. = a BodyHeight <sup>2</sup> + b	49.455	296.145	0.093		98.725	259.332	0.162		22.476	59.682	0.163		0.061	0.492	0.036	
Org. wt. = a BodyHeight <sup>3</sup> + b	22.407	331.429	0.097		43.812	333.092	0.164		10.035	76.253	0.167		0.027	0.538	0.037	
0-49 Group																
Org. wt. = a BodyWeight + b	7.396	13.639	0.882		8.744	16.746	0.885		2.089	2.105	0.900		0.009	0.162	0.825	
Org. wt. = a BodyHeight + b	375.483	-193.553	0.843		445.244	-229.603	0.850		109.046	-60.232	0.884		0.473	-0.118	0.795	
Org. wt. = a BodyHeight <sup>2</sup> + b	168.883	-12.399	0.848		200.819	-15.870	0.856		48.913	-7.363	0.887		0.209	0.119	0.804	
Org. wt. = a BodyHeight <sup>3</sup> + b	93.479	46.690	0.843		111.456	53.575	0.852		27.035	9.880	0.879		0.114	0.198	0.802	

	Spleen		N= 487		Thymus		N=441		Thyroid		N=485	
	a	b	r		a	b	r		a	b	r	
0-19 Group												
Org. wt. = a BodyWeight + b	2.210	14.980	0.893		0.071	29.776	0.144		0.309	-0.095	0.924	
Org. wt. = a BodyHeight + b	105.820	-45.096	0.904		6.095	24.978	0.262		13.891	-7.504	0.884	
Org. wt. = a BodyHeight <sup>2</sup> + b	48.108	5.994	0.898		2.221	28.625	0.207		6.541	-1.094	0.905	
Org. wt. = a BodyHeight <sup>3</sup> + b	26.659	22.719	0.879		0.986	29.809	0.162		3.734	0.984	0.909	
20-49 Group												
Org. wt. = a BodyWeight + b	1.383	51.929	0.092		0.471	0.779	0.148		0.160	8.451	0.123	
Org. wt. = a BodyHeight + b	148.843	-103.720	0.197		30.453	-21.571	0.200		3.310	11.727	0.050	
Org. wt. = a BodyHeight <sup>2</sup> + b	49.213	8.661	0.198		10.286	4.286	0.207		1.190	14.003	0.055	
Org. wt. = a BodyHeight <sup>3</sup> + b	21.484	46.692	0.199		4.681	8.137	0.216		0.546	14.827	0.058	
0-49 Group												
Org. wt. = a BodyWeight + b	2.086	16.687	0.753		-0.039	31.045	0.083		0.323	-0.204	0.889	
Org. wt. = a BodyHeight + b	112.713	-50.513	0.764		0.935	28.923	0.036		16.455	-9.301	0.857	
Org. wt. = a BodyHeight <sup>2</sup> + b	50.242	4.715	0.763		-0.103	30.054	0.010		7.452	-1.459	0.865	
Org. wt. = a BodyHeight <sup>3</sup> + b	27.651	22.743	0.754		-0.254	30.432	0.043		4.151	1.067	0.862	

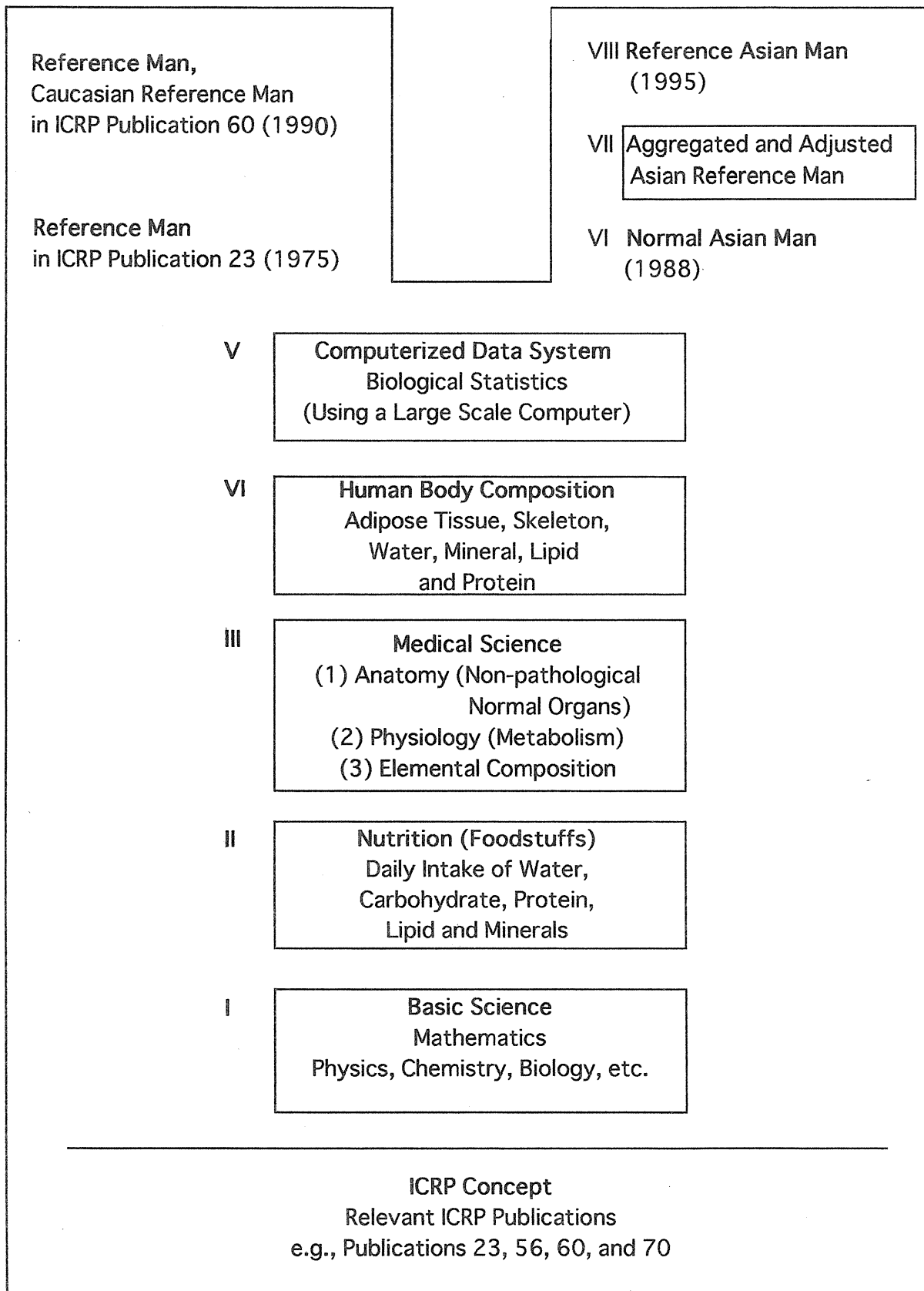


Fig. 1. Framework of reference man studies.



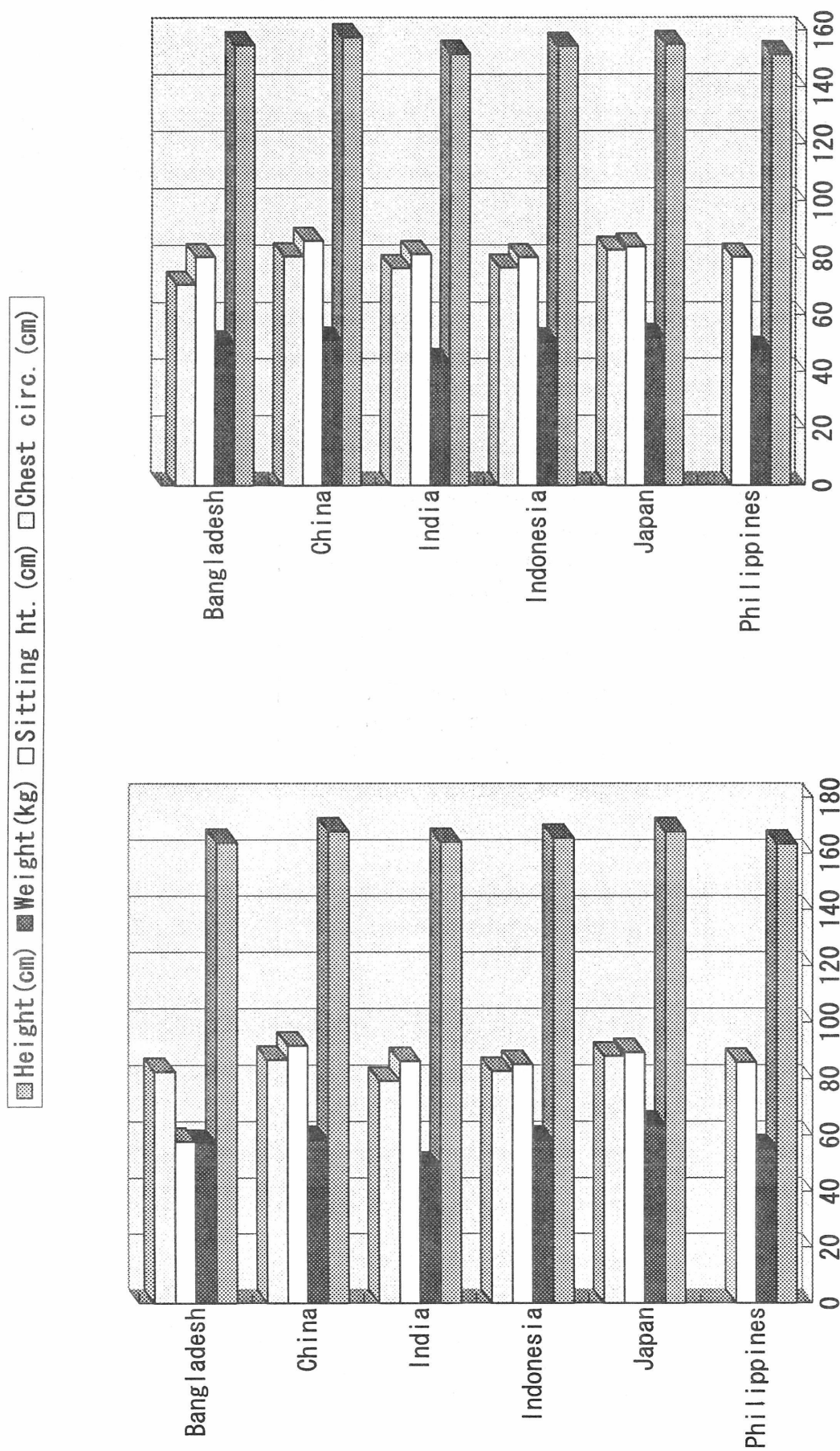


Fig. 2. Physical measurements as tentatively reported in the IAEA-RCA CRP on Reference Asian Man.

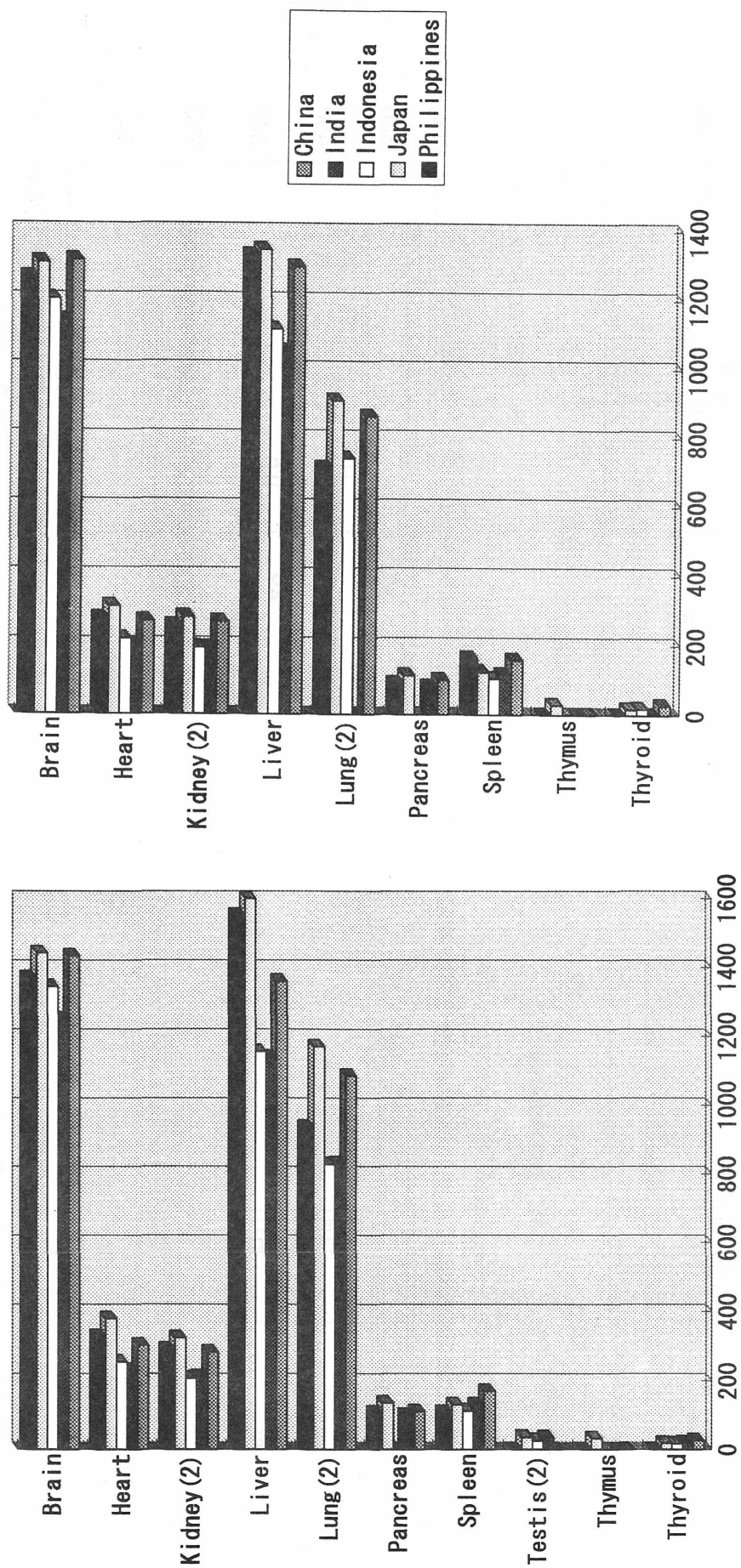


Fig. 3. Masses of organs as tentatively reported in the IAEA-RCA CRP on Reference Asian Man.



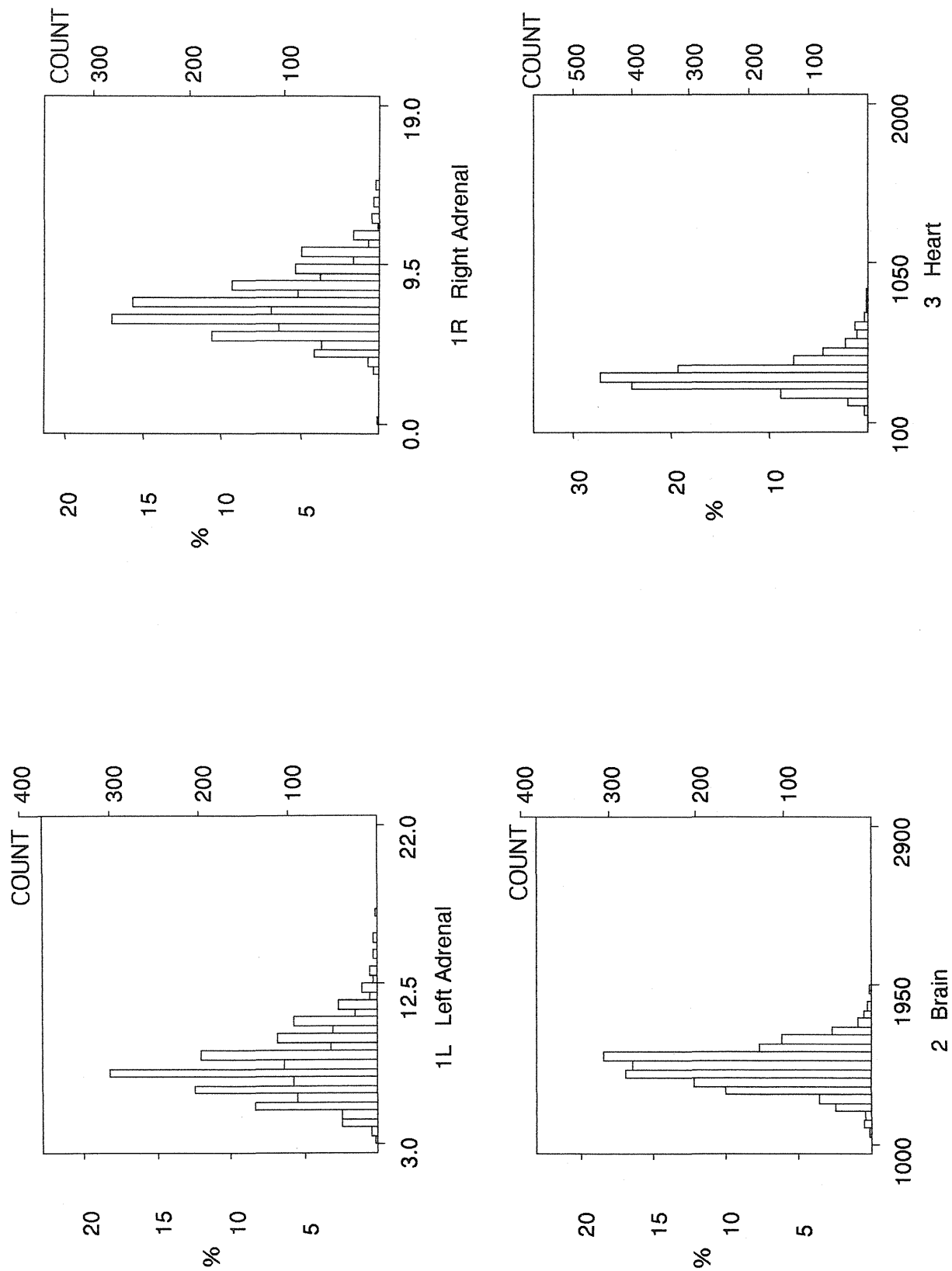


Fig. 4. Histogram for normal, *in situ* weights of organs of adult males (20-49 years).

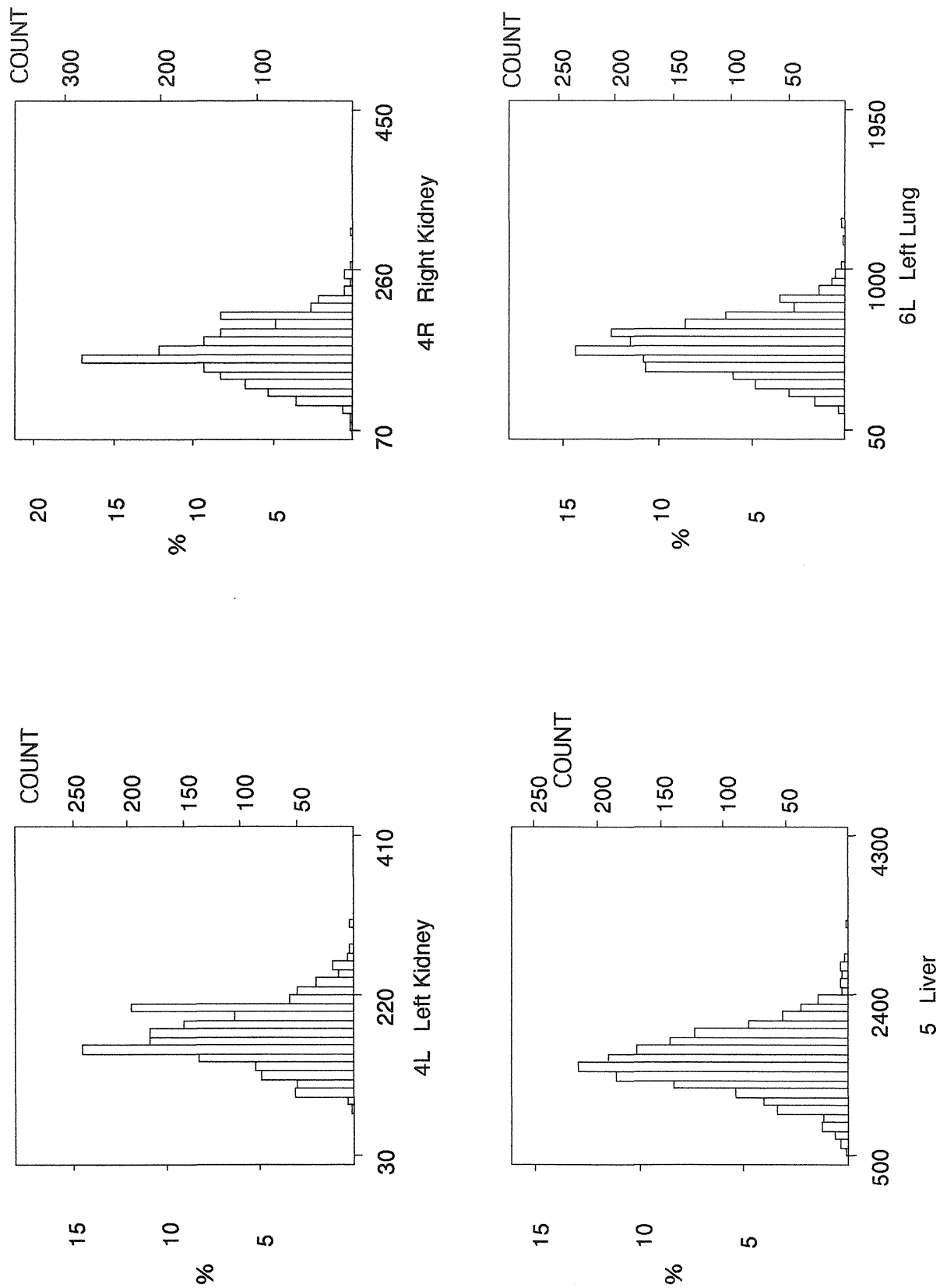


Fig. 4. (continued)

