

# Atherosclerotic Cardiovascular Risk Assessment in a 24-Week, Randomized, Double-Blind, Placebo-Controlled Study of Aldafermin



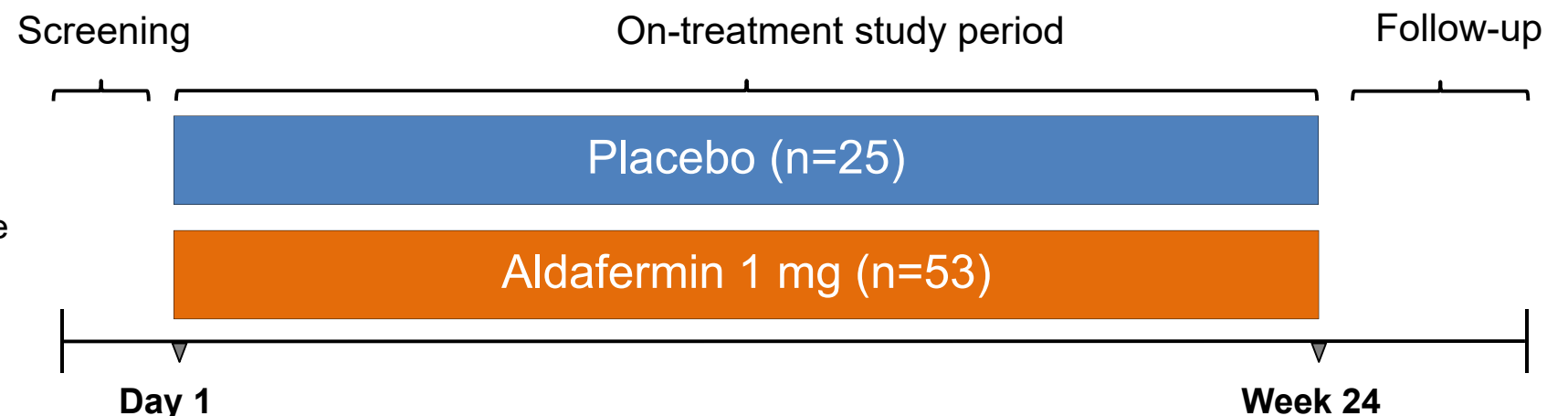
- Aldafermin (NGM282) is an engineered FGF19 analogue that inhibits bile acid synthesis and regulates metabolic homeostasis <sup>1</sup>
- In a 24-week, randomized, double-blind, placebo-controlled study in NASH patients with serial liver biopsies, aldafermin treatment resulted in liver fat reduction, fibrosis improvement and NASH resolution <sup>2</sup>
- Here we report results on cardiovascular risk assessment and key lipoproteins implicated in atherosclerosis from this study

## Population:

NASH, F2 or F3, NAS  $\geq 4$ , MRI-PDFF  $\geq 8\%$

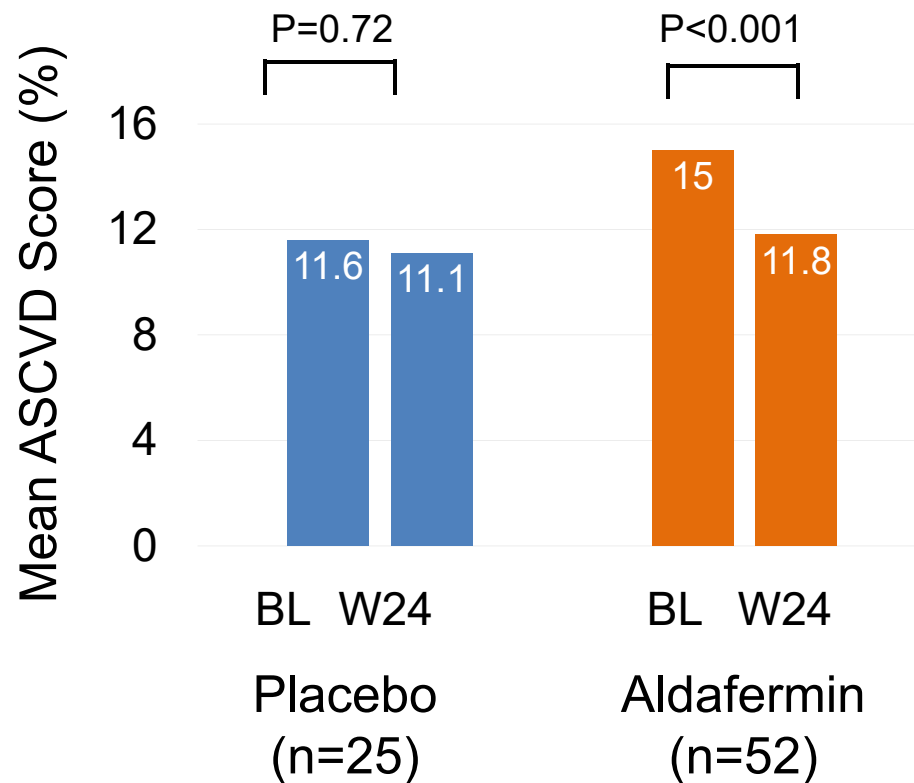
## Lipid management:

