

- **Clinical Presentation:** Seizures, headaches, focal neurological deficits, cognitive decline.
- **Imaging:**
 - MRI with contrast (gold standard).
 - Advanced techniques: perfusion, spectroscopy, DTI, fMRI.
- **Histopathology:**
 - Stereotactic biopsy or resection sample.
- **Molecular Classification (WHO 2021):**
 - IDH mutation status (IDH-mutant vs. IDH-wildtype).
 - 1p/19q codeletion (for oligodendrogliomas).
 - ATRX, TP53, MGMT methylation, EGFR amplification, TERT promoter mutation.

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