

Hemorrhage

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Hemorrhage is the presence of blood outside of a vessel, and may have a number of different causes. Some of the most common causes of hemorrhage in the brain are neoplasia and trauma. Patient presentation and symptoms will vary depending on the location and size of the hemorrhage. Unlike ischemic disease, patient with brain hemorrhage may progress to worse symptoms and outcomes due to swelling or continued bleeding, leading to an increase in intracranial pressure. When hemorrhage is present in the brain, it is defined by it's location and age:

Location Terms:

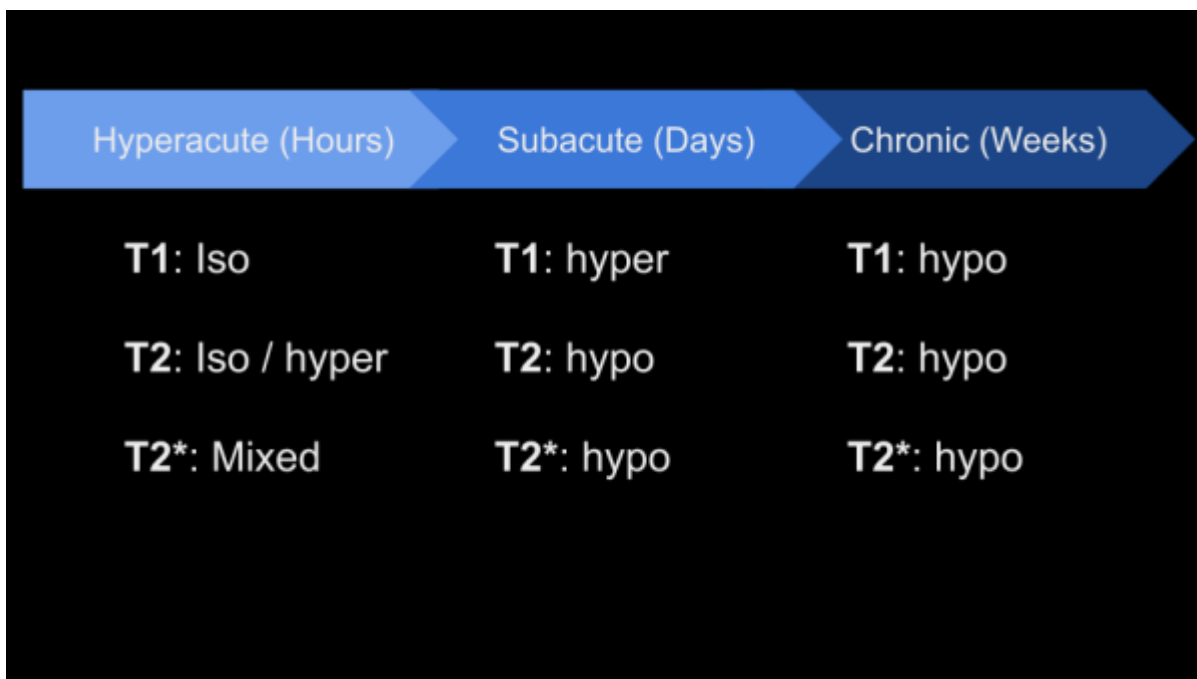
Extra axial (outside the brain)

- Epidural
- Subdural
- Subarachnoid
- Intraventricular

Intra axial (inside the brain tissue)

- May be inside or resulting from a tumor
- May evolve from an ischemic infarct

Hematoma Progression on T1, T2, and T2*:



Important Sequences for Identifying Hemorrhage

From:

<https://wiki.virtual-scan.com/> - **Knowledge Portal**

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Last update: **2026/05/01 14:03**

