Previously diagnosed acute myeloid leukemia (AML)

**YES**
- LCMS / Leukemia/Lymphoma Immunophenotyping by Flow Cytometry, Varies (triage-acute panel)
- CHRBM / Chromosome Analysis, Hematologic Disorders, Bone Marrow
- FLT / FLT3 Mutation Analysis, Varies
- IDH1 / IDH1 (R132) and IDH2 (R140 and R172) Quantitative Detection, Droplet Digital PCR, Varies

More than 6 months since diagnosis

**YES**
- Order NGSHM / MayoComplete Myeloid Neoplasms, Comprehensive OncoHeme Next-Generation Sequencing, Varies includes 47 genes

**NO**
- Follow Acute Myeloid Leukemia Algorithm

**NO**

Order
- NGAMT / MayoComplete Acute Myeloid Leukemia, Therapeutic Gene Mutation Panel (FLT3, IDH1, IDH2, TP53), Next-Generation Sequencing, Varies OR
- NGAML / MayoComplete Acute Myeloid Leukemia, 11-Gene Panel, Varies

Consider the 47-gene next-generation sequencing panel, if warranted (NGSHM)