

Pathology Report: AUTOSEG005^BRAIN

Patient Name: AUTOSEG005^BRAIN

Date of Birth: 01/05/1970

Medical Record Number: MRN10000006

Date of Surgery: 03/20/2025

Date of Report: 03/25/2025

Clinical History

Patient presented with new-onset seizures and persistent headaches. Brain imaging revealed an irregular mass in the left frontal lobe.

Specimen

Brain tissue resection from the left frontal lobe.

Gross Description

Received as multiple irregular fragments aggregating to 5.0 cm in greatest dimension. The tissue shows areas of hemorrhage and necrosis with a tan-gray, friable mass.

Microscopic Description

Sections reveal a high-grade glial neoplasm characterized by marked cellular pleomorphism, pseudopalisading necrosis, and microvascular proliferation. These features are diagnostic of glioblastoma.

Immunohistochemistry

- GFAP: Positive
- IDH1: Negative
- Ki-67: 40%

Diagnosis

Brain tissue resection:

- Glioblastoma, IDH-wildtype (WHO Grade IV)

Comments

Due to the infiltrative nature of the lesion, tumor margins are not applicable. Recommend further management in a neuro-oncology setting.

Pathologist: Dr. Susan Lee, MD

Electronic Signature: Susan Lee, MD

Date Signed: 03/25/2025