PURPOSE: To define a standard method for the requirements of surgical specimens and how to receive them.

PRINCIPLE

In order for the Histology Department to adequately process a specimen, the tissue must be received in the proper state or fixative, and labeled in an appropriate manner. The accompanying requisition must also have the correct and necessary information. This will produce a record of the specimen for any future reference.

PROCEDURE:

SURGICAL SPECIMEN REQUIREMENTS:

- 1. Labeling Requirements for Histology Specimens and Requisitions:
 - Patient's name
 - Patient MRN number or DOB
 - Time and Date of collection
 - Initials of the person collecting the specimen
 - Specimen identity (type) or source
 - Surgeon, last and first name or 6-digit ID (on requisition only)
 - Relevant clinical information (on requisition only)

NOTE: If any of the above information is missing, contact the ordering department to obtain all correct information before proceeding with processing of the specimen. Fill out a Specimen Label Verification Form (GEN103F2) and have the party taking responsibility fill out and sign the form. Also, make sure an RL Event report is written on all occurrences. Unacceptable specimens may be processed at the discretion of a pathologist, especially if the specimen cannot be easily recollected.

- 2. Special Requests:
 - Specimen retention (at the request of patient, doctor, or manufacturer) includes an orange sticker stating "DO NOT THROW AWAY-HOLD SPECIMEN" (return to manufacturer, save for patient/doctor.)
 - Other special requests, for example Microbiology (should have separate Microbiology form)
 - 24 hour read or STAT.
- 3. Specimen Storage Requirements. Tissues noted in Table 1, as well as tissue requiring special studies, should be fresh or placed on a saline moistened Telfa Pad (not gauze). Fresh tissues are delivered to the histology laboratory immediately, or refrigerated until delivered. With few exceptions, the remaining tissues should be placed in formalin* and sent to the laboratory for evaluation.

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Table 1.		
Specimen	Storage requirements *	
Appendix	Formalin	
Auditory canal cysts and tumors	Formalin	
Axillary dissection (NEEDS TO BE SENT IMMEDIATELY)	Fresh	
Bladder cystectomy	Fresh	
Bladder calculi	No preservative	
Bowel resection (NEEDS TO BE SENT IMMEDIATELY)	Fresh	
Breasts **(NEEDS TO BE SENT IMMEDIATELY)	Fresh	
Bronchial biopsy	Formalin	
Calculus analysis	No preservative	
Cervical cone biopsy	Formalin	
Colectomy for Tumor (NEEDS TO BE SENT IMMEDIATELY)	Fresh	
Colon polyps and resection	Formalin	
Digit (fingers and toes) amputations	Formalin	
Endarterectomy	Formalin	
Enterostomy and Colostomy	Formalin	
Esophogeal resections	Fresh	
Fallopian tubes	Formalin	
Gallbladder	Formalin	
Gastrectomy (NEEDS TO BE SENT IMMEDIATELY)	Fresh	
GI biopsies	Formalin	
Heart valves	Formalin	
Intestinal resection	Fresh	
Kidney	Fresh	
Kidney calculi	No preservative	
Larynx and Hypopharynx resection	Fresh	
Limb amputations except fingers and toes (NEEDS TO BE SENT IMMEDIATELY)	Fresh	
Lip wedge	Formalin	
Liver biopsy	Formalin	
Liver biopsy for Iron studies	Fresh	
Lung (NEEDS TO BE SENT IMMEDIATELY)	Fresh	
Lymph nodes (NEEDS TO BE SENT IMMEDIATELY)	Fresh	
Nasal cartilage, mucosa and bone	Formalin	
Neck dissection	Fresh	
Oral mucosa	Formalin	
Ovarian tumors or cysts	Fresh	
Pancreatectomy	Fresh	
Parathyroid	Fresh	
Placenta	Fresh	

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Products of conception (NEEDS TO BE SENT IMMEDIATELY)	Fresh
Prostatectomy specimen	Fresh
Radical neck dissections	Fresh
Rectal biopsy	Formalin
Salivary gland (i.e. parotid/submandibular/submaxillary glands)	Fresh
Soft tissue, benign	Formalin
Spleen	Fresh
Sputa	Fresh
Stomach resections	Fresh
Testis-Orchiechomy	Fresh
Tongue, jaw and pharynx	Fresh
Tonsils and adenoids	Formalin
Thyroid	Fresh
Urethral calculi	No preservative
Uterus	Fresh

**NOTE: If a Breast case is received fresh, consult with pathologist assigned to Gross immediately. It is imperative that these specimens be evaluated and placed into formalin within 60 minutes. This is to assure that the tissue will have the optimum reaction in the immunostaining process.

