
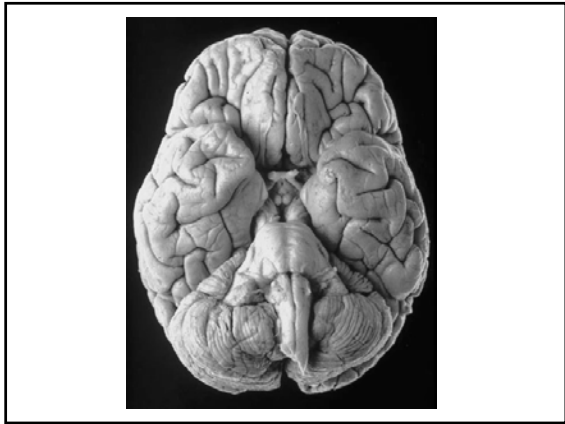
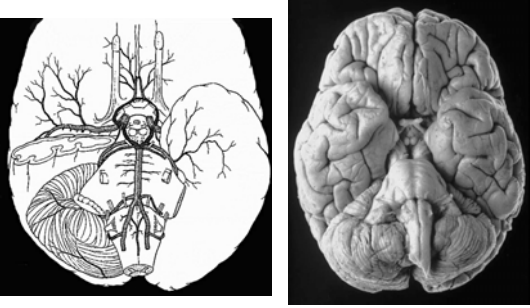


**Posterior System**  
 Vertebral  
 Ant. Spinal  
 PICA  
 Basilar  
 AICA  
 Sup Cerebellar  
 Post Cerebral  
 Post Communicating

**Anterior System**  
 Internal Carotid  
 Middle Cerebral  
 Anterior Cerebral  
 Ant Communicating


**Posterior System**

**Medulla:** Vertebral, Ant Spinal, PICA

**Pons:** Basilar, AICA, Sup Cerebellar

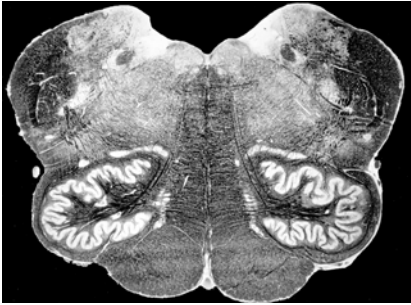
**Cerebellum:** PICA, AICA, Sup Cerebellar

**Midbrain:** Sup Cerebellar, Post Cerebral




**X 20**

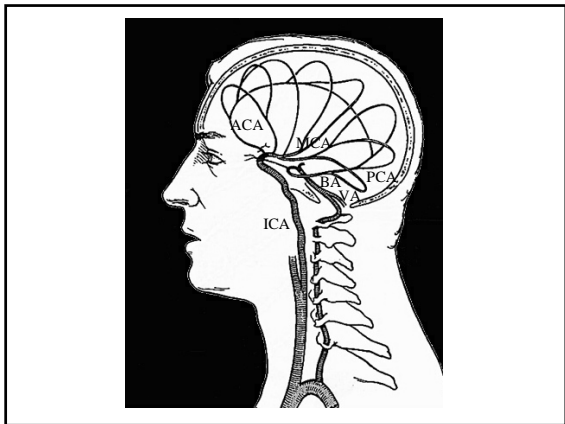
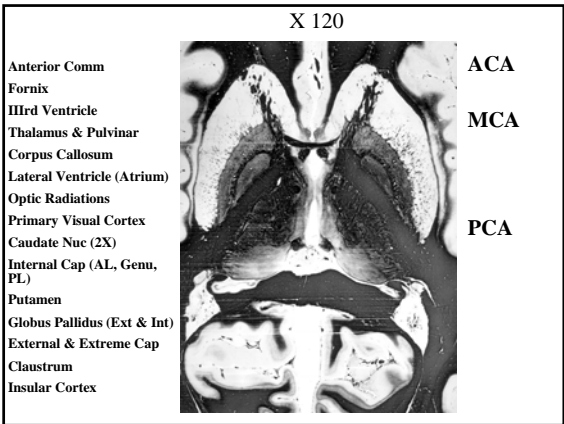
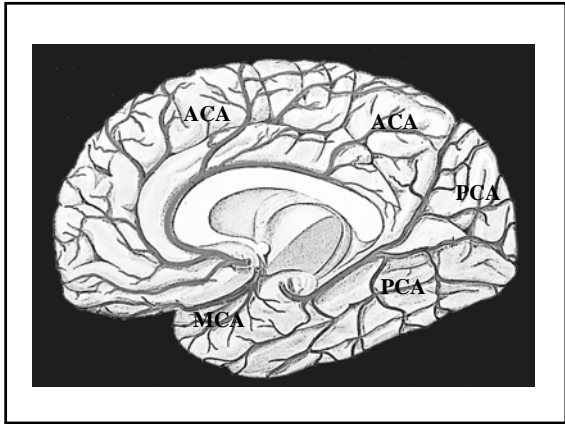
**Mid Medulla**  
 Pyramid  
 Medial Lemniscus  
 Inferior Olivary Nuc  
 Inf Cerebellar Ped  
 IVth Ventricle  
 Cranial Nerve Nuc  
 Reticular Form  
PICA & Vertebral



