



AG10-201: A Phase 2, Randomized, Double-Blind, Placebo-Controlled Study of AG10 versus Placebo in ATTR-CM



Background

- Transthyretin (TTR) amyloid cardiomyopathy (ATTR-CM) is an increasingly recognized form of heart failure for which there are no currently approved therapies¹
- ATTR-CM occurs when transthyretin amyloid fibrils aggregate and deposit in the myocardium, resulting in an infiltrative, restrictive cardiomyopathy characterized by both right and left heart failure, initially with preserved ejection fraction
- The disease results in progressive morbidity and high mortality due to the lack of disease-modifying therapies and limited responsiveness to standard heart failure treatments
- The initiating step of disease pathogenesis is the destabilization of the TTR tetrameric protein into its constituent monomers and subsequent misfolding into amyloid fibrils
- AG10 is a highly selective and potent stabilizer of TTR that mimics the T119M rescue mutation and has the potential to become a disease-modifying treatment for patients with either mutant or wild-type ATTR cardiomyopathy²
- AG10 was found to be well-tolerated and demonstrated near-complete TTR stabilization in a recently completed Phase I study in healthy volunteers³

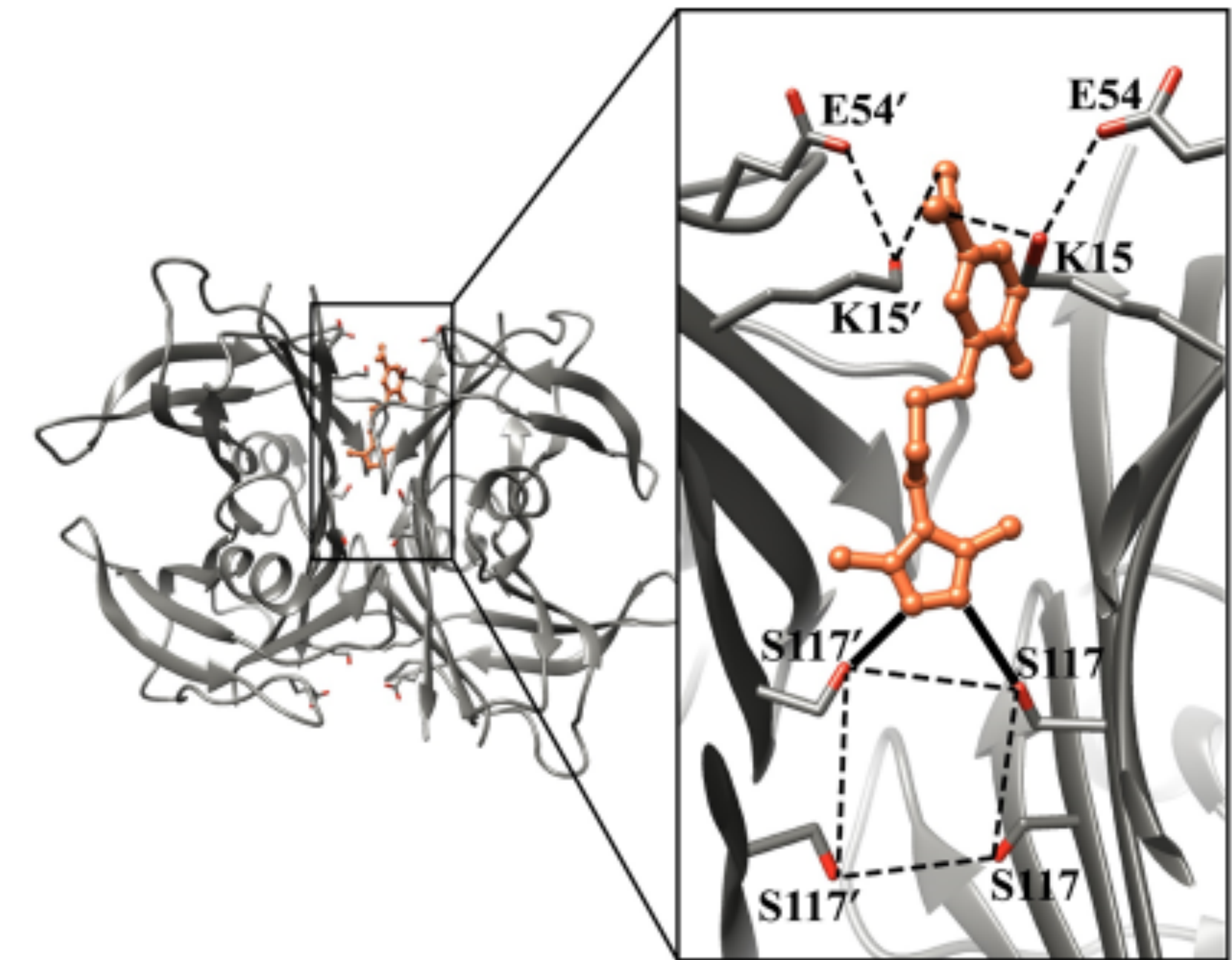


Figure 1: AG10-TTR binding mimics T119 rescue mutation

Primary Endpoints

- The primary endpoint is to characterize the safety and tolerability of AG10 administered to adult patients with symptomatic ATTR-CM over 28 days of dosing.

Secondary Endpoints

- Pharmacokinetics: The PK measurements of AG10 and metabolite will be performed by a designated bioanalytical laboratory after the first dose and at steady state (Day 14, Day 28), and then at follow up.
- Pharmacodynamics: The PD measurements of AG10 will be assessed by prealbumin levels and established assays of TTR stabilization, including FPE assay and Western blot, and to describe the PK-PD relationship of AG10 in adult patients with symptomatic ATTR-CM.

Key Inclusion Criteria

- Be a male or female ≥18 to ≤90 years of age.