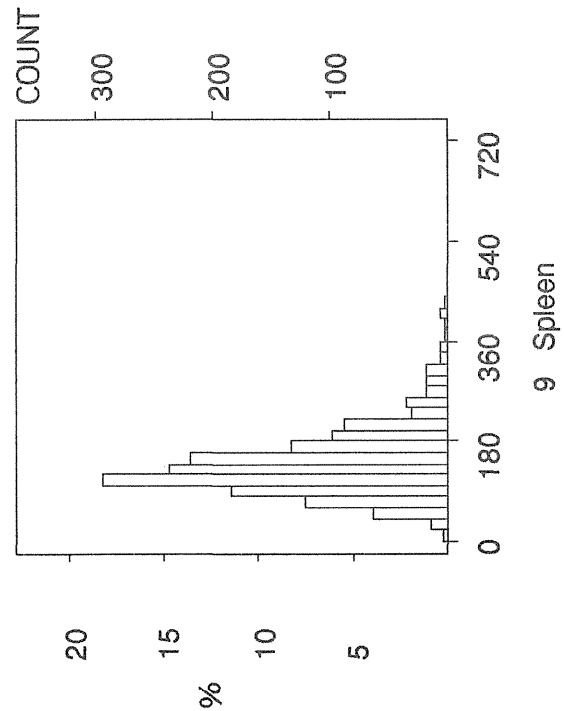
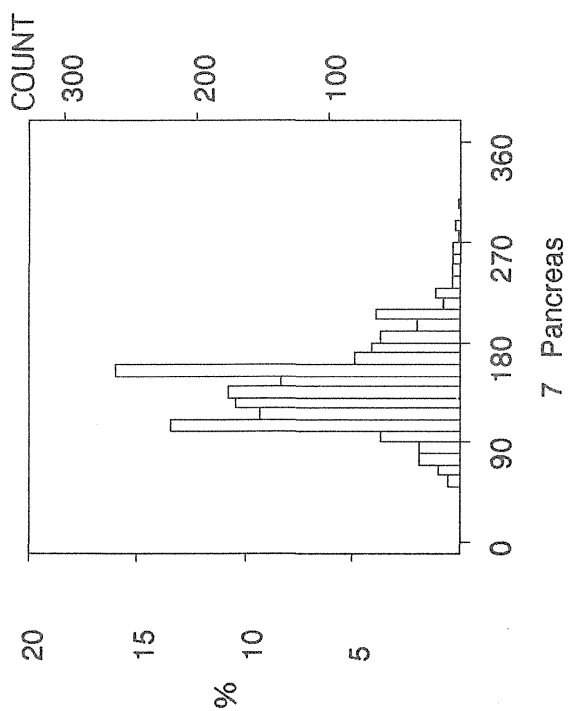
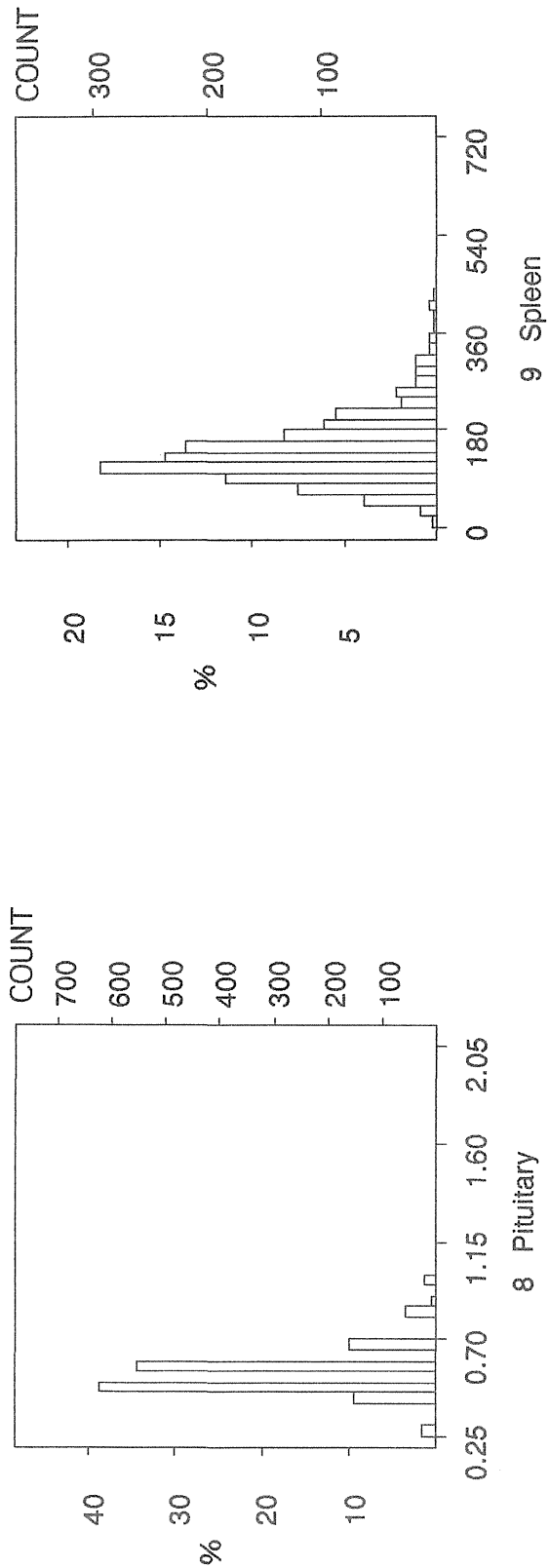
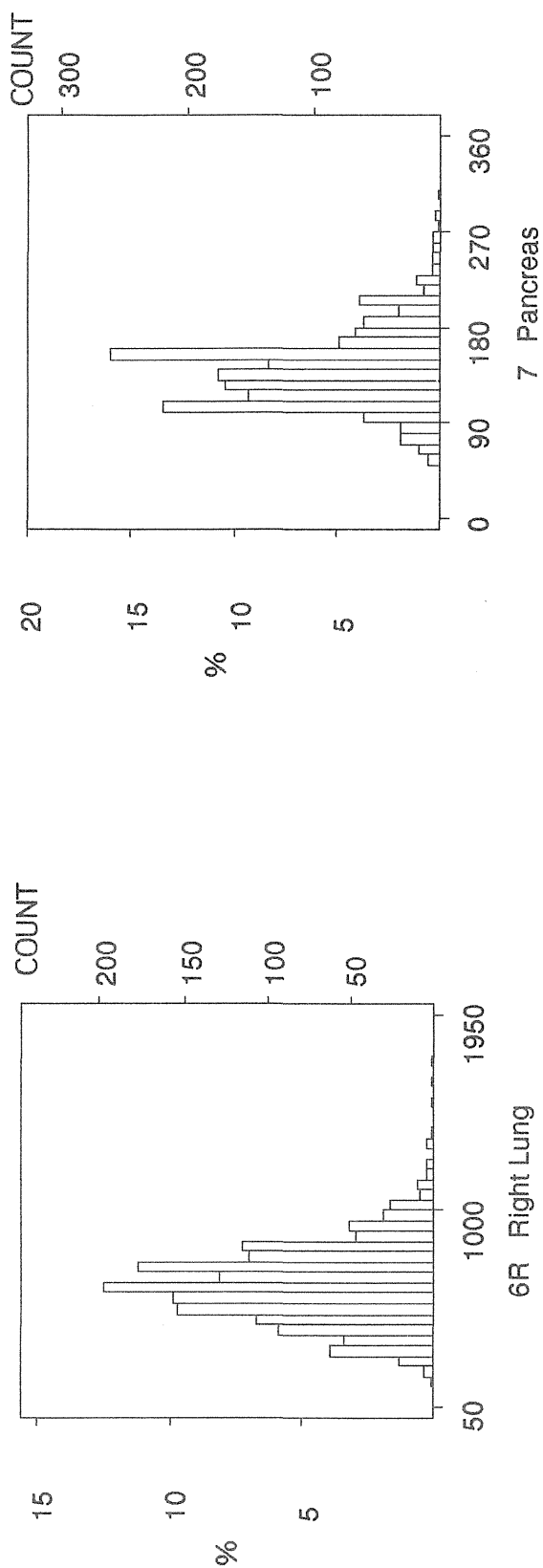


Fig. 4. (continued)

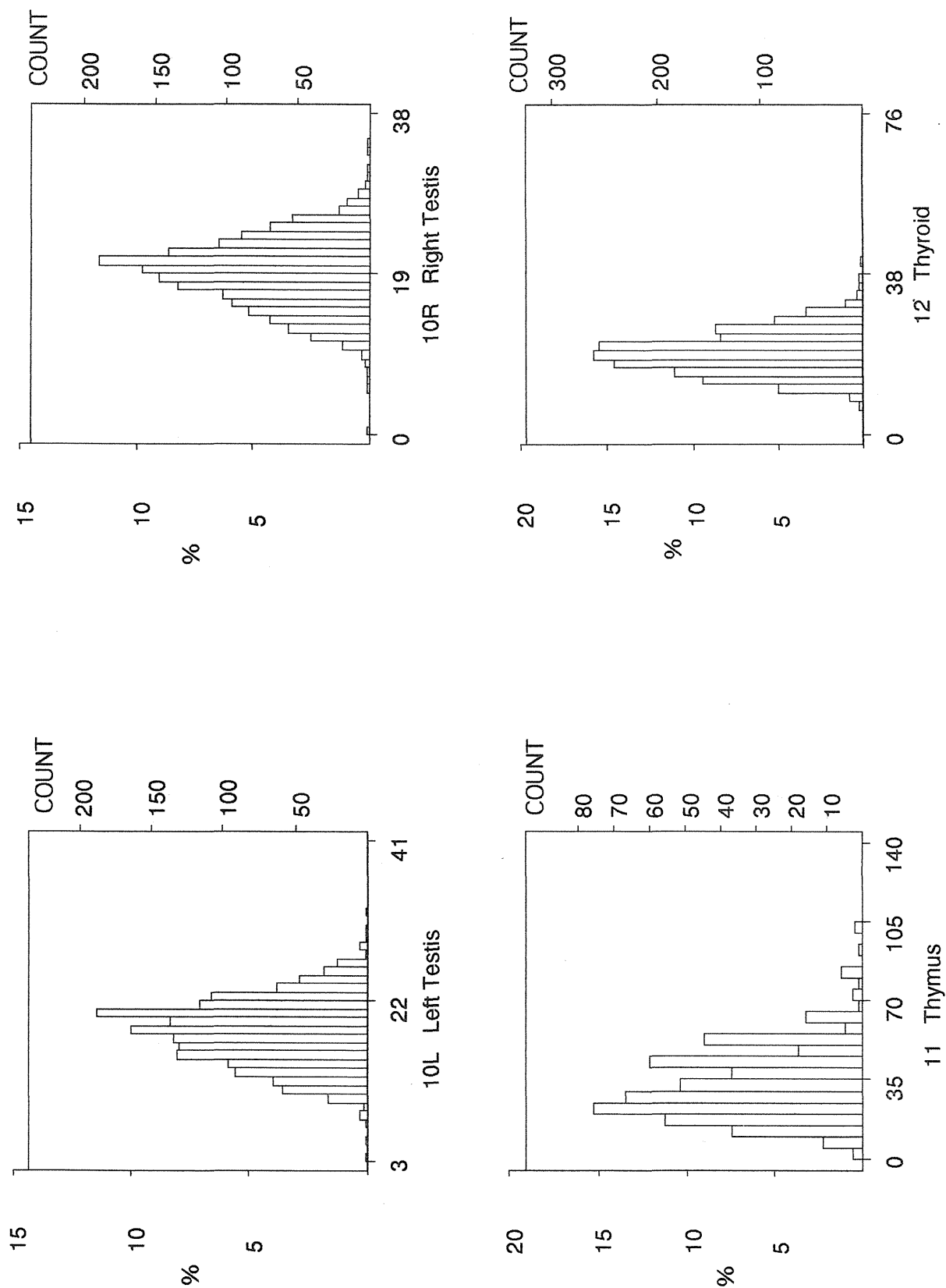


Fig. 4. (continued)

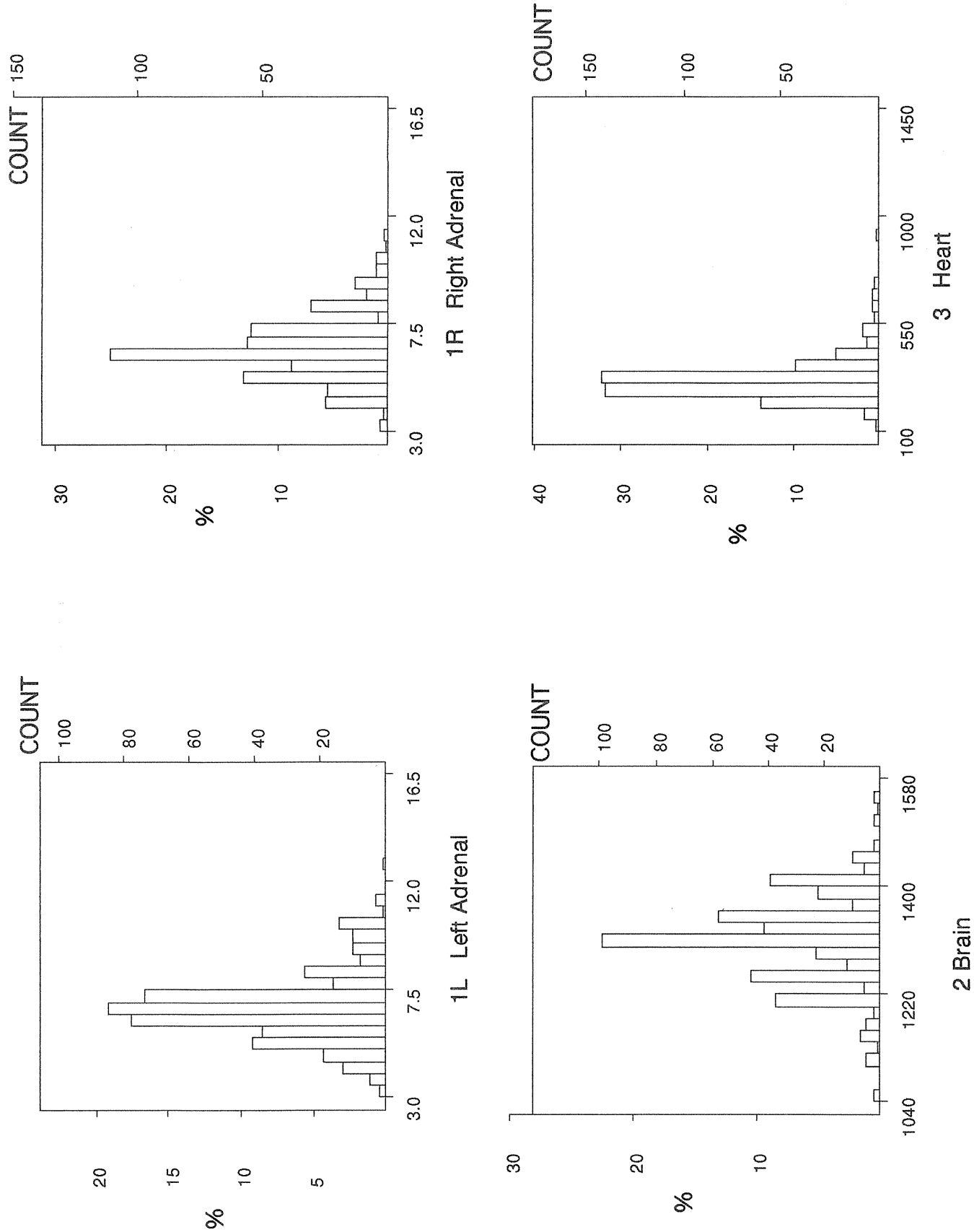


Fig. 5. Histogram for normal, *in situ* weights of organs of adult females (20-49 years).

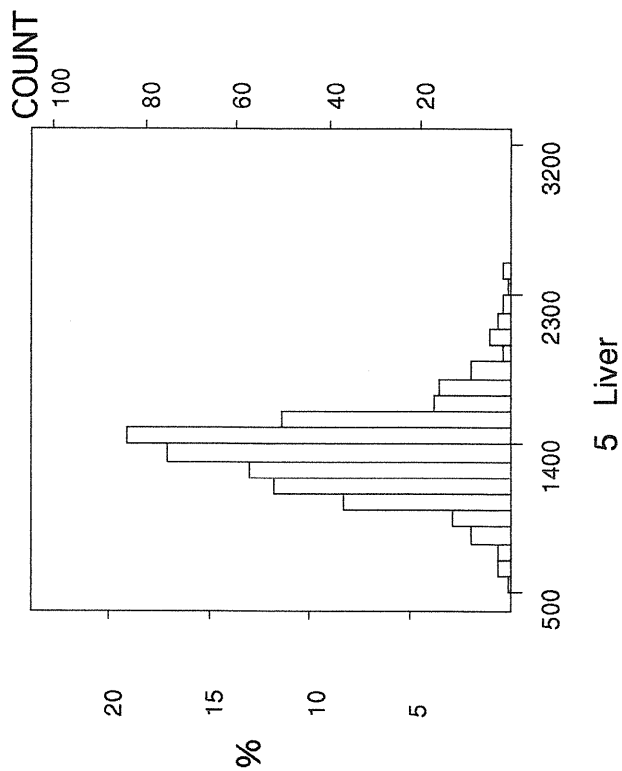
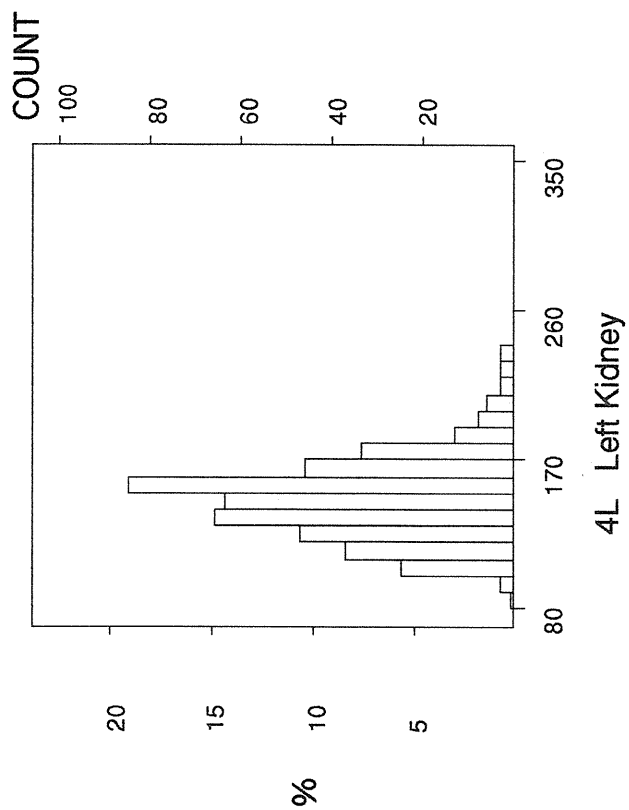
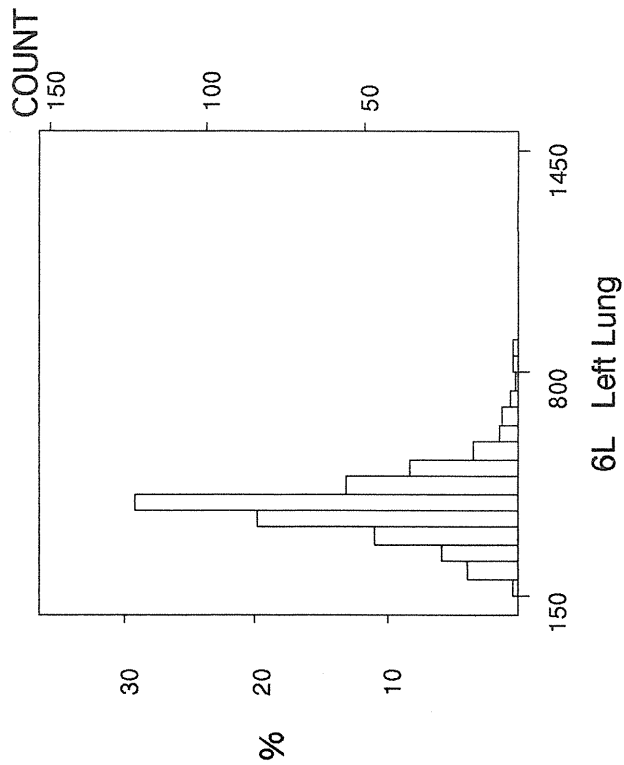
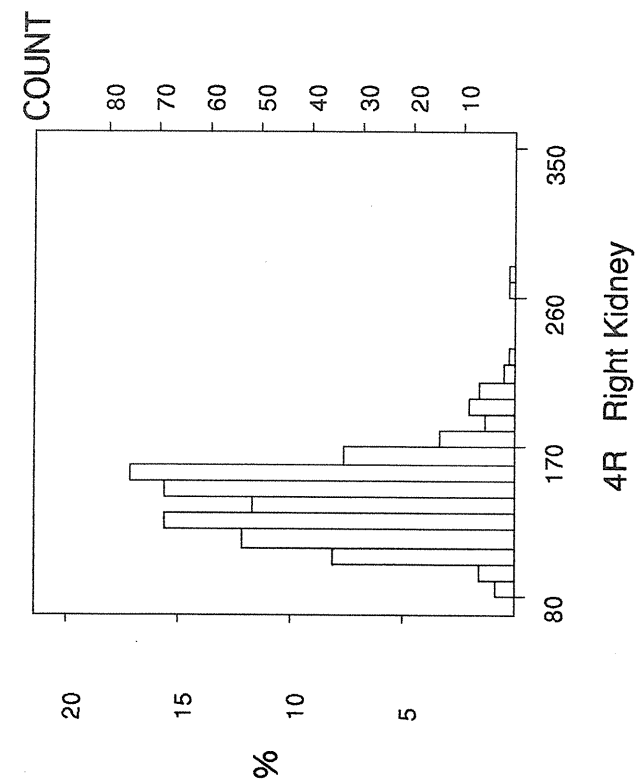


Fig. 5. (continued)

