

**COMPARATIVE ANALYSIS OF THE MAIN INDICES OF PHYSICAL DEVELOPMENT OF CHILDREN, AT THE AGE OF 7-17 YEARS FROM CITY ANDIJAN OF REPUBLIC UZBEKISTAN**

**Feruza M. ABDUVALIEVA**

Doctorant (PhD), Ministry of Higher Education,  
Fergana State University, 150100 Fergana city, Republic of Uzbekistan  
*Abduvalieva\_FM@mail.ru*

**Shunkor S. KHUSHMATOV**

Doctor of Biological Sciences, Ministry of Higher Education,  
Science and Innovation of Republic of Uzbekistan,  
100174, Tashkent city, Republic of Uzbekistan  
*Khushmatov\_Sh.S@ mail.ru*

**Abstract:** The main indicators of physical development (body weight, height, chest circumference) of some schoolchildren (7-17 ears old) located in the city of Andijan, Republic of Uzbekistan were analyzed.

**Key words:** *schoolchildren, body weight deficit, excess body weight.*

Monitoring the level of physical development and health of students during education at school has important theoretical and practical value [1; p. 9-13, 2; p.4-24].

The purpose of the research is to analyze the main indicators of physical development of students of some schools located in the city of Andijan, Republic of Uzbekistan.

Material and method. level of physical development of students of schools #1, #5, #6, #11, #13, #15, #24, #30, #31, #48 (grades 1-11) located in Andijan, Republic of Uzbekistan in 2021-2022 was analyzed ( $n=10$  boys ♂,  $n=10$  girls ♀), in which body weight, height, chest circumference were measured using standard methods. Mathematical-statistical processing of results was implemented using programs “Microsoft Excel 2007” (Microsoft, USA), “OriginPro v. 8.5 SR1” (EULA, USA) [3; p. 41, 4; p. 12-35, 5; p.3-12].

**Results.** Among schoolchildren, boys aged 7-17 ears, on average –  $22.11\pm 0.34$ ,  $26.15\pm 0.16$ ,  $27.11\pm 0.42$ ,  $30.94\pm 0.27$ ,  $34.29\pm 0.35$ ,  $38.49\pm 0.48$ ,  $42.21\pm 0.53$ ,  $45.99\pm 0.30$ ,  $52.12\pm 0.23$ ,  $56.26\pm 0.32$  and  $59.21\pm 0.38$  kg is equal to  $18.27\pm 0.04$  in the 7-8 age range,  $3.67\pm 0.04$  in the 8-9 ear age range,  $14.13\pm 0.15$  in the 9-10 ear age range,  $10.83\pm 0.09$  in the 10-11 ear age range, 11-12 ears old  $12.25\pm 0.16$ , 12-13 ears old  $9.66\pm 0.05$ , 13-14 ears old  $8.96\pm 0.03$ , 14-15 ears old  $13.32\pm 0.12$ , it was found to increase by  $7.94\pm 0.04$  at 15-16 ears and  $5.24\pm 0.05\%$  at 16-17 ears. Average body weight in girls aged 7-17 ears –  $21.79\pm 0.18$ ,  $25.14\pm 0.24$ ,  $27.07\pm 0.63$ ,  $30.66\pm 0.28$ ,  $33.56\pm 0.37$  respectively,  $37.61\pm 0.67$ ,  $43.92\pm 0.21$ ,  $46.94\pm 0.93$ ,  $48.92\pm 0.46$ ,  $56.55\pm 0.61$  and  $57.62\pm 1.03$  kg equal,  $15.37\pm 0.18$  in the 7-8 age range,  $7.68\pm 0.03$  in the 8-9 ear age range,  $13.26\pm 0.10$  in the 9-10 ear age range,  $9.46\pm 0.03$  in the 10-11 ear age group, 11-12 ears old  $12.07\pm 0.08$ , 12-13 ears old  $16.78\pm 0.13$ , 13-14 ears old  $6.88\pm 0.02$ , 14-15 ears old  $4.22\pm 0.03$ , it was found that it increased by  $15.59\pm 0.09$  and  $1.89\pm 0.01\%$  at 15-16 ears and 16-17 ears. Average height in boys aged 7-17 ears –  $121.13\pm 0.95$ ,  $127.70\pm 1.12$ ,  $132.34\pm 1.80$ ,  $138.81\pm 1.43$ ,  $142.82\pm 1.08$ ,  $147.63\pm 0.86$ ,

154.39±1.29, 161.42±1.55, 165.29±2.60, 170.47±2.10 and 172.82±3.23 cm is equal to 5.42±0.02 in the 7-8 age group, 3.63±0.01 in the 8-9 ear age group, 4.89±0.02 in the 9-10 ear age group, 2.89±0,03 in the 10-11 ear age group, 11-12 ears old 3.37±0.02, 12-13 ears old 4.58±0.02, 13-14 ears old 4.55±0.01, 14-15 ears old 2.39±0.01, it was found to increase by 3.13±0.02 at 15-16 ears and 1.38±0.03% at 16-17 ears. The average height of girls aged 7-17 ears is 120.44±0.58, 126.38±0.72, 131.58±1.23, 138.66±1.06, 144.16±0.97, respectively, 147.81±1.30, 155.36±1.47, 157.92±2.15, 161.24±2.05, 161.78±2.57 and 162.60±3.34 cm is equal, 4.93±0.02 in the age range of 7-8 ears, 4.11±0.04 in the 8-9 ears, 5.38±0.03 in the 9-10 ears, 3.97±0.02 in the 10-11 ears, 11-12 ears old 2.53±0.02, 12-13 ears old 5.11±0.04, 13-14 ears old 1.65±0.07, 14-15 ears old 2.10±0.01, it was found to increase by 0.33±0.01 at 15-16 ears and 0.51±0.01% at 16-17 ears. Average chest circumference in boys aged 7-17 ears – 58.10±0.47, 62.41±0.94, 63.68±0.71, 64.01±0.59, 67.44±0 .83, 70.46±0.75, 71.67±1.17, 74.57±2.04, 77.27±1.05, 81.26±0.90 and 84.40±1.07 is equal to cm, 7.42±0.06 in the age range of 7-8 ears, 2.03±0.02 in the 8-9 ears, 0.52±0.01 in the 9-10 ears, 5.36±0.05 in the 10-11 ears, 11-12 ears old 4.48±0.03, 12-13 ears old 1.72±0.02, 13-14 ears old 4.05±0.03, 14-15 ears old 3.62±0.02, 5.16±0.04 at 15-16 ears and 3.86±0.03% at 16-17 ears were found to increase. Average chest circumference in girls aged 7-17 ears – 57.69±0.31, 61.52±0.64, 62.85±0.56, 64.19±0.96, 66.37±0,77, 70.18±0.57, 73.88±0.60, 77.08±0.43, 79.26±0.49, 79.86±0.39 and 82.91±1.02 cm is equal to 6.64±0.05 in the age range of 7-8 ears, 2.16±0.02 in the 8-9 ears, 2.13±0.01 in the 9-10 ears, 3.39±0.02 in the 10-11 ears, 11-12 ears old 5.74±0.02, 12-13 ears old 5.27±0.04, 13-14 ears old 4.33±0.04, 14-15 ears old 2.83±0.01, it was found to increase by 0.76±0.01 at 15-16 ears and 3.82±0.02% at 16-17 ears.

**Conclusion.** The obtained results can be used to develop regional anthropometric standards, to optimize the educational process at school, to develop a strategy for the prevention of pathological conditions that are likely to occur in the body of students.

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