

# AL Amyloidosis

## Quick Reference Guide

### Disease Overview

**AL Amyloidosis (Light Chain) is a rare but life-threatening disease** caused by abnormal plasma cells producing misfolded light chain proteins. These proteins form amyloid fibrils that deposit in organs – most commonly affecting: Heart, Kidneys, Liver, Gastrointestinal system, Nervous system. **This leads to progressive and often irreversible organ dysfunction.**

**Early suspicion and testing are critical.** AL Amyloidosis often presents with vague symptoms, and delays in diagnosis can result in severe organ failure.

**Diagnosis should be treated as a medical emergency** as rapid intervention is essential to prevent further damage. Treatment focuses on halting light chain production through: Chemotherapy, Monoclonal antibodies, Stem cell transplantation.

**A high index of suspicion and prompt action can significantly improve patient outcomes.**

### Key Diagnostic Testing

#### Initial Screening Tests

Serum free light chains (kappa & lambda)

Serum electrophoresis with immunofixation

Urine electrophoresis with immunofixation

Troponin T & NT-proBNP

Electrocardiogram

Echo (with strain imaging)/Cardiac MRI (with and without contrast)

#### Further Diagnostic Testing

Abdominal fat pad biopsy

Bone marrow biopsy

Diagnosis confirmation requires a tissue biopsy with Congo red staining to detect amyloid deposits:

- Abdominal fat pad biopsy
- Bone marrow biopsy

Note: If both biopsies are negative but clinical suspicion for AL Amyloidosis remains high, consider biopsy of the affected organ.

### Different Diagnosis

#### Abnormal Monoclonal Testing Diagnosis Considerations

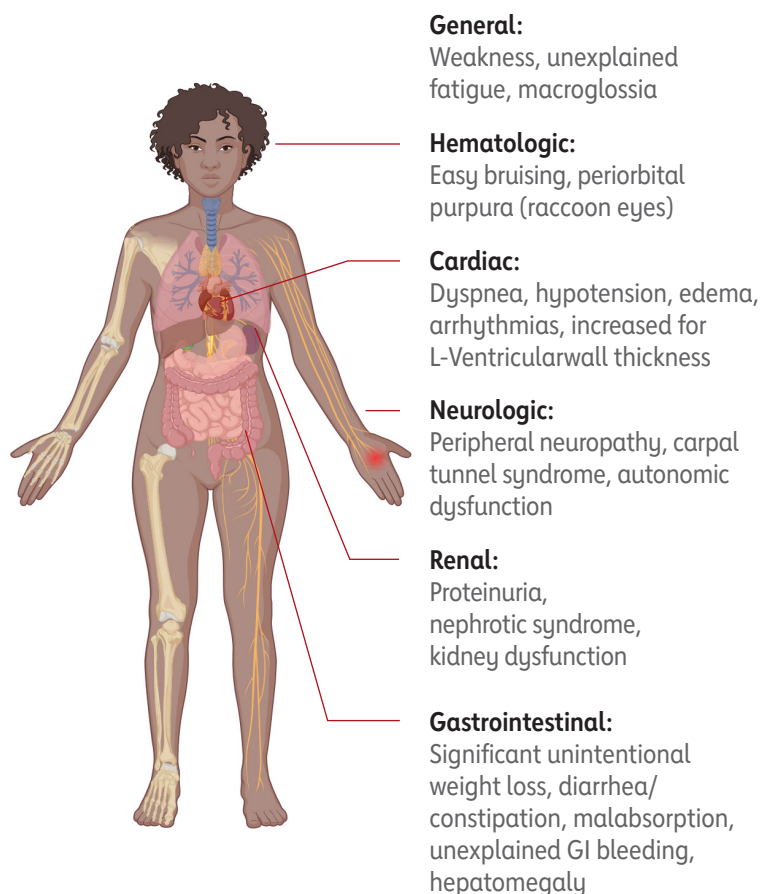
Monoclonal Gammopathy of undetermined significance

Multiple Myeloma, Smoldering Multiple Myeloma, or Light Chain Smoldering Multiple Myeloma

