**Systems parameters:**
- Cerebral blood flow
- Barrier permeabilities
- Transporter/ enzyme function
- Volumes (intra-/ extracellular)
- Blood / tissue pH
- Capillary surface area
- Receptor density
- Signal transduction
- Homeostatic feedback

**Drug characteristics:**
- Molecular weight
- LogP / logD
- pKa / charge at pH 7.4
- PSA (polar surface area)
- H-bond donor / acceptor
- P-gp / MRP (etc) substrate
- Receptor affinity
- etc

**Pharmacodynamics**
- Target occupancy
- Efficacy

**Pharmacokinetics**
- Plasma kinetics
- Blood-Brain transport
- Intracerebral distribution

Condition dependent