- Have an established diagnosis of ATTR-CM with either wild-type transthyretin or a variant transthyretin genotype (assessed by genotyping, with patients with concurrent monoclonal gammopathy of undetermined significance requiring a confirmatory test using mass spectrometry) as defined by either positive endomyocardial biopsy or positive technetium pyrophosphate scan.
- Have a history of heart failure evidenced by at least one prior hospitalization for heart failure or clinical evidence of heart failure (without hospitalization) requiring medical management.
- Have NYHA Class II-III symptoms.
- For patients taking cardiovascular medical therapy, with the exception of diuretic dosing, must be on stable doses (defined as no greater than 50% dose adjustment and no categorical changes of medications) for at least 2 weeks prior to Screening.

Key Exclusion Criteria

- Acute myocardial infarction, acute coronary syndrome or coronary revascularization within 90 days prior to Screening.
- Experienced stroke within 90 days prior to Screening.
- Has hemodynamic instability at Screening or Randomization that, in the judgment of the PI, would pose too great a risk for participation in the study.

Key Exclusion Criteria cont.

- Is likely to undergo heart transplantation within the next year.
- Has confirmed diagnosis of light-chain amyloidosis.
- Has abnormalities in clinical laboratory tests or clinically significant ongoing medical condition at Screening or Randomization that, in the judgment of the PI, would pose too great a risk for participation in the study.
- Current treatment with diflunisal, tafamidis, green tea, doxycycline, TUDCA/Ursodiol, Patisiran or Inotersen within 14 days or 5 half-lives of the prior investigational agent (whichever is longer) prior to Screening.

Study Design

- Randomized, double-blind, placebo-controlled, multicenter
- Eligible subjects will be randomized in a 1:1:1 ratio to AG10 400 mg twice daily, AG10 800 mg twice daily, or matching placebo for 28 days
- 49 subjects randomized (~ 16 subjects per arm)
- Following completion of double-blind treatment phase, subjects may continue in a separate open-label extension study