Waldenström Macroglobulinemia

POEMS Syndrome

### Clinical Clues



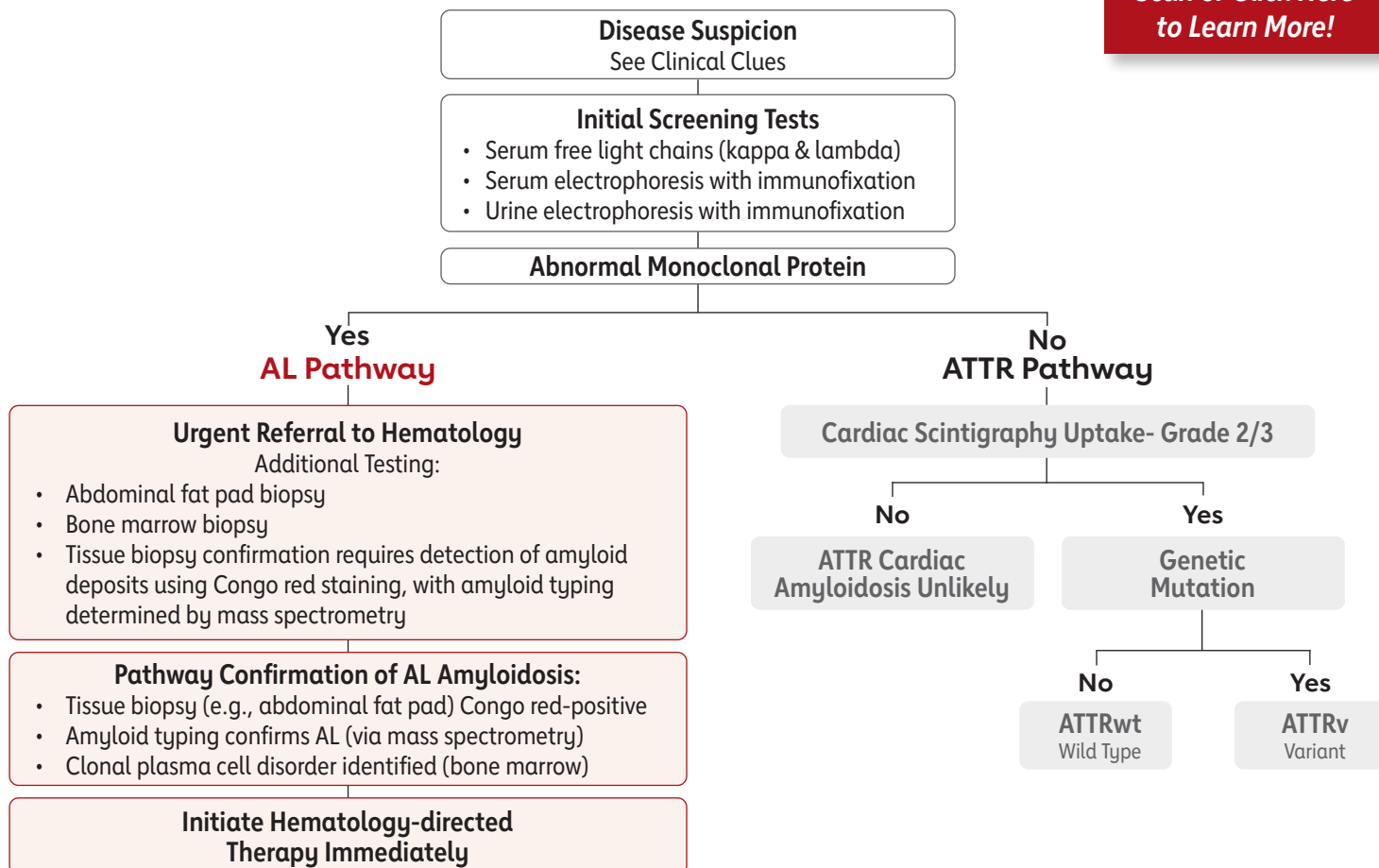
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### Diagnosing Amyloidosis



### Referral Guidance

- Refer suspected AL Amyloidosis patients to an amyloidosis center when possible.
- If an amyloidosis center is unavailable, prompt consultation with hematology and cardiology is essential.
- A diagnosis of AL Amyloidosis is a medical emergency that demands timely evaluation and multidisciplinary collaboration to ensure the best possible outcomes.

### Patient Advocacy and Support Resources



[mm713.org](http://mm713.org)



[arci.org](http://arci.org)



[amyloidosisupport.org](http://amyloidosisupport.org)