# **Tips for Specimen** Submission to the **SWOG Biospecimen Bank**



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### Overview of the Biopathology Center (BPC)

- The SWOG Biospecimen Bank is part of the Biopathology Center at The Abigail Wexner Research Institute at Nationwide Children's Hospital.
- We serve as the biorepository for several other major groups and organizations:

  - Children's Oncology Group (COG)NRG Oncology Columbus

  - GOG Foundation
  - Sarcoma Alliance for Research through Collaboration (SARC)
  - NCI Early-Phase and Experimental Clinical Trials (EET)



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### **Overview of Specimen Receipt**

- On an average day, the BPC receives 100-160 packages, which may contain upwards of 1,000 specimens for all groups!
- We receive several different specimen types for SWOG protocols:
  - FFPE tissue (blocks, slides)
  - Fresh blood, bone marrow, stool, and urine
  - Frozen blood products and urine
  - Frozen tissue
- We accept all specimen types Monday Friday.
  - Shipments of fresh blood and bone marrow may be received on Saturday for immediate processing.
- · Accurate specimen submission is crucial to our day-to-day operations.



### **Specimen Collection**

- Protocol sections that provide guidance for specimen collection are:
  - 9.0 Study Calendar
    - · Includes general information about specimen collection time points.
  - Refer to section 15.0 for additional details on specimen collection.
  - 12.0 Discipline Review
    - States whether the protocol includes quality control pathology review or central review.
  - 15.0 Special Instructions
    - Provides details about specimen requirements (specimen types and time points), collection, specimen labeling, processing and shipment.
- Biospecimen Processing and Submission Procedures
  - Located under the Biospecimen Resources tab on the SWOG website.
  - Provides general specimen processing instructions (instructions in the protocol take precedence over these instructions).
  - Provides instructions for specimen labeling (including templates) and shipment (including laboratory addresses for labs 200 and 201).



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# **Specimen Labeling Requirements**

Label all specimens with the following:

- SWOG patient ID#
- Patient Initials
- Date of specimen collection
- Specimen type (whole blood, serum, etc.)

Additional labeling for FFPE tissue blocks and slides:

- Tissue type (Primary, Metastatic, Normal)
- Surgical pathology ID (SPID or Accession #)
- Block Number (from pathology report)

Note: Missing information will result in the Bank contacting the submitting institution, which can delay specimen processing, and may require a waiver. Some submission issues may result in a query.

We cannot assume any information!



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# **Labeling Templates**

- Specimen Labels, Avery 5160
- Every specimen submitted must be labeled!
- Biospecimen Processing and Submission Procedure Page on swog.org

Basic Labels (Fresh or Frozen Blood/Bone Marrow/Urine Products)

Tissue Labels (FFPE, Snap Frozen) × SWOG



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### Preparing the shipment

- Verify that all specimen labels include all required information.
  - Requirements are located in Section 15 of the protocol and/or the SWOG Biospecimen Resources webpage.
- · Verify that the information on STS packing list matches the specimens shipped.
  - Double check specimen label information (e.g., collection dates). It should match the example label that populates on the packing list.
  - Ensure that the number of specimens matches the number on the STS packing list (e.g., for 2 10-mL tubes of blood, quantity = 2, not 20).
- Confirm that all **required paperwork** is included.
  - STS Packing List

  - Redacted Pathology Report (FFPE tissue only)
     Do not remove surgical pathology ID (SPID), block number, collection date, diagnosis, results, gross description, or other information about the specimen.
    - Additional guidelines will be posted to the SWOG website.
  - Include SWOG patient ID# on every page of all paperwork.



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## **Shipping Considerations**

- Unless otherwise stated in the protocol, frozen specimens or FFPE tissues (blocks, slides, or scrolls) may be batch shipped.
  - Do not include more than 5 patients in one shipment (no more than 50 vials/200 slides, whichever is fewer).
  - Package each patient's specimens separately.
  - If there are multiple time points per patient, then include fewer than 5 patients in the shipment.
- Pack specimens according to the season
  - Frozen Specimens
    - ALWAYS include <u>plenty of dry ice</u> to prevent thawing, regardless of weather.
  - Ambient Specimens
    - Warmer months (April-September): Include a cold pack (not frozen!), unless otherwise stated in the protocol or kit instructions (e.g., cfDNA Streck tubes).

      Colder months (October-March): Insulate well (e.g., bubble wrap) to prevent specimens from freezing.
- Specimens shipped FedEx Priority Overnight arrive in the morning



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# **Shipping Considerations**

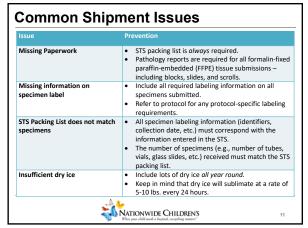
Remember when shipping, that even if weather is fine where you are, the specimens are traveling from your city FedEx Hub SWOG Bank in Columbus, Ohio.





Issue	Prevention
Specimen that should be frozen arrived thawed or with insufficient dry ice	<ul> <li>Choose an appropriately-sized container.</li> <li>Add dry ice to the bottom ~1/3, add the specimens, and then add dry ice to the top of the container.</li> </ul>
Blood / bone marrow is hemolyzed or clotted	Thoroughly mix the specimen with anticoagulant in the tube immediately after collection. Do not shake or vortex, but gently invert tube 8 – 10 times after collection.
Specimen arrived in a cracked, broken, or leaking container	Always use plastic collection tubes if submitting frozen specimens.     Do not overfill cryovials (~1.5 mL liquid can be frozen in a 2-mL cryovial).     Package specimens carefully – if it rattles, don't ship it!     Be generous with bubble wrap – it's both a good insulator and specimen protectant.     Do not ship cracked, broken, or leaking specimens.
Incorrect specimen type received	Refer to the protocol - verify that you are using the
(e.g., protocol indicates to send whole blood, and blood arrives processed)	correct version.  • If the protocol is unclear – email the Bank.

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# Helpful Sites SWOG Biospecimen Processing and Submission Procedures General SWOG specimen submission guidelines, links to labeling templates, and more! https://www.swog.org/clinical-trials/biospecimen-resources/biospecimen-processing-and-submission-procedures BPC Kit Management Order biospecimen collection kits (when provided, refer to protocol) – select SWOG sponsor group. Users must be registered. https://kits.bpc-apps.nchri.org/

# **Contact Information**

### Solid Tissue, Myeloma & Lymphoma Division

SWOG Biospecimen Bank #201 614-722-2865

bpcbank@nationwidechildrens.org

SWOG Biospecimen Bank Nationwide Children's Hospital 700 Children's Drive, WA1340 Columbus, Ohio 43205

### **Leukemia Division**

SWOG Biospecimen Bank #200 614-722-3270

bpcmglab@nationwidechildrens.org

SWOG Biospecimen Bank Nationwide Children's Hospital 700 Children's Drive, C0825 Columbus, Ohio 43205

Use the group emails above and please **Reply All** when responding so that our team can better assist you!



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