



Department of Pathology and Laboratory Medicine

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Laboratory Director: Mahul B. Amin, M.D.

CLIA # 05D0541033

**Patient:**

Hospital No:

Date of Birth:

Age/Sex:

Location: 8-NE 8017

Pathologist: Serguei I. Bannykh, M.D.

Assistant:

Date of Procedure: 1/20/2014

Date Received: 1/21/2014

**Accession Number:**

Ordering M.D.:

CHIRAG G PATIL

Copies To:

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**SURGICAL PATHOLOGY REPORT**

**DIAGNOSIS:**

**A. BRAIN, RIGHT FRONTAL, BIOPSY #1:**

- Glioblastoma multiforme, WHO grade IV, densely cellular, 1% of tumor necrosis

**B. BRAIN, RIGHT FRONTAL, BIOPSY #2:**

- Glioblastoma multiforme, WHO grade IV, densely cellular, 5% of tumor necrosis

**C. BRAIN, RIGHT FRONTAL, BIOPSY #3:**

- Cortex (30%) and white matter (70%) with minimal infiltration by tumor nuclei

**D. BRAIN, RIGHT FRONTAL, BIOPSY #4:**

- Glioblastoma multiforme, WHO grade IV, densely cellular, 0.5% of tumor necrosis

**E. BRAIN, RIGHT FRONTAL, BIOPSY #5:**

- Glioblastoma multiforme, minimal to moderate cellularity, 0% of tumor necrosis

**F. BRAIN, RIGHT FRONTAL, BIOPSY #6:**

- Glioblastoma multiforme, moderately cellular, 0% of tumor necrosis

**G. BRAIN, RIGHT FRONTAL, EXCISIONAL BIOPSY:**

- Glioblastoma multiforme, WHO grade IV

**HISTORY:**

Malignant neoplasm of brain, unspecified site

**MICROSCOPIC FINDINGS:**

Sections reveal predominantly viable densely cellular glioblastoma multiforme with up to 10% of cells within the biopsy being inflammatory cells and macrophages. The tumor demonstrates high mitotic activity and shows florid endothelial proliferation and some necrosis.

**IMMUNOHISTOCHEMISTRY:**

Study / Test (Clon)	Block	Result
cMYC	G4	Up to 10% of tumor nuclei positive (1+)
OLIG2	G4	Up to 90% of tumor nuclei positive
MGMT	G4	Up to 20% of tumor nuclei positive (1+)
IDH1 R132H mutant	G4	100% of tumor cells are positive.
CD3	G4	Less than 0.5 % of tissue cellularity are T-cells
CD163	G4	Up to 5% of tissue cellularity are macrophages

Patient Case(s):

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# CEDARS SINAI MEDICAL CENTER

PATIENT:

ACCESSION #:

TIA	G4	Less than 0.01% of tissue cellularity are positive cells
CD8	G4	Up to 1% of tissue cellularity are CD8 positive T-cells
CD4	G4	Up to 5% of tissue cellularity are CD4 positive T-cells

\*These studies were interpreted in conjunction with appropriate positive and negative controls which demonstrated the expected positive and negative reactivity.

## GROSS:

### A. BIOPSY 1

Labeled \_\_\_\_\_, designated "biopsy 1", and received in formalin is a 1.2 x 0.4 x 0.2 cm irregular portion of soft pale tan-yellow tissue. Entirely submitted. Slide key:  
A1. 1

### B. BIOPSY 2

Labeled \_\_\_\_\_, designated "biopsy 2", and received in formalin is a 1.1 x 0.4 x 0.2 cm irregular portion of soft pink-gray tissue with focal areas of hemorrhage. Entirely submitted. Slide key:  
B1. 1

### C. BIOPSY 3

Labeled \_\_\_\_\_, designated "biopsy 3", and received in formalin is a 0.9 x 0.6 x 0.2 cm irregular portion of soft pale tan-gray tissue with pinpoint areas of hemorrhage. Entirely submitted. Slide key:  
C1. 1

### D. BIOPSY 4

Labeled \_\_\_\_\_, designated "biopsy 4", and received in formalin is a 0.6 x 0.4 x 0.2 cm irregular portion of soft pale tan tissue with pinpoint areas of hemorrhage. Entirely submitted. Slide key:  
D1. 1

### E. BIOPSY 5

Labeled \_\_\_\_\_, designated "biopsy 5", and received in formalin is a 0.5 x 0.3 x 0.2 cm irregular portion of soft pale tan tissue with pinpoint areas of hemorrhage. Entirely submitted. Slide key:  
E1. 1

### F. BIOPSY 6

Labeled \_\_\_\_\_, designated "biopsy 6", and received in formalin is a 0.8 x 0.3 x 0.2 cm irregular portion of soft pale tan tissue. Entirely submitted. Slide key:  
F1. 1

### G. RIGHT FRONTAL TUMOR

Labeled \_\_\_\_\_, designated "right frontal tumor", and received in formalin is a 4.4 x 3.6 x 1.3 cm aggregate of soft pale tan-gray focally necrotic tissue with areas of congestion. Serially sectioned and entirely submitted. Slide key:  
G1-G5. 3 each  
G6, G7. 2 each

Gross dictated by Jocelyn Brown, PA (ASCP):plh/J#2943625

1/21/2014

mrs/1/22/2014 (2946387)

I have personally examined the specimen, interpreted the results, reviewed the report and signed it electronically.  
Serguei I. Bannykh, M.D. Electronically signed 1/23/2014 11:14:06AM

## SURGICAL PATHOLOGY REPORT

*If this report includes immunohistochemical test results, please note the following: Numerous immunohistochemical tests were developed and their performance characteristics determined by Cedars-Sinai Medical Center Department of Pathology and Laboratory Medicine. Those immunohistochemical tests have not been cleared or approved by the U.S. Food and Drug Administration (FDA), and FDA approval is not required.*