As pre-specified in the protocol, subjects were to start with rosuvastatin if statin naïve or switch to rosuvastatin if already on statin therapy, to treat LDL-C elevations of  $>10$  mg/dL from baseline <sup>3</sup>

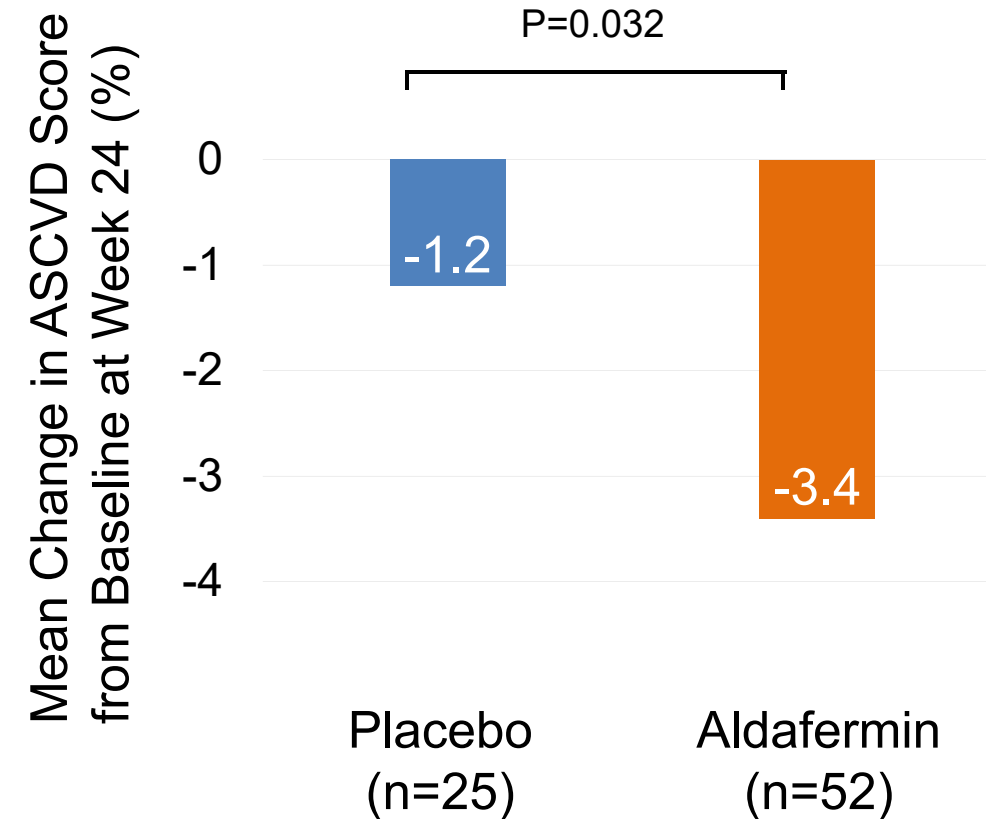


# 10-Year ASCVD Risk Score Was Reduced in the Aldafermin