



Penn Medicine

Division of Hematopathology

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7th Floor Founders Bldg • 215-662-6196 or
Call Hematopathology Fellow Pager 215-265-1089

Affix Patient Label

**Patient Name
(Last, First)**

MRN #

Bone Marrow Sample Submission Form

Deliver samples to Central Receiving and Processing (7th Floor Founders)

Date Collected (required by law) ____/____/____	Time of Collection (required by law) ____:____ AM / PM	Name of Collector (required by law)
Location	Contact Phone Number	Name of Requesting Physician

Suspected diagnosis or clinical question (required)	ICD 10 code (required)
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Sample Type <input type="checkbox"/> Bone marrow aspirate in Sodium Heparin (glass green top) <input type="checkbox"/> Bone marrow aspirate in EDTA (lavender top) Number of EDTA tubes _____ <input type="checkbox"/> Bone marrow core biopsy (Zinc Formalin) <input type="checkbox"/> Other: _____	Relevant History
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Bone Marrow Workup
(Surgical Pathology and Flow Cytometry workup
with reflex to Molecular Pathology, Cytogenetics, and Next Generation Sequencing)

Molecular Pathology (EDTA aspirate) <input type="checkbox"/> Acute Leukemia Rearrangement Panel (RUNX/RUNX1T1, CBF/MYH11) <input type="checkbox"/> <i>FLT3</i> mutation analysis (ITD and D835) <input type="checkbox"/> <i>PML-RARA</i> RT-PCR (Qualitative) <input type="checkbox"/> <i>BCR-ABL1</i> RT-PCR (Qualitative) <input type="checkbox"/> <i>BCR-ABL1</i> RT-PCR (p210 Quantitative) <input type="checkbox"/> <i>BCR-ABL1</i> RT-PCR (p190 Quantitative)	<input type="checkbox"/> <i>IGH</i> rearrangement <input type="checkbox"/> TCR gamma (<i>TRG</i>) rearrangement <input type="checkbox"/> Chimerism analysis- post-transplant evaluation <input type="checkbox"/> Other, please specify: _____	215-662-6121
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Center for Personalized Diagnostics (EDTA aspirate) NOTE: See PennMedicine.org/CPD for full mutation lists <input type="checkbox"/> Hematologic Malignancies Panel (68 genes) <input type="checkbox"/> Solid Tumor Panel (152 genes)	<input type="checkbox"/> Solid Tumor Fusion Transcript Panel (55 genes) <input type="checkbox"/> Lymphoma Panel (40 genes)	215-615-3966
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Cytogenetics (Sodium Heparin aspirate, glass preferred) <input type="checkbox"/> Conventional Karyotype <input type="checkbox"/> CLL FISH Panel <input type="checkbox"/> CBF FISH Panel	<input type="checkbox"/> Vyxeos MDS FISH Panel <input type="checkbox"/> Plasma Cell Myeloma FISH Panel <input type="checkbox"/> Other FISH, please specify probes: _____	215-662-4937
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BONE MARROW ANALYSIS CHECKLIST

Refer to <https://www.testmenu.com/HUP> for more detailed specimen requirements by test.

Completing the requisition

Use 1 requisition form for each patient (can contain multiple specimens as indicated under *Sample Type*)
 Electronically order testing to generate a Cerner label for requisition form and specimen tubes
 Legibly fill out requisition form, including all required information

Obtaining the specimen

Match patient label to patient using 2 patient identifiers
 Collect specimen in appropriate containers (as indicated below)

Packaging specimen for transport

Place all collected specimens in a plastic bag
 Fold requisition form where patient identification is visible
 Place folded requisition form in the plastic bag sleeve with patient identification facing outward

Specimen Transport

Deliver all samples to Central Receiving and Processing (7th floor Founders) to be logged-in by the laboratory

Lab	Sample Requirements
Surgical Pathology	<ul style="list-style-type: none"> • Core Biopsy- delivered to Hematopathology in fixative • Touch prep slides made from core biopsy prior to fixation • Aspirate in EDTA tube for smear review
Flow Cytometry	<ul style="list-style-type: none"> • Optimal sample: Aspirate in EDTA tube • Optimal volume: 2 mL • Minimum required volume: 0.5 mL
Cytogenetics	<ul style="list-style-type: none"> • Optimal sample: Aspirate in a <u>glass</u> Sodium-Heparin tube • Acceptable substitute: Bone marrow aspirate in EDTA • Optimal volume: 2 mL • Minimum required volume: 0.5 mL <p style="text-align: center;">Note: Aspirates in EDTA yield poor growth, and aspirates in Lithium-Heparin will not yield any growth.</p>
Center for Personalized Diagnostics	<ul style="list-style-type: none"> • Optimal sample: Aspirate in EDTA tube • Optimal volume: 2 mL • Minimum required volume: 0.5 mL
Molecular Pathology	<ul style="list-style-type: none"> • Optimal sample: Aspirate in EDTA tube • Optimal volume: 1.5 mL • Minimum required volume: 0.5 mL