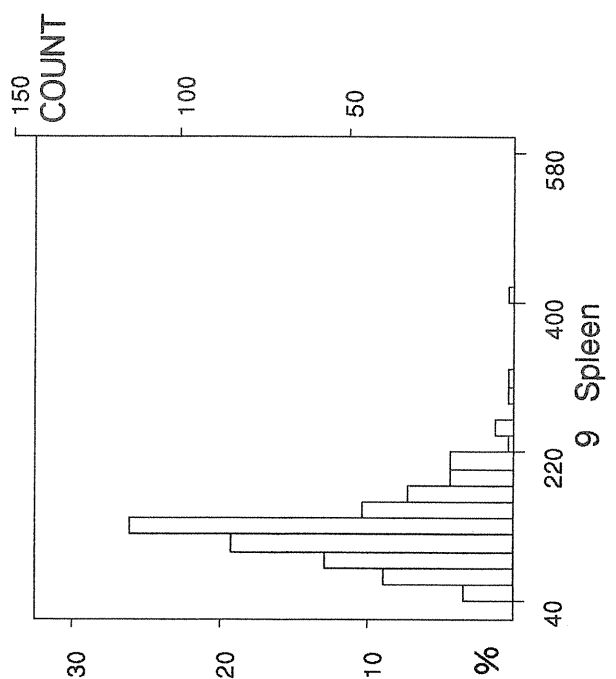
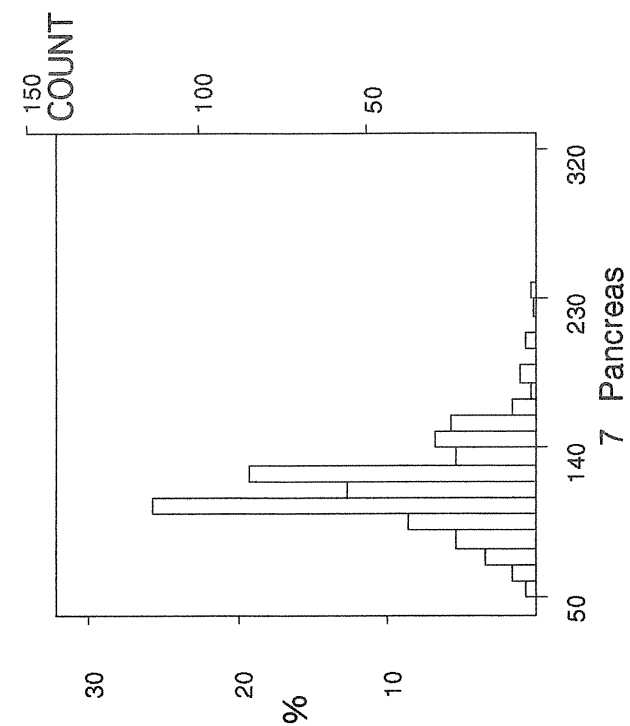
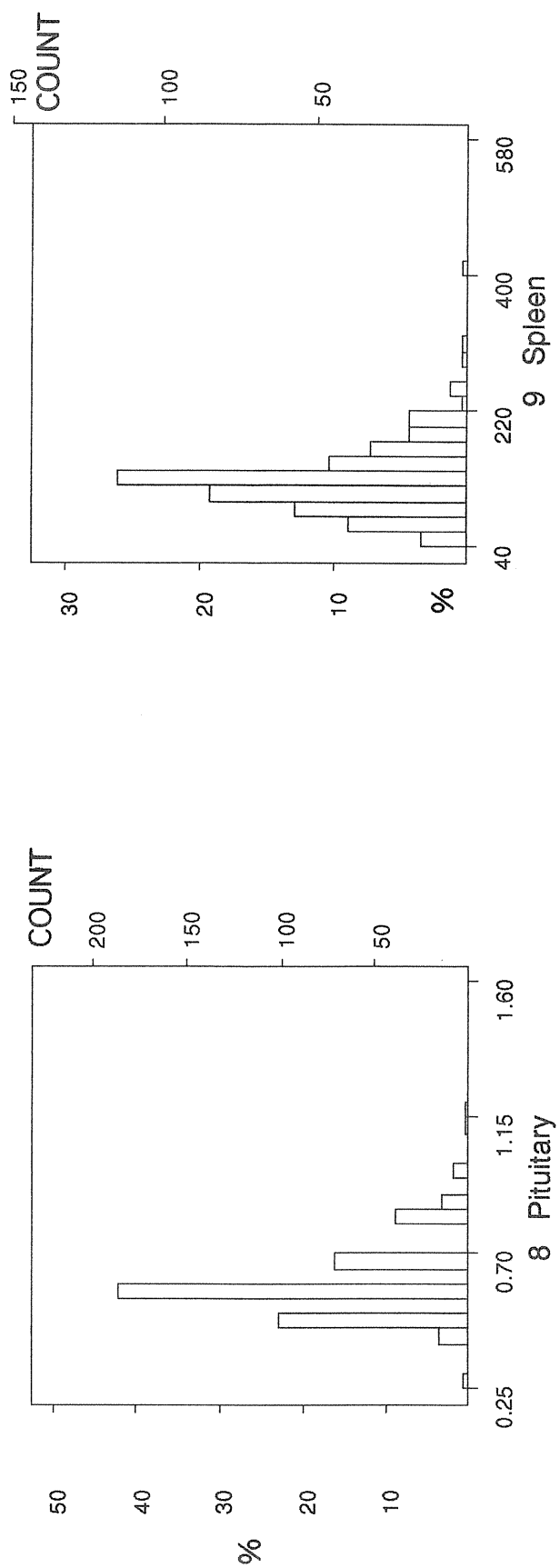
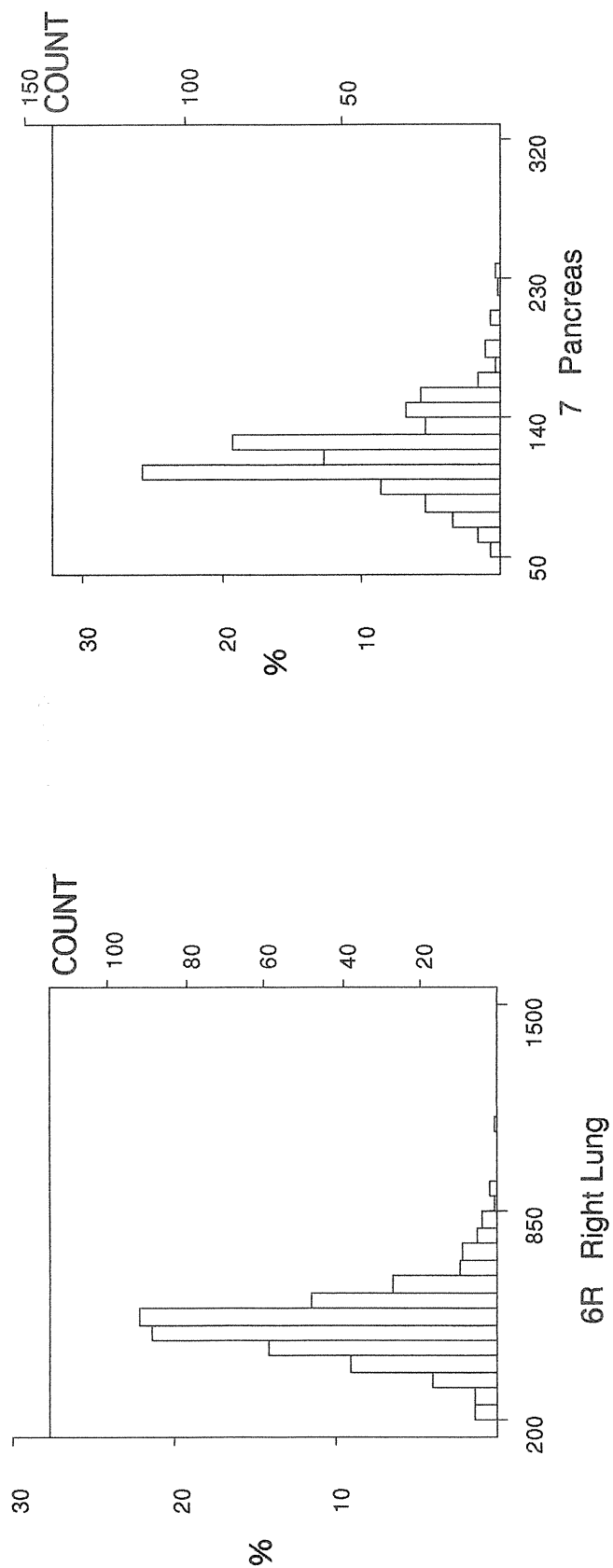


Fig. 5. (continued)

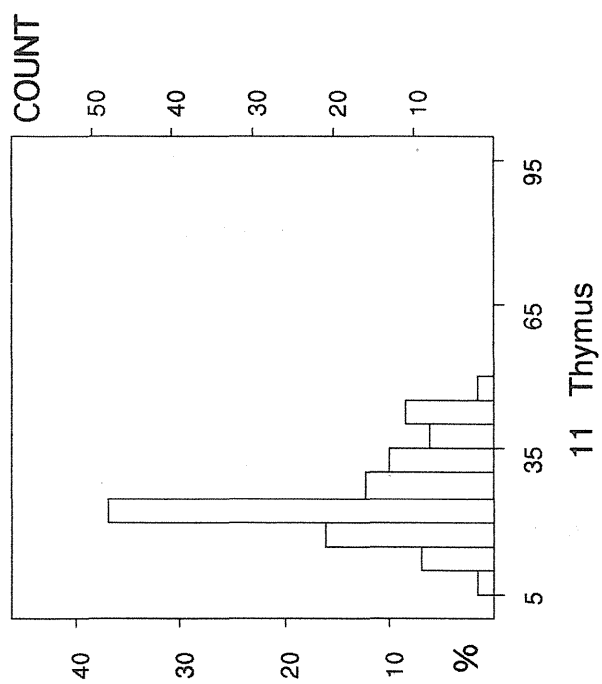
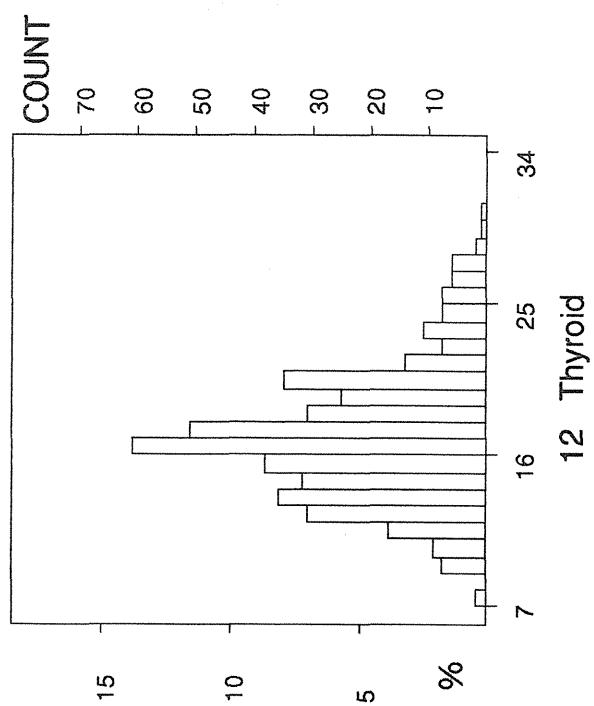


Fig. 5. (continued)



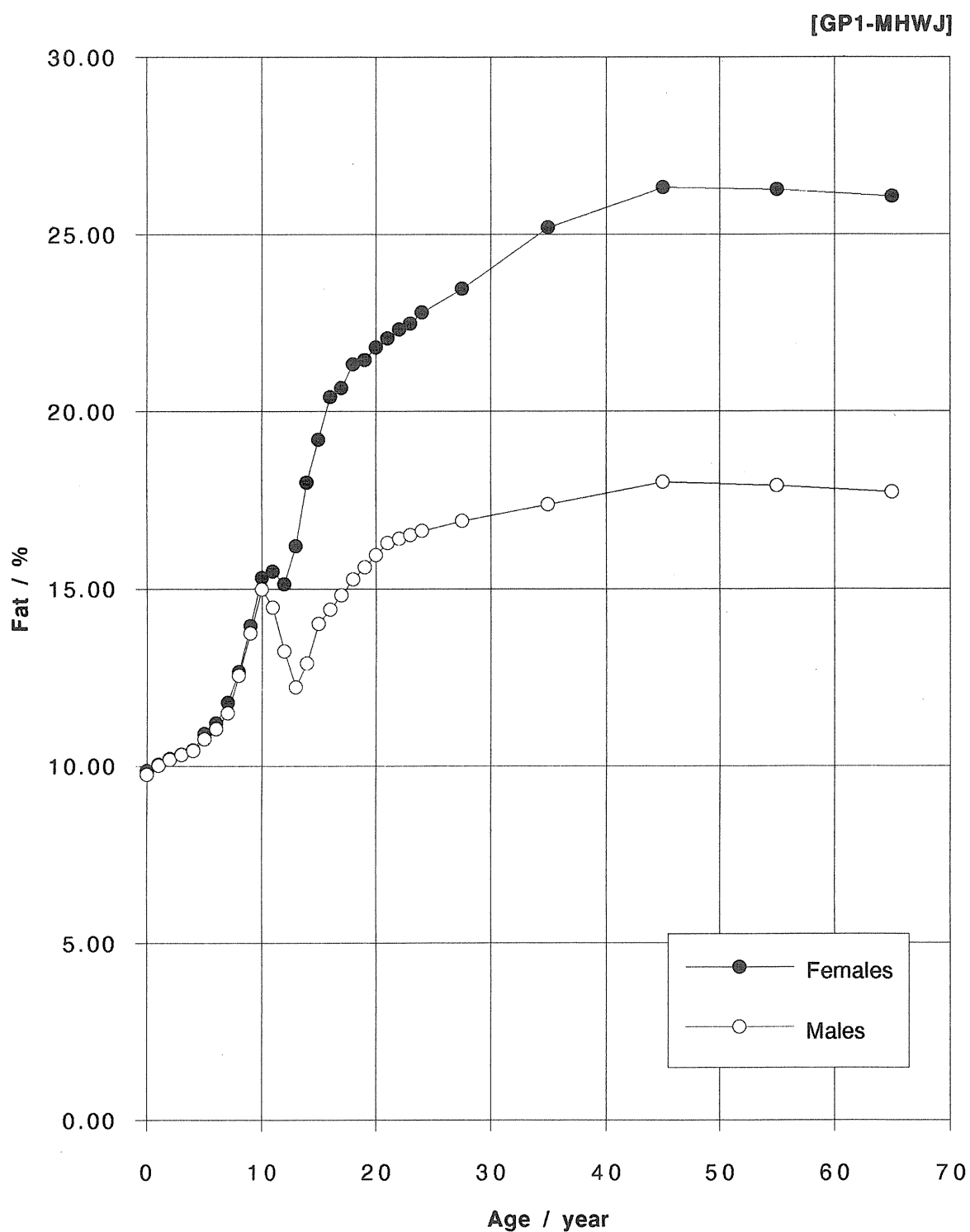


Fig. 6. Body lipid (fat) content for Tanaka Model for Asian reference male and female of different ages.

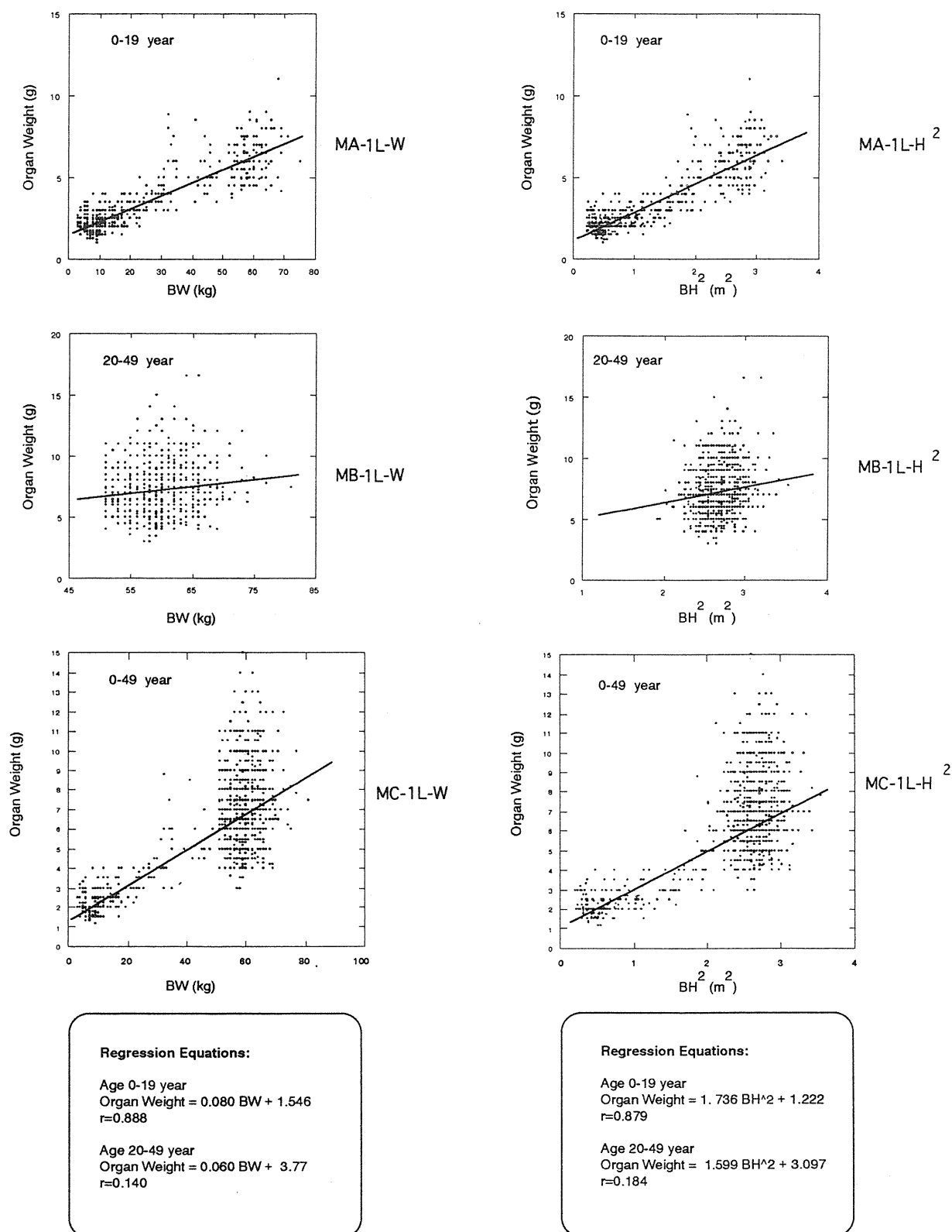
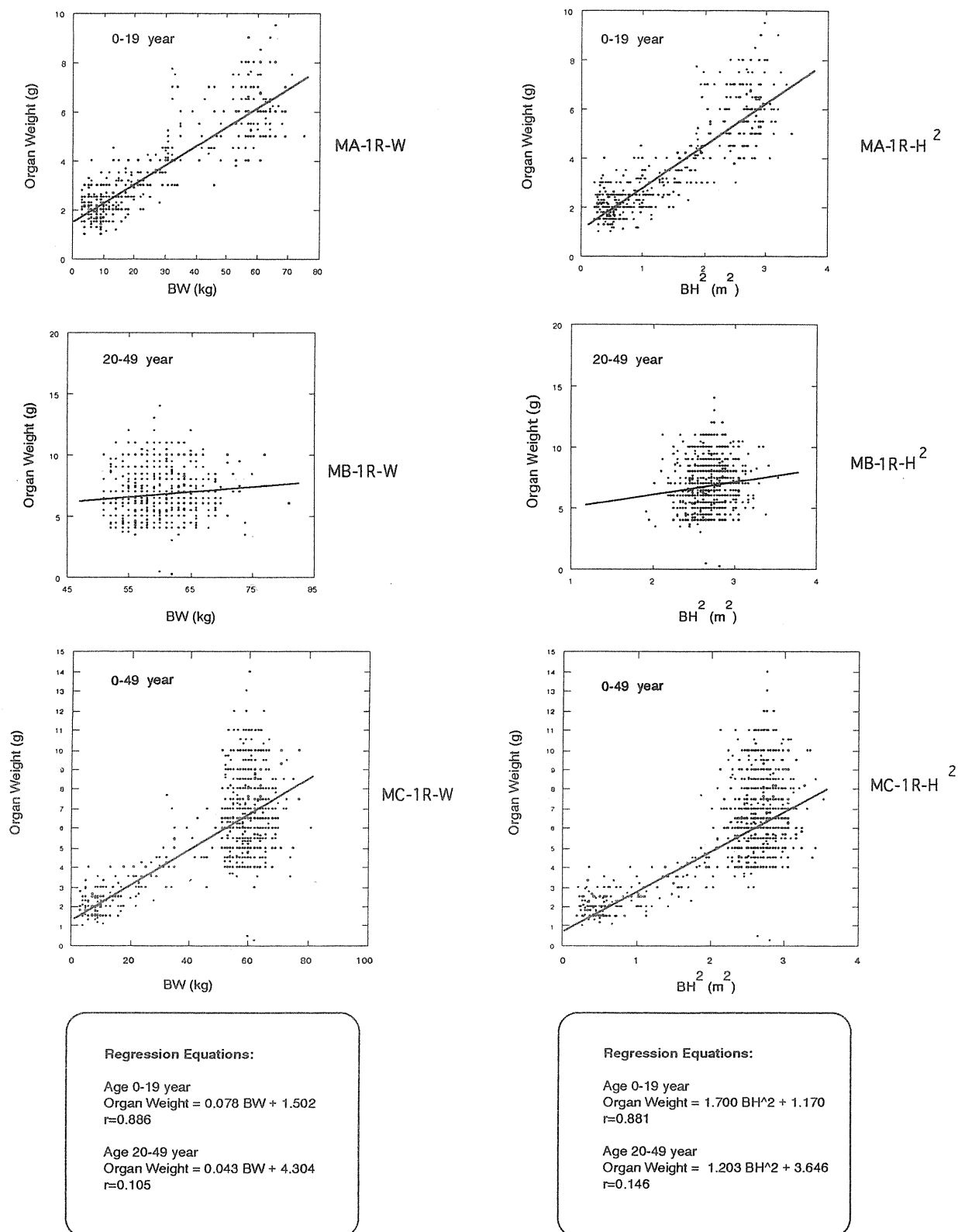
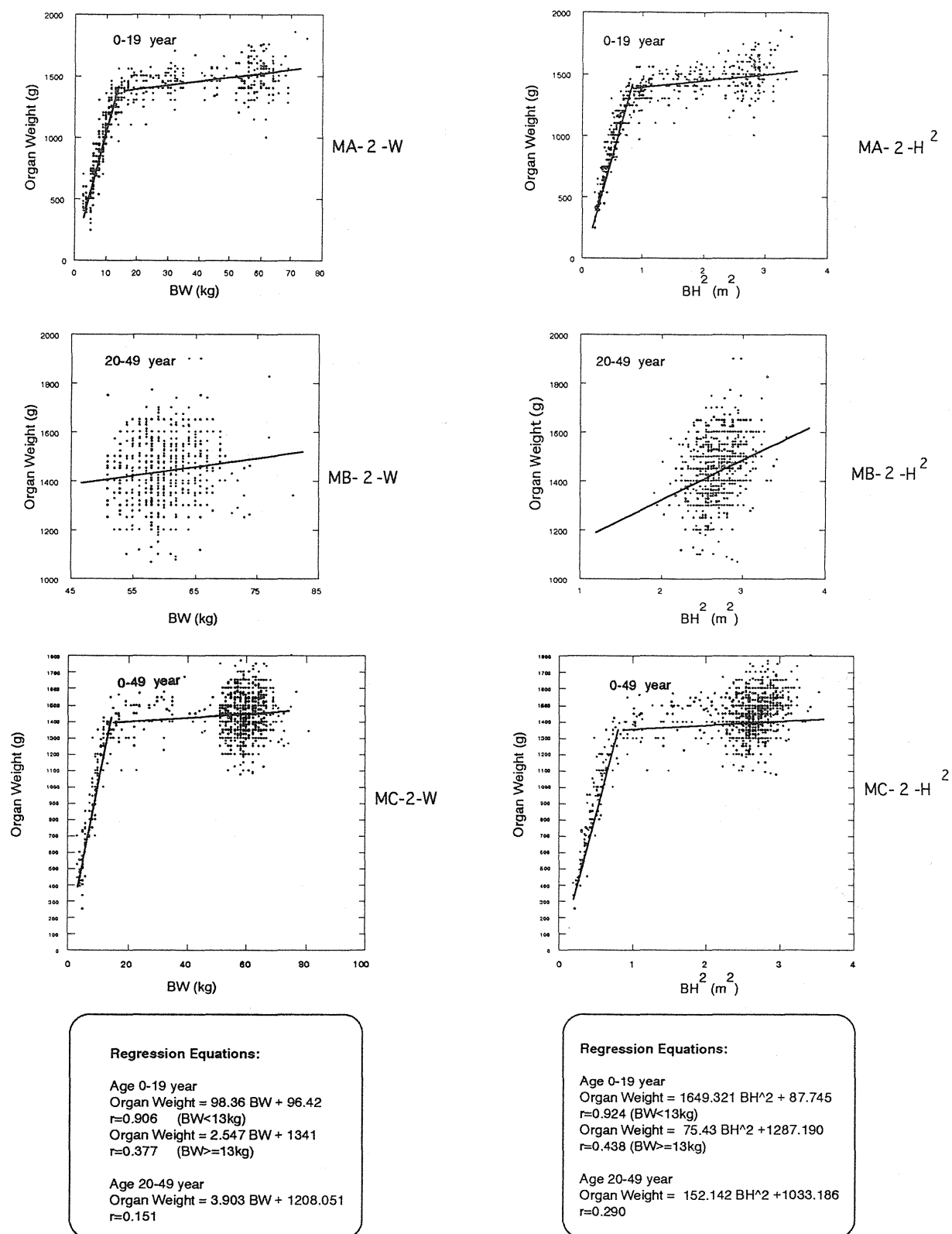
M-1LLeft Adrenal, Male

Fig. 7. Regression of mass of the adrenal, left to body height and weight in 0-19, 20-49 and 0-49 year males.

