Förkortningar och normalvärden

* ICP = Intracraniellt tryck. <20mmHg
* CPP = Cerebralt perfusionstryck: CPP= MAP-ICP

Hålls konstant vid vid fungerande autoregulation ca 50-110mmHg

* MAP= Medelartärtryck =



* CMRO2= Cerebralmetabolism mätt i O2; Cerebral O2 consumption (ml/min)
* CBV= Cerebralblodvolym
* Hjärnan massa; ca 1.4 kg , 2% av kroppens massan 15-20% av syretillgången
* CBF= Cerebral bloodflow ; cerebraltblodflöde: 15% of the [cardiac output](https://en.wikipedia.org/wiki/Cardiac_output).

Ca 750 mL per minute.

Hypoxi är ca <20ml blod per 100g hjärnvävnad per minut

Blood flow through whole brain (adult) = 750-1000 ml/min

Blood flow through whole brain (adult) = 54 ml/100 g/min

Blood flow through whole brain (child) = 105 ml/100 g/min

Cerebral blood flow = 55 to 60 ml/100 g brain tissue/min

Cerebral blood flow (gray matter) = 75 ml/100 g brain tissue/min

Cerebral blood flow (white matter) = 45 ml/100 g brain tissue/min

(Rengachary, S.S. and Ellenbogen, R.G., editors, Principles of Neurosurgery, Edinburgh: Elsevier Mosby, 2005

* **Blood Flow and Metabolic Rate in a Normal Young Adult Man**

| **Function** | **Per 100 g of brain tissue** | **Per whole brain (1,400 g)** |
| --- | --- | --- |
| Cerebral blood flow (ml/min) | 57 | 798 |
| Cerebral O2 consumption (ml/min) | 3.5 | 49 |
| Cerebral glucose utilization (mg/min) | 5.5 | 77 |

* Based on data derived from Sokoloff