Somatometric Characteristics Of Women Of The First And Second Period Of Adulthood Using Different Contraceptives With Different Body Types

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ABSTRACT

This article describes the characteristics of the anthropometric parameters of women of the first and second period of adulthood who use various contraceptives of different weights and physiques—in addition to height and weight, the characteristics of the pelvis size are presented — interosseous, intercostal, intervertebral sizes, external conjugate.

KEYWORDS

Constitution, somatotype, physique, pelvis, uterus, ovary, contraception, female, dolichomorphic, mesomorphic, brachymorphic, type.

INTRODUCTION

The preventive direction of modern medicine is based on many fundamental studies. The doctrine of the constitution has a long history. T. S. Sorokina (1992) notes that the creation of the doctrine of the human constitution and its impact on health, the course of diseases is associated with the works of Hippocrates and Galen [1]. These authors paid great attention to the concepts of the constitution and appearance of a person and pointed out a number of diseases peculiar to a particular morphological type. Hippocrates proposed two classifications of constitutional types. The first classification is based on the ratio and predominance of one or another main body juice (blood, mucus,
yellow and black bile). In this regard, Hippocrates distinguished the following types of human constitution: good and bad, strong and weak, dry and wet, elastic and flaccid. The second classification is based on the peculiarities of human temperament and behavior in society. In particular, he divided people into 4 types: choleric, sanguine, phlegmatic and melancholic.

In the world of constitution possible to identify a number of schools (French, German, etc.), which have developed different schemes of constitutional typology [2,3,5]. These schemes are built on different principles and include features that are biologically unequal.

As noted by domestic authors [4,8], the constitution is a set of functional and morphological features of the body, formed on the basis of inherited and acquired properties that determine the originality of the body's response to external and internal stimuli.

G. N. Candela et al., (2017) believe that the constitution is a multi-disciplinary phenomenon. This phenomenon is based on the study of the variety of physique features of somatotypes. In modern medical anthropology and medicine, the Constitution is evaluated as a complex of individual morphofunctional features of an individual [6].

N. Pende (1922) proposed a classification by predominance functions of one or another endocrine gland.

Foreign anthropology distinguishes between General and particular constitution [7,9,10]. The General constitution – the General, total property of the organism to react in a certain way to the effects of the environment, it is a single principle of the diverse activities of all its characterized by the functional unity of all physical, physiological and mental properties of the individual. The General constitution determines all the physical, physiological and formal psychological properties of the individual, but they can change depending on the conditions of development and upbringing. The concept of "private constitutions" includes somatotype (a characteristic of the constitution based on morphological criteria), temperament (a psychodynamic characteristic of a person), serological (groups of serological belonging), dermatological and other constitutions.

The issue of the Constitution is closely related to the problem of classification of constitutional types, which causes a large number of different complexity and significance of constitutional schemes.

The body type is the most accessible to research, relatively stable in ontogenesis and genetically determined characteristic of the integrity of the body [11].

The assessment of physical development, General and local constitution, functional state of organs and systems of the body as a whole is considered an integral part of the health characteristic [8,12].

A fundamentally new classification was Sheldon W. D. (1949). In W. G. Sheldon distinguishes between endomorphic, mesomorphic and ectomorphic types, and the components of temperament-viscero-somatotype - and cerebrotonia. The classification was based on the degree of development of germ leaf derivatives. At the same time, Sheldon notes that the somatotype unchanged throughout life. The appearance and size of the body changes, but not the somatotype [10].
In 1969, American physiologists B. Heath and L. Carter refined the Sheldon system. English anthropologists widely apply the Parnell scheme (Parnell, 1954), based on the use of the table given in the work of B. Heath (1969). It takes into account three sets of measuring features for representatives of different age groups: height-weight ratios, bone diameters and girth dimensions, as well as skin-fat folds [2,3].

Over time, views on the causes of different human constitutions have also changed. Thus, E. N. Hrisanfova (2002) pointed to the leading influence of the genotype V. P. Alekseyev (1966) pointed to the conditions in which the formation of the organism takes place as a negative effect of the external environment the dominant factor [1,7]. Both factors, both genetic predisposition and external conditions, are now recognized.