M- 1RRight Adrenal, Male

**Fig. 8.** Regression of mass of the adrenal, right to body height and weight in 0-19, 20-49 and 0-49 year males.

**M- 2      Brain, Male**



**Fig. 9. Regression of mass of the brain to body height and weight in 0-19, 20-49 and 0-49 year males.**

M-3

Heart, Male

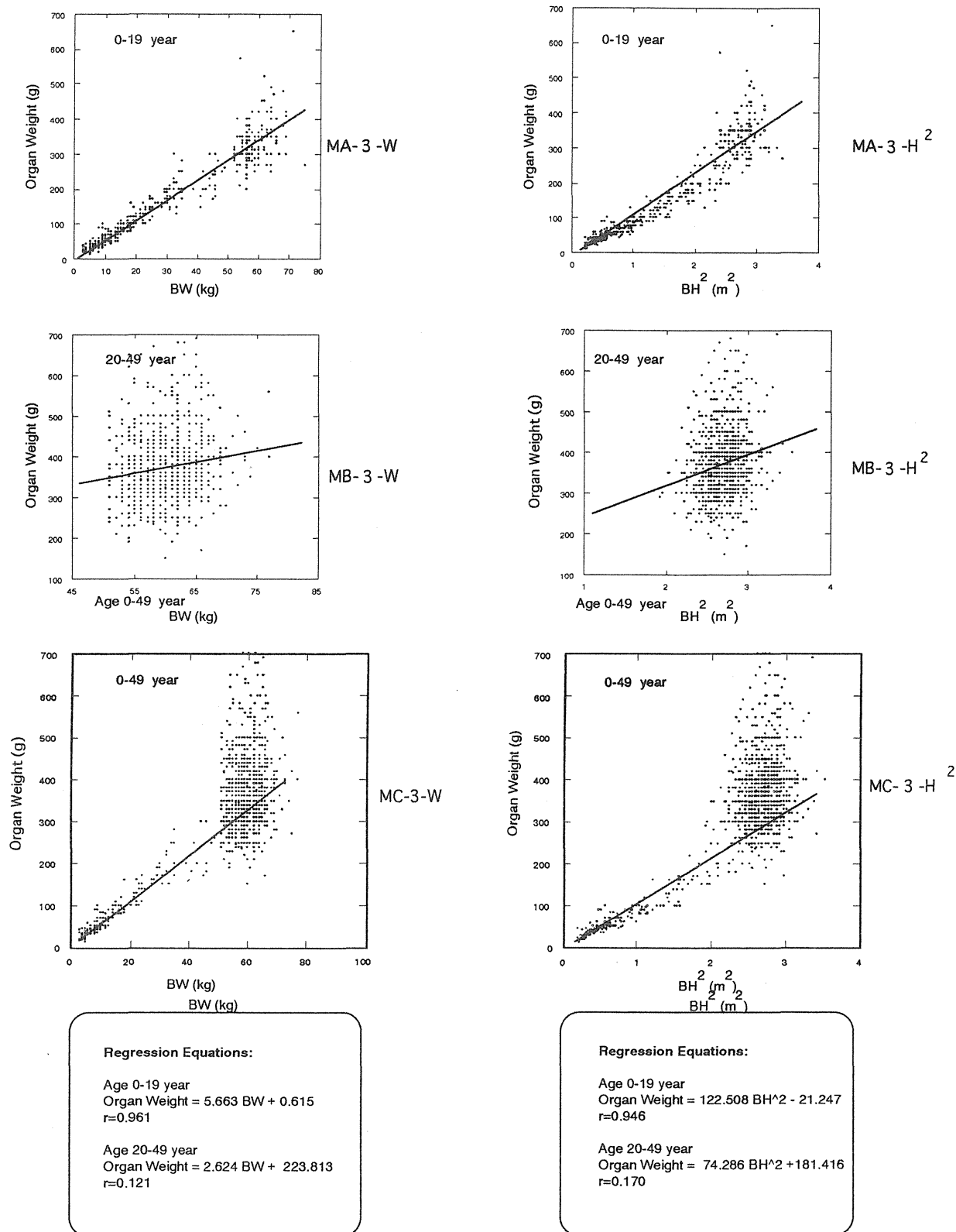


Fig. 10. Regression of mass of the heart to body height and weight in 0-19, 20-49 and 0-49 year males.

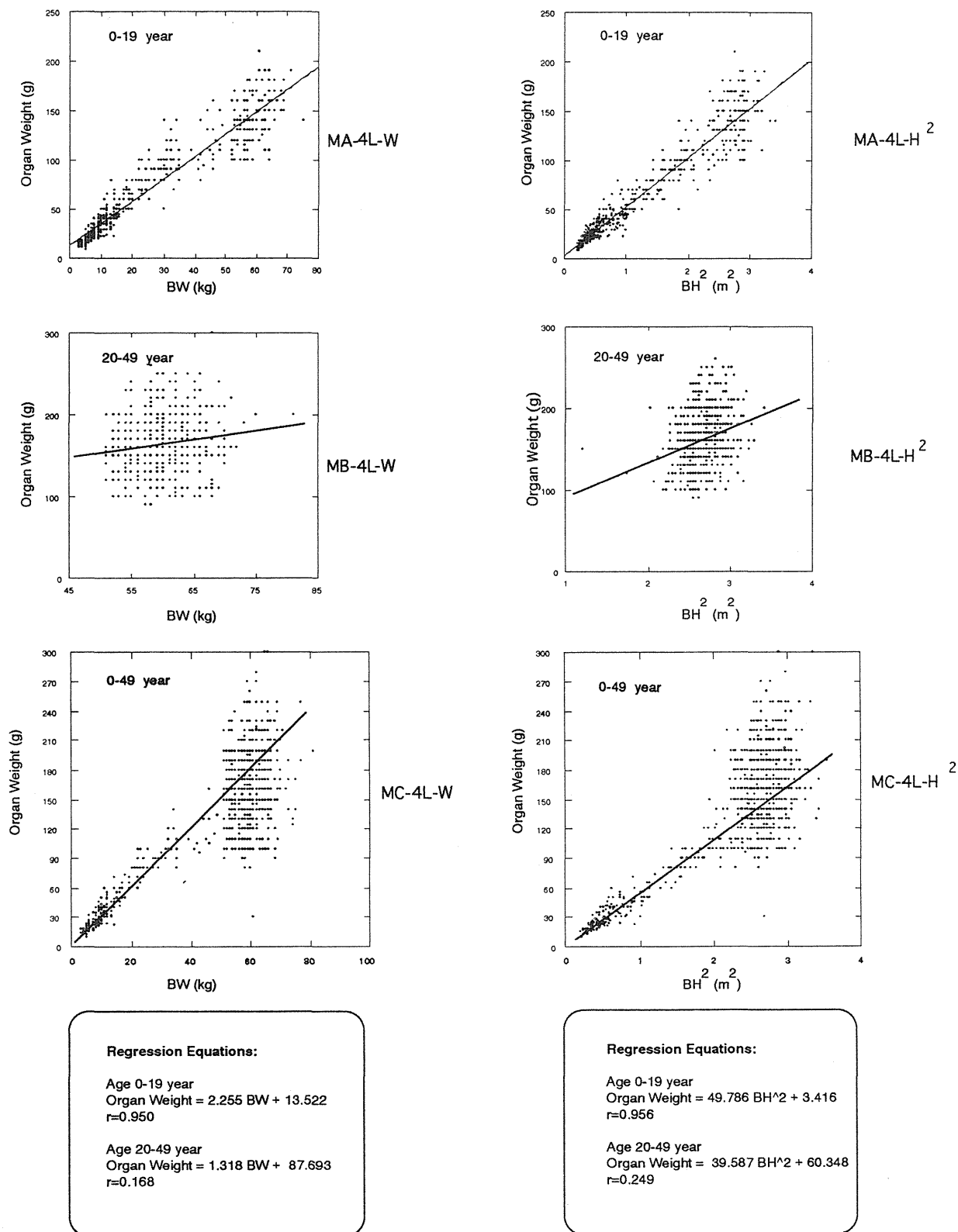
M-4LLeft Kidney, Male

Fig. 11. Regression of mass of the kidney, left to body height and weight in 0-19, 20-49 and 0-49 year males.

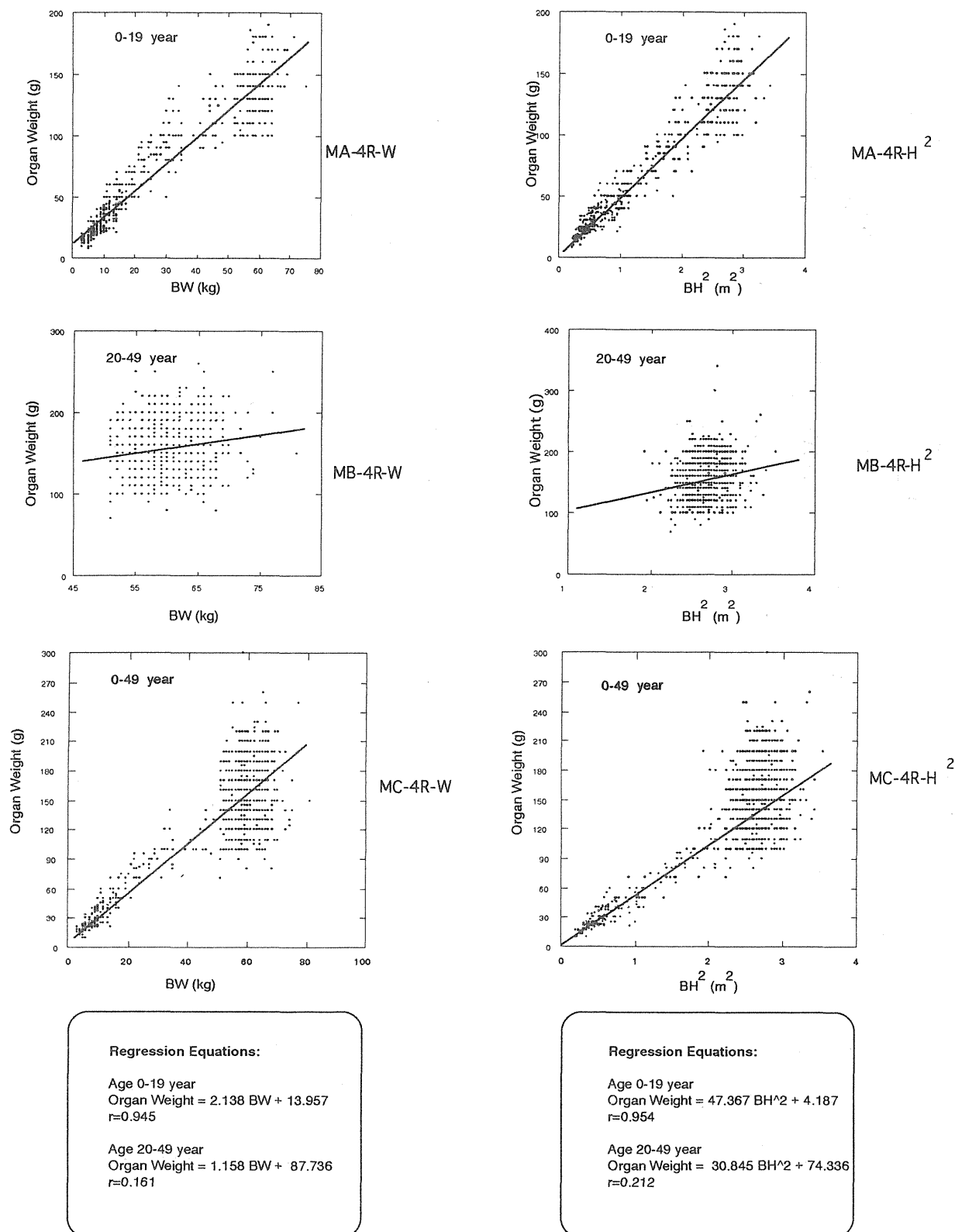
M-4RRight Kidney, Male

Fig. 12. Regression of mass of the kidney, right to body height and weight in 0-19, 20-49 and 0-49 year males.

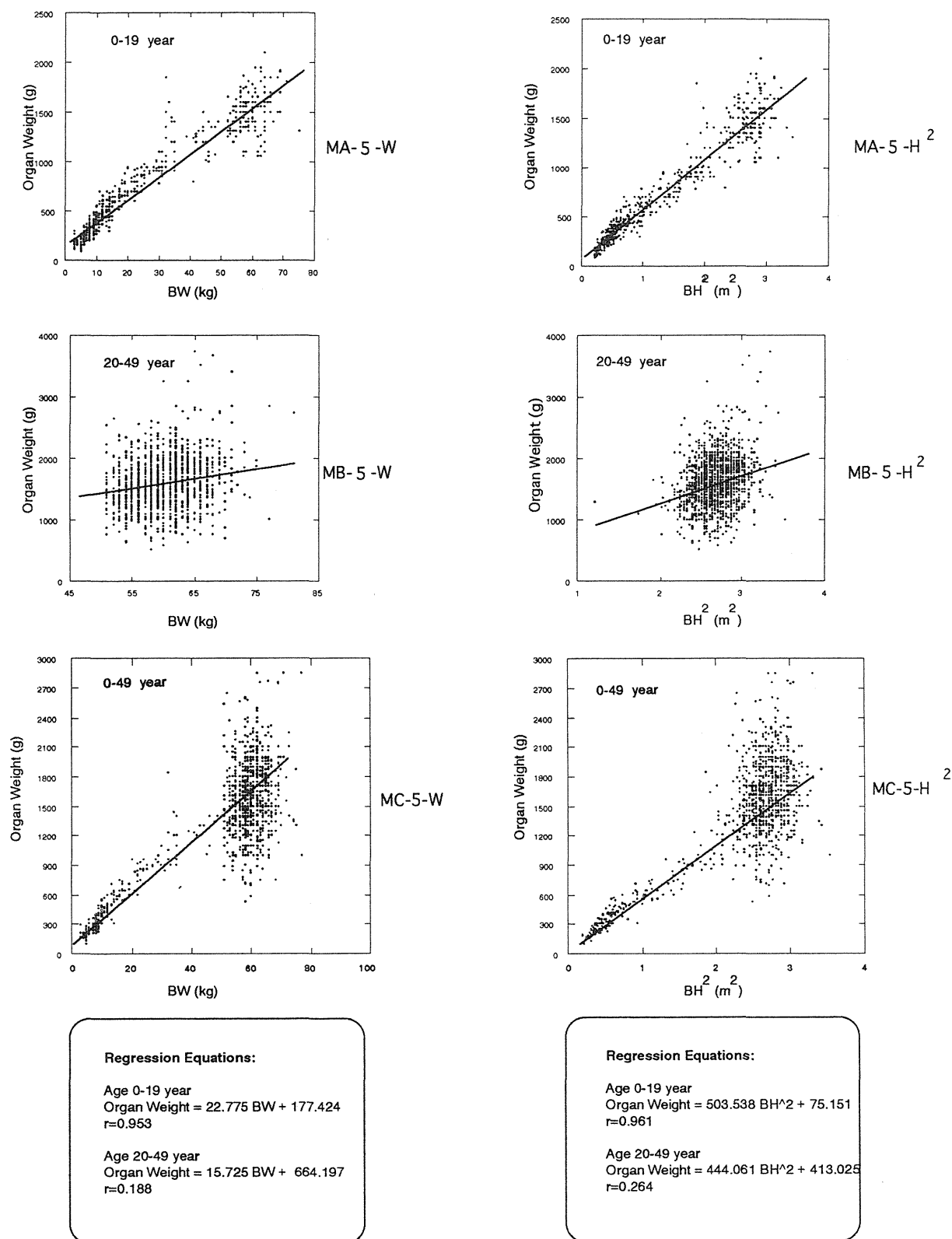
M-5Liver, Male

Fig. 13. Regression of mass of the liver to body height and weight in 0-19, 20-49 and 0-49 year males.



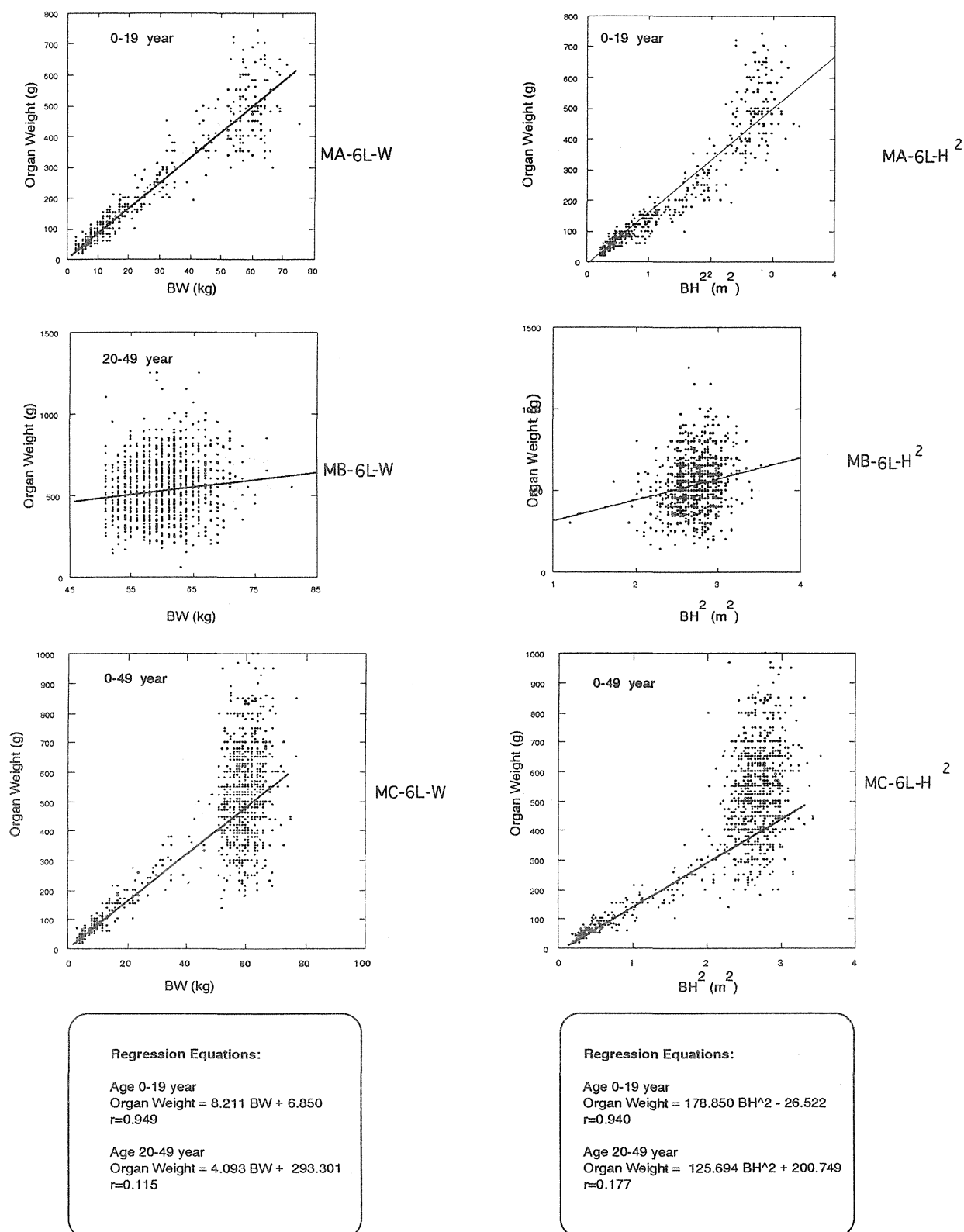
M-6LLeft Lung, Male

Fig. 14. Regression of mass of the lung, left to body height and weight in 0-19, 20-49 and 0-49 year males.

