



| Tissue and Fluid Specimens for Pathology and Lab | | | | |
|---|--|--|---------------------------------|--|
| RML Gross Room (918)-744-2500 x15992 | | | | |
| RML Cytology (918)-744-2500 x15582 | | | | |
| RML Microbiology (918)-744-2500 x15573 | | | | |
| SPECIMEN TYPE | TEST TO BE DONE | CONTAINER | PRESERVATIVE | SPECIAL INSTRUCTIONS |
| Cytology (Always note total specimen volume and description on cytology requisition) | | | | |
| BAL | Cytology | Luki tube | Fresh - No Fixative | Refrigerate until courier pick-up |
| Bronchial Wash | Cytology | Luki tube | Fresh - No Fixative | Refrigerate until courier pick-up |
| Bronchial Brush | Cytology | Plastic slide holder | * Cover slides with 95% alcohol | Place brush in small container and cover with * CytoRich Clear |
| Breast Fluid | Cytology | Urine cup or syringe | Fresh - No Fixative | Refrigerate until courier pick-up |
| CSF | Cytology | CSF screw top tubes | Fresh - No Fixative | Refrigerate until courier pick-up |
| Ascites Fluid | Cytology | Pint plastic or cup | Fresh - No Fixative | Refrigerate until courier pick-up |
| Pericardial Fluid | Cytology | Pint plastic or cup | Fresh - No Fixative | Refrigerate until courier pick-up |
| Pleural / Thoracentesis Fluid | Cytology | Pint plastic or cup | Fresh - No Fixative | Refrigerate until courier pick-up |
| Sputums | Cytology | Sputum cup | Fresh - No Fixative | Refrigerate until courier pick-up |
| Urine | Cytology | Urine cup | Fresh - No Fixative | Refrigerate until courier pick-up |
| Bladder Wash | Cytology | Urine cup | Fresh - No Fixative | Refrigerate until courier pick-up |
| Ureter Wash | Cytology | Urine cup | Fresh - No Fixative | Refrigerate until courier pick-up |
| Fine Needle Aspirations | Cytology | See attached procedure for Fine Needle Aspirations | | |
| Thyroid Aspirate | Cytology | Fine Needle Kit and air dried smears | CytoRich Clear | Slides should be placed in 95% alcohol or air dried |
| CSF and body fluids could also have lab orders for cell counts and Chemistry studies. | Shared specimen sent to chemistry and hematology | See above | Fresh - No Fixative | Aliquot specimen prior to performing cytology tests |
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| Histology | | | | |
| Frozen Sections | Histology | According to size | Fresh - No Fixative | Notify RML Pathology immediately |
| Biopsies | Histology | Small containers | 10% Buffered Formalin | Cover specimen with Formalin |
| Surgical Specimens | Histology | According to size | 10% Buffered Formalin | Cover specimen with Formalin |
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| Flow Cytometry Specimens | | | | |
| Lymph nodes | Histology | Small container | * Submit fresh or in RPMI media | Store RPMI Media in refrigerator, if purplish-blue colors occurs, discard and get new container. |
| Small tissue samples | Histology | Small container | * Submit fresh or in RPMI media | Store RPMI Media in refrigerator, if purplish-blue colors occurs, discard and get new container. |
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| Special Histology Specimens | | | | |
| Cytogenetics on fetal and placental tissue | Histology | According to size | * RPMI Media | Store RPMI Media in refrigerator, if purplish-blue colors occurs, discard and get new container. |
| Kidney biopsies for EM and immunofluorescence | Histology | Provided with Buffer | * Phosphate Buffer or Saline | Call RML Gross Room to notify of collection. Call for STAT courier pick up, specimen must be received within 2 hours of collection |
| Muscle and Nerve biopsies | Histology | According to size | Fresh on saline soaked sponge | Call RML Gross Room to notify of collection. Call for STAT courier pick up |
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| Microbiology | | | | |
| Microbiology studies including bacterial, fungal, and/or fungal cultures. Specimen can be fluid, tissue, or submitted on a collection swab. | Microbiology | According to size | Fresh - No Fixative | |
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TECHNICAL PROCEDURES
Fine Needle Aspirations Performed in Physician's Office

Proc. 025

PURPOSE:

To outline the procedure for physicians that performs fine needle aspirations in their facility and sends the specimen to Regional Medical Laboratory. The purpose of the aspiration is to obtain diagnostic material for cytologic study, special stains, and flow cytometry if required.

PROCEDURE:
Kit Supplied:

Prefilled slide holder tubes with 95% alcohol fixative

Specimen container with CytoRich Red transport media

Slide transport holder

(RPMI for Flow Cytometry study can be supplied by calling Regional Medical Laboratory at 918-744-2500)

Fine needle aspirations of both superficial and deep-seated masses are an effective method of triaging those lesions that should be addressed surgically from those which can be managed conservatively. Typically three or four aspirations are performed on a given lesion. In general, the most informative material is usually that which is smeared on a glass slide. Therefore, pair of smeared slides should be prepared from each aspirate and the remaining material in the needle can be aspirated into CytoRich Red transport media.

1. Label the slides, the 95% alcohol tubes, the slide holder and the CytoRich Red container to include patient's name, date, specimen source and medical record number.
2. After each aspiration, reserve air in the barrel of the syringe should be used to forcibly eject the aspirated contents on a **non-frosted** positively (+) charged slide.
3. Quickly spread the material on the slide with a second **non-frosted** positively charged slide, using the full surface of the second slide.
4. Place one of these two slides **immediately** in a Falcon tube of 95% alcohol.
5. Allow the second slide to air dry.
6. The material that remains in the needle can then be rinsed in CytoRich Red transport media. If CytoRich Red is not available, rinse in sterile saline and keep refrigerated.
7. Diagnostic material can be obscured or diluted by blood, hampering accurate diagnosis. Therefore, when the aspirate is being performed, each pass should be discontinued as soon as blood can be seen in the hub of the needle. **DO NOT CONTINUE TO ASPIRATE BLOOD INTO THE NEEDLE OR SYRINGE.**
8. If **FLOW CYTOMETRY STUDIES** are required, place aspirated material in RPMI. If RPMI is not available, rinse the needle in 5-10 cc of sterile saline and keep the specimen refrigerated. Flow Cytometry should be performed within 24 hours of aspiration for optimum sensitivity. Label with patient name, date, specimen source and medical record number.
9. After needle and syringe are replaced, another aspiration can be done and the same procedure repeated. Following the smearing of the slides and the needle can again be rinsed into the same CytoRich red transport media
10. Two alcohol fixed slides may be transported together with the smeared surfaces facing away from each other in one Falcon tube filled with 95% alcohol fixative.
11. The air-dried slides should be placed in the slide carrier.

All pertinent clinical information should be included on the RML Cytology requisition. The requisition, all slides, and any material in CytoRich Red and RPMI should be placed in a biohazard bag for transport to Regional Medical Laboratory.

 Supersedes Proc. 025

 Distribution
 Cytology

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 Page No. 1 of 1 Dated 01-18-12

 Approved
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