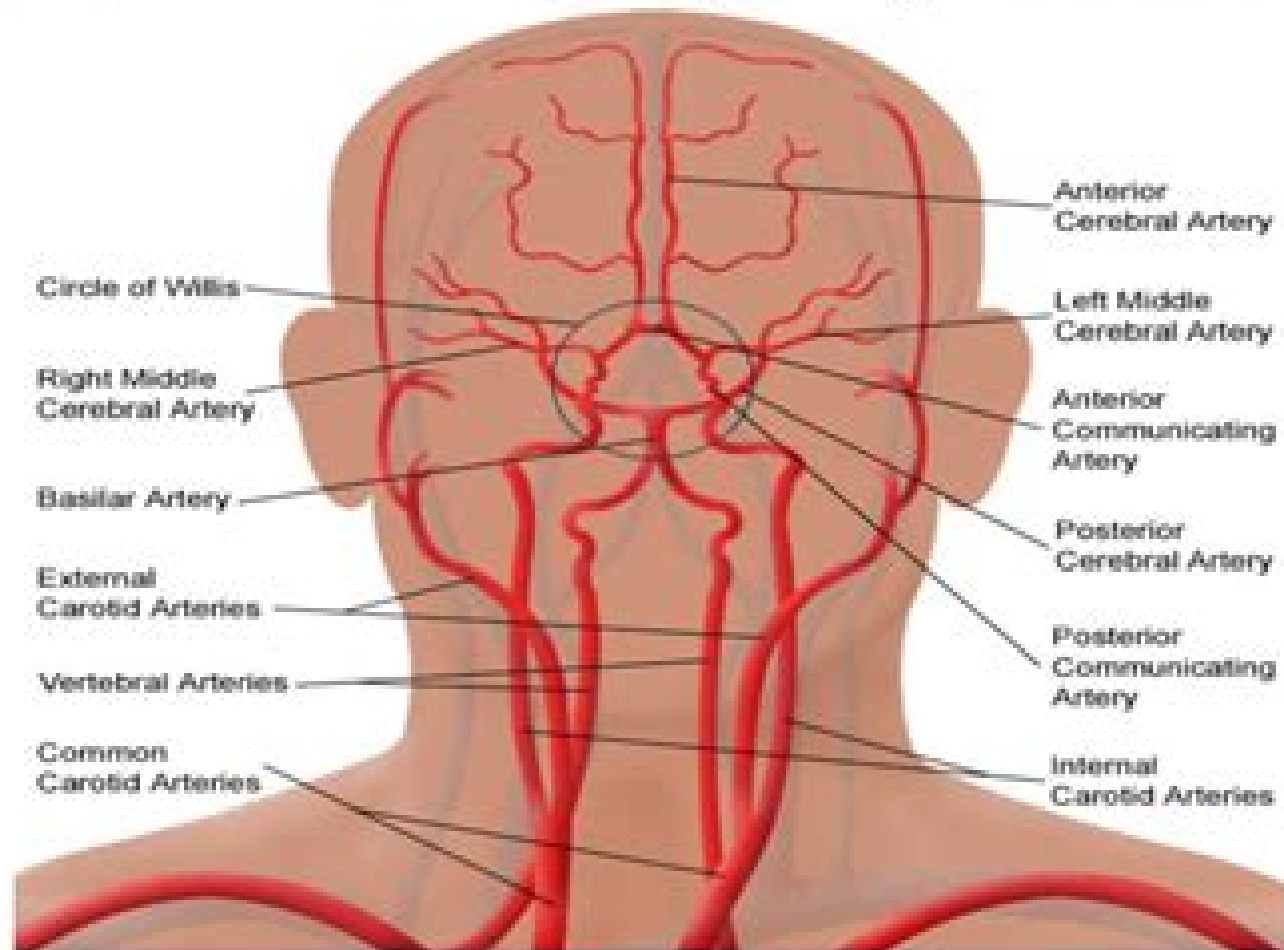


CEREBRAL CIRCULATION

Arterial Circulation of the Brain, Including Carotid Arteries



Physiology Of The Cerebral Circulation

Lingjun Ying



Physiology Of The Cerebral Circulation:

The Physiology of the Cerebral Circulation M. J. Purves,1972-05-25 *The Cerebral Circulation* Marilyn J. Cipolla,2010 This presentation describes structural and functional properties of the cerebral circulation that are unique to the brain an organ with high metabolic demands and the need for tight water and ion homeostasis Autoregulation is pronounced in the brain with myogenic metabolic and neurogenic mechanisms contributing to maintain relatively constant blood flow during both increases and decreases in pressure In addition unlike peripheral organs where the majority of vascular resistance resides in small arteries and arterioles large extracranial and intracranial arteries contribute significantly to vascular resistance in the brain The prominent role of large arteries in cerebrovascular resistance helps maintain blood flow and protect downstream vessels during changes in perfusion pressure The cerebral endothelium is also unique in that its barrier properties are in some way more like epithelium than endothelium in the periphery The cerebral endothelium known as the blood brain barrier has specialized tight junctions that do not allow ions to pass freely and has very low hydraulic conductivity and transcellular transport This special configuration modifies Starling s forces in the brain such that ions retained in the vascular lumen oppose water movement due to hydrostatic pressure Tight water regulation is necessary in the brain because it has limited capacity for expansion within the skull Increased intracranial pressure due to vasogenic edema can cause severe neurologic complications and death This chapter will review these special features of the cerebral circulation and how they contribute to the physiology of the brain Table of Contents Introduction Anatomy and Ultrastructure Perivascular Innervation Regulation of Cerebrovascular Tone Control of Cerebral Blood Flow Barriers of the CNS Summary References The Physiology and Pathology of the Cerebral Circulation Sir Leonard Hill,1896 The Physiology of Cerebral Circulation M. J. Purves,1972 The Physiological Mechanisms of Cerebral Blood Circulation Andreï Ivanovich Naumenko,N. N. Benua,1970 The Physiology and Pathology of the Cerebral Circulation Sir Leonard Hill,1896

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Problems in the Physiology of Intracranial Blood Circulation and Their Clinical Implications Alekseï

Alekseevich Kedrov, Andreï Ivanovich Naumenko, 1963
Erskine Hill, 2018-08-24

The Physiology and Pathology of the Cerebral Circulation; Leonard

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