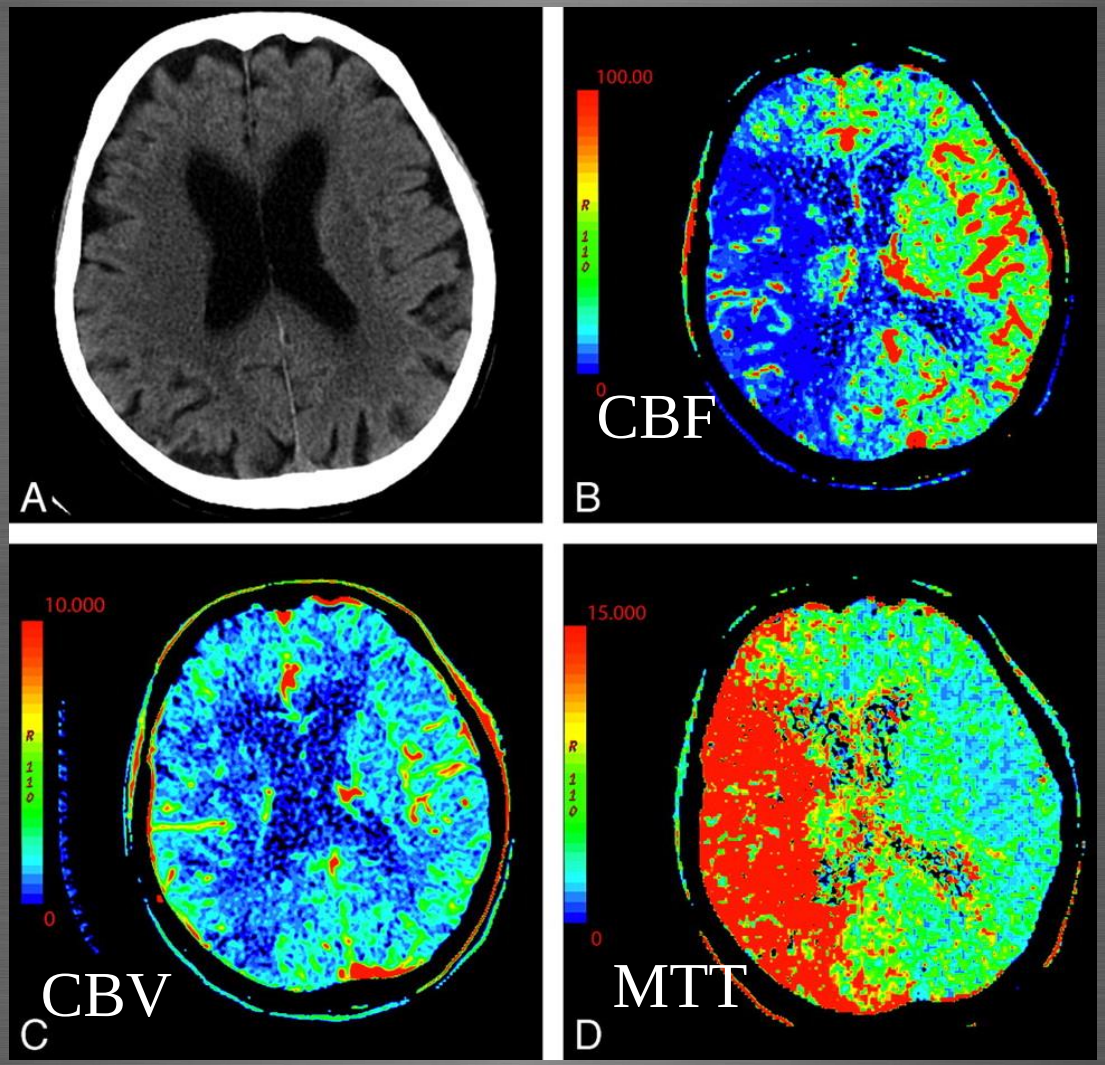
Infarct core

- The part of an acute ischemic stroke which has already infarcted, or is irrevocably destined to infarct regardless of reperfusion.
- It is also referred as established infarct and is in distinction from the penumbra which remains potentially salvageable.

Infarct

- Time to peak is ALWAYS prolonged
  - We use MTT and TTD, which are equivalent.
  - Look at MTT and TTD for defect (they are increased)
- CBF
  - Flow is usually prolonged, but not always.
  - Pressure and resistance adaptations may be so effective as to keep flow at or near baseline.
  - Ischemic penumbra will have only moderately decreases CBF and normal or even increased CBV due to autoregulation.
- CBV
  - Not as intuitive
  - Volume that's measured is NOT volume of blood, but rather volume of contrast bolus over defined measurement time.
  - Volume of blood in dead brain is high, but as the area has no inflow, no contrast gets in, and so **measured** volume is low.
- CBV = MTT = TTD = infarct

Right MCA Infarct
CBV = MTT (matched)



Basal ganglia infarct