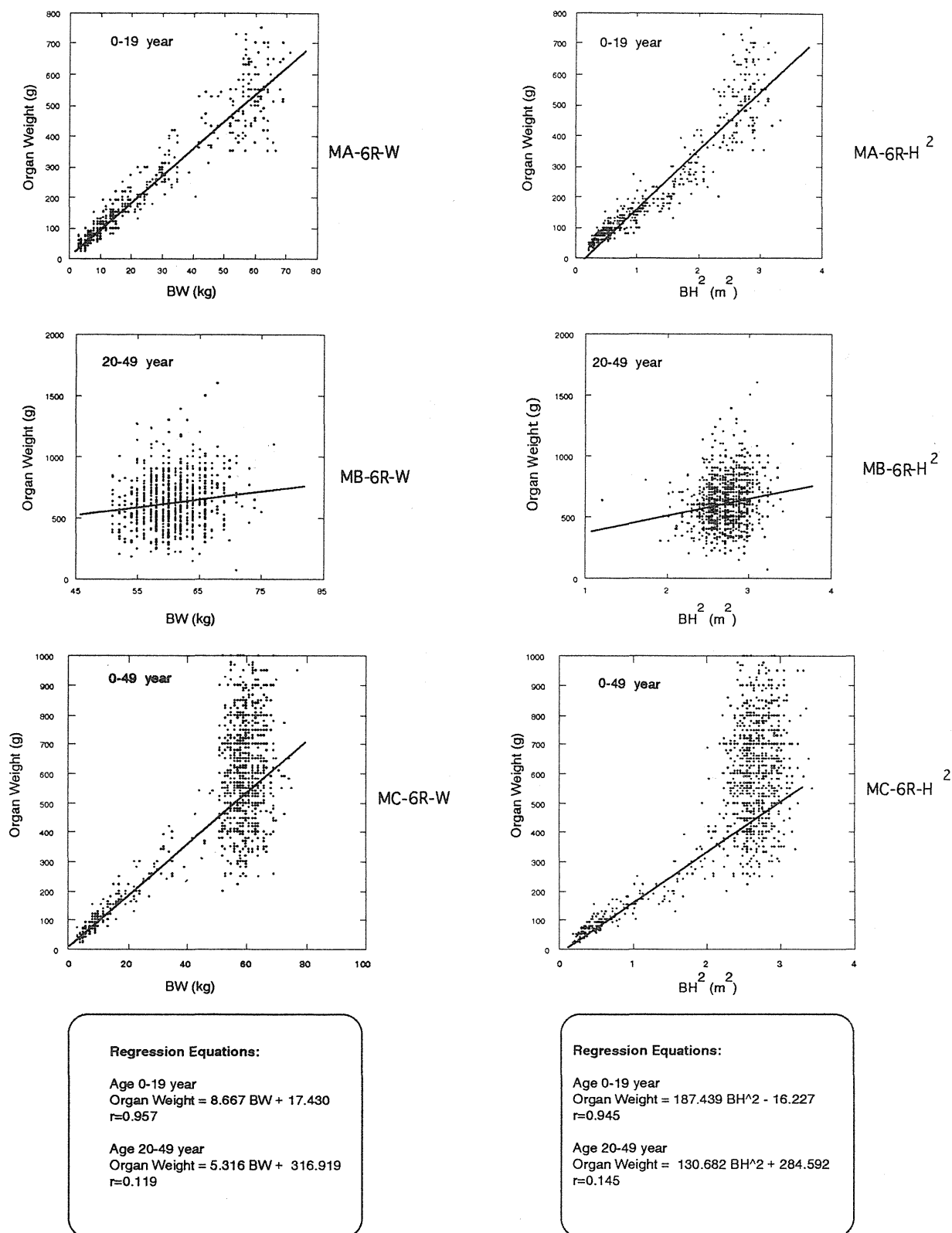
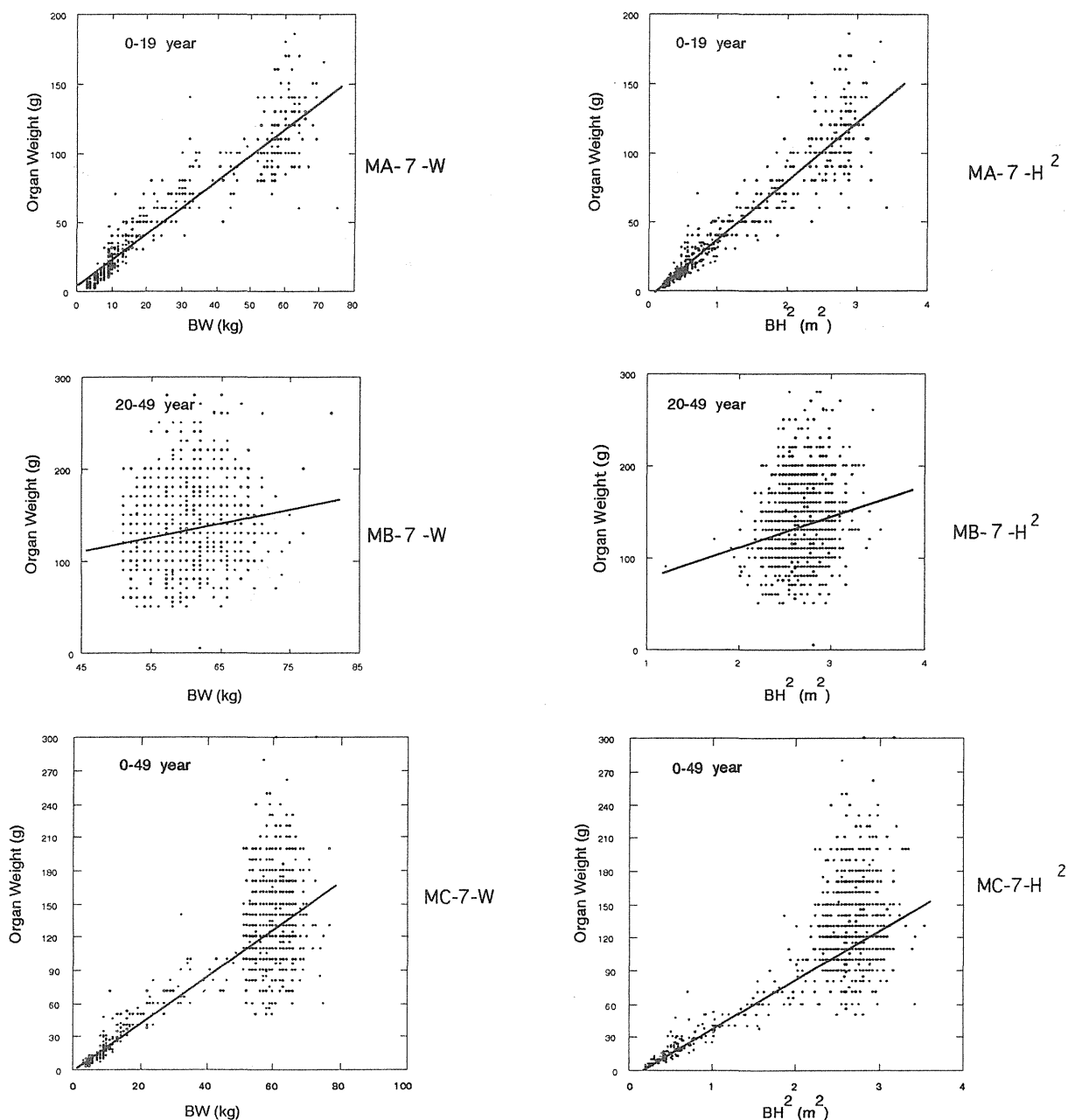
M-6RRight Lung, Male

Fig. 15. Regression of mass of the lung, right to body height and weight in 0-19, 20-49 and 0-49 year males.

M-7Pancreas, Male**Regression Equations:**

Age 0-19 year  
 Organ Weight =  $1.893 \text{ BW} + 4.328$   
 $r=0.937$

Age 20-49 year  
 Organ Weight =  $1.670 \text{ BW} + 39.808$   
 $r=0.136$

**Regression Equations:**

Age 0-19 year  
 Organ Weight =  $7.000 \text{ BH}^2 - 4.233$   
 $r=0.941$

Age 20-49 year  
 Organ Weight =  $34.267 \text{ BH}^2 + 44.868$   
 $r=0.139$

**Fig. 16. Regression of mass of the pancreas to body height and weight in 0-19, 20-49 and 0-49 year males.**

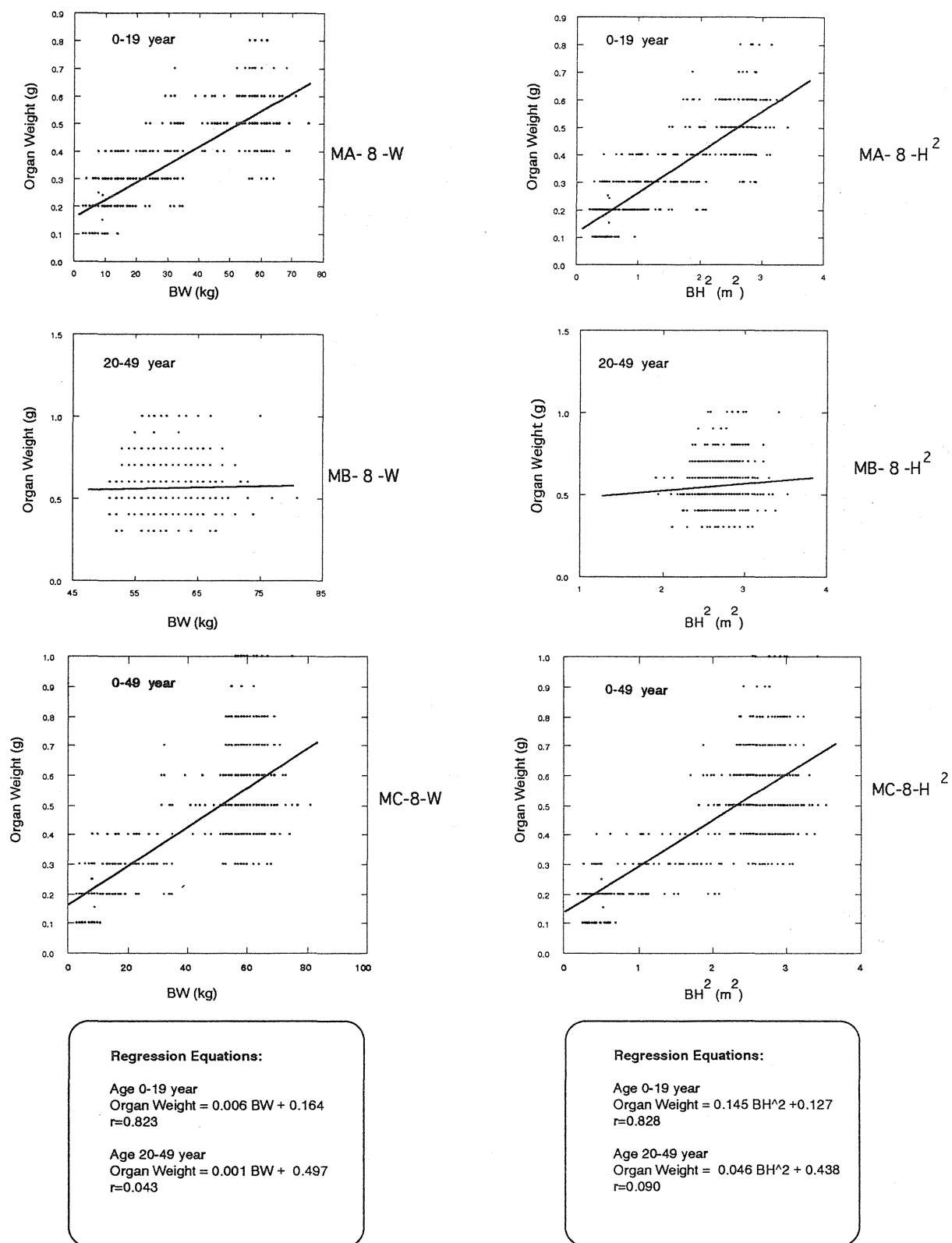
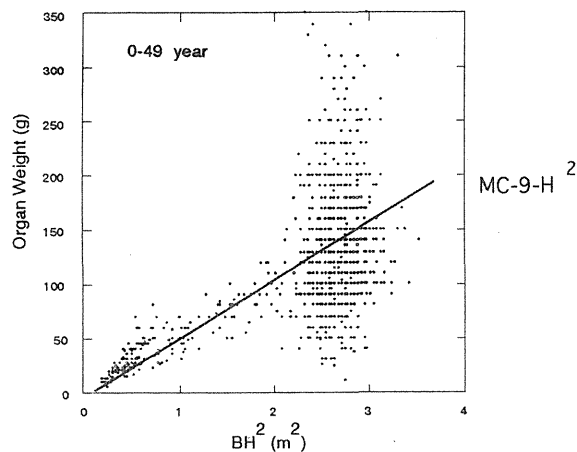
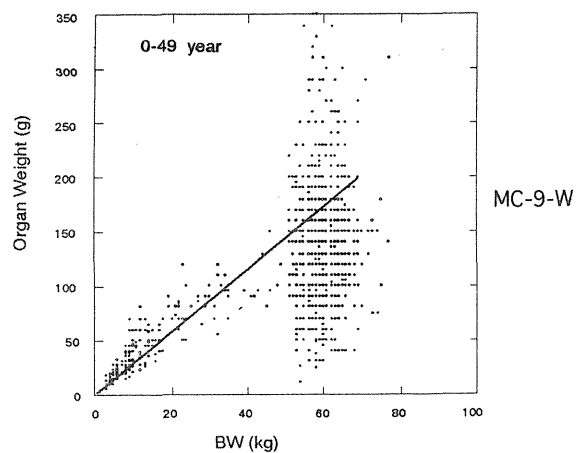
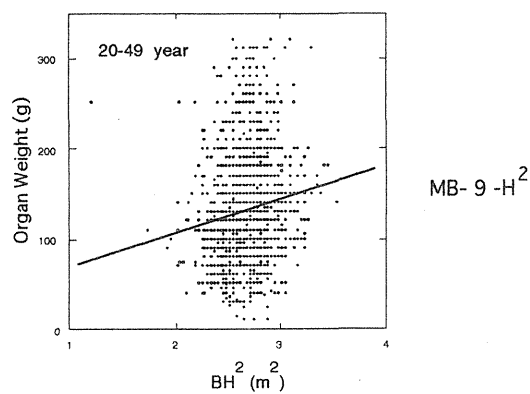
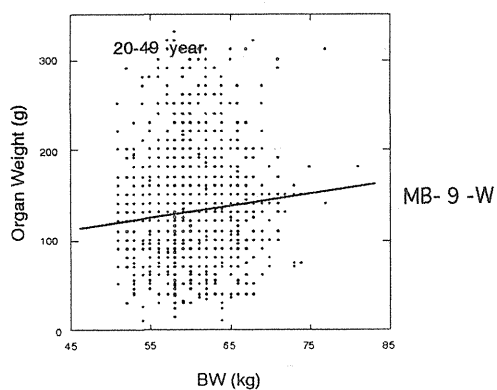
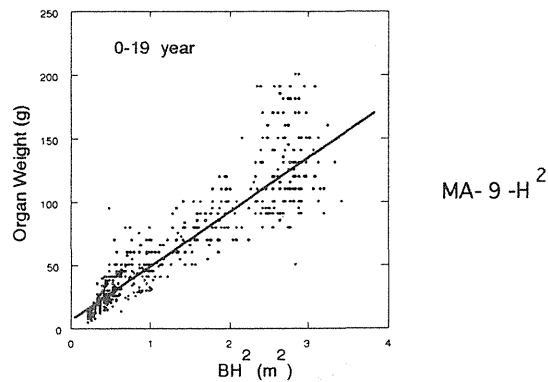
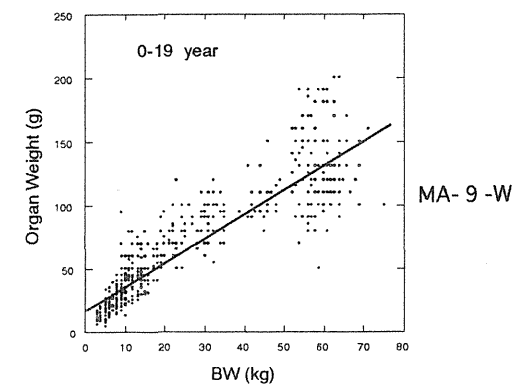
M- 8Pituitary, Male

Fig. 17. Regression of mass of the pituitary to body height and weight in 0-19, 20-49 and 0-49 year males.

FM- 9

Spleen, Male



## Regression Equations:

Age 0-19 year  
 Organ Weight =  $1.894 \text{ BW} + 18.613$   
 $r=0.889$

Age 20-49 year  
 Organ Weight =  $1.674\text{BW} + 36.488$   
 $r=0.114$

## Regression Equations:

Age 0-19 year  
 Organ Weight =  $42.150 \text{ BH}^2 + 9.539$   
 $r=0.897$

Age 20-49 year  
 Organ Weight =  $38.329 \text{ BH}^2 + 33.931$   
 $r=0.130$

Fig. 18. Regression of mass of the spleen to body height and weight in 0-19, 20-49 and 0-49 year males.

Fig. M-10L

## Left Testis, Male

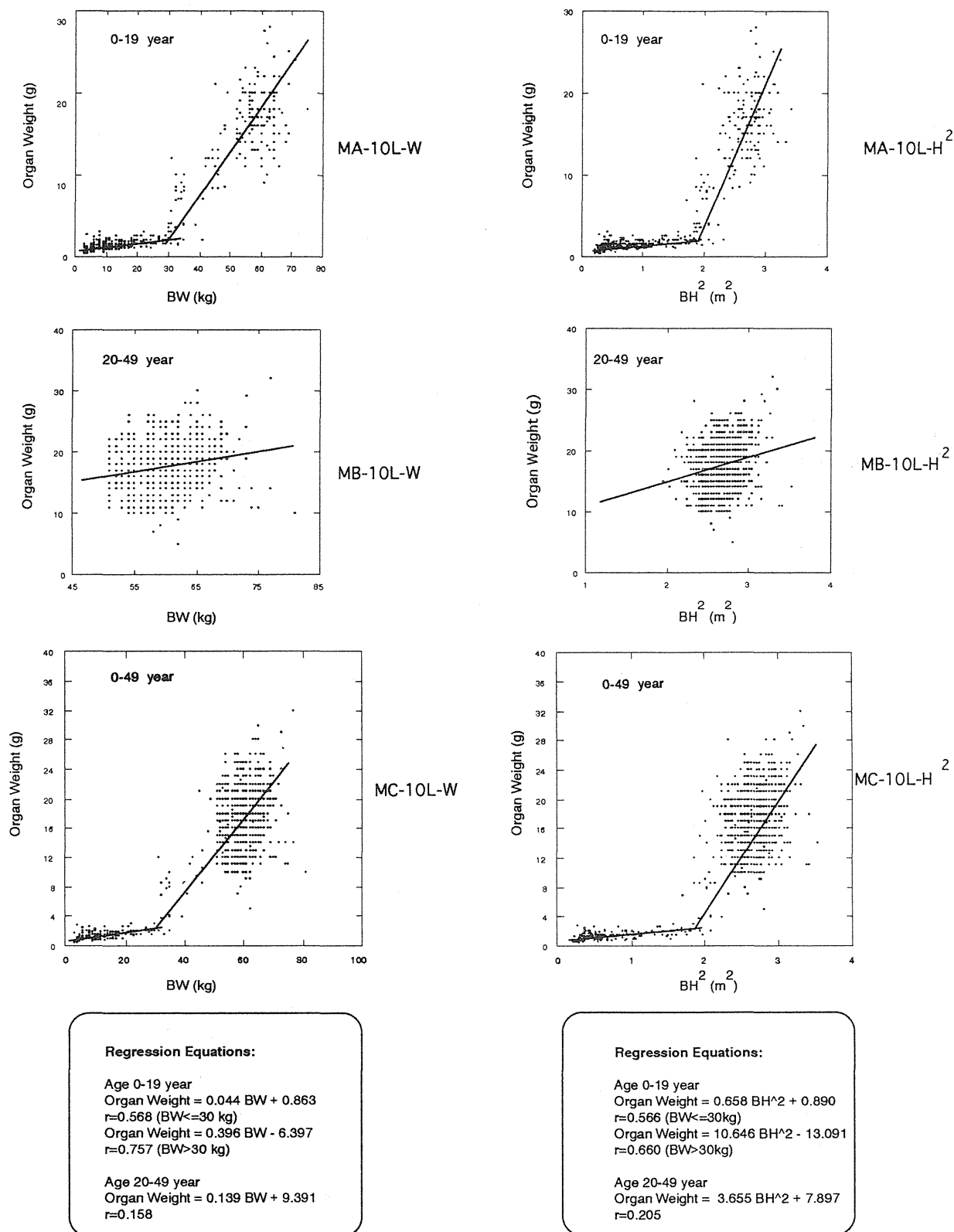


Fig. 19. Regression of mass of the testis, left to body height and weight in 0-19, 20-49 and 0-49 year males.

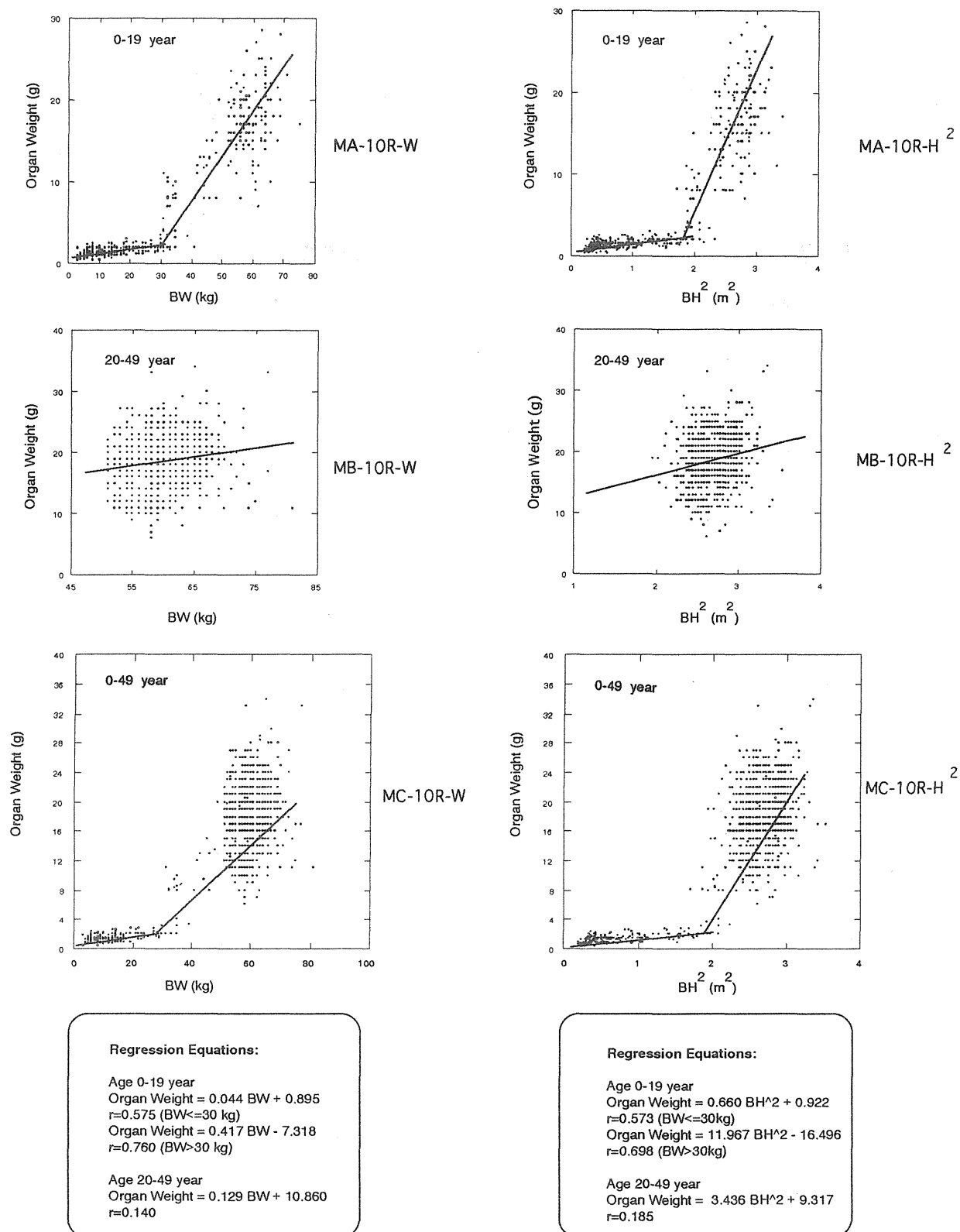
M-10RRight Testis, Male

Fig. 20. Regression of mass of the testis, right to body height and weight in 0-19, 20-49 and 0-49 year males.

