MAYO CLINIC
Mayo Medical Laboratories

Malignant Lymphoma, Guideline for Bone Marrow Staging Studies

Bone marrow staging for known or suspected malignant lymphoma (ML)

Testing begins with:
- PATHC / Pathology Consultation for lymph node evaluation
- HPWET / Hematopathology Consultation, MML Embed

Or
- HPCUT / Hematopathology Consultation, Client Embed

for bone marrow evaluation

If bone marrow is for a pretransplant evaluation or Peripheral blood and bone marrow are suspicious for a myelodysplastic syndrome

Also perform:
CHRBM / Chromosome Analysis, Hematologic Disorders, Bone Marrow

Lymph node or extra-nodal tissue: ML diagnosis and classification

Bone marrow morphology: Involved by ML with concordant morphology?

YES / NO

STOP
The following tests are not useful:
- Flow cytometry
- B-cell gene rearrangement
- T-cell gene rearrangement
- Chromosome analysis
- FISH testing

EQUIVOCAL

Perform:
LCMS / Leukemia/Lymphoma
Immunophenotyping by Flow Cytometry
and/or
Immunohistochemical stains, as determined by reviewing pathologist.

If bone marrow or lymph mode evaluation indicates possible T-cell lymphoma, may also need to perform:
TCGBM / T-Cell Receptor Gene Rearrangement, PCR, Bone Marrow

Lymph node or extra-nodal tissue: Not fully characterized or questionable for ML

Bone marrow morphology: Involved by ML?

YES / EQUIVOCAL

Perform:
LCMS / Leukemia/Lymphoma
Immunophenotyping by Flow Cytometry
and/or
Immunohistochemical stains, as determined by reviewing pathologist.

- If BM or lymph node evaluation indicates possible T-cell lymphoma, may also need to perform TCGBM / T-Cell Receptor Gene Rearrangement, PCR, Bone Marrow.
- If immunophenotyping studies indicate possible mantle cell lymphoma, perform Immunohistochemical stain for cyclin D1 on bone marrow biopsy or BLPF / B-Cell Lymphoma, FISH, Blood or Bone Marrow.
- If immunophenotyping studies indicate possible T-cell prolymphocytic leukemia, perform Immunohistochemical stain for TCL-1 on bone marrow biopsy or TLPF / T-Cell Lymphoma, FISH, Blood or Bone Marrow.
- If immunophenotyping studies indicate possible B-cell, high-grade malignant lymphoma, perform BLPF / B-Cell Lymphoma, FISH, Blood or Bone Marrow.

NO

STOP
The following tests are not useful:
- Flow cytometry
- B-cell gene rearrangement
- T-cell gene rearrangement
- Chromosome analysis
- FISH testing

Clickable PDF
Click on blue tests to view test catalog information

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