Anatomic Pathology Specimen Collection

ROUTINE

Tissue specimens for pathology are generally submitted in 10% neutral buffered formalin. Never allow the specimen to air dry; place in fixative as soon as possible. Certain studies such as cultures, flow cytometry, cytogenetics, etc., may require fresh tissue. If there is any doubt about how the specimen should be handled, DO NOT place the specimen in fixative (see #2 below).

- A. Remember to properly label the container, not the lid. Ensure the container lid is affixed properly and tightened. Seal the specimen container inside a specimen bag. Place the paperwork in the outside pocket. Submit only one patient's specimen(s) and requisition per bag.
- B. If there is any doubt about how the specimen should be handled, DO NOT place the specimen in any fixative. Wrap the specimen in a saline moistened gauze pad. Store it in an airtight container in the refrigerator. Contact Pathology for handling instructions.

FROZEN SECTIONS

- A. Notify the Pathology Office or page the pathologist on service.
- B. Submit specimens, fresh, in a labeled container. Do not place specimens in fixative.
- C. Deliver specimens and completed requisition directly to lab personnel. Never leave a specimen for frozen section diagnosis on the counter unattended.

STAT/RUSH SPECIMENS

- A. Notify the pathologist on the surgical service. After hours, contact the anatomic pathologist on-call.
- B. On the requisition indicate "STAT" or "Rush" and include a beeper number or telephone number to which results can be called.

SPECIAL SPECIMEN HANDLING PROCEDURES

LABORATORY/PATHOLOGY SHOULD BE CONTACTED WHEN SPECIMENS REQUIRE SPECIAL HANDLING. SPECIMENS THAT MAY REQUIRE SPECIAL PROCESSING INCLUDE:

- Bone marrow biopsies
- Breast biopsies
- Specimens needing cytogenetic testing
- · Heart biopsies
- Kidney biopsies
- Nerve/muscle biopsies
- Testicular biopsy for assessment of spermatogenesis
- Tissue for electron microscopy (EM)
- Flow cytometry specimens
- Lymph node or other tissue biopsies for evaluation for lymphoma
- Tissues for culture
- Tissues for gout
- Tissues for copper or iron analysis



Electron Microscopy Testing

Immunofluorescence, Immunoperoxidase, FISH or ISH

Specimens to be tested by these methods require special handling. Please contact your providing laboratory.

For questions call:

Central Laboratory EM, M-F, 8am-4pm, 801-507-2171 Utah Valley, M-F, 8am-4pm, 801-357-2364

Weekends and after hours:

Call the on-call anatomic pathologist or the Central Laboratory EM Technician on-call pager, 801-249-4230

Flow Cytometry Testing

Leukemia/Lymphoma/Phenotyping

Test Code: FLOWLL - This test is for immunophenotypic evaluation of suspected leukemias and lymphomas including CLL. This test is for new diagnoses and for follow up evaluations for minimal residual disease. The panel markers evaluated will be determined by reported clinical indication and at pathologist discretion.

Specimen Type	Acceptable Specimen	Transport Temperature	Paper Work (required)
Bone Marrow Bx Peripheral Blood Body Fluid	Sodium Heparin (48 hrs) * or EDTA (24 hrs)	Ambient	PB & BM Bx Requisition ***
Lymph Node Other Hematopoietic Tissue	RPMI * Saline	Ambient **	Histology Requisition ***
NOTE:	* Preferred: Anticoagulant or tissue culture medium	** Frozen or fixed tissues (e.g. formalin) are not acceptable	*** Clinical History, Differential Diagnosis, Account Number are required

Test code: CD3CD4 - CD3 with CD4 testing is to evaluate HIV infected individuals, to monitor immune system function, for initiating prophylaxis for opportunistic infections, and to monitor PML in MS patients (T cells).

Specimen Type	Acceptable Specimen	Transport Temperature	Paper Work (required)
Peripheral Blood Body Fluids	Sodium Heparin (48 hrs) * EDTA (24 hrs)	Ambient	Concurrent WBC % Lymph % required

Test code: CD4CD8 - CD4 with CD8 testing is similar to CD3/CD4 testing but also includes a CD4:CD8 ratio (T cells).

Specimen Type	Acceptable Specimen	Transport Temperature	Paper Work (required)
Peripheral Blood Body Fluids	Sodium Heparin (48 hrs) * EDTA (24 hrs)	Ambient	Concurrent WBC % Lymph % required

Test code: FLOWBL - CD4 with CD8 testing is similar to CD3 /CD4 testing but also includes a CD4:CD8 ratio (T cells) on BAL fluid to help characterize sarcoidosis.

Specimen Type	Acceptable Specimen	Transport Temperature	Paper Work (required)
BAL	BAL fluid	Refrigerated	None required

Flow Cytometry Testing

Test code: IMMDEF - Immunodeficiency testing is recommended for evaluating immunodeficiency in adults. It characterizes the different subsets of lymphocytes (T cells, B cells, and NK cells).

Specimen Type	Acceptable Specimen	Transport Temperature	Paper Work (required)
Peripheral Blood Body Fluids	Sodium Heparin (48 hrs) * EDTA (24 hrs)	Ambient	Concurrent WBC % Lymph % required

Test code: TLYM - T cell lymphocyte testing is ordered for acute organ rejection episodes for patients being treated with OKT3 or ATGAM.

Specimen Type	Acceptable Specimen	Transport Temperature	Paper Work (required)
Peripheral Blood Body Fluids	Sodium Heparin (48 hrs) * EDTA (24 hrs)	Ambient	Concurrent WBC % Lymph % required

Test code: STEM - Stem cell testing monitors CD34 positive stem cells from peripheral blood for stem cell transplants.

Specimen Type	Acceptable Specimen	Transport Temperature	Paper Work (required)
Peripheral Blood	EDTA (within 4 hrs)	Ambient	Concurrent WBC % Lymph % required
Apheresis Product		Ambient	Concurrent WBC % Lymph % required

Test code: BCELLP - B cell panel is for monitoring patients on Rituximab (anti-CD20) therapy.

Specimen Type	Acceptable Specimen	Transport Temperature	Paper Work (required)
Peripheral Blood Body Fluids	Sodium Heparin (48 hrs) * EDTA (24 hrs)	Ambient	Concurrent WBC % Lymph % required

Test code: B24HLA: The presence of the HLA-B27 antigen is strongly associated with ankylosing spondylitis and related disorders.

Specimen Type	Acceptable Specimen	Transport Temperature	Paper Work (required)
Peripheral Blood	Sodium Heparin (48 hrs) * EDTA (24 hrs)	Ambient	None Required

^{*}Preferred: Anticoagulant or tissue culture medium

Please call Flow Cytometry with any questions, 801-507-2276 or 801-507-2217.



Anatomic Pathology

The following information for Pathology tissue specimens <u>does not apply to pediatric specimens</u>. Please call the Primary Children's Pathology Office for proper handling and submission of pediatric specimens, M-F, 8am-5pm, 801-662-2150.

CONTACT INFORMATION

Central Region Pathology 801-507-7970

Logan Regional Hospital 435-716-5203

Cedar City Hospital 435-868-5090

Dixie Regional Medical Center 435-251-2208

Utah Valley Hospital 801-357-2364

McKay-Dee Hospital 801-387-7338, after hours 801-387-7366