M- 11

Thymus, Male

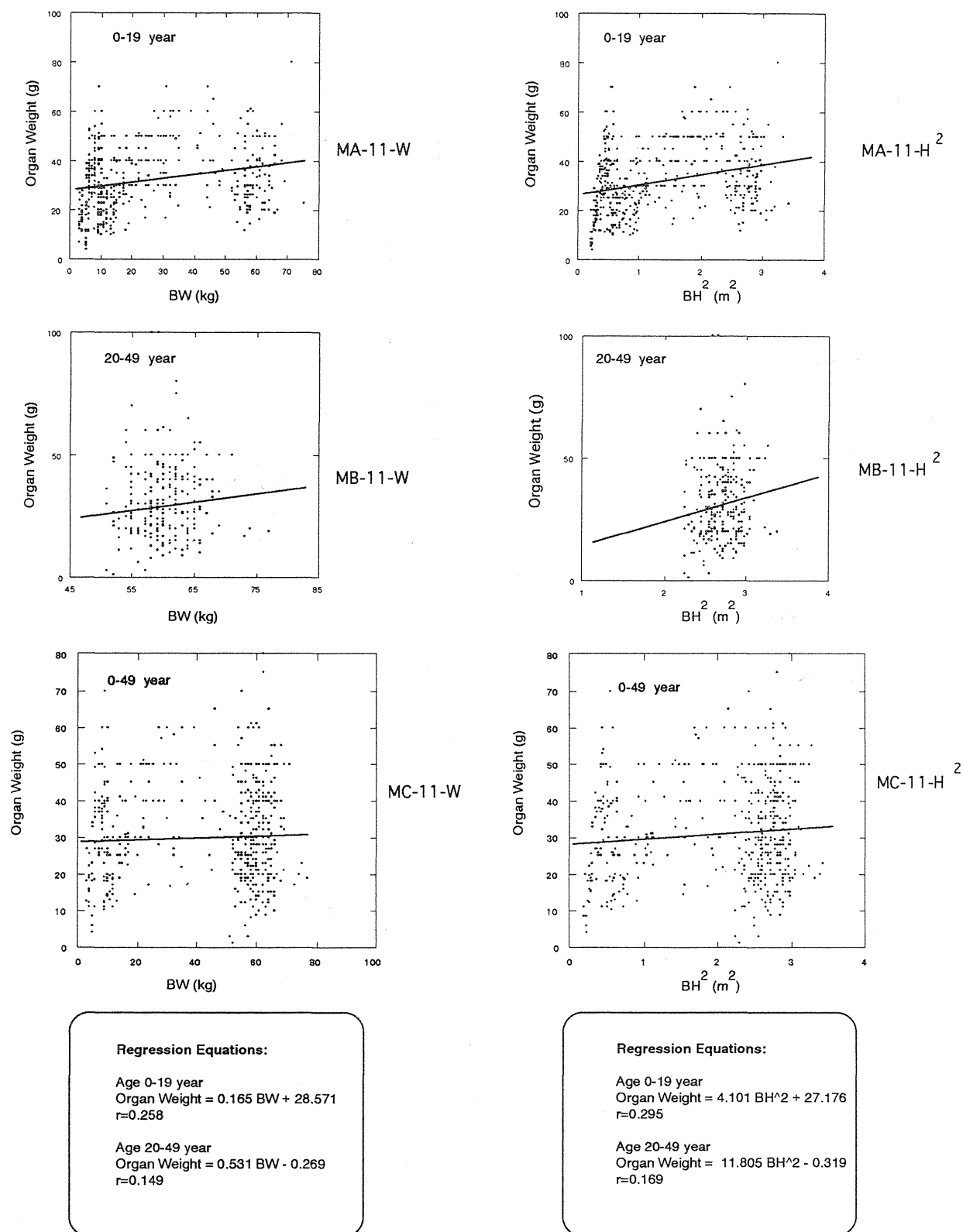
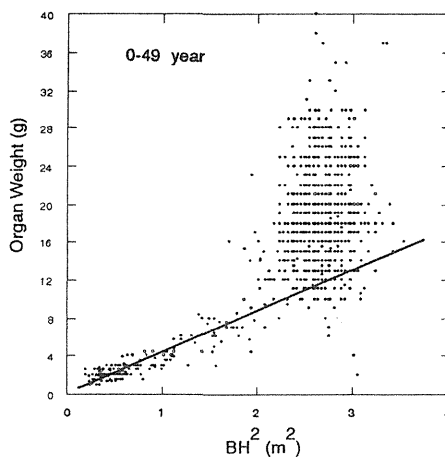
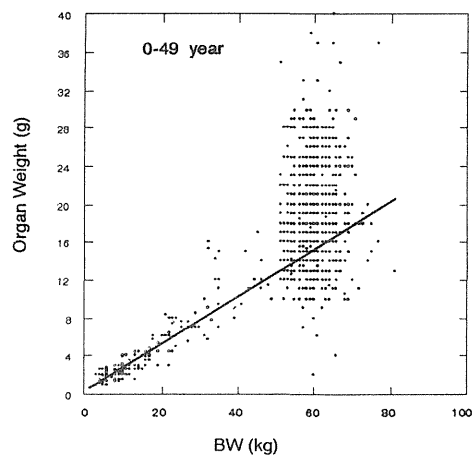
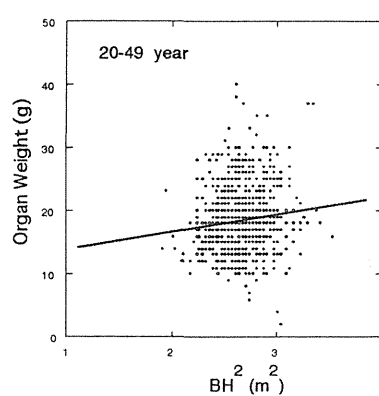
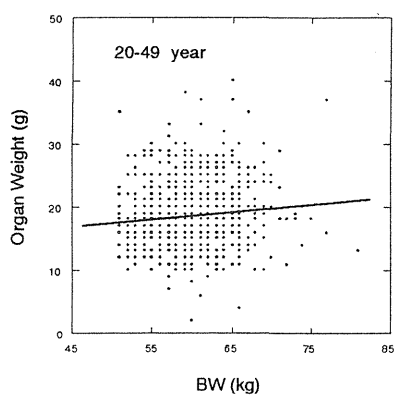
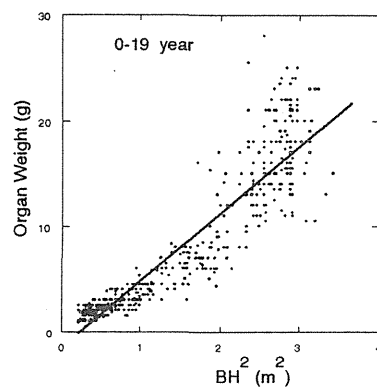
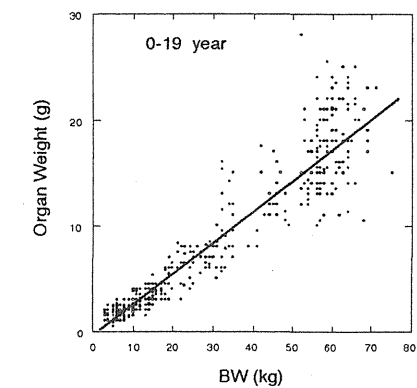


Fig. 21. Regression of mass of the thymus to body height and weight in 0-19, 20-49 and 0-49 year males.



M-12

Thyroid, Male



## Regression Equations:

Age 0-19 year  
Organ Weight =  $0.295 \text{ BW} - 0.377$   
 $r=0.947$

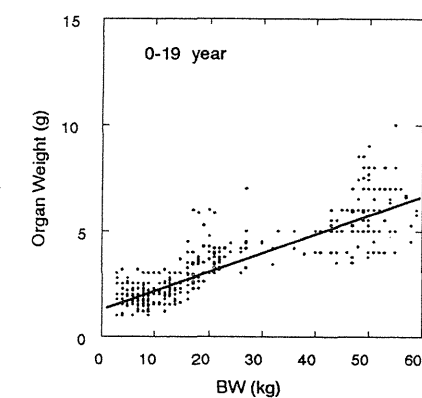
Age 20-49 year  
Organ Weight =  $0.106 \text{ BW} + 12.510$   
 $r=0.092$

## Regression Equations:

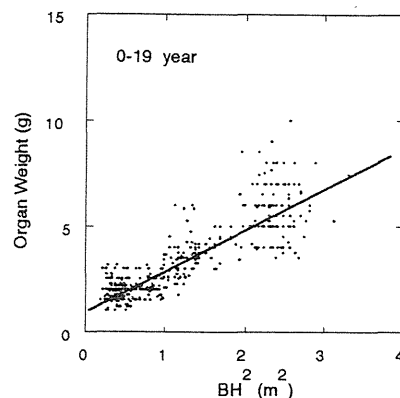
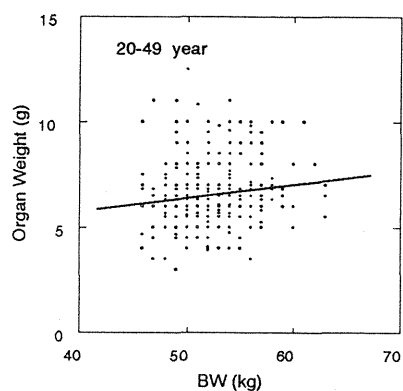
Age 0-19 year  
Organ Weight =  $6.318 \text{ BH}^2 - 1.443$   
 $r=0.924$

Age 20-49 year  
Organ Weight =  $3.137 \text{ BH}^2 + 10.431$   
 $r=0.135$

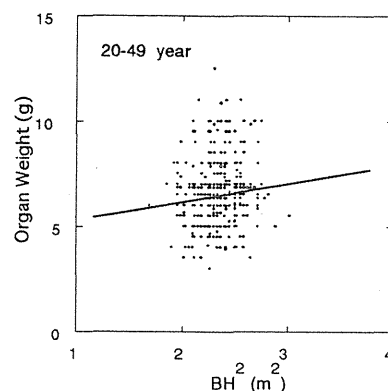
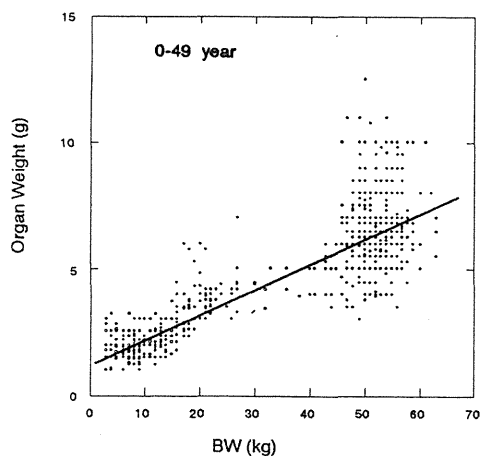
Fig. 22. Regression of mass of the thyroid to body height and weight in 0-19, 20-49 and 0-49 year males.

F-1LLeft Adrenal, Female

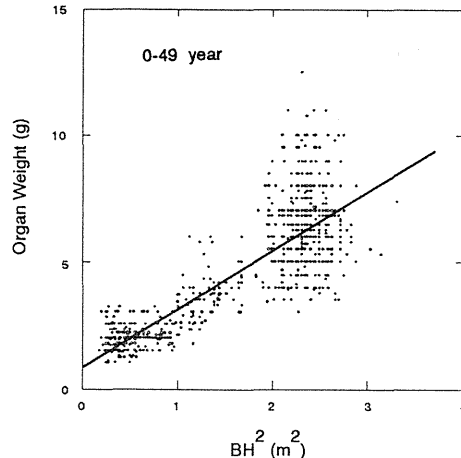
FA-1L-W

FA-1L-H<sup>2</sup>

FB-1L-W

FB-1L-H<sup>2</sup>

FC-1L-W

FC-1L-H<sup>2</sup>**Regression Equations:**

Age 0-19 year  
Organ Weight = 0.091 BW + 1.372  
r=0.889

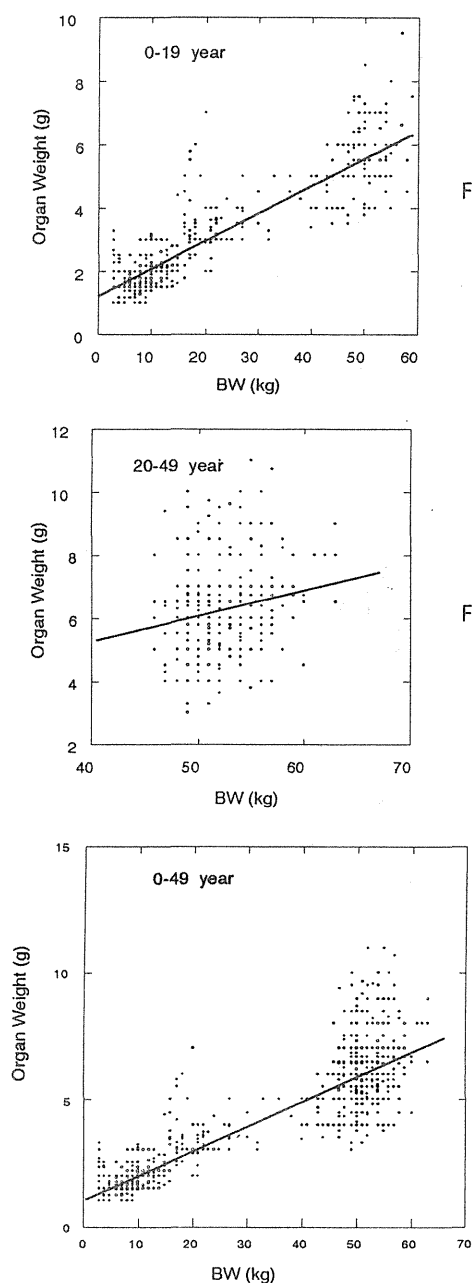
Age 20-49 year  
Organ Weight = 0.061 BW + 3.419  
r=0.131

**Regression Equations:**

Age 0-19 year  
Organ Weight = 1.928 BH<sup>2</sup> + 1.060  
r=0.878

Age 20-49 year  
Organ Weight = 0.833 BH<sup>2</sup> + 4.624  
r=0.109

Fig. 23. Regression of mass of the adrenal, left to body height and weight in 0-19, 20-49 and 0-49 year females.

**F-1R****Right Adrenal, Female**

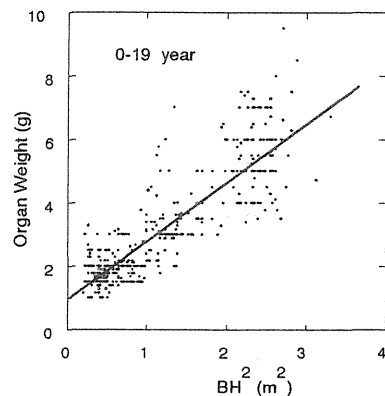
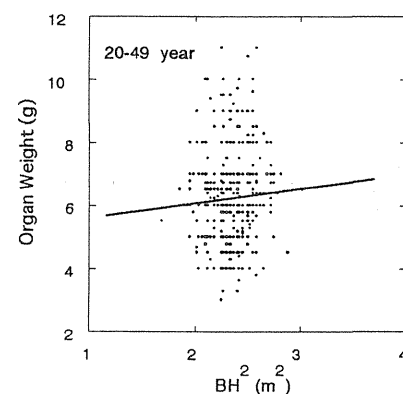
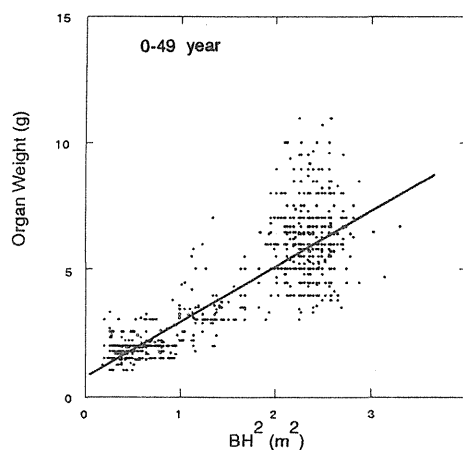
FA-1R-W

FB-1R-W

FC-1R-W

**Regression Equations:**

Age 0-19 year  
 Organ Weight =  $0.087 \text{ BW} + 1.266$   
 $r=0.897$   
 Age 20-49 year  
 Organ Weight =  $0.082 \text{ BW} + 1.984$   
 $r=0.190$

FA-1R-H<sup>2</sup>FB-1R-H<sup>2</sup>FC-1R-H<sup>2</sup>**Regression Equations:**

Age 0-19 year  
 Organ Weight =  $1.859 \text{ BH}^2 + 0.968$   
 $r=0.883$   
 Age 20-49 year  
 Organ Weight =  $0.457 \text{ BH}^2 + 5.198$   
 $r=0.064$

**Fig. 24. Regression of mass of the adrenal, right to body height and weight in 0-19, 20-49 and 0-49 year females.**

## F-2

## Brain, Female

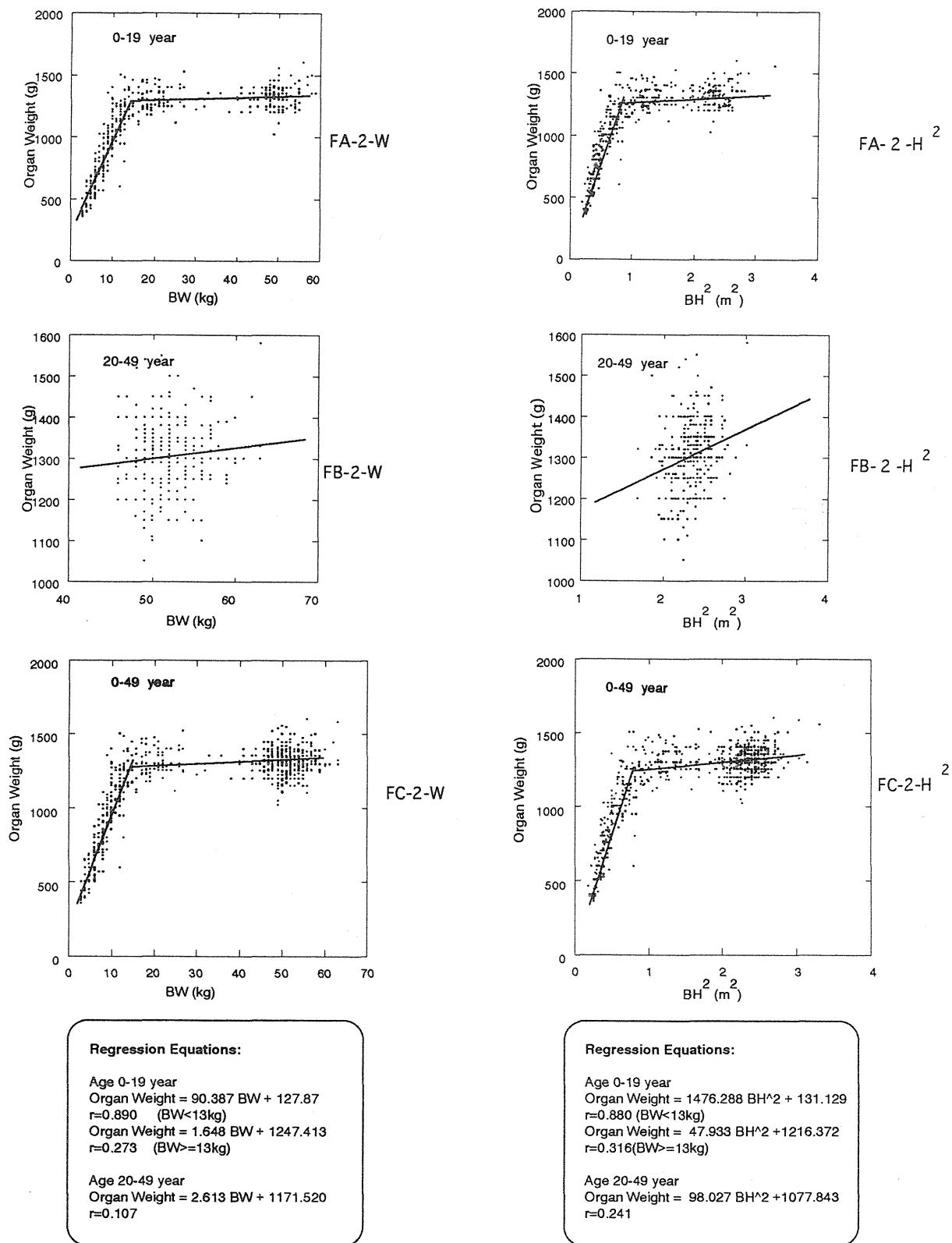


Fig. 25. Regression of mass of the brain to body height and weight in 0-19, 20-49 and 0-49 year females.