Group Compared to Placebo at Week 24

## 10-Year ASCVD Risk Score



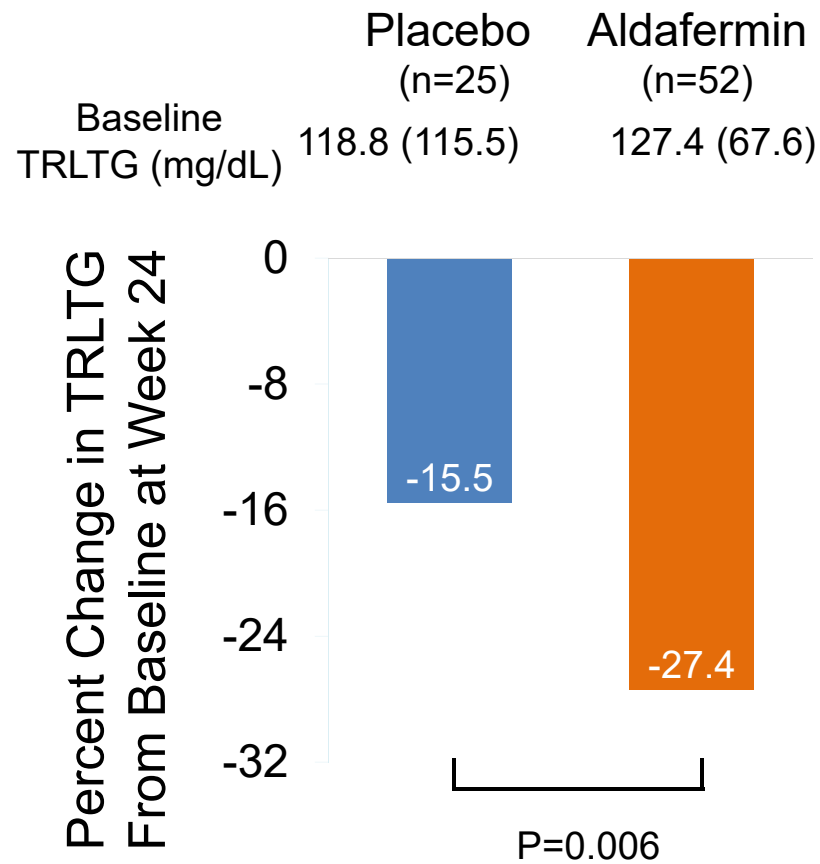
## Change in 10-Year ASCVD Risk Score



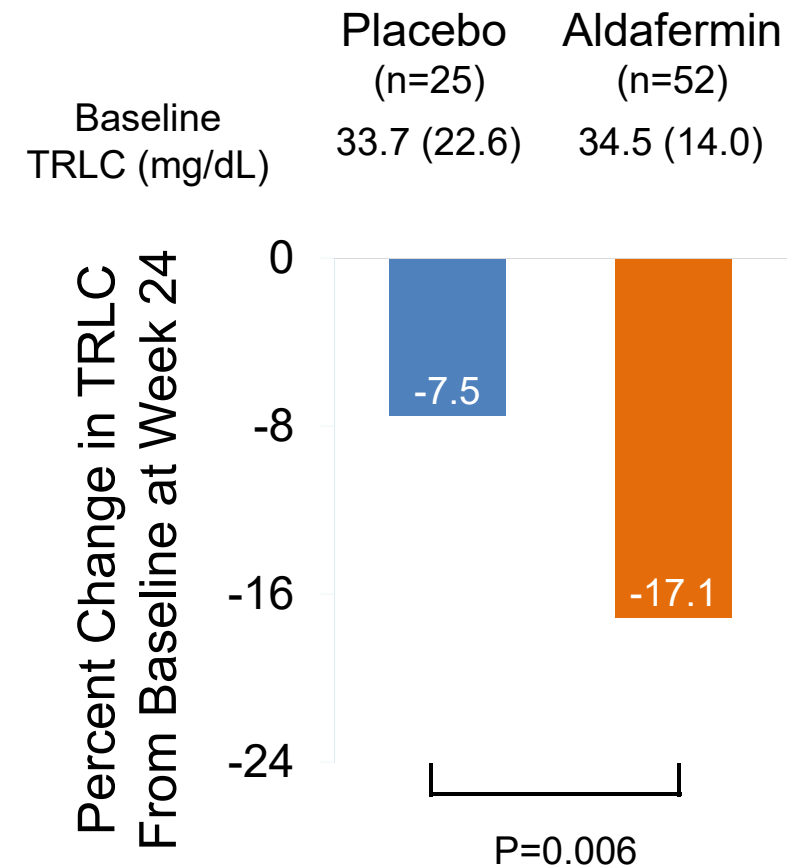
# Both Triglyceride Content and Cholesterol Content in the TRLs Were Lower in the Aldafermin Group versus Placebo at Week 24