For women, there are much fewer evaluation schemes, mainly working with the scheme of I. B. GALANT (1927). The author identifies 7 types of constitution, grouped into 3 categories, and emphasizes that the evaluation of the constitution should include psychophysical differences [2].

In medicine and physical education to date (with rare exceptions), the average approach to a person is used without taking into account his constitutional affiliation, which significantly reduces the effectiveness of implemented programs. The problem of the "norm" of morphofunctional indicators, including the size of the pelvis, is also implemented according to the average principle, which is methodologically incorrect.

Thus, there are geographical features of the anthropometric parameters of women with different types of constitution. It is of practical interest to study the features of ultrasound anatomy of the uterus and ovaries in women of the first and second types of Mature age using different contraceptives of the same ethnic-territorial group and different body types.

The purpose of the study was to identify the features of anthropometric characteristics and pelvic shape in women of the first and second period of adulthood using various contraceptives of different body types of the same ethnic and territorial group.

MATERIAL AND METHODS OF RESEARCH

To solve these tasks, we examined 520 women of the first and second period of adulthood, among whom 480 used various types of contraceptives and 40 women in the control group do not use contraceptives, who were born and permanently live in the city of Bukhara and the Bukhara region belonging to the Uzbek-Tajik ethnic group.

All ethical principles related to the involvement of women in medical research are based on the Helsinki Declaration of the world Medical Association (Helsinki, 1964, last updated, Seoul, 2008).

To characterize the physique types of the examined women of the first and second period of adulthood using various contraceptives, such pelvic dimensions as interosseous, intervertebral, intercostal distances, external conjugate, pelvic width index, as well as height, weight and body mass index were studied.

RESEARCH RESULT

When assessing the inter-bone size, the average value in women of the first and second periods of adulthood using various contraceptives in the group with a height of 151-160 cm without dividing into body types
was 25.5±1.2 cm, with the maximum value of indicators was 27 cm, and the minimum - 22 cm. In the group of brachimorphic women of the first and second period of adulthood using various contraceptives with a height of 151-160 cm, the size was 26.5±0.6 cm (the minimum value is 25 cm and the maximum value is 27 cm). In women of the first and second period of adulthood, using various contraceptives of the dolichomorphic type with a height of 151-160 cm, the interosseous size indicators were 23.5±0.5 cm with a minimum value of 22 cm, and a maximum value of 24 cm. When evaluating the interosseous size in the group with mesomorphic type in the growth group of 151-160 cm, it was 24.9±1.1 cm, with a minimum value of 22.5 cm and a maximum value of 26 cm. Differences in this indicator significantly (p<0.05) increase from dolichophomorphic to mesomorphic and brachymorphic body types.

When assessing the inter-bone size in the group with a height of 161-170 cm for all body types, the average value was 26.8±0.2 cm, with a minimum value of 23 cm and a maximum value of 30 cm. In the group with brachimorphic type in women of the first and second period of adulthood using various contraceptives with a height of 161-170 cm the size was 28.9±1.1 cm with a minimum value of 26 cm and a maximum value of 30 cm. In women of the first and second period of adulthood using various contraceptives with a dolichomorphic type with a height of 161-170 cm, the interosseous size was 25.7±0.9 cm with a minimum value of 23 cm, and the maximum value of 27 cm, and in the group with a mesomorphic type with a height of 161-170 cm was 26.2±0.7 cm, with a minimum value of 25 cm and a maximum value of 27 cm. body type (p<0.05).

When evaluating the interspin size in the group with a height of 171-180 cm, the average size increased to 27.6±1.1 cm, with a minimum value of 23 cm and a maximum value of 29 cm. In the group with brachimorphic type in women of the first and second period of adulthood using various contraceptives with a height of 171-180 cm, the size was the largest - 28.6±0.4 cm with a minimum value of 27 cm and a maximum value of 29 cm. In women of the first and second period of adulthood using various contraceptives with a dolichomorphic type with a height of 171-180 cm, the inter-bone size was the smallest - 26.4±1.0 cm with a minimum value of 23 cm, and the maximum value of 27 cm. In the group with mesomorphic type growth of 171-180 cm, the size was 26.2±0.7 cm, with a minimum value of 25 cm and a maximum value of 27 cm.