Specimens Exempt from Pathology Exam

The following specimens **DO NOT** require pathology examination unless the physician requests it:

- 1. Cataracts
- 2. Orthopedic appliances
- 3. Foreign Bodies including stents, ear tubes, shunt tubing, shunt valves, tissue expanders, breast implants and surgical mesh
- 4. Portions of bone removed only to enhance operative exposure (i.e. Ribs)
- 5. Birth control devices
- 6. Traumatically injured members that have been amputated and for which examinations for either medical or legal reasons is not deemed necessary
- 7. Placentas (grossly normal appearing, does not meet criteria for review)
- 8. Radioactive materials
- 9. Teeth, provided the number, including fragments, is recorded in the medical record
- 10. Bullets that are given directly to law enforcement
- 11. Scar tissue, except from a previous neoplasm
- 12. Skin/fat removed with plastic procedure/extraneous tissue except from a previous neoplasm.
- 13. Foreskins removed from circumcision of newborn
- 14. Kidney, urethral or bladder stones. **Note**: If stones are sent to Histology, and if the physician requests "stone analysis", specimen will go straight to Reference for



HISTOLOGY SPECIMEN REQUIREMENTS AND RECEIVING

send out. The only exception is bladder stones that are sent to histology that are **NOT** requesting "stone analysis". Handle those specimens as a surgical tissue. No preservative is needed for stones.

15. Fetal Remains

*Formaldehyde/Formalin - Suspected Carcinogen: Formaldehyde is a suspected carcinogen; extreme caution must be exercised in handling specimens preserved in Formaldehyde. Barrier coats, gloves, and eye protection must be worn. Avoid skin, eye or clothing contact. In case of eye or skin exposure, flush with copious amounts of water for at least 15 minutes. **DO NOT** store Formaldehyde or Formaldehyde-preserved specimens near combustible materials. If an accident should occur, transport the exposed individual, accompanied by appropriate SDS, to the Emergency Department.

RECEIVING SURGICAL SPECIMENS:

- 1. Routine histology specimens
 - a. A volunteer lab runner will pick up specimens from OR and Digestive Health to deliver them to Histology hourly, from 0830 to 1630, Monday through Friday. The Birth Care Center will deliver their own specimens. The requisition must be initialed by the Histology staff and the person that delivered the specimen, then stamped with the time and date received in the lab. Extremely large specimens may be submitted fresh. Place fresh specimens in the fridge ASAP until they are able to be grossed.
 - b. If specimens are brought to Central during open Histology hours, send the runner with the specimen to Histology to be received. Weekend and after hours specimens will be delivered to the lab by OR, Digestive Health, and the Birth Care Center personnel, as collected. If received in Central after hours or weekends the person dropping off specimen and the person receiving the specimen must initial requisition and then then stamp/write the time and date on it. Fresh specimens must be placed in the reagent/specimen refrigerator in the blue buckets, on the bottom shelf ASAP. Place the accompanying requisition in the basket on the side of the refrigerator. **DO NOT** put paperwork in the refrigerator. Extra-large or overflow specimens that do not fit in the fridge may be placed in the white leg refrigerator in the backroom. The neon sign must be filled out, initialed and placed on the reagent fridge next to the basket with paperwork.
 - c. Routine specimens (exceptions listed in Table 1) are delivered in formalin (10-20 times the volume of the specimen).

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- d. The person receiving the specimens in the lab will verify that the specimen(s) match the paperwork received, and review labels/requisitions for completeness, using two forms of identification to assure correct patient ID.
- e. If the requisition has an orange **HOLD SPECIMEN** label, Histology personnel will then attach a like label to the specimen container to assure that the specimen is retained as long as necessary or returned to the manufacturer if requested.
- f. Specimens that need both Histology and Microbiology cultures need to go to Histology first as a fresh specimen. This is to make sure that there aren't any special circumstances that would require histology take a certain portion of the tissue. The specimen will then be sent to Microbiology and they will take a sterile portion of the specimen. Once Micro is finished with the specimen, the rest will come to histology to be grossed.
- 2. Surgeons should consult with the Pathologist regarding other tissues that may require special handling (such as lymph nodes and muscle biopsies).
- 3. Frozen Sections
 - 1. Pathologists are available 24 hours for frozen section examination of specimens.
 - 2. Laboratory staff will contact the pathologist on-call if there is a need for a frozen section after office hours.

References	 College of American Pathologists; CAP Anatomic Pathology Checklist. August 17, 2017.
Related Documents	 AP200 Accessioning in PowerPath AP203 Breast Specimen Handling AP205 Release of Fresh Surgical Specimens (Gross) to Patients AP213 Sendouts for Chromosome Analysis or Cytogenetics AP214 Muscle Specimens to UIHC AP331 Frozen Section Reporting