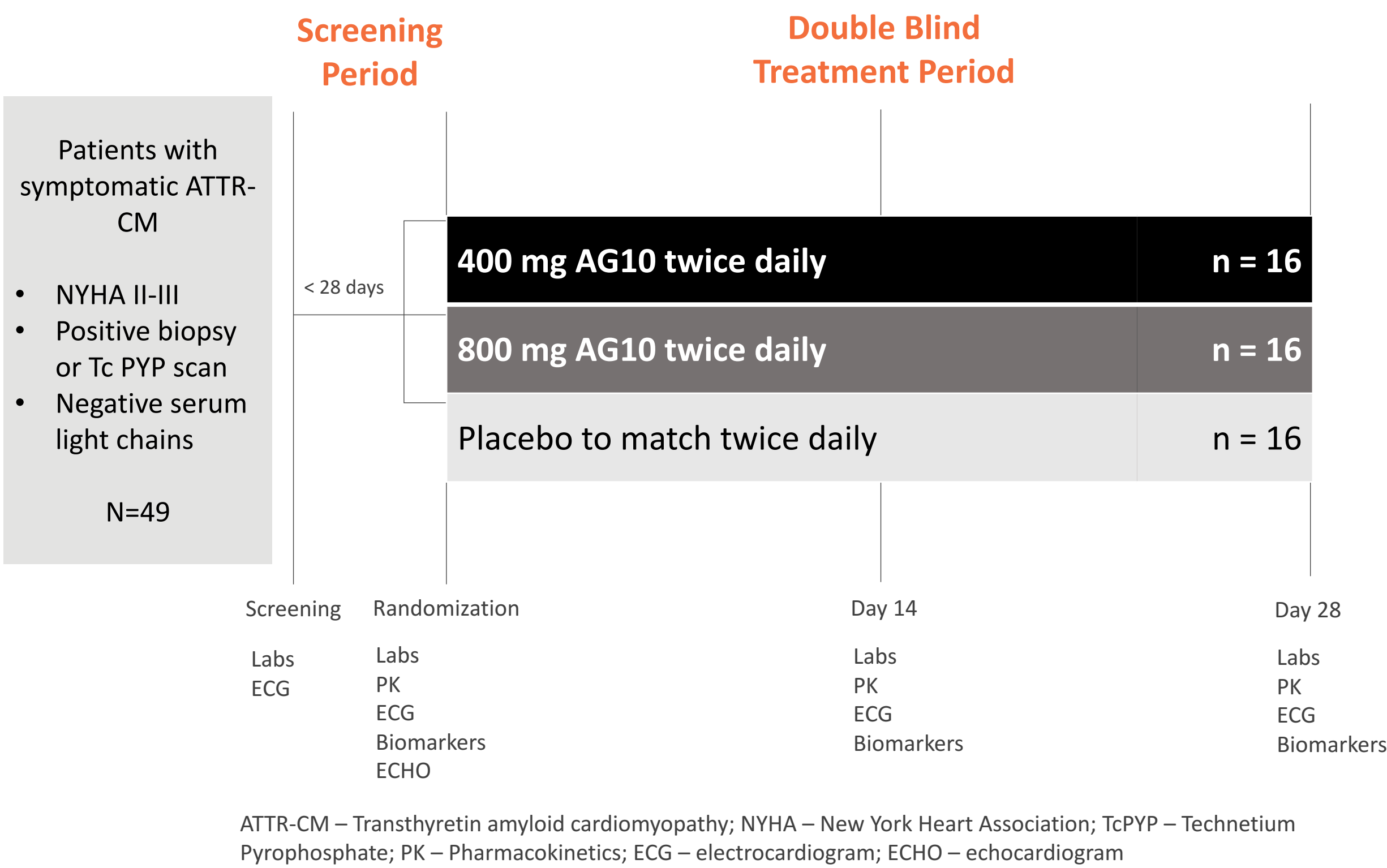


Figure 2: AG10-201 Study Schema

Participating centers (map)

Nine centers across the United States ClinicalTrials.gov Identifier: NCT03458130



Study Update

Enrollment complete as of 18 June 2018:

- Screened 53
- Randomized 49

AG10 Future Development

A global phase 3 study in patients with symptomatic ATTR-CM is planned to begin in 2019. If you are interested in becoming a study site or interested in a list of sites in your area that will accepting patients for enrollment, please contact:

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References

- Ruberg FL, et al. Transthyretin (TTR) Cardiac Amyloidosis Circulation. 2012;126:1286-1300.
- Penchala S. et al. AG10 inhibits amyloidogenesis and cellular toxicity of the familial amyloid cardiomyopathy-associated V122I transthyretin. Proc Natl Acad Sci USA 2013, 110:9992-7.
- Hellawell J, et al. AG10, A novel, potent and selective transthyretin stabilizer, is well tolerated at doses resulting in target therapeutic blood levels, and demonstrates clinical proof-of-concept in healthy volunteers. Heart Failure Society of America, Nashville, TN. September 15, 2018.