Thus, with an increase in the growth of women of the first and second period of adulthood using various contraceptives, the interosseous size increased significantly (p<0.05) in each growth group and a reliable (p<0.05) pattern of distribution of the quantitative value of this indicator in the sequence: dolichomorphic-mesomorphic-brachymorphic type was preserved.

When assessing intercostal size, the average value in women of the first and second periods of adulthood using various contraceptives in the group with a height of 151-160 cm was 27.2±1.8 cm, with the maximum values of indicators were 30 cm, and the minimum values of 24 cm.

Similarly, the other external size of the pelvis – intercostal-changed. When assessing intercostal size in the group with brachimorphic type in women of the first and second period of adulthood using various contraceptives with a height of 151-160 cm it was 28.2±0.9 cm with a minimum value of 27
cm and a maximum value of 30 cm in women of the first and second period of mature age using different contraceptives with dolichomorphic type with growth 151-160 cm indicators migraine page size was 25.2±0.5 cm with a minimum value of 24 cm, and the maximum value is 26 cm and in the group with mesomorphic type growth 151-160 cm size was 26.6±0.8 cm, with a minimum value of 25 cm and a maximum value of 28 cm (see figure 2).

When assessing intercostal size in the group with a height of 161-170 cm for all body types, the average value was 27.9±1.5 cm, with a minimum value of 25 cm and a maximum value of 35 cm. In the group with brachymorphic type in women of the first and second period of adulthood using various contraceptives with a height of 161-170 cm the size was 29.9±1.0 cm with a minimum value of 29 cm and a maximum value of 35 cm in women of the first and second period of adulthood using various contraceptives with a dolichomorphic type with a height of 161-170 cm, the intercostal size was 26.2±0.9 cm with a minimum value of 25 cm, and the maximum value of 29 cm.

The intercostal size in the group with a mesomorphic body type and height of 161-170 cm was 27.9±0.6 cm, with a minimum value of 27 cm and a maximum value of 29 cm (figure 2, table 4).

When assessing the intercostal size in the group with a height of 171-180 cm, the average value was 29.6±1.5 cm, with a minimum value of 25 cm and a maximum value of 33 cm. In the group with brachymorphic type in women of the first and second period of adulthood using various contraceptives with a height of 171-180 cm the size was 31.2±0.7 cm with a minimum value of 29 cm, and a maximum value of 34 cm. When evaluating the intercostal size in a group with a mesomorphic type with a height of 171-180 cm, the size was 30.4±1.2 cm, with a minimum value of 29 cm and a maximum value of 34 cm.

When assessing the intervertebral size, it was found that the average value in women of the first and second periods of adulthood using various contraceptives of all body types in the group with a height of 151-160 cm was 30.8±1.7 cm, with the maximum values of indicators were 35 cm, and the minimum values were 28 cm. In the group with brachymorphic body type in women of the first and second period of adulthood using various contraceptives with a height of 151-160 cm the size was 32.6±1.2 cm with a minimum value of 30 cm and a maximum value of 35 cm in a dolichomorphic type with a height of 151-160 cm, the intervertebral size indicators were 29.0±0.7 cm with a minimum value of 28 cm, and a maximum value of 31 cm. When evaluating the intervertebral size in a group with a mesomorphic type with a height of 151-160 cm, the size was 30.4±1.2 cm, with a minimum value of 29 cm and a maximum value of 34 cm.

When assessing the intervertebral size in the group with a height of 161-170 cm without dividing into body types, the average value was 31.5±1.8 cm, with a minimum value of 27 cm and a maximum value of 38 cm. In the group with brachymorphic type in women of the first and second period of adulthood using various contraceptives with a height of 161-170 cm the size was 33.0±1.1 cm with a minimum value of 32 cm and a maximum value of 38 cm in women of the first and second period of adulthood using various contraceptives with a
dolichomorphic body type and a height of 161-170 cm, the intervertebral size was 29.6±1.5 cm with a minimum value of 27 cm, and a maximum value of 34 cm. When evaluating the intervertebral size in the group with mesomorphic type and height of 161-170 cm, it was 31.8±1.0 cm, with a minimum value of 30 cm and a maximum value of 34 cm.

