

- 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

NO

Bone marrow biopsy and fat biopsy^{1,2}
Consider a Hematology consultation

Amyloid 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.

YES

NO

Congo red-positive amyloid deposits are present

Negative for amyloid

Order [AMPIP / Amyloid Protein Identification, Paraffin, Mass Spectrometry¹](#)

Clinical suspicion

High

Low

Affected organ biopsy

Amyloidosis unlikely

Consistent with AL amyloidosis

Consistent with ATTR amyloidosis

Consistent with other amyloidoses

Negative

Consider gene sequencing:
[ATTRZ / TTR Gene, Full Gene Analysis, Varies](#)

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, AMPIP / 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.