

7316-405

**ADDENDUM**

Addendum #1

The DNA from this specimen was analyzed by high resolution SNP array. There were no pathogenic abnormalities observed. Given the reported diagnosis of anaplastic ependymoma, it is possible that the piece of tumor analyzed did not contain sufficient tumor to yield an informative result.

Addendum Signed \_\_\_\_\_ (signature on file) \_\_\_\_\_

**FINAL DIAGNOSIS**

**ANAPLASTIC EPENDYMOMA**

**SYNOPTIC REPORT**

History:

Episode of unresponsiveness

Specimen type/procedure:

Partial resection

Specimen handling:

Frozen and permanent section

Specimen size:

About 2 x 2 x 1 cm

*Ependymoma  
cerebellum*

*Blood  
Tissue*

**SYNOPTIC REPORT**

(Continued)

Laterality:  
Right

Tumor site:  
Cerebello-pontine angle

Histologic type and grade:  
Anaplastic ependymoma  
WHO grade 3

Ancillary studies:  
Immunohistochemistry: GFAP, vimentin, EMA, Ki67  
Cytogenetics

**MEDICAL HISTORY**

DOCTOR'S NAME: [REDACTED]  
PRE-OP DX: POSTERIOR FOSSA TUMOR  
POST-OP DX: SAA  
PROCEDURE: SUBOCCIPITAL CRANIOTOMY FOR BRAIN TUMOR RESECTION  
HISTORY: 16 MONTH OLD FEMALE WITH AN EPISODE OF UNRESPONSIVENESS ON  
[REDACTED] CT FOUND RIGHT CEREBELLOPONTINE MASS.

**TISSUES**

. BRAIN, NOS - BRAIN TUMOR, B. BRAIN, NOS, C. BRAIN, NOS

**GROSS DESCRIPTION**

A. The specimen is received fresh for frozen section in a container labeled with the patient's name, medical record [REDACTED] number and designated "brain tumor". The specimen consists of multiple irregular fragments of red tan soft tissue and blood clot with an aggregate measurement of 0.5 0.7 x 0.3 cm. A representative section is submitted for frozen section. The frozen section is submitted for cytogenetic studies. The remaining tissue is entirely submitted in one cassette.

B. The specimen is received fresh in a container labeled with the patient's name, medical record number [REDACTED] and designated "brain tumor". The specimen consists of multiple irregular fragments of red-tan soft tissue ranging from 0.3 x 0.2 x 0.1 cm up to 1 x 0.5 x 0.3 cm. Representative sections of soft tissue and two blood samples are submitted according to the "CBBTC" protocol. The remaining tissue is entirely submitted in one cassette.

C. The specimen is received fresh in a container labeled with the patient's name, medical record number [REDACTED] and designated "brain tumor". Specimen

**GROSS DESCRIPTION**

(Continued)

consists of an aggregate of multiple irregular fragments of pink-tan soft, gelatinous tissue 0.7 x 0.7 x 0.3 cm. The specimen is entirely submitted in one cassette.

**FROZEN SECTION DIAGNOSIS**

EPENDYMOMA

**MICROSCOPIC DESCRIPTION**

A,B,C. Specimen consists of fragments of tumor and blood. The tumor is composed of ependymal cells that are growing in sheets in some places and forming pseudo-rosettes in other areas. Those tumor cells forming sheets are densely packed and have pleomorphic nuclei whereas those forming the pseudo-rosettes have a more mature appearance and a lighter chromatin pattern. In some regions cells are more separated from each other and presence of multiple tiny red intracytoplasmic granules are prominent. Calcific deposits are present.

There is some neovascularization and large fields of necrosis. The center of one such necrotic field contains a nest of spindle cells exhibiting prominent mitotic activity.

Results of immunoperoxidase studies are as follows:

vimentin: 4+ expression in tumor and field of spindle cells

GFAP: 4+ in tumor but no expression in field of spindle cells

EMA: 4+ dot expression in many tumor cells

Ki67: variable from field to field but up to 40% of cells in proliferative phase

Signed \_\_\_\_\_ (signature on file) \_\_\_\_\_