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The heads of boys from 3 up to 7 years old

Tukhtanazarova Shavkiya Ibadovna

Associate Professor, Candidate of Medical Sciences, ZARMED University, Samarkand, Uzbekistan

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Abstract: An investigation of 500 boys shows the greatest enlargement of skull sizes in children aged from 4 to 5 years old. Growth deceleration of the skull's parameters such as the longitudinal diameter skull's transversal size, the length and width of the skull's base, and zygomatic and mandibular diameters were revealed at the age of 6 to 7 years old.

Keywords: Development, growth, childhood, boys, head circumference, physical development, age range, milestones, health, measurements, pediatric care, cognitive development, social skills, behavior, nutrition.

Introduction: When studying the physical development of children, it is necessary to pay attention to the growth of the parameters of the head B at different periods of life. Despite the sufficient amount of work on the study of the structure heads (1), it should be noted that not all parameters were taken into account. some works are dedicated to Thus, the study of body weight, and head circumference (3,4), while others were limited by measurements of the length of the head width, zygomatic diameter and morphological height faces, and nose height (2.5) All these works were carried out in the CIS. These studies have not been conducted in our region. The work was carried out in most cases on the material of adults, without taking into account the dynamics of growth.

METHODS

Anthropometric studies have been conducted in kindergartens and schools in Samarkand. At each age, 100 boys were studied 5,001 in total. The longitudinal diameter of the skull, the transverse diameter of the skull, the circumference of the head, and the transverse size of the forehead were measured. the height (vertical) diameter of the skull, the length of the base of the skull, the width of the base of the skull, and the zygomatic diameter. the mandibular diameter. The measurements were carried out according to the method proposed by V.S.Speransky. A.I.Zaichenko 1980). The digital data were processed by the method of variational statistics.

Based on the research, it was revealed that, at the age of 3 to 4 years, the longitudinal diameter of the skull increased by 0.01 cm, at the age of 4 up to 5 years of age, there is a noticeable acceleration in the growth of the longitudinal diameter of the skull by 0.3 cm, then from 5 before the age of b, his height also amounted to 0.34 cm, from 6 to 7 years, the growth of the longitudinal diameter of the skull again slows down by more than 2 times and amounted to 0.15 cm. The longitudinal diameter of the skull of boys aged /15.75±0.16 cm/ up to 7 years /16.55+0.19 cm/ increased by 0.8 cm, the increase is uneven. / see Table/. The transverse size of the skull at the age of 3 / 13.84±0.14 cm to 7 years / 14.79 ±0.17 cm increased by 0.95 cm, from 3 to 4 years the growth of the transverse size of the skull was 0.01 cm, at the age of 4 to 5 years , there is a noticeable increase in the growth of the transverse size of the skull / by 0.54 cm /, then at the age of 5 to 6 years, a decrease in his height was noted in 2 times with a gradual decrease in the growth of this parameter to 0.14 cm at the age of 6 to 7 years. The circumference of the boys' head is from 3 /49,38+0,34 cm/ up to 7 years old /51.23-0.33 cm/ increased by 1.85 cm.

The change in the circumference of the head occurs unevenly: at the age of 3 to 4 years, this parameter increased by 0.45 cm, from 4 to 5 years, this size increased by 0.61 cm, from 5 to 6 years, this size became larger by 0.29 cm, and from 6 to 7 years old, this indicator increased in comparison with the previous age 1.7 times. The transverse forehead size