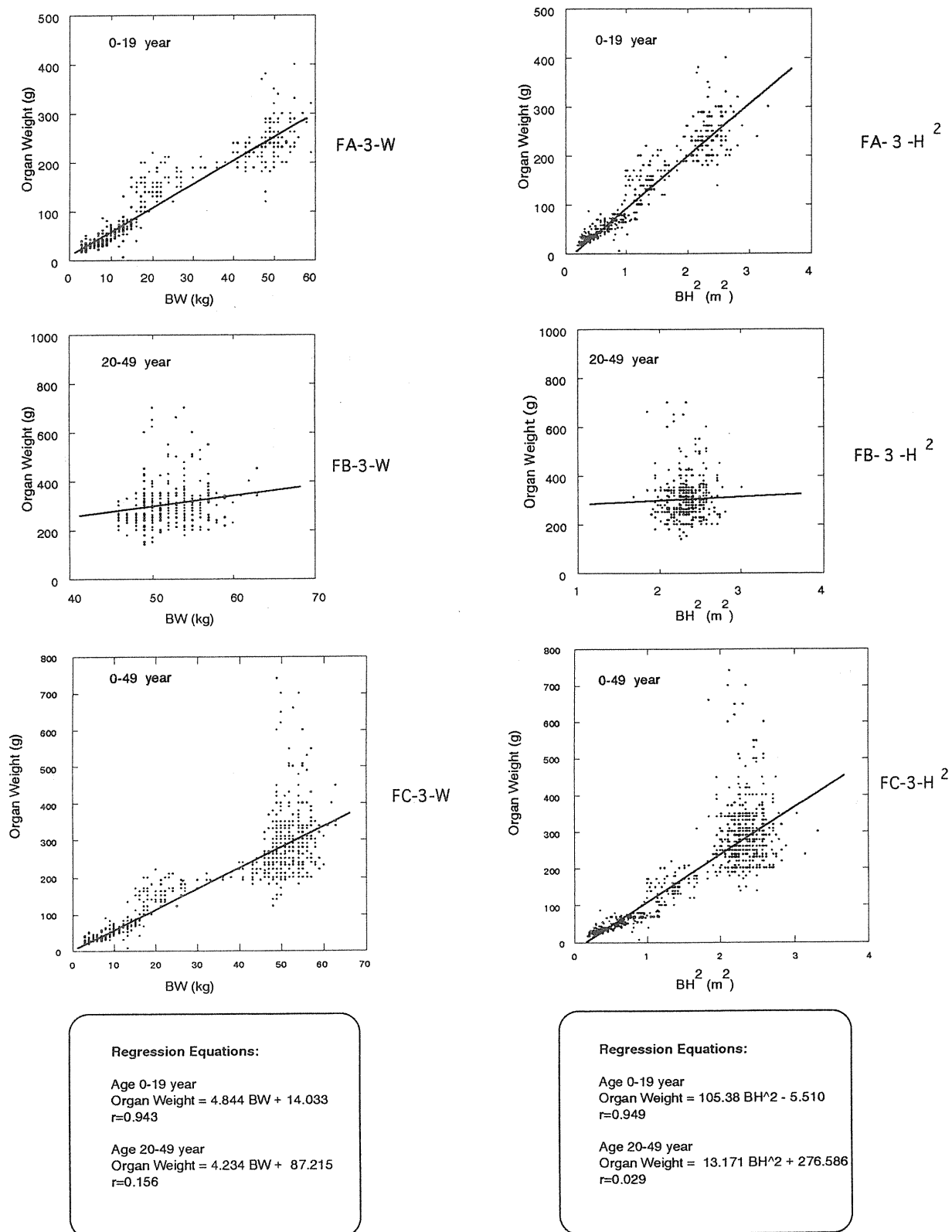
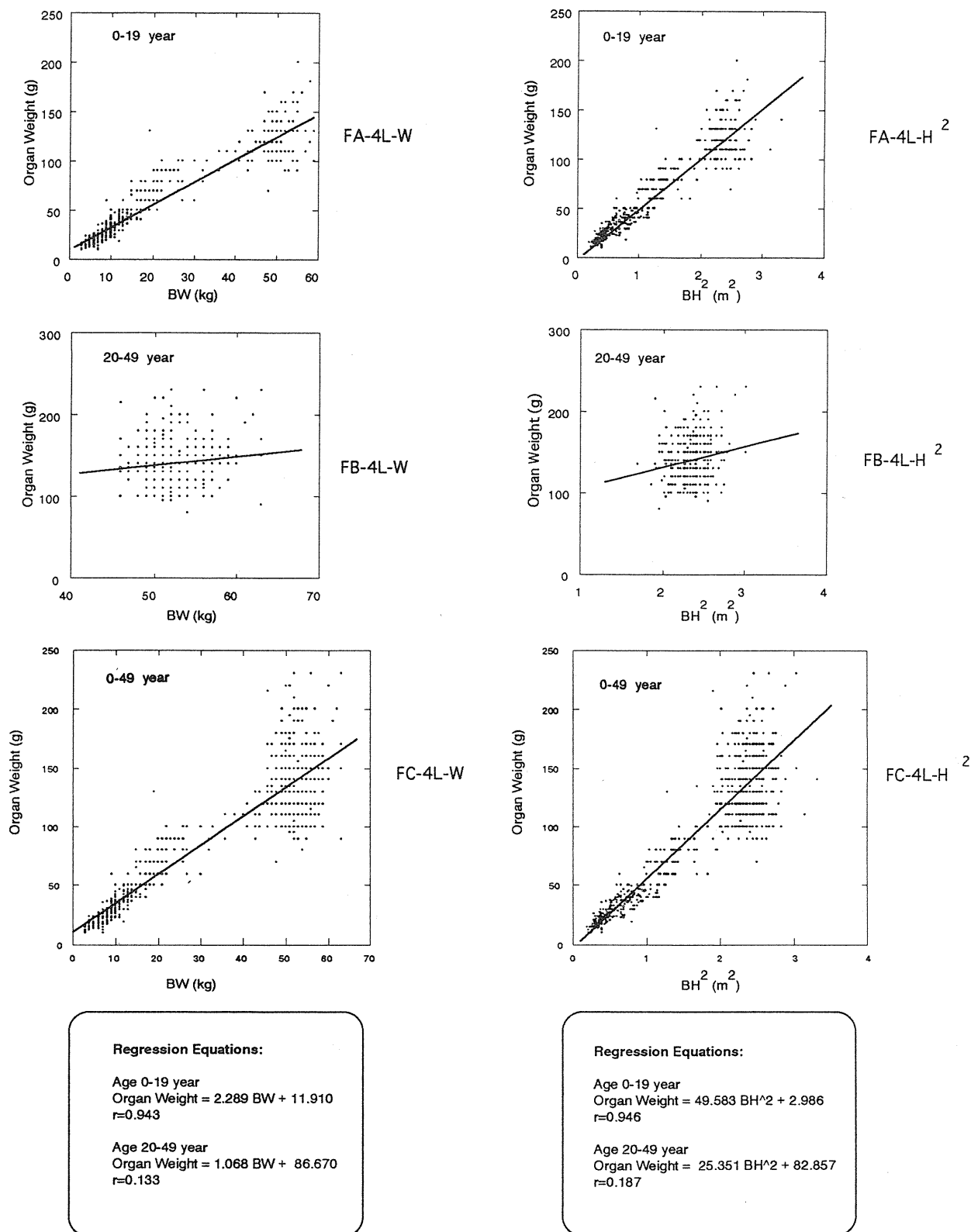
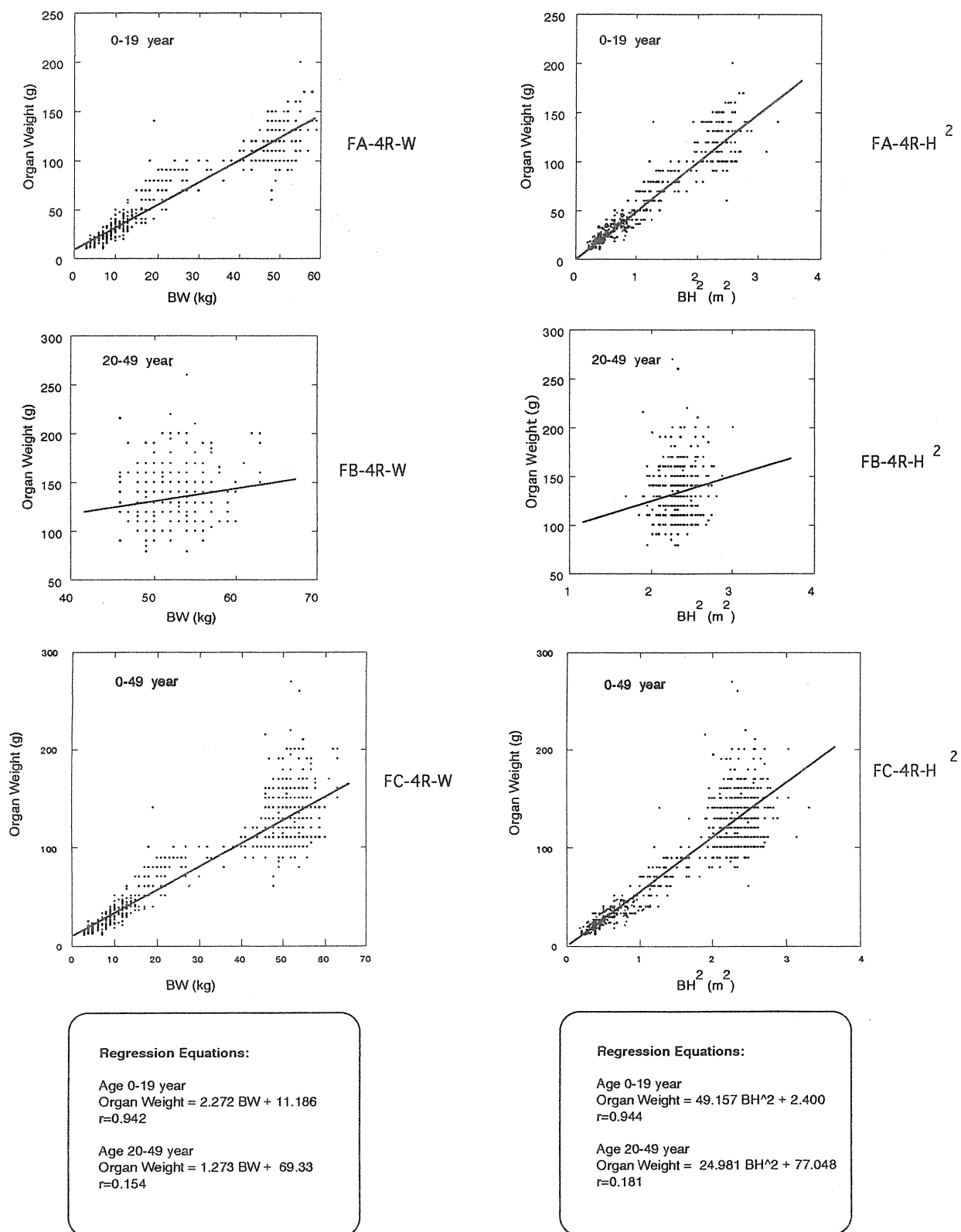
F-3Heart, Female

Fig. 26. Regression of mass of the heart to body height and weight in 0-19, 20-49 and 0-49 year females.

**F-4L****Left Kidney, Female**

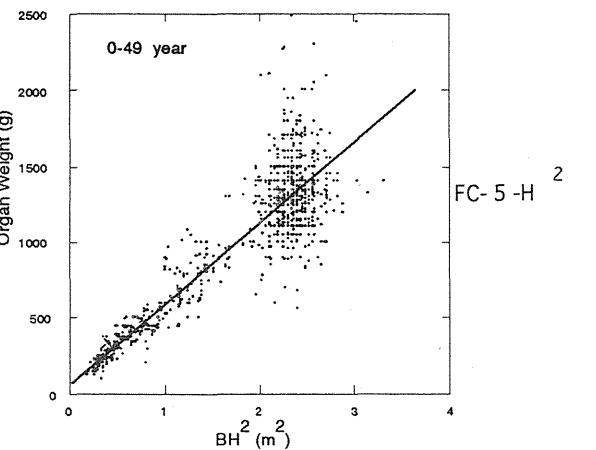
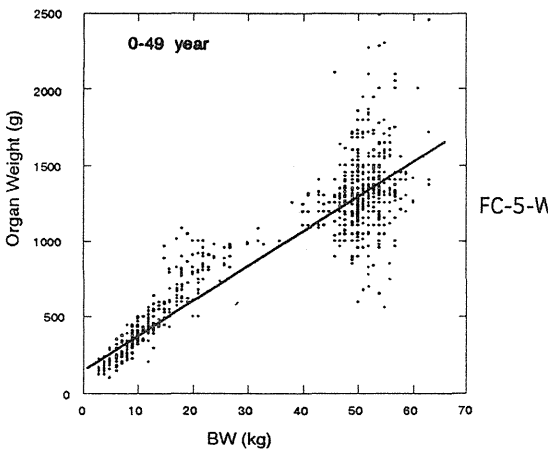
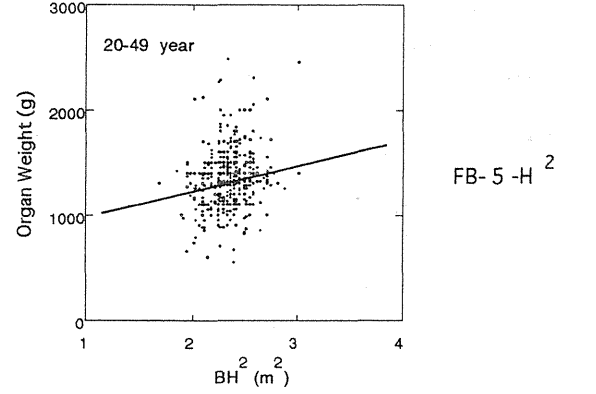
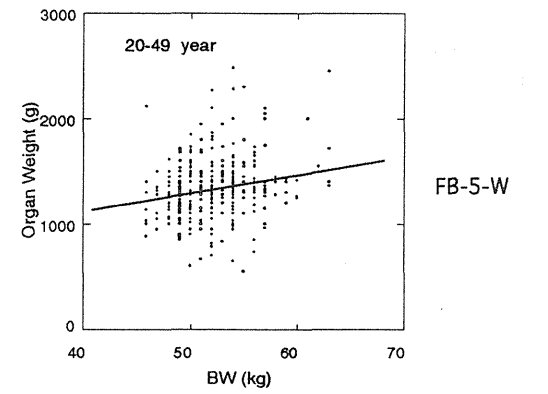
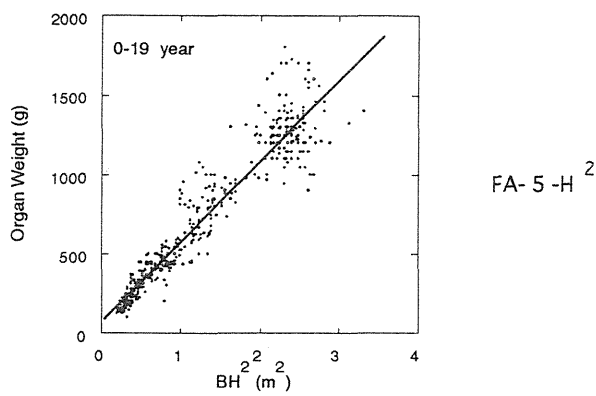
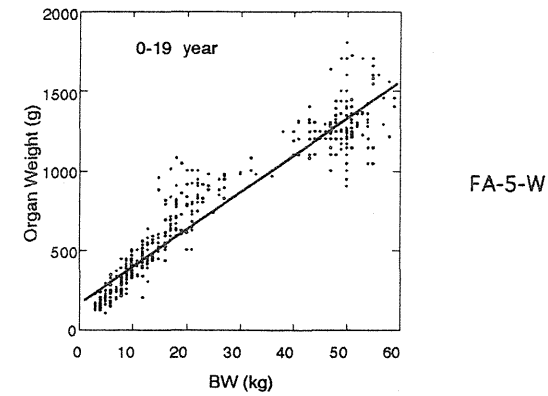
**Fig. 27. Regression of mass of the kidney, left to body height and weight in 0-19, 20-49 and 0-49 year males.**

**F-4R****Right Kidney, Female**

**Fig. 28. Regression of mass of the kidney, right to body height and weight in 0-19, 20-49 and 0-49 year males.**

F-5

Liver, Female



**Regression Equations:**

Age 0-19 year  
Organ Weight =  $23.406 BW + 164.122$   
 $r=0.954$

Age 20-49 year  
Organ Weight =  $17.086 BW + 452.969$   
 $r=0.201$

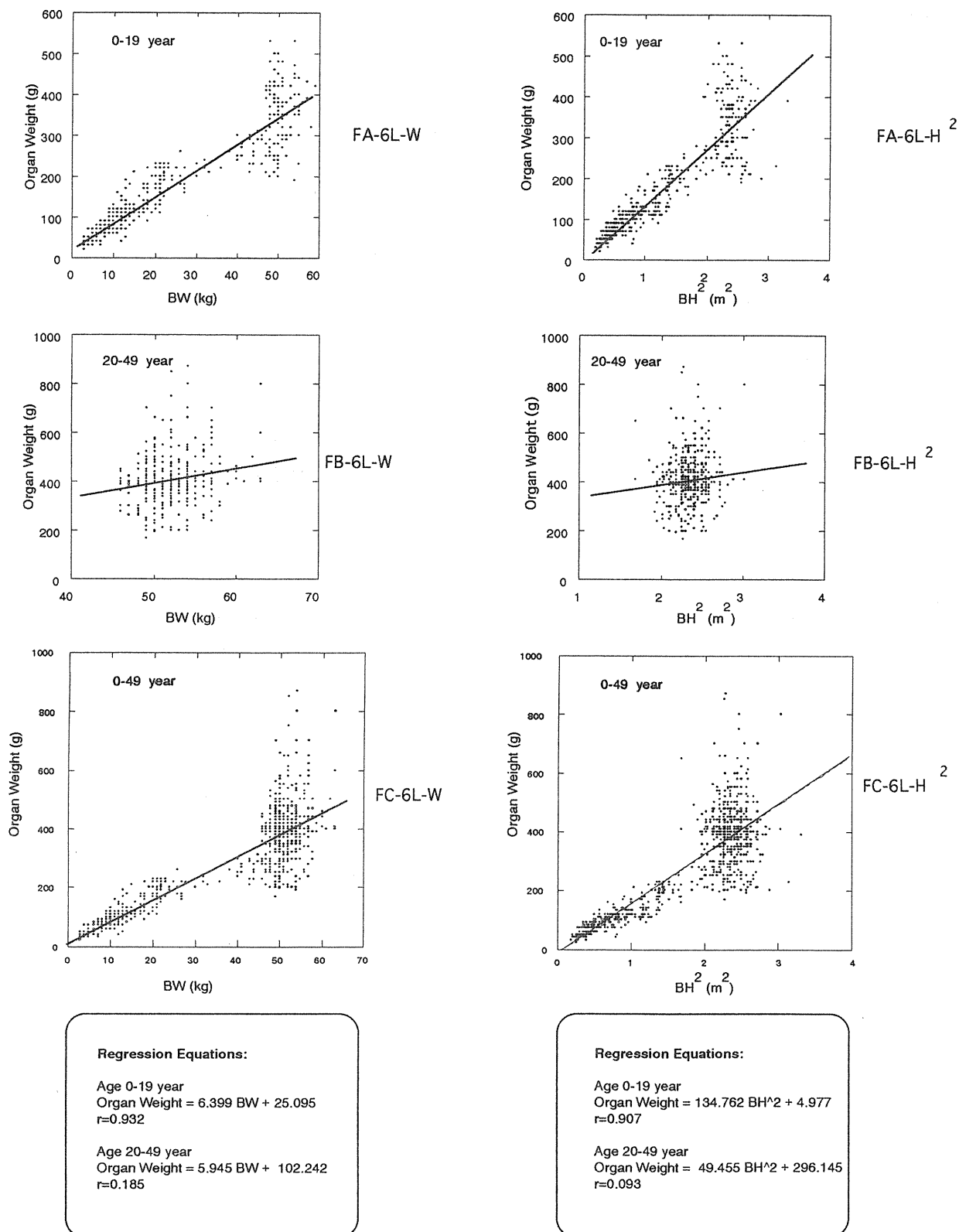
**Regression Equations:**

Age 0-19 year  
Organ Weight =  $506.906 BH^2 + 72.610$   
 $r=0.958$

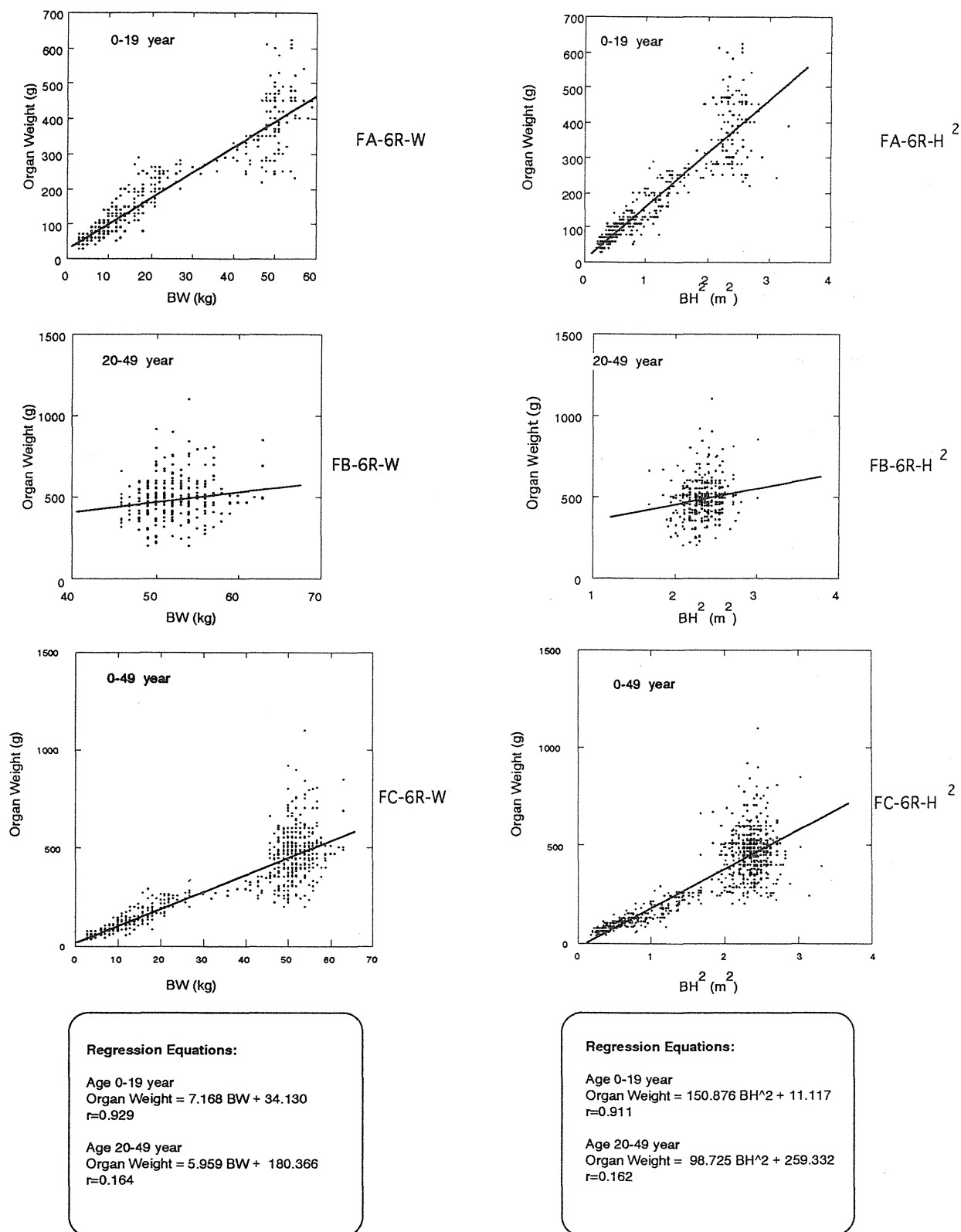
Age 20-49 year  
Organ Weight =  $248.922 BH^2 + 758.967$   
 $r=0.176$

Fig. 29. Regression of mass of the liver to body height and weight in 0-19, 20-49 and 0-49 year females.



