

The Dominance of the Left Hemisphere is the Cause of the Bilateral Asymmetry of Shoulder Girdle Bones

L. Gorbov., S. Baybakov, A. Solntseva, A. Galkina

Kuban State Medical University, Krasnodar, Russia, Dept. of Normal Anatomy

In this article there are presented the results of studying the bilateral asymmetry of the shoulder girdle bones of 13 skeletons. The measurements were taken without detaching the latter. The highest number of linear sizes that are consistently different from the Wilcoxon criterion was discovered on the humerus, less-on the radius, no consistent differences-on ulna and the scapula. The data received allows to suggest that the reason for the morphologic asymmetry is the functional asymmetry of the brain hemispheres. This leads to one hand being dominant over another and being exposed to more exercise, which leads to the prevalent formation of the bone microrelief on the dominant side.

Key words: bilateral asymmetry, upper limb skeleton.