

Titel:Physical development of children in the age from 3 to 10, born and living in areas of Belgorod region of Russia with different levels of ecological pollution

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Abstract:

The main anthropometric indexes of children of preschool (3-6 years old) and junior (younger) school ages (6,5-10) have had larger meanings at boys, than at girls, except for circumference of buttocks. The greatest growth at the children of both sexes has been noted at age of 5-5,5 and 8-9. Component composition of skeletal muscular tissue of boys and girls at age from 3 to 10 years old has prevailed over bone and lipid components. Percentage of bone component at boys and girls with age has decreased. Girls have had greater level of contents of lipid component, than boys, with its accumulation on a hip, a shin and behind a shoulder. Children of preschool and junior school ages, living in areas with critical ecological situations, have had trustworthy fewer meanings of anthropometric indexes in comparison with children from regions with satisfactory ecological situations. Comparative analysis of component compositions of these children\'s bodies has shown the increase of percentage of lipid and bone tissues in total mass of body at boys and girls, living in areas with critical ecological situations. Indexes of circumference of thorax and thickness of hypodermic – lipid layer of children from Belgorod have had considerably fewer meanings in comparison with children from Moscow, which has been more noticeable at boys. Somatometric indexes of modern children of Belgorod region of Russia at the age from 3 to 7, differ from the same indexes of their Moscow coevals in higher asthenisation of body and narrowing of trunk.

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