

Corpus Callosum

by Googz Expert

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The Corpus Callosum

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Abstract

The brain, arguably the most vital organ in the body, is divided into the right and the left hemispheres. These cerebral hemispheres require communication as well as interconnectivity to coordinate and the corpus callosum serves these functions. Communication involves the transfer of motor, sensory and cognitive information between these two regions of the brain. Besides these primary functions, recent studies involving patients with agenesis of the corpus callosum reveal that it plays a vital role in verbal processing as well as problem solving. The corpus callosum is c-shaped and forms an upwardly convex arch. It is located under the cortex and above the thalamus and has special features which aid in the execution of its highly specialized functions. First and foremost, it contains approximately two hundred million axons which transmit information between the two parts of the brain. Each axon has specialized features to relay impulses. Additionally, the corpus callosum contains commissural fibers, also known as transverse fibers, which are white matter structures that aid in connectivity. That being said the corpus callosum plays an extremely important role in the brain and consequently contributes to the pivotal role of the brain in the body.

Keywords: Communication, connectivity, commissural fiber

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