

Effective Date:

April 25, 2025

Supersedes:

September 28, 2007

Related Documents:

BRAIN RESECTION - NON-TUMOR

RA.SP.PR.GR.CN.01.r01

I. Purpose

To provide a procedure for the dissection of a resected portion of brain for a non-tumor condition, including for epilepsy/seizure.

II. Principle

To take histologic sections to demonstrate the pathologic process so that a diagnosis can be made microscopically by a Pathologist.

III. Equipment

- 1. Ruler
- 2. Forceps
- 3. Scalpel

IV. Special Safety Precautions

- 1. **PPE** should be worn.
- 2. FORMALIN is a known carcinogen.

V. Supplies and Reagents

1. 10% NEUTRAL BUFFERED FORMALIN (pH range 6.9-7.2)

VI. Quality Control

All remaining tissue should be retained.

VII. Limitations/Notes

The following may influence the validity of test results:

- 1. The specimen should be fixed in formalin.
- 2. For optimal results, the specimen should be fixed overnight.

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VIII. Procedure

- 1. Measure the specimen as a whole or an aggregate (3 dimensions-cm.)
- 2. Describe the color and consistency of the tissue.
- 3. If the specimen (usually hippocampus) is received for seizure/epilepsy, great care should be taken to section in the correct plane. The neuropathologist should be called on these cases for orientation.
- 4. Serially section the larger portions of tissue and describe the cut surfaces.
- 5. If the specimen can be submitted in 5 cassettes or less, submit it entirely. Split the tissue into at least 2 cassettes.
- **6.** If the specimen is larger, submit 5 representative sections. Include all components of the aggregate.
- 7. Load the cassettes on the appropriate large tissue processor to allow for adequate fixation.

IX. References

- 1. Hruban RH, Westra, WH, Phelps, PH, & Isacson, C: Surgical Pathology Dissection An Illustrated Guide, New York, NY, Springer-Verlag Inc., 1996.
- 2. Lester, SC: Manual of Surgical Pathology, New York, NY, Churchill Livingstone, 2001.

X. Authorized Reviewers

- 1. Medical Director, Anatomic Pathology
- 2. Chief, Surgical Pathology

XI. Document Control

Location of Master: Master electronic file stored on the Beaumont Laboratory server under S:\AP Grossing Manual

Number of Controlled Copies posted for educational purposes: 0

Number of circulating Controlled Copies: 1

Location of circulating Controlled Copies: Master Grossing Manual located in Surgical

Pathology

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BRAIN RESECTION – NON-TUMOR

Document History

		Revision #		Related
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Signature	Date	Re		Reviewed/
Prepared by: Anne Tranchida PA(ASCP)	9/28/2007	r00		Updated
Approved by: Ali-Reza Armin, MD	11/28/2007	r00		
representation results from the second secon	11/20/2007	100		
		Revision #		Related
		vis #		Documents
Reviewed by: (Signature)	Date	Re	Modification	Reviewed/ Updated
Anne R. Tranchida, PA(ASCP)	10/20/2009	r00		Opulicu
Ali-Reza Armin,MD	10/20/2011	r00		
Ali-Reza Armin,MD	4/3/2013	r00		
Mitual B. Amin,MD	2/14/2015	r00		· · · · · · · · · · · · · · · · · · ·
Zhenhong H. Qu, MD	3/14/2015	r00		
Kurt Bernacki, MD	10/27/2017	r00		
Kurt Bernacki, MD	10/22/2019	r00		_
Kurt Bernacki, MD	10/20/2021	r00		
Jawwad Arshad, MD	3/20/2023	r00		
Revised by: Heather Genson,		r01	Added details for	
HTL(ASCP) ^{CM} PA ^{CM}	./ ./ .		seizure/epilepsy specimens	
Heather Genson	4/25/25			
Approved by:		r01		
Approved by: M. Januard Arsharlmo	4/25/25			
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