

**Inclusion:**

1. Acute ischemic stroke
2. Diffusion/perfusion MRI performed within 12 hours after symptom onset.

**Exclusion:**

1. Inability to obtain informed consent from the patient or surrogate
2. Expected survival less than 5 days
3. Expected to undergo acute stroke intervention, e.g. hemicraniectomy or carotid endarterectomy/stent placement
4. Follow-up non-contrast MRI between day 5 and day 90 not possible for any reason (e.g. patient lives out of state, impending pacemaker placement)

**Note:** If an admission MRI scan has not been obtained and the patient meets other eligibility criteria, the patient may be consented for the acute DWI/PWI scan provided there is no contraindication for MRI, e.g. pacemaker, or for Gadolinium contrast injection, e.g. eGFR <60 or history of contrast allergy.