Our Mission Is to Make a Real Impact for **Patients**





We are pioneering protein dysregulation science to advance novel medicines for diseases caused by misfolded proteins. These devastating conditions include neurodegenerative (e.g., Alzheimer's disease, Parkinson's disease) and rare systemic amyloid diseases (e.g., light chain [AL] amyloidosis), which affect millions of people and their families worldwide

Prothena Is Developing a Potential Treatment for Patients with AL Amyloidosis What is AL Amyloidosis?

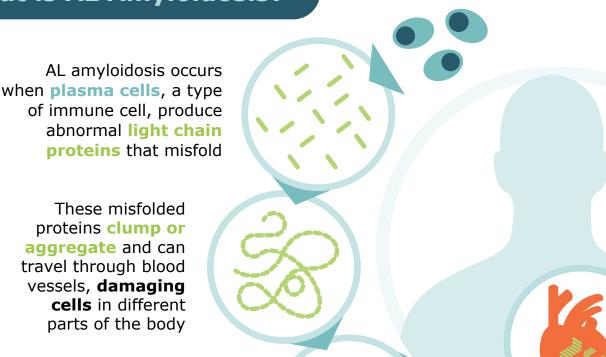
AL amyloidosis occurs

of immune cell, produce abnormal light chain proteins that misfold These misfolded

proteins clump or aggregate and can travel through blood vessels, damaging cells in different parts of the body The aggregates also

go on to form rope-like structures called amyloid

Options?



such as the **heart** and kidney, and leads to organ damage and eventual organ failure Why Do Patients Current treatments block plasma cells from producing more protein

Amyloid deposits in organs,

Birtamimab - a Different Kind of Drug Being Explored for Patients With AL Amyloidosis and

Need New Treatment

protein aggregates or remove the amyloid that damages organs

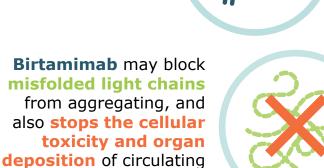
but do not target the existing toxic



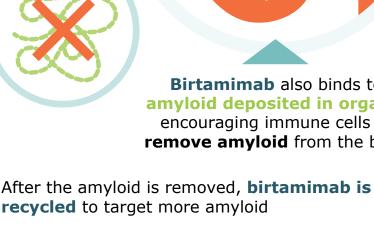
Significant Cardiac Involvement Birtamimab is an investigational drug and not approved by any regulatory authority What Does Birtamimab Do?

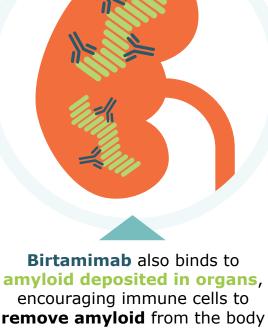
Birtamimab is a humanized monoclonal antibody

Birtamimab may block misfolded light chains



light chain aggregates





Humanized means that **birtamimab** is similar to antibodies produced by the human immune system.



AMYLOIDOSIS

What Does

Humanized

Mean?

What Has Been Learned About Birtamimab in Clinical Trials?

This reduces the chance that a patient's immune

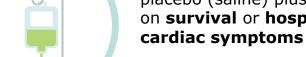
system would recognize **birtamimab** as foreign



STUDY Who Were the Patients in the Phase 3 VITAL Clinical Trial? 260 patients with AL amyloidosis and cardiac involvement

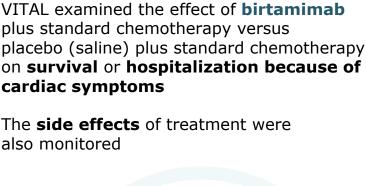
and react to it





also monitored

that were newly diagnosed and not previously treated



44%

43%

43%

40%

34%

43%

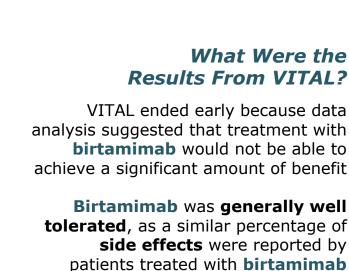
42% Constipation 42% Diarrhea 40% 42% Dyspnea 31% 32%

Peripheral edema

Fatigue

Nausea

What did VITAL Measure?

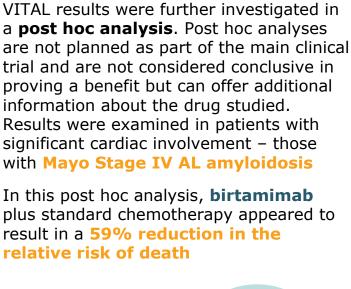


plus chemotherapy and those treated

with placebo plus chemotherapy

reduction

in relative



AFFIR What Is the Phase 3 AFFIRM-AL Clinical Trial Measuring?

risk of **Mayo Stage IV** death information about the drug studied. **AL amyloidosis** Results were examined in patients with significant cardiac involvement - those with Mayo Stage IV AL amyloidosis In this post hoc analysis, **birtamimab** plus standard chemotherapy appeared to result in a 59% reduction in the relative risk of death In patients with Mayo Stage IV AL amyloidosis, the addition of **birtamimab** to chemotherapy did not result in higher rates of side effects



Prothena

AFFIRM-AL

Surviva

function

AFFIRM-AL is looking at the effect of birtamimab on survival, quality of life, and physical functioning in about 220 patients from >120 trial sites in 23 countries

After discussions with the FDA,

a Phase 3 clinical trial (AFFIRM-AL) was designed to confirm the potential risk reduction seen in the VITAL post hoc

analyses in a larger number of patients

with Mayo Stage IV AL amyloidosis



approximately 73 patients will receive a monthly intravenous infusion of placebo (saline) and standard of care

What Treatments Are Being

a monthly intravenous infusion of

Approximately 147 patients will receive

birtamimab plus standard of care, and

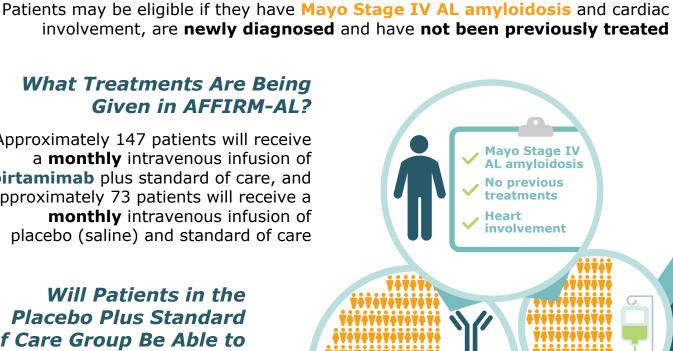
Given in AFFIRM-AL?

Will Patients in the Placebo Plus Standard of Care Group Be Able to Receive Birtamimab?

At the conclusion of the main phase of the AFFIRM-AL trial,

all patients may enter the open-label extension phase

of the trial and receive a monthly intravenous infusion of birtamimab plus standard of care for up to 2 years



Who Can Be Part of AFFIRM-AL?

Find out more about

Prothena and the AFFIRM-AL clinical trial



©2024 Prothena

Prothena website



AFFIRM-AL website

MED-GL--240002