

PROCEDURE Corewell Health East - Cytology Rapid Staining Grosse Pointe, Dearborn, Troy & Farmington Hills

This Procedure is Applicable to the following Corewell Health sites:

Corewell Health Beaumont Grosse Pointe Hospital, Corewell Health Beaumont Troy Hospital, Corewell Health Dearborn Hospital, Corewell Health Farmington Hills Hospital

Applicability Limited to: N/A

Reference #: 34590

Version #: 2

Effective Date: 10/09/2025

Functional Area: Clinical Operations, Laboratory

Lab Department Area: Lab - Cytology

1. Principle

The purpose of this document is to provide staff with the hand staining procedure for Rapid On-Site Evaluation (ROSE) fine needle aspiration specimens.

2. Reagent/Equipment Needed

DIFF QUIK STAIN:

- A. The Diff Quik air-dried stain is used to stain cells to differentiate the cell nucleus and cytoplasm for microscopic evaluation.
- B. Equipment and Supplies
 - 1. 1 slide rack
 - 2. 3 staining dish unit
 - 3. Lids for the 3 staining dish unit
 - 4. 1 staining dish
 - 5. Chemical resistant gown and goggles
 - 6. Non-latex gloves
 - 7. Fisher Protocol Hema 3 Fixative Solution
 - 8. Fisher Protocol Hema 3 Solution I
 - 9. Fisher Protocol Hema 3 Solution II
- C. Procedure
 - 1. Smears must be completely dry
 - 2. Place air dried slides in hand staining rack
 - 3. Follow staining steps
 - a. Hema 3 Fixative Solution 10 dips
 - b. Hema 3 Solution I 10 dips
 - c. Hema 3 Solution II 10 dips
 - d. Deionized Water 10 dips
 - e. Allow smears to air dry completely
 - 4. Note: Fresh reagents are used for each case.

Entities will reference associated Documentation contained within this document as applicable Printouts of this document may be out of date and should be considered uncontrolled.



5. Slides are coverslipped after being transported back to the lab.

PAPANICOLAOU STAIN (Grosse Pointe and Dearborn:

- D. The Papanicolaou stain is used to stain cells to differentiate the cell nucleus and cytoplasm for microscopic evaluation. It is used for non-gynecologic specimens that have a high potential for cross contamination and most fine needle aspiration specimens.
- E. Equipment and Supplies
 - 1. 1 slide rack
 - 2. 1 staining dish with lid
 - 3. 12 staining dish unit with lids
 - 4. Chemical resistant gown and goggles
 - 5. Non-latex gloves
 - 6. 95% Ethyl Alcohol Fisher brand
 - 7. Hematoxylin Surgipath Select Tech
 - 8. Bluing Agent Surgipath Select Tech
 - 9. Cyto-Stain Richard-Allen Scientific
 - 10. 100% Ethyl Alcohol Fisher brand
 - 11. Xylene Fisher brand / Pro-Par Clearant Anatech)

F. Procedure

- 1. Follow staining steps
 - a. Place smear slide directly into 95% Ethyl Alcohol
 - b. Deionized water 20 dips
 - c. Hematoxylin 30 dips
 - d. Deionized Water 20 dips
 - e. Deionized Water 20 dips
 - f. Bluing Agent 20 dips
 - g. Deionized Water 20 dips
 - h. 95% Ethyl Alcohol 20 dips
 - i. Cyto-Stain 20 dips
 - j. 95% Ethyl Alcohol 20 dips
 - k. 100% Ethyl Alcohol 20 dips
 - I. 100% Ethyl Alcohol 20 dips
 - m. Xylene (Grosse Pointe) / Pro-Par Clearant (Dearborn) 20 dips
 - n. Coverslip the slide
- 2. Note: Fresh reagents are used for each case.

4. Revisions

Corewell Health reserves the right to alter, amend, modify or eliminate this document at any time without prior written notice.

5. Procedure Development and Approval

Document Owner:

Leisa Haughney (Clinical Policy Program Analyst)

Writer(s):

Heidi Nehra (Anatomic Pathology Tech Coord)

Reviewer(s)

Latoya Brown (Anatomic Pathology Tech Coord), Ryan Koponen (Anatomic Pathology Tech Coord), Shanno Griffin (Anatomic Pathology Tech Coord)

Approver:

Entities will reference associated Documentation contained within this document as applicable Printouts of this document may be out of date and should be considered uncontrolled.

Effective Date: 10/09/2025



Amy Knaus (Dir, Pathology Service Line), Christopher Ferguson (Dir, Laboratory Services), Donna Cary (Mgr, Division Laboratory), Elzbieta Wystepek (Dir, Laboratory Services), Hassan Kanaan (OUWB Clinical Faculty), Jeremy Powers (Chief, Pathology), Jining Feng (Sys Med Dir, Cytopathology), John Pui (Chief, Pathology), Masood Siddiqui (Staff Pathologist), Sarah Britton (VP, Laboratory Svcs), Theresa Ross (Supv, Laboratory)

6. Keywords

CYP.04100, CYP.04150, CYP.07685

Entities will reference associated Documentation contained within this document as applicable Printouts of this document may be out of date and should be considered uncontrolled.

Effective Date: 10/09/2025