**F-6L****Left Lung, Female**

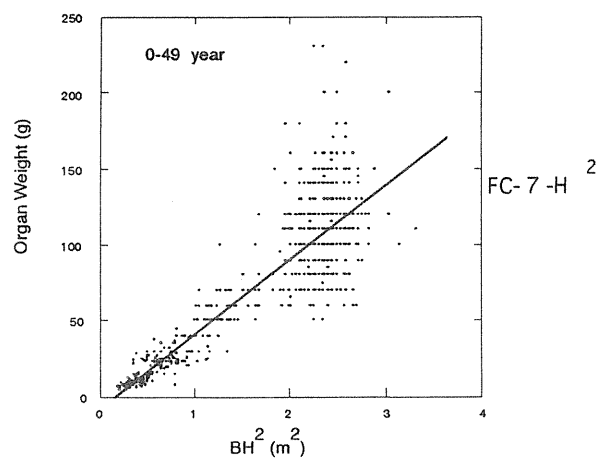
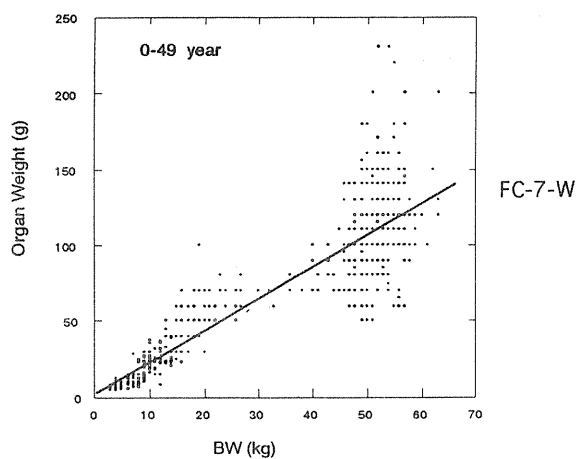
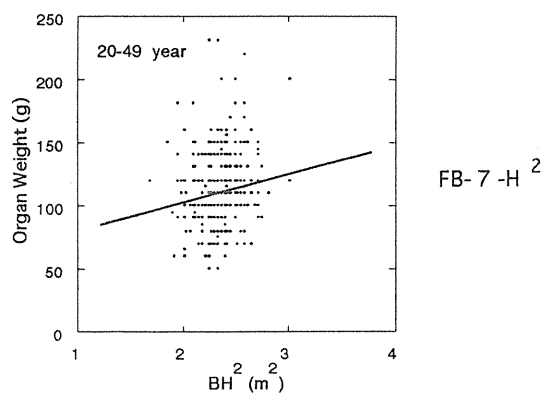
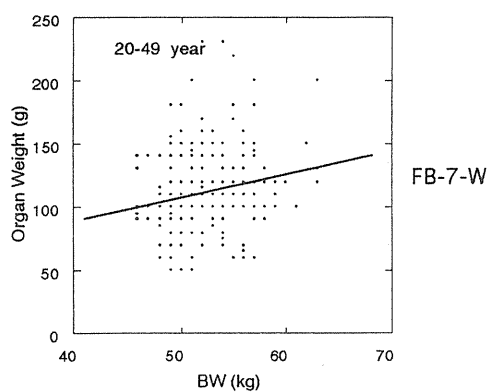
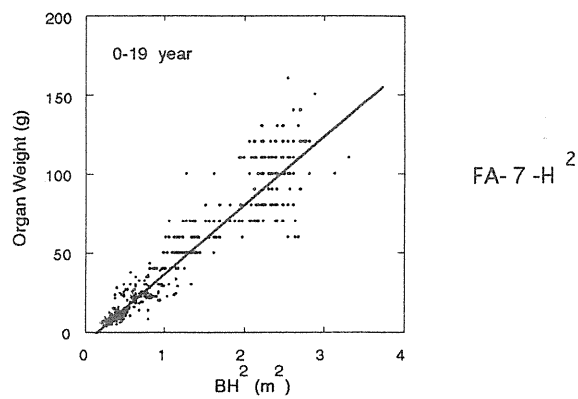
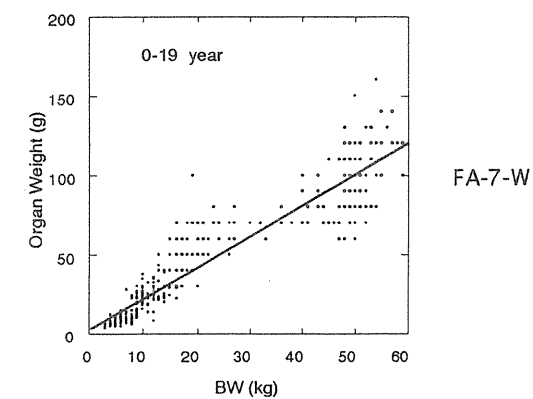
**Fig. 30. Regression of mass of the lung, left to body height and weight in 0-19, 20-49 and 0-49 year females.**

**F-6R****Right Lung, Female**

**Fig. 31. Regression of mass of the lung, right to body height and weight in 0-19, 20-49 and 0-49 year females.**

F-7

Pancreas, Female



## Regression Equations:

Age 0-19 year  
Organ Weight =  $1.967 \text{ BW} + 3.463$   
 $r=0.942$

Age 20-49 year  
Organ Weight =  $1.814 \text{ BW} + 18.022$   
 $r=0.219$

## Regression Equations:

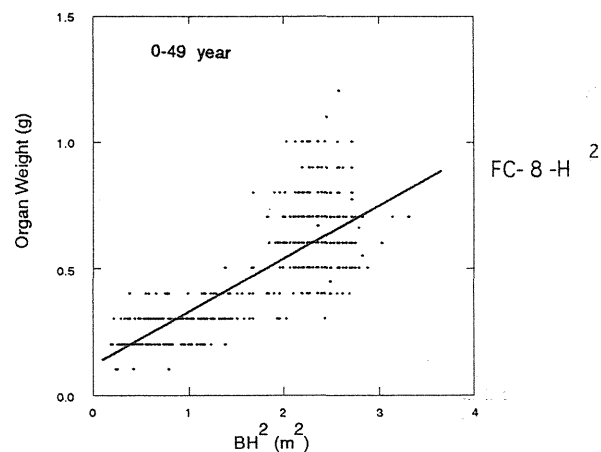
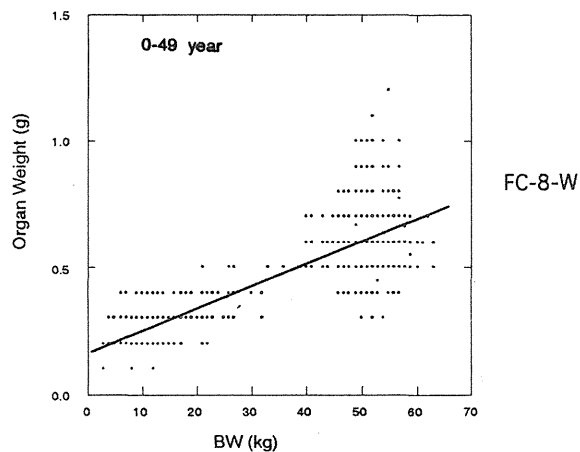
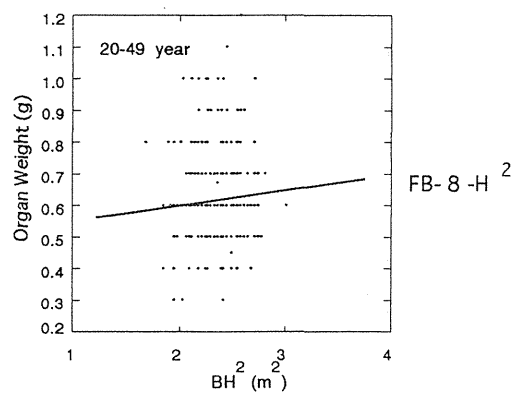
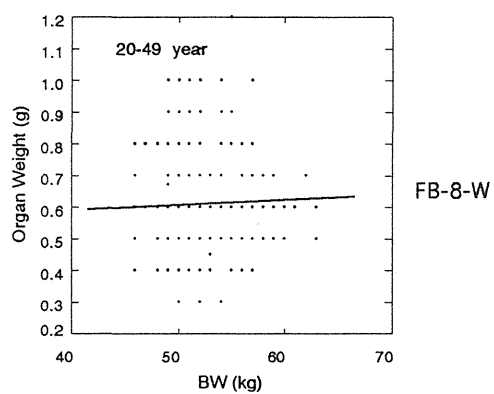
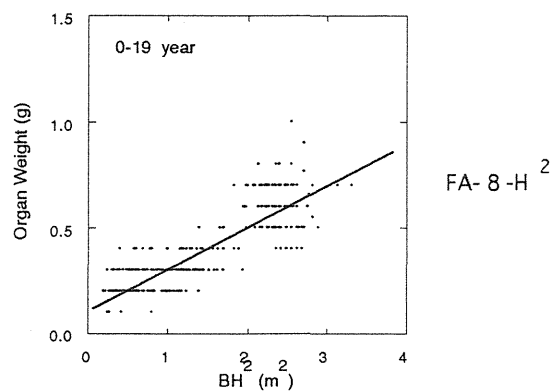
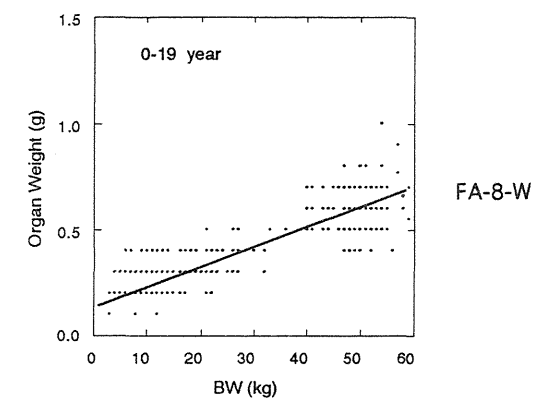
Age 0-19 year  
Organ Weight =  $42.667 \text{ BH}^2 - 4.324$   
 $r=0.945$

Age 20-49 year  
Organ Weight =  $22.476 \text{ BH}^2 + 59.682$   
 $r=0.163$

Fig. 32. Regression of mass of the pancreas to body height and weight in 0-19, 20-49 and 0-49 year females.

F-8

Pituitary, Female



## Regression Equations:

Age 0-19 year  
Organ Weight =  $0.009BW + 0.154$   
 $r=0.900$

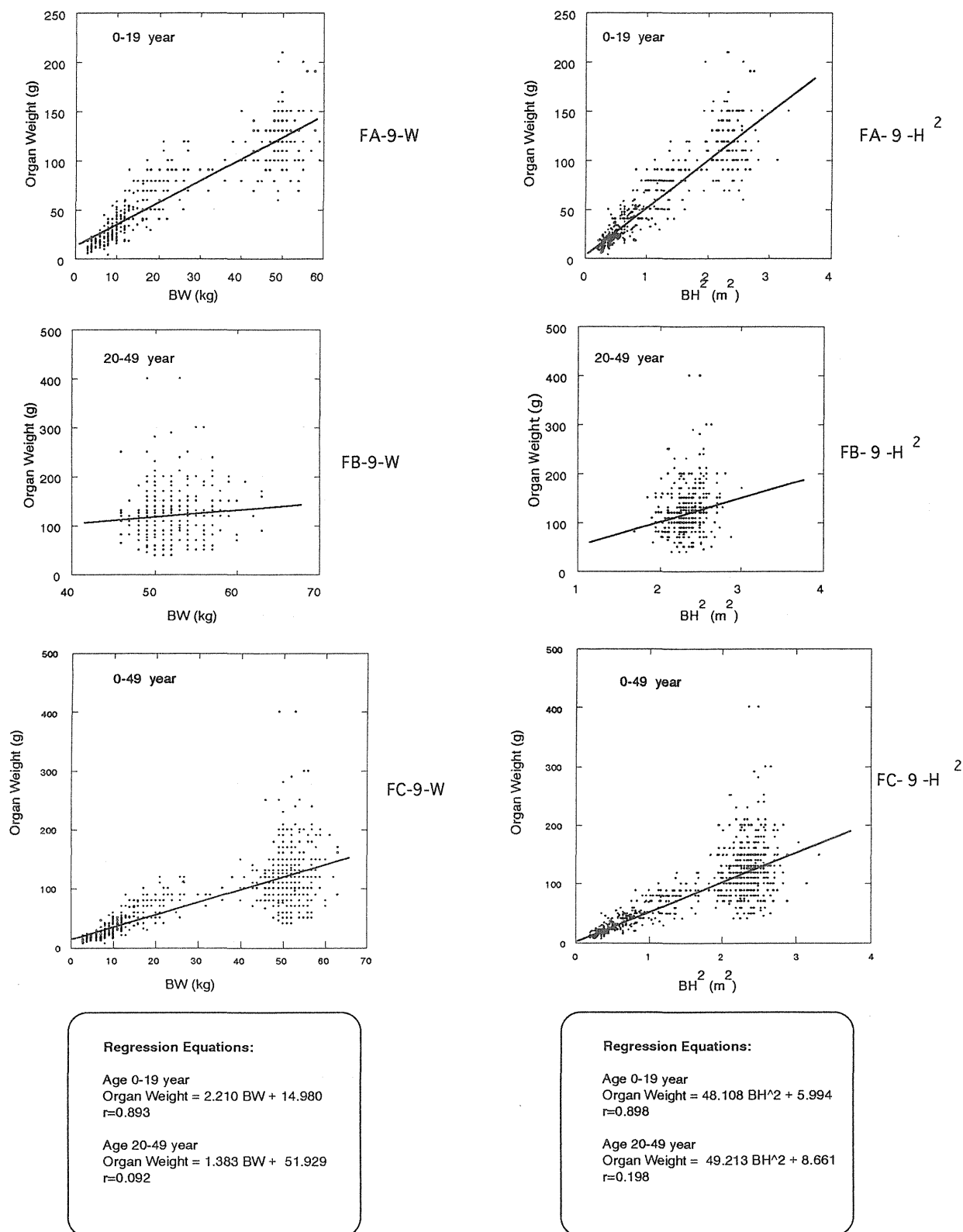
Age 20-49 year  
Organ Weight =  $-0.003BW + 0.785$   
 $r=0.029$

## Regression Equations:

Age 0-19 year  
Organ Weight =  $0.197 BH^2 + 0.120$   
 $r=0.869$

Age 20-49 year  
Organ Weight =  $0.061 BH^2 + 0.492$   
 $r=0.036$

Fig. 33. Regression of mass of the pituitary to body height and weight in 0-19, 20-49 and 0-49 year females.

**F-9****Spleen, Female**

**Fig. 34. Regression of mass of the spleen to body height and weight in 0-19, 20-49 and 0-49 year females.**

F-11

Thymus, Female

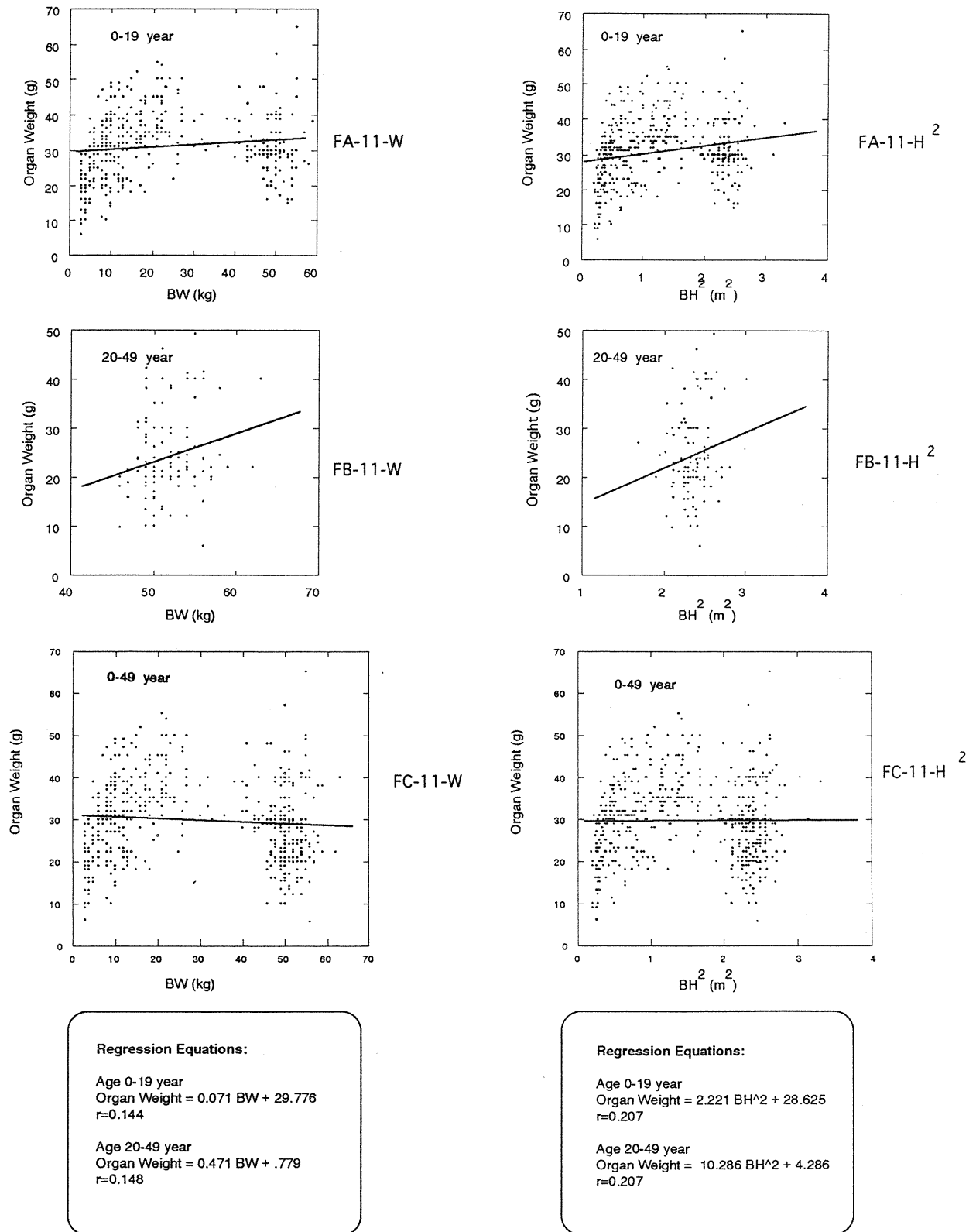
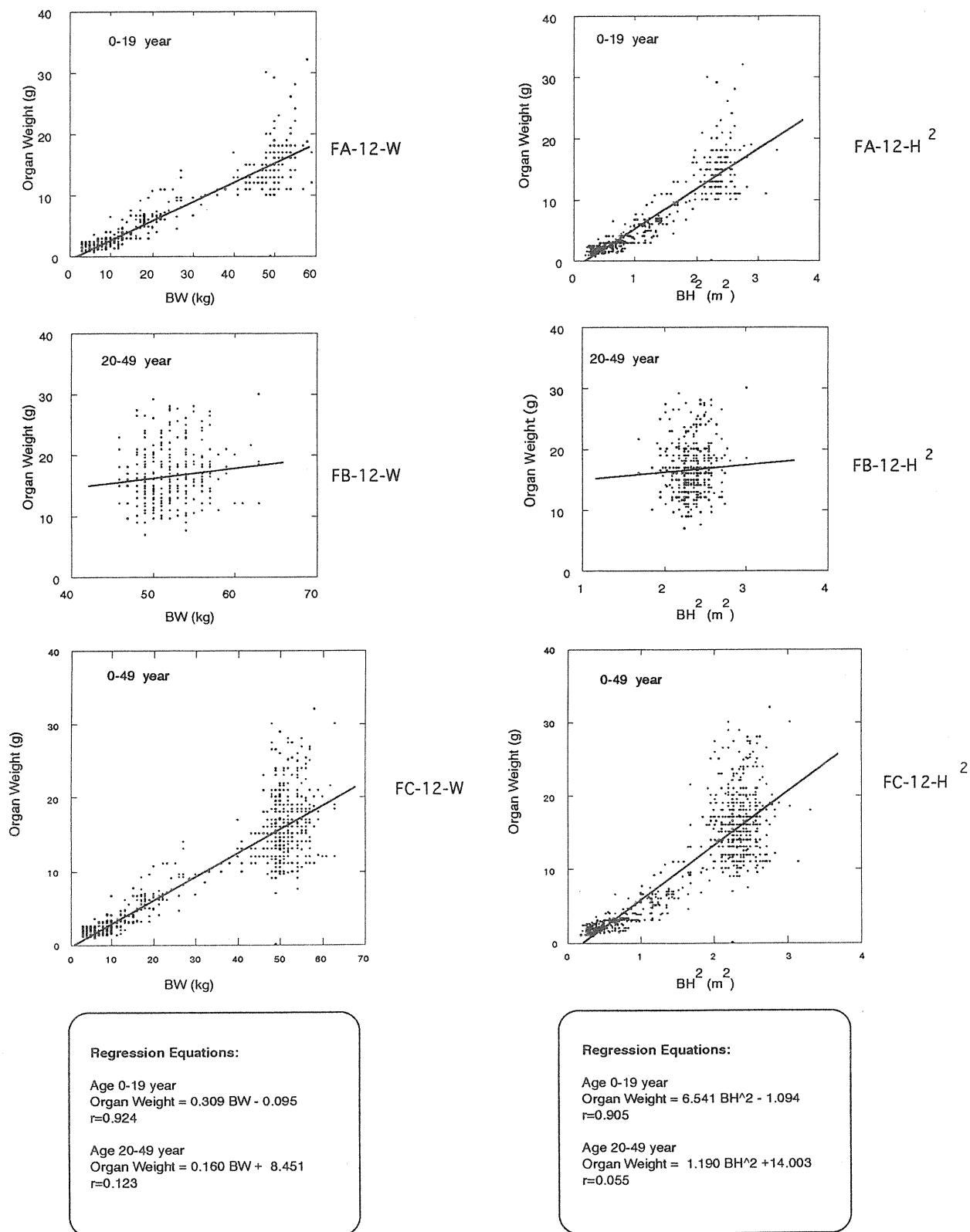


Fig. 35. Regression of mass of the thymus to body height and weight in 0-19, 20-49 and 0-49 year females.

**F-12      Thyroid, Female**



**Fig. 36. Regression of mass of the thyroid to body height and weight in 0-19, 20-49 and 0-49 year females.**

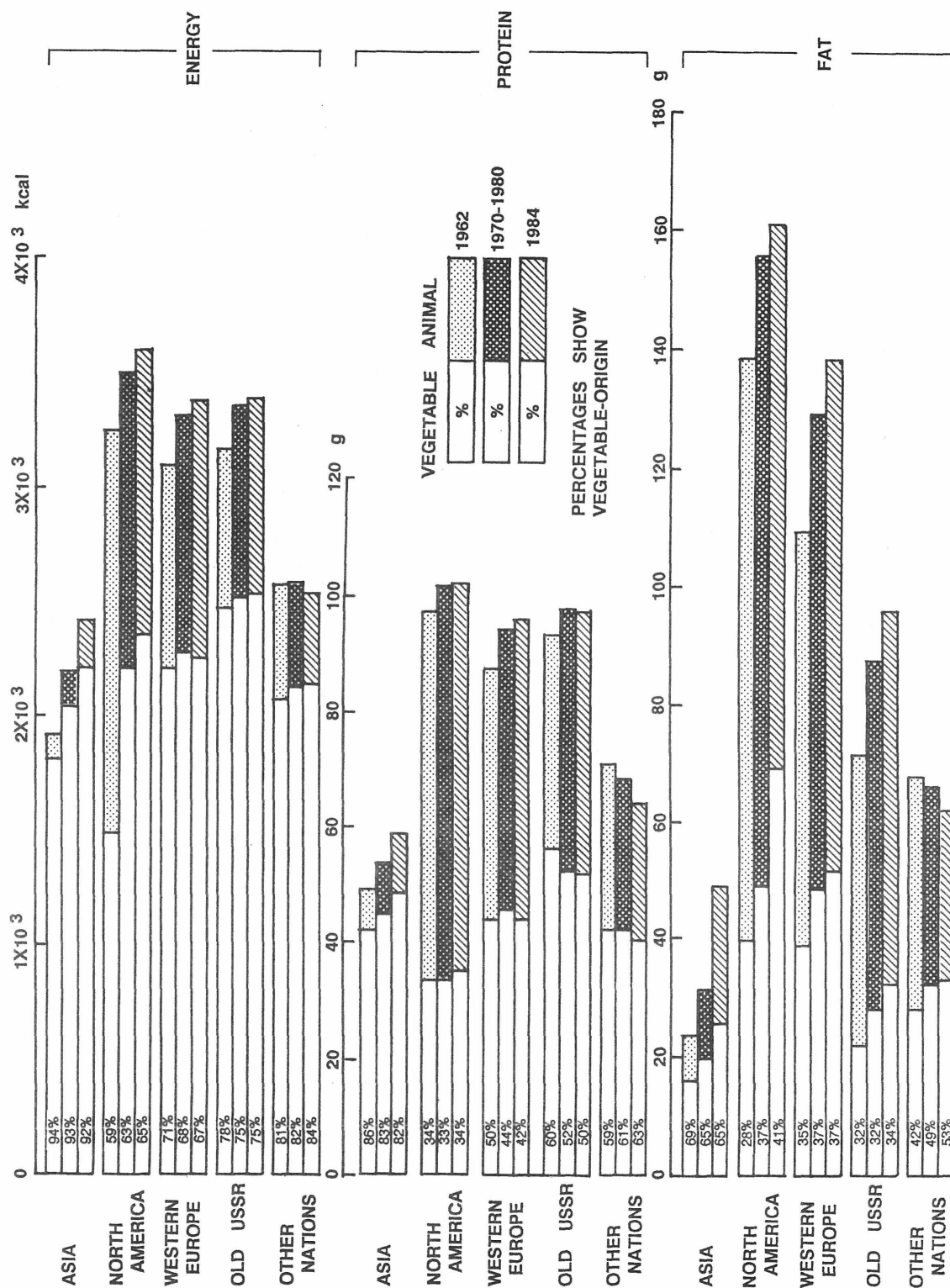


Fig. 37. Per caput net supply of energy, protein and lipid (fat) in Asian, European and other regions of the world.