**X 30**

**Mid Pons**  
 Pontine Nuc  
 Corticospinal & Corticobulbar Tr  
 Medial Lemniscus  
 Reticular Formation  
 Facial Colliculus  
 Cranial Nerve Nuclei  
 IVth Ventricle  
 Cerebellum  
 Cerebellar Peduncles  
 Deep Cerebellar Nuclei  
Basilar & AICA

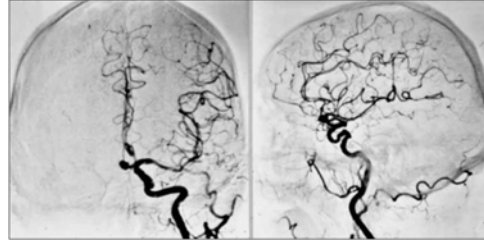




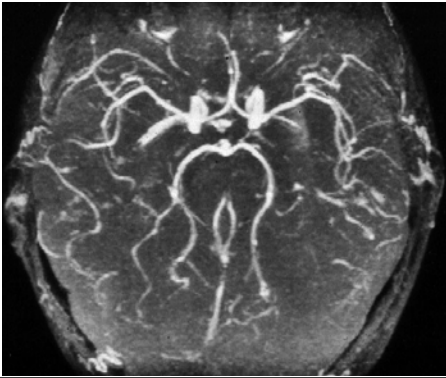
Posterior Circulation Angiogram



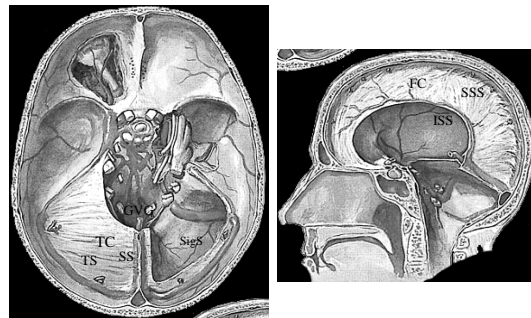
Anterior System



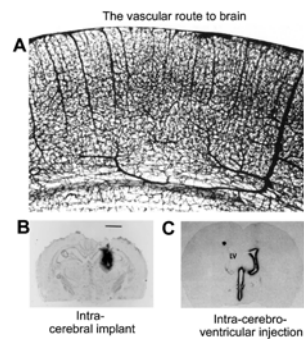
Magnetic Resonance Angiography



Cerebral Veins & Dural Sinuses

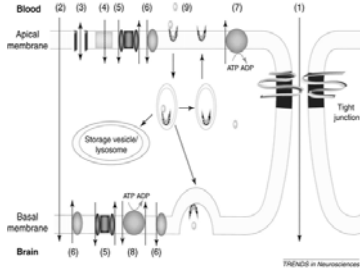


Blood-Brain Barrier is Major Impediment to Diffusion of Molecules

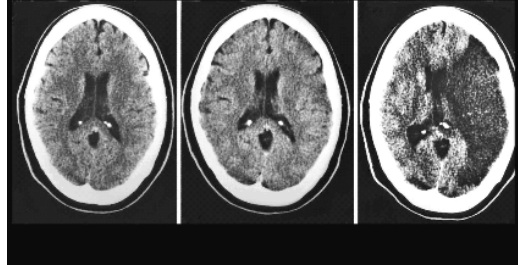


### Transport Mechanisms at the Blood-Brain Barrier

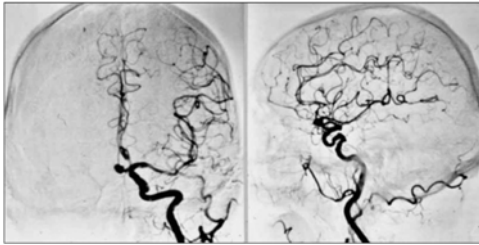
1. Paracellular Diffusion
2. Transcellular Diffusion
3. Cation Channels
4. Ion Symports
5. Ion Antiports
6. Facilitated Diffusion
7. Active Transport
8. Active Antiport Transport
9. Receptor-Mediated Endocytosis



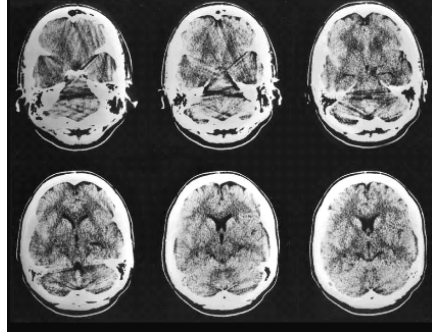
CC14\_7



### Anterior System



CC14\_1



CC14\_8

