Corewell Health
East Laboratory

Effective Date: March 7, 2025
Supersedes: December 2, 2016
Related Documents:

LIVER CORE BIOPSY

RA.SP.PR.GR.BX.11.r03

I.   Purpose
To provide a procedure for the gross examination of a liver core biopsy specimen (including cores received for mass and medical liver biopsies).

II.   Principle
To submit all tissue cores so that a diagnosis can be made microscopically by a pathologist.

III.   Equipment
  1. Ruler
  2. Forceps
  3. Lens paper

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)
  2. **Hematoxylin**

VI.   Quality Control
All tissue should be submitted.

VII.   Limitations/Notes
The following may influence the validity of test results:
  1. The specimen should be fixed in formalin.

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VIII. Procedure
1. The specimen will arrive in a jar of formalin.
2. Using forceps, carefully remove all cores from the container.
3. Dictate the number, the size range (smallest length to largest length in cm.), the color, and the consistency of the cores.
4. Submit all cores by wrapping them in lens paper (preferred) or filtering in biopsy bags.
5. Ink all cores with hematoxylin.
6. If a mass is suspected, divide the largest cores into a maximum of 5 blocks. Add any extra cores to the existing 5 blocks, evenly. Serial sections X4 should be ordered on all 5 blocks (sections 1 and 4 should be stained with H&E while sections 2 and 3 should be left unstained on plus slides for possible immuno studies).
7. For all other liver biopsies (i.e. medical liver biopsies) not suspicious for mass, submit entirely with no more than two cores per block. Evenly distribute the cores, making sure the largest core is in the first block. A masson trichrome and PAS with Digestion should be ordered on the first block and an H&E on any additional blocks. Please note: the masson trichrome and PAS-D should be ordered on only one block per case, not per part.
8. The cassette or cassettes should be loaded on the appropriate processor as to allow at least 6 hours of 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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COREWELL HEALTH EAST LABORATORY
DATE: 3/7/2025 RA.SP.PR.GR.BX.11.r03

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Document History

Signature	Date	Revision #		Related Documents Reviewed/ Updated
Prepared by: *Anne Tranchida PA(ASCP)*	9/18/2007	**r00**		
Approved by: *Ali-Reza Armin, MD*	12/5/2007	**r00**		

Reviewed by: (Signature)	Date	Revision #	Modification	Related Documents Reviewed/ Updated
Ali-Reza Armin, MD	12/10/2008	**r00**		
Anne Tranchida PA(ASCP)	10/20/2009	**r00**		
Revised by: *Heather Genson, HTL(ASCP)^{CM}PA^{CM}*	4/19/2011	**r01**	Removed NASH and Hepatitis protocols. Changed to SSx10.	
Approved by: *Ali-Reza Armin, MD*	4/19/2011	**r01**		
Ali-Reza Armin, MD	10/20/2011	**r01**		
Ali-Reza Armin, MD	4/2/2013	**r01**		
Mitual B. Amin, MD	2/14/2015	**r01**		
Zhenhong H. Qu, MD	3/12/2015	**r01**		
Revised by: *Heather Genson, HTL(ASCP)^{CM}PA^{CM}*	12/2/2016	**r02**	Changed to serial sections x4. One core per block with 5 block max for suspected mass	
Approved by: *Zhenhong H. Qu, MD*	12/2/2016	**r02**		
Kurt Bernacki, MD	10/27/2017	**r02**		
Kurt Bernacki, MD	10/22/2019	**r02**		
Kurt Bernacki, MD	10/20/2021	**r02**		
Jawwad Arshad, MD	3/20/2023	**r02**		
Revised by: *Heather Genson, HTL(ASCP)^{CM}PA^{CM}*	3/7/2025	**r03**	For medical liver bxs, special stains on only the 1st block	
Approved by:	3/7/25	**r03**		

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