RESULTS AND DISCUSSION

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from 9.76+0.12 cm/ up to 7 years old /10.12+0.14 cm/ increased by 0.36 cm. Its size from 3 to 4 years increased by 0.07 cm, from 4 to 5 years - by 0.15 cm, from 5 to 6 years - by 0.02 cm, from 6 to 7 years there is an acceleration in the growth of the transverse size of the forehead - by 0.12 cm. The height /vertical/ diameter of the skull at the age of 3/12.54±0.16 cm/ up to 7 years /13.04±0.15 cm / increased by 0.5 cm. The increase in the height diameter of the skull from 3 to 4 years was 0.16 cm, from 4 to 5 years-0.22 cm. Thus, at the age of 3 to 5 years, there is a gradual increase in this parameter, at the age of 5 before the age of 6, its decrease to 0.01 cm, from 6 to 7 years, its increase by 0.11 cm again. The length of the base of the skull at the age of 3 /13.36+0.19 cm/ up to 7 years /14.35-0.20 cm/ increased by 0.99 cm. When analyzing the dynamics of the growth of the length of the base of the skull, it was found that at the age of 3 to 4 years, this parameter increased by 0.03 cm, from 4 to 5 years old, this indicator increased by 0.21 cm, from 5 to 6 years old by 0.4 cm, at the age of 6 to 7 years this the size increased by 0.35 cm. The width of the base of the skull from 3.x /11.1210.14 cm / up to 7 years 11.7810.16 cm / increased by 0.66 cm The increase in the width of the base of the cut from 3 to 4 years - by 0.2 cm, from 4 up to 5 years - by 0.21 cm, from 5 to 6 years - by 0.24 cm. Thus, the increase in the width of the base of the skull at the age of 3 to b years proceeds evenly, then at the age of 6 to 7 years remains unchanged. Zygomatic diameter in boys from 3 / 10.56+0.15 cm / up to 7 years old 11.1940.19 cm/ increased by 0.63 cm. From 3 to 4 years old, the zygomatic diameter increased by 0.23 cm, from 4 to 5 years old - by 0.1 cm, at the age of 5 to 6 years - by 0.29 cm and aged from b to 7 years remained unchanged. Comparison of the transverse and longitudinal diameters of the skull It has been shown that their growth proceeds almost the same, except for the age of 4-5 years, when the increase in transverse size occurs faster than the transverse one. When comparing the increase in the transverse diameter of the skull with the circumference of the head, it was found that the increase in the circumference of the head from 3 to 7 years in relation to the transverse diameter of the skull increases by 1.9 times, its increase proceeds more intensively at the age of 4 to 5 years.

Comparison of the increase in the transverse size of the skull c The transverse size of the forehead showed that these parameters became larger at the age of 4 to 5 years, but at the age of 6 to 7 years, the growth of the transverse size of the skull decreases with an increase in the growth of the transverse size of the forehead. The increase in the height diameter of the skull proceeds identically to the increase in the transverse

size of the forehead, except for 3-4 years, when the increase in the transverse size of the forehead is very insignificant (0.07 cm/, while the increase in the height diameter of the skull is 0.16 cm. The greatest increase in the length and width of the base of the skull is noted in the age from: 5 to b years, at the age of 6 to 7 years, the increase in length the base of the cut decreases to 0.35 cm, while the width of the base of the skull increases to 0.01 cm. The increase in the increase in zygomatic diameter is noted at the age of 5 to 6 years, and the mandibular diameter is from 3 to 4 years and from 5 to 6 years almost equally, then at the age of 6 to 7 years, the increase in zygomatic diameter almost does not occur. The transverse size of the skull and the length of the base of the skull increase from 3 to 7 years to 0.99 cm. The largest increase in the size of the cerebral part of the skull is observed at the age of 4 to 5 years, and the size of the facial part of the skull at the age of 5 to 6 years. Thus, at the age of 4to 5 years of age, the growth of the twilight size of the skull, the circumference of the head, the transverse forehead, the height of the vertical/diameter of the skull accelerates. At the age of 5 to 6 years, there is the greatest increase zygomatic. The width of the base of the skull increased steadily from 3 to 6 years, starting from 6 to 7 years, its growth sharply.

CONCLUSION

The largest increase in the size of the cerebral part of the skull is observed at the age of 4 to 5 years, and the facial one - at the age of 5 to 6 years. The largest increase in the size of the base of the skull is observed in between the ages of 5 and 6 years, and the transverse size of the skull, the circumference of the head, the transverse size of the forehead, the height diameter of the skull - from 4 to 5 years. 2. At the age of 6 to 7 years, the growth of the longitudinal transverse diameters of the skull, the length and width of the base of the skull, the zygomatic and mandibular diameter slows down. the longitudinal diameter of the skull, the pliny of the base of the skull, the diameter.

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