

### Anatomy

#### Vascular supply of the brain

2 carotid arteries & 2 vertebral arteries --  
> merge to circle of willis --> pial arteries  
--> penetrating arteries --> penetrating  
arterioles --> intracerebral arterioles -->  
capillaries

#### Capillaries in brain

highly dense: 2500 - 3000 mm<sup>3</sup>, wall is 1  
endothelial cell

#### Blood brain barrier

Semi permeable border of endothelial  
cells

#### The neurovascular unit

#### Astrocytes

### Physiology

### Nutrient and metabolite transport

### Blood-CNS barriers & diseases

### Extra lecture info

#### Paul Ehrlich

Trypan Blue, Intravenous injection: Body  
stained, CNS unstained

#### E. Goldmann

Trypan Blue, Intravenous injection: Body  
stained, CNS unstained BUT intracere-  
broventricular: CNS stained, Body  
unstained

Anatomy of blood brain barrier confirmed as  
at level of capillaries

Electron microscopy, macromolecular  
tracers (e.g horseradish peroxidase)



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Page 1 of 1.

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