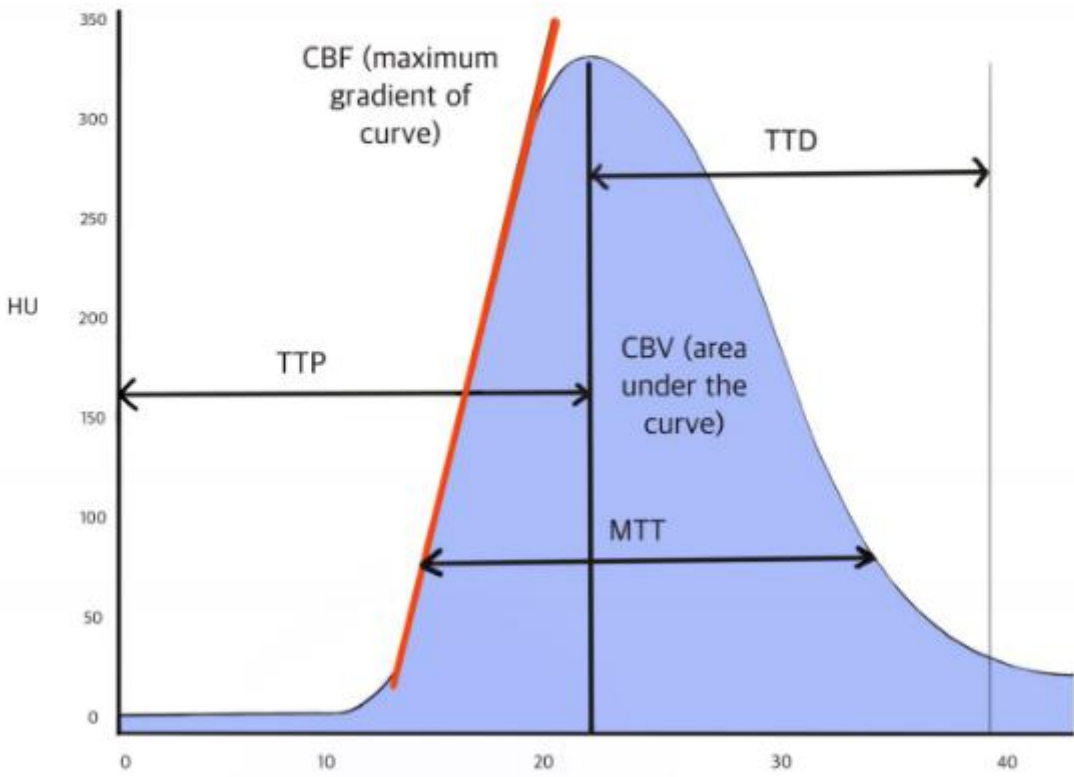


Time density curve



	Core	Penumbra
MTT/Tmax	↑	↑
CBF	↓↓	↓
CBV	↓↓	Normal or ↑

HU Hounsfield Units
 CBF Cerebral Blood Flow
 TTP Time to Peak
 MTT Mean Transit Time
 CBV Cerebral Blood Volume
 TTD Time to Drain

$$CBF = CBV / MTT$$

Case 1

CODE STROKE 7:30am

82 year old female, MRS 0. Lives with husband.

Found by husband at 7am this morning with dense weakness affecting left face, arm and leg. Associated with left homonymous hemianopia and neglect.

LKW 2300 when she went to bed

Diabetic and hypertensive, not on any antiplatelet/anticoagulants

BM.7.1, BP 160/90, HR 80, Afebrile.