## TRL Triglyceride Content



## TRL Cholesterol Content

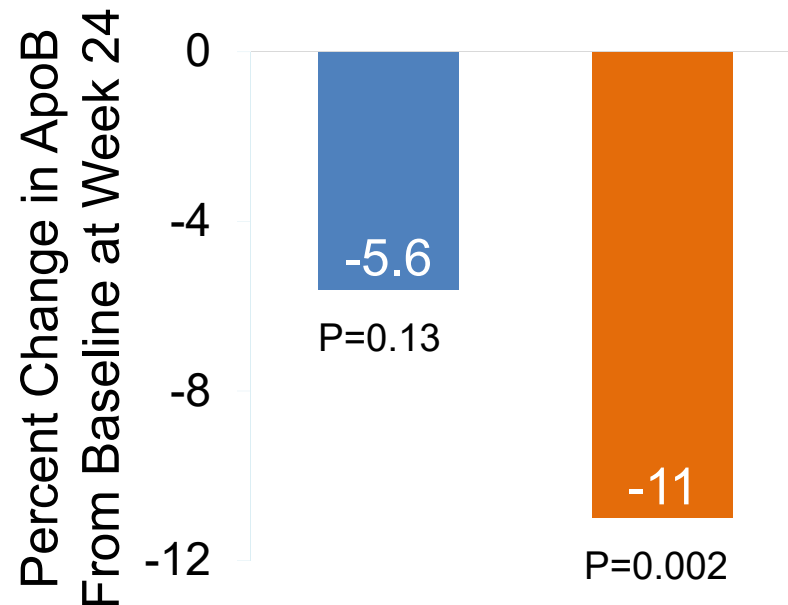


# Reduction of the Pro-Atherogenic Lipoprotein ApoB and Increase of the Anti-Atherogenic Lipoprotein ApoA1 in the Aldafermin Group



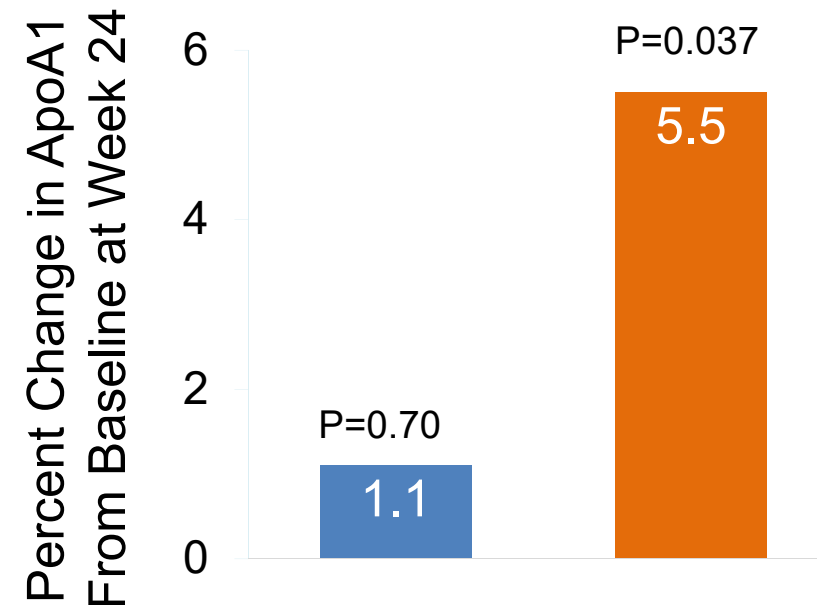
## Apo B

|                       | Placebo<br>(n=25) | Aldafermin<br>(n=52) |
|-----------------------|-------------------|----------------------|
| Baseline ApoB (mg/dL) | 86.0 (23.8)       | 88.1 (20.4)          |



## Apo A1

|                        | Placebo<br>(n=25) | Aldafermin<br>(n=52) |
|------------------------|-------------------|----------------------|
| Baseline ApoA1 (mg/dL) | 139.3 (25.0)      | 136.7 (23.0)         |



P vs baseline

# Conclusion

- Aldafermin-associated cholesterol increase can be safely managed with a statin
- At the end of treatment, a greater reduction in the 10-year ASCVD risk score was achieved in the aldafermin group compared with placebo
- Patients in the aldafermin group had lower triglyceride and cholesterol content in TRL, lower levels of pro-atherogenic lipoprotein ApoB, and higher levels of the anti-atherogenic lipoprotein ApoA1 at week 24
- Patients in the aldafermin group, but not the placebo group, had reductions from baseline in lipoprotein insulin resistance index at week 24
- In this study in patients with NASH and fibrosis, an overall favorable cardiovascular risk profile was achieved in the aldafermin arm

## Acknowledgment

- We thank all of the patients who participated in this study, and the investigators, study coordinators and staff for their support