Possible patient presentations:
- Nephrotic-range proteinuria with or without renal insufficiency (nondiabetic)
- Infiltrative cardiomyopathy with restrictive hemodynamics and no ischemic history
- Hepatomegaly with no filling defects visible by imaging
- Nondiabetic peripheral neuropathy
- Fatigue, weight loss, dyspnea, edema, or paresthesias
- Macroglossia
- Classic amyloid purpura
- Atypical myeloma

Order both of the following tests:
- DMOGA / Monoclonal Gammopathy, Diagnostic, Serum
- MPSU / Monoclonal Protein Study, 24 Hour, Urine

Monoclonal protein present?

YES

Bone marrow biopsy and fat biopsy1,2
Consider a Hematology consultation

NO

Amloid light-chain (AL) amyloidosis diagnosis unlikely
Consider testing for other types of amyloidosis, including wild-type transthyretin amyloidosis (ATTRwt), hereditary amyloidoses, and other types of acquired amyloidoses, that have not been excluded.

Congo red-positive amyloid deposits are present

Order AMPIP / Amyloid Protein Identification, Paraffin, Mass Spectrometry1

Consistent with AL amyloidosis
Consistent with ATTR amyloidosis
Consistent with other amyloidoses

Consider gene sequencing:
- ATTRZ / TTR Gene, Full Gene Analysis, Varies

Clinical suspicion

High

Affected organ biopsy

Consistent with other amyloidoses

Amyloidosis unlikely

Low

Negative

Consider gene sequencing, as appropriate:
- APO1Z / Apolipoprotein A-I (APOA1) Gene, Full Gene Analysis, Varies
- APO2Z / Apolipoprotein A-II (APOA2) Gene, Full Gene Analysis, Varies
- GSNZ / Gelsolin (GSN) Gene, Full Gene Analysis, Varies
- LYZZ / Lysozyme (LYZ) Gene, Full Gene Analysis, Varies
- FGAZ / Fibrinogen Alpha-Chain (FGA) Gene, Full Gene Analysis, Varies

1Consider alternative sites, such as gastrointestinal tract, lip, carpal tunnel/tenosynovium, etc.
2Since fat aspirate specimens are required to be collected in RPMI media, AMPIF / Amyloid Protein Identification, Fat Aspirate, LC-MS/MS testing is only available for Congo-red positive samples from Mayo Clinic sites in Rochester, Arizona, and Florida.