Figure 1. Non contrast CT head scan and 3-D reconstruction CT-Angiogram

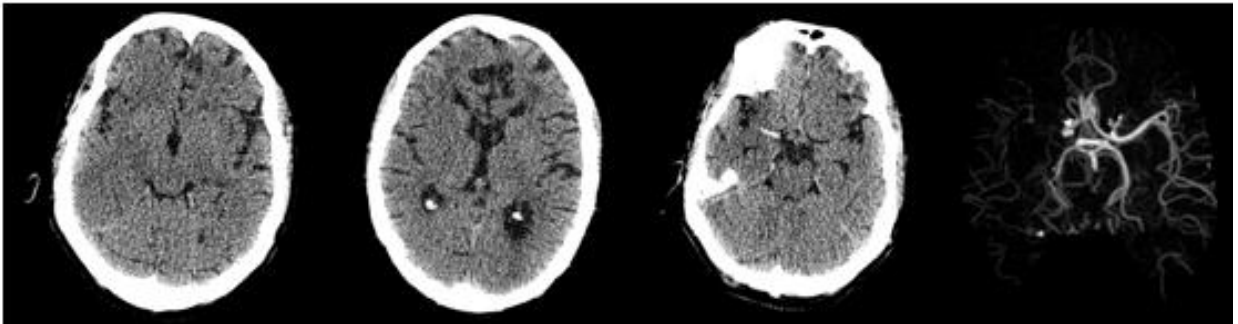


Figure 2. CT perfusion maps

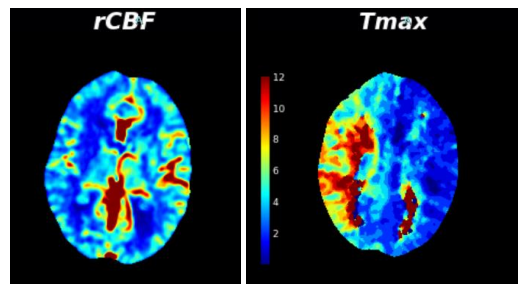
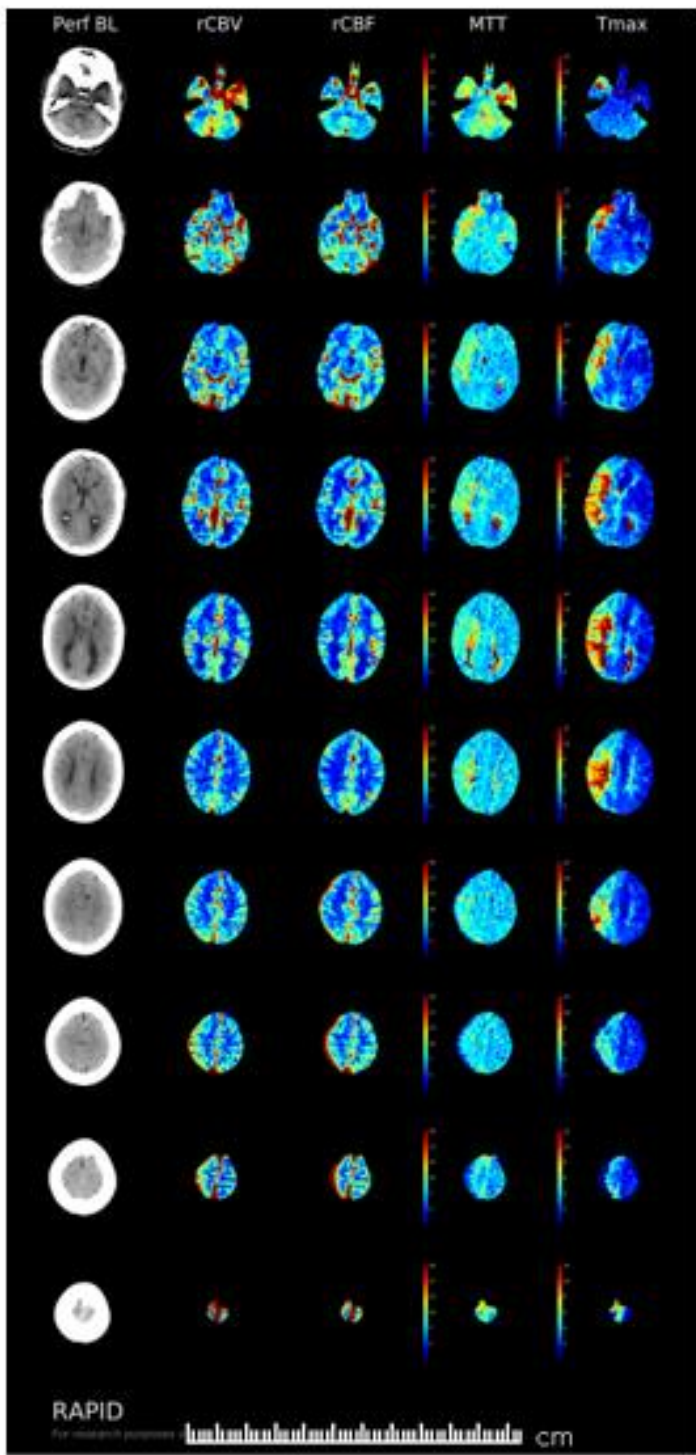
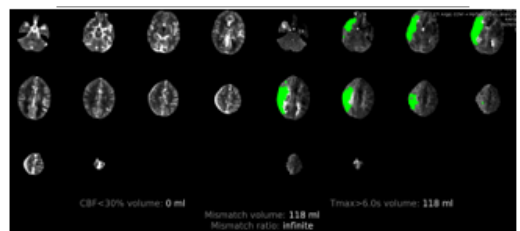


Figure 3. Automated perfusion maps



Case 2

CODE STROKE 8am

78 year old female, MRS O. Lives with husband.

Found by husband at 7am this morning with dense weakness affecting left face, arm and leg. Associated with left homonymous hemianopia and neglect

LKW 2230 when she went to bed

History of hypertension, not on any anticoagulants or blood thinners

BM 6.4, BP 170/90, HR 80, Afebrile.