When evaluating the intervertebral size in the group with a height of 171-180 cm, the average size was 33.2±1.3 cm, with a minimum value of 29 cm and a maximum value of 36 cm. In the group with brachymorphic type in women of the first and second period of adulthood using various contraceptives with a height of 171-180 cm the size was 33.8±0.7 cm with a minimum value of 33 cm and a maximum value of 36 cm. In women of the first and second period of adulthood using various contraceptives with a dolichomorphic type with a height of 171-180 cm, the intervertebral size was 31.4±1.6 cm with a minimum value of 29 cm, and the maximum value of 36 cm. When assessing the intervertebral size in the group with mesomorphic type and height of 171-180 cm, it was 33.5±1.5 cm, with a minimum value of 31 cm and a maximum value of 36 cm.

In the evaluation of the external conjugates mean value in women of the first and second period of Mature age using different contraceptives all body types in the group with growth 151-160 cm it was 20.9±1.0 cm, while the maximum values were 22 cm and a minimum value of 17 see.

When evaluating external conjugates in the group with brachymorphic type in women of the first and second period of adulthood using various contraceptives with a height of 151-160 cm the size was 21.1±0.9 cm with a minimum value of 18 cm and a maximum value of 24 cm. At the same time, when assessing the size of the external conjugate in the group with dolichomorphic type with a height of 151-160 cm, the external conjugate indicators were 19.3±0.8 cm with a minimum value of 17 cm, and a maximum value of 21 cm. When evaluating the size of the external conjugate in the group with mesomorphic type and height of 151-160 cm, the size was 19.7±0.8 cm, with a minimum value of 18 cm and a maximum value of 21 cm.

When assessing the size of the external conjugate in the group with a height of 161-170 cm, the average value without dividing into body types was 20.5±1.2 cm, with a minimum value of 18 cm and a maximum value of 24 cm. When assessing the size of the external conjugate in the group with brachymorphic type in women of the first and second period of adulthood using various contraceptives with a height of 161-170 cm the size was 21.4±0.9 cm with a minimum value of 20 cm and a maximum value of 24 cm. In women of the first and second period of adulthood using various contraceptives with a dolichomorphic type with a height of 161-170 cm, the external conjugate was 19.5±1.0 cm with a minimum value of 18 cm, and the maximum value of 22 cm.

When evaluating external conjugate indicators in women of the first and second period of adulthood using various contraceptives with a dolichomorphic type with a height of 151-160 cm, the external conjugate indicators were 19.2±0.8 cm with a minimum value of 17 cm, and a maximum value of 21 cm. When evaluating the size of the external conjugate in the group with mesomorphic type and height of 151-160 cm, the size was 19.6±0.8 cm, with a minimum value of 18 cm and a maximum value of 21 cm.

When evaluating external conjugates in a group with a height of 171-180 cm

The average size for all body types was 21.1±0.9 cm, with a minimum value of 18 cm and a maximum value of 24 cm. At the same time, when assessing the size of the external conjugate in the group with brachymorphic type in women of the first and second period
of adulthood using various contraceptives with a height of 171-180 cm, the size was 21.4±0.7 cm with a minimum value of 19 cm and a maximum value of 22 cm. In women of the first and second period of adulthood using various contraceptives with a dolichomorphic type with a height of 171-180 cm, the size of the external conjugate was 21.4±1.1 cm with a minimum value of 18 cm and a maximum value of 24 cm. When evaluating the size of the external conjugate in the group with mesomorphic type and height of 171-180 cm, the size was 21.2±0.7 cm, with a minimum value of 20 cm and a maximum value of 22 cm.

**CONCLUSION**

Thus, it was found that women of the first and second periods of adulthood who use various contraceptives with a significant increase in the average value of pelvic distances as the growth increases in groups (151-160 cm; 161-170 cm; 171-180 cm), there is also a trend of a significant increase in these pelvic sizes from dolichomorphic to mesomorphic and then to brachyomorphic body types.

**REFERENCES**
