B-Lymphoblastic Leukemia/Lymphoma Algorithm

Clinical suspicion of B-ALL, order BALLF / B-Lymphoblastic Leukemia/Lymphoma, FISH

Diagnostic results from:
- BALLF / B-Lymphoblastic Leukemia/Lymphoma, FISH
- CHRBM / Chromosome Analysis, Hematologic Disorders, Bone Marrow

Consider Ph-like B-ALL FISH Panel for known cryptic abnormalities

Diagnostic results:
- Normal
  - Consider Ph-like B-ALL FISH Panel for known cryptic abnormalities
- Abnormal
  - Atypical rearrangements
  - Typical WHO classification rearrangements

Abnormal

Concern for submicroscopic deletions or duplications (e.g., ERG or PAX5)

Concern for hypodiploid clone

Suspicion for kinase activating translocation partner

For identification of fusion partners, consider next-generation sequencing MatePair analysis, order MTRBM / MatePair, Targeted Rearrangements, Hematologic

Normal

Concern for hypodiploid clone

Suspicion for kinase activating translocation partner

Final report released to client*

Targeted follow-up FISH testing will be based on primary clonal abnormalities. Note: RT-PCR recommended for BCR/ABL1 fusion follow up.

* Relapse cases will be evaluated on a case by case basis by Laboratory Directors in the Genomics Laboratory.