Figure 4. Non contrast CT head scan and 3-D reconstruction CT-Angiogram

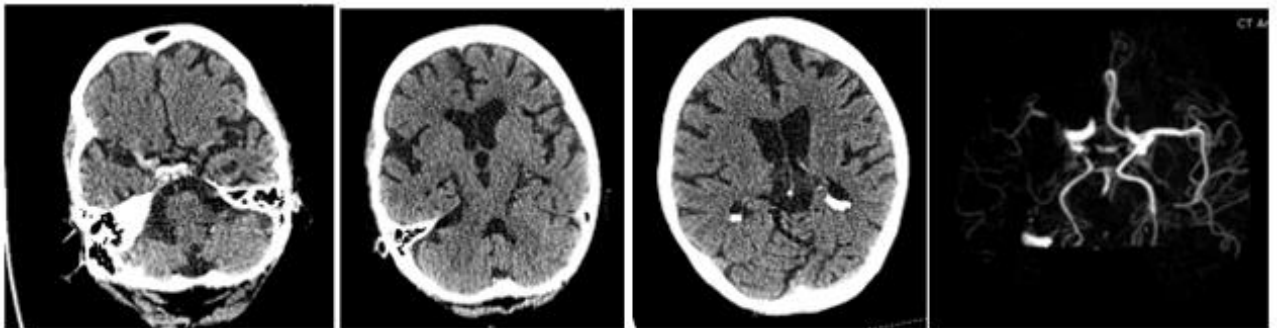


Figure 5. CT perfusion maps

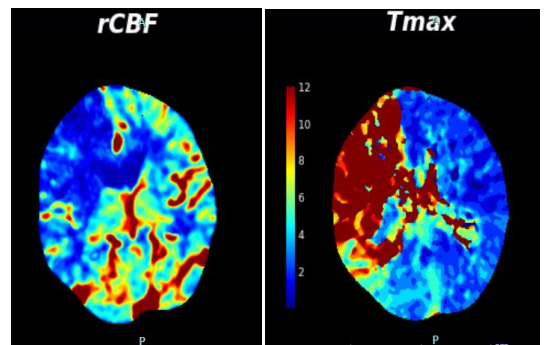
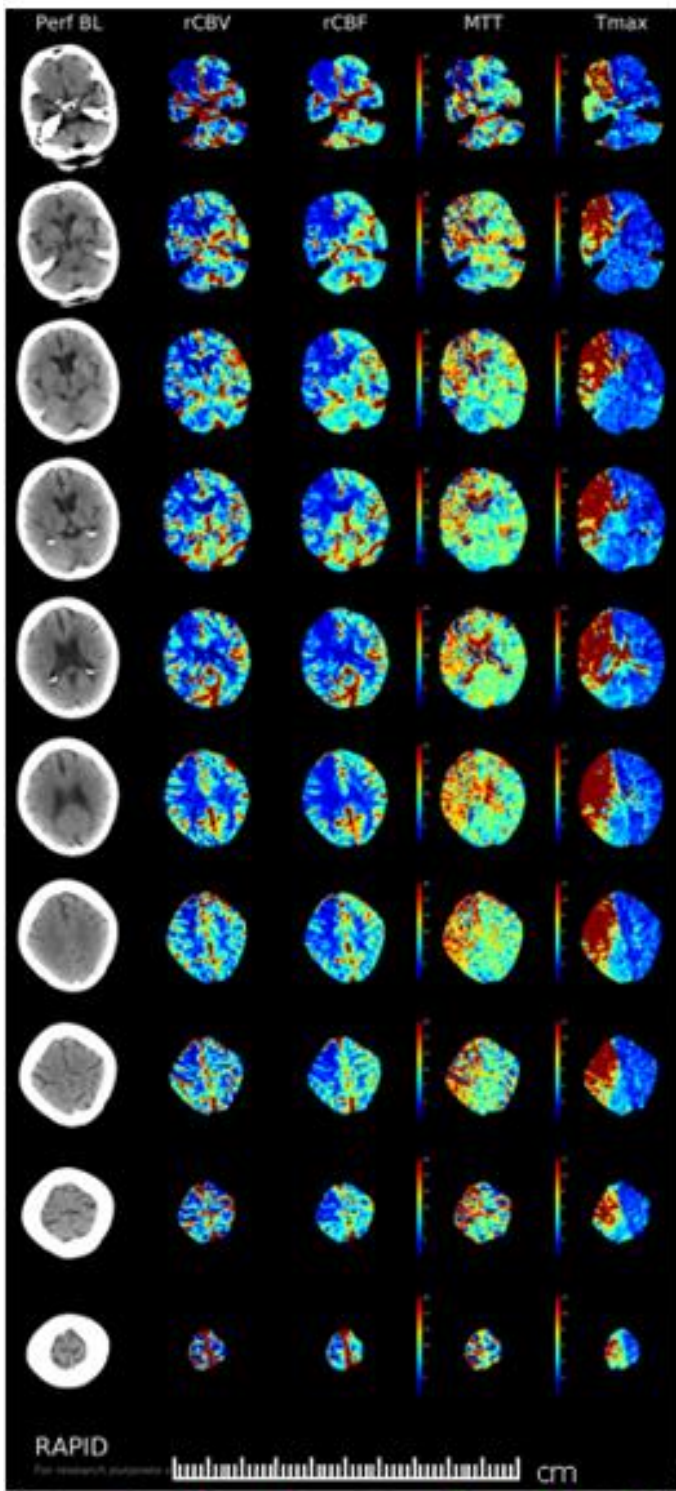


Figure 6. Automated perfusion maps

