Malignant Lymphoma, Guideline for Bone Marrow Staging Studies

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

Testing begins with:
- 70012 / Pathology Consultation for lymph node evaluation
- 70016 / Hematopathology Consultation, Wet Tissue 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
- Perform:
  - LCMS / Leukemia/Lymphoma Immunophenotyping by Flow Cytometry and/or Immunohistochemical stains, as determined by reviewing pathologist.

NO
- STOP
  - The following tests are not useful:
    - Flow cytometry
    - B-cell gene rearrangement
    - T-cell gene rearrangement
    - Chromosome analysis
    - FISH testing

EQUIVOCAL
- If bone marrow or lymph node 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
- Perform:
  - LCMS / Leukemia/Lymphoma Immunophenotyping by Flow Cytometry and/or Immunohistochemical stains, as determined by reviewing pathologist.

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

NO
- 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.