What is AL amyloidosis?

AL amyloidosis is a rare, progressive and potentially fatal disease caused by amyloid deposits composed of misfolded light chains (proteins made by plasma cells) that build up in multiple organs and tissues, leading to damage of structure and function.

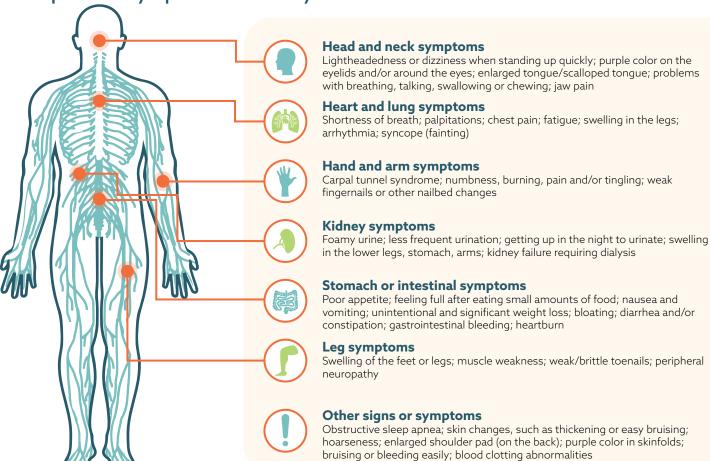
The amyloids can deposit in one or more vital organs, such as the heart and kidneys. The foreign deposits prevent the organs from functioning normally. The damage can lead to organ failure.

The cause of AL amyloidosis is still unknown, though it has been determined that the disease is not inherited or contagious.

What are the symptoms of AL amyloidosis?

People living with AL amyloidosis can experience a wide range of symptoms, depending on where in the body the amyloid builds up. The most common symptoms include weight loss, fatigue (or tiredness), shortness of breath, or edema (swelling in the arms and legs).¹

Other possible symptoms of AL amyloidosis ¹







How is AL amyloidosis diagnosed?

AL amyloidosis can manifest in a variety of ways and many of the symptoms are the same as those of more common diseases. This makes the disease difficult to diagnose early. In fact, research shows that a diagnosis is often not established until **one year or more after the onset of initial symptoms.**² Most AL amyloidosis patients are diagnosed after the age of 50, though some adult patients have been diagnosed as early as their 20s.



Further, almost one third of patients received a diagnosis after visiting **5 or more physicians.**²

Blood and urine tests can help to determine if abnormal proteins are present. A biopsy of the affected organ is the only way to confirm an AL amyloidosis diagnosis.

How is AL amyloidosis classified?

There are several staging classification systems used to stage the prognosis of AL amyloidosis. Among these include the Mayo 2012 Staging system, which uses specific laboratory tests to determine the stage. In this particular staging system, there are four stages of AL amyloidosis, with Stage I being the earliest stage and Stage IV being the stage with the highest risk for early mortality.

It is estimated that approximately 23-30% of all AL amyloidosis patients are **living with**Mayo Stage IV AL amyloidosis.^{3,4}





How can AL amyloidosis be treated?

There is no cure for AL amyloidosis. Available treatments may help to stop production of light chains and thus possibly slowing progression of disease. Chemotherapy is typically used to treat patients with AL amyloidosis.

Additional treatment options are currently under investigation. One such option is birtamimab that is being investigated in the confirmatory phase 3 AFFIRM-AL trial in Mayo Stage IV. The clinical trial is open for enrollment to eligible patients.

Birtamimab is under investigation and is not approved by any regulatory agency.

For more information about the clinical trial visit: https://affirm-al.com or https://clinicaltrials.gov/study/NCT04973137

References

- ¹Amyloidosis Research Consortium (2021) Light Chain Amyloidosis (AL Amyloidosis) https://arci.org/wp-content/uploads/2021/03/Disease-Overview_AL-Amyloidosis.pdf. ²Lousada I, et al. Light Chain Amyloidosis: Patient Experience Survey from the Amyloidosis Research Consortium. Adv Ther. 2015 Oct;32(10):920-8. doi: 10.1007/s12325-015-0250-0.
- ³ Kumar S, et al. Revised prognostic staging system for light chain amyloidosis incorporating cardiac biomarkers and serum free light chain measurements. J Clin Oncol. 2012 Mar 20;30(9):989-95. doi: 10.1200/JCO.2011.38.5724.
- ⁴ Gertz MA, et al. Birtamimab plus standard of care in light-chain amyloidosis: the phase 3 randomized placebo-controlled VITAL trial. Blood. 2023 June; 142(14):1208-1218. doi: 10.1182/blood.2022019406.



