

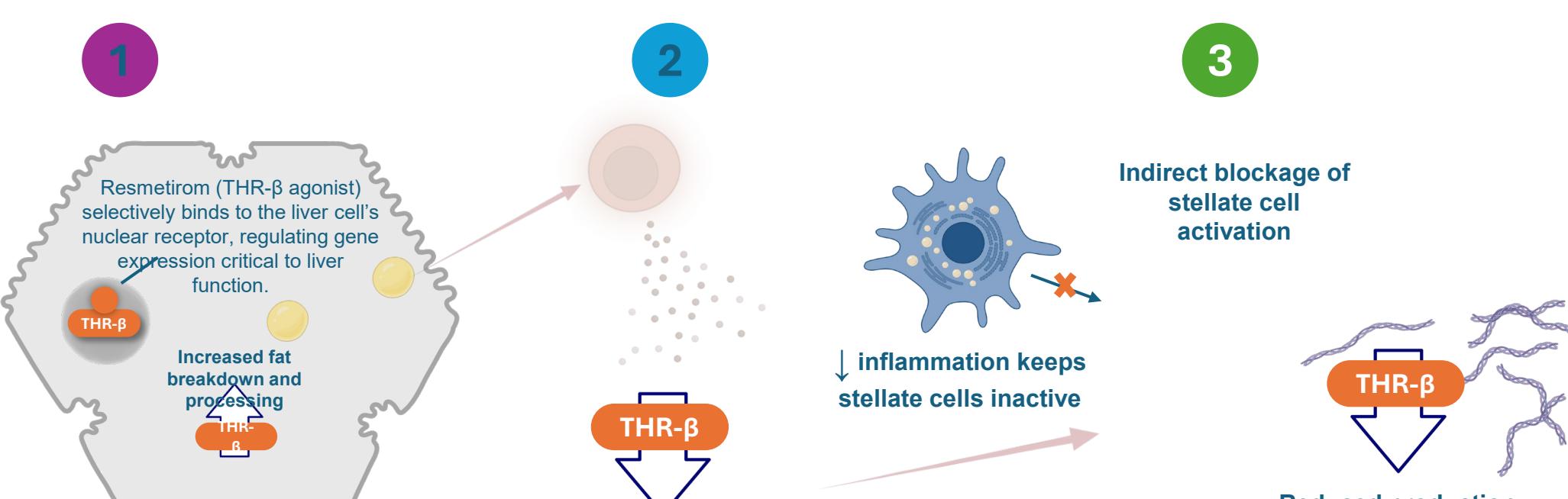
## INTRODUCTION

### Unmet Need in Patients with MASH Cirrhosis

High risk of negative outcomes, no approved disease modifying therapies

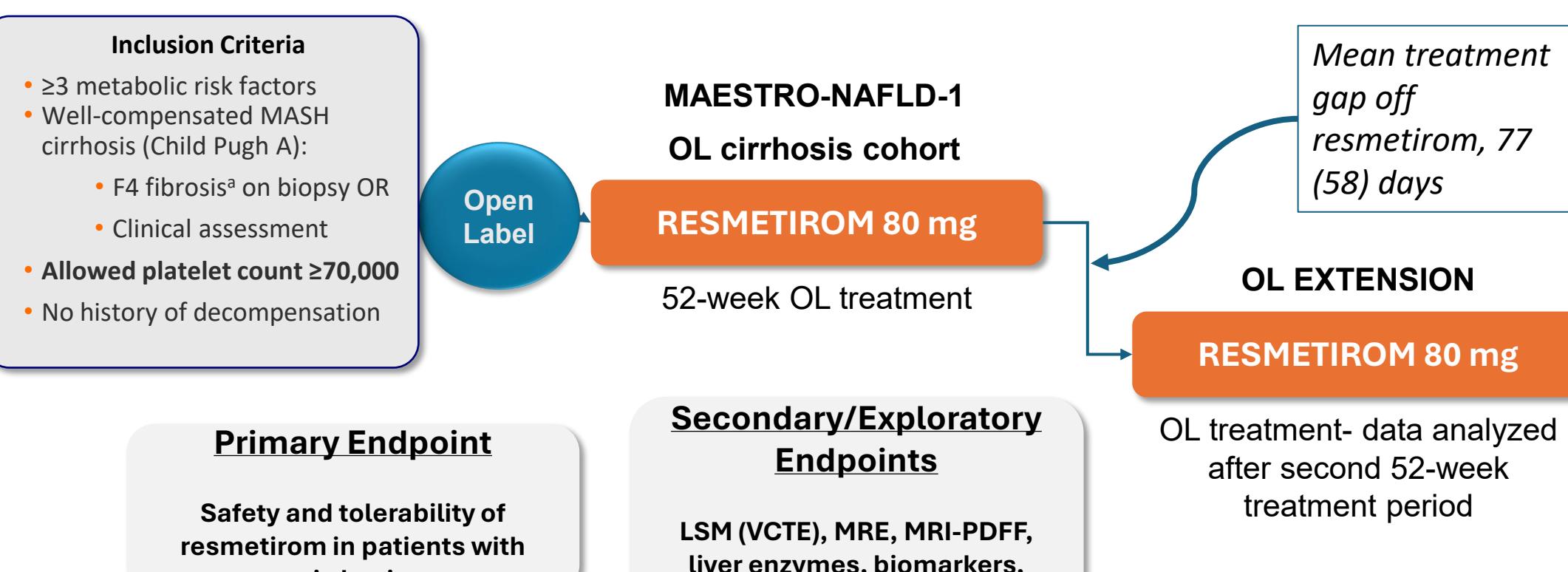
- Resmetirom, an oral, once-daily, liver-directed thyroid hormone receptor  $\beta$  (THR- $\beta$ ) agonist, is FDA-approved for treatment of MASH with liver fibrosis (as of 2024).
- No approved therapies for patients with compensated cirrhosis due to MASH.
- Cirrhosis (F4) is highly associated with clinical outcomes including hepatic decompensation events, liver failure, liver transplant and mortality.

### Resmetirom, a THR- $\beta$ Agonist, Works Directly in the Liver to Improve Critical Hepatic Processes and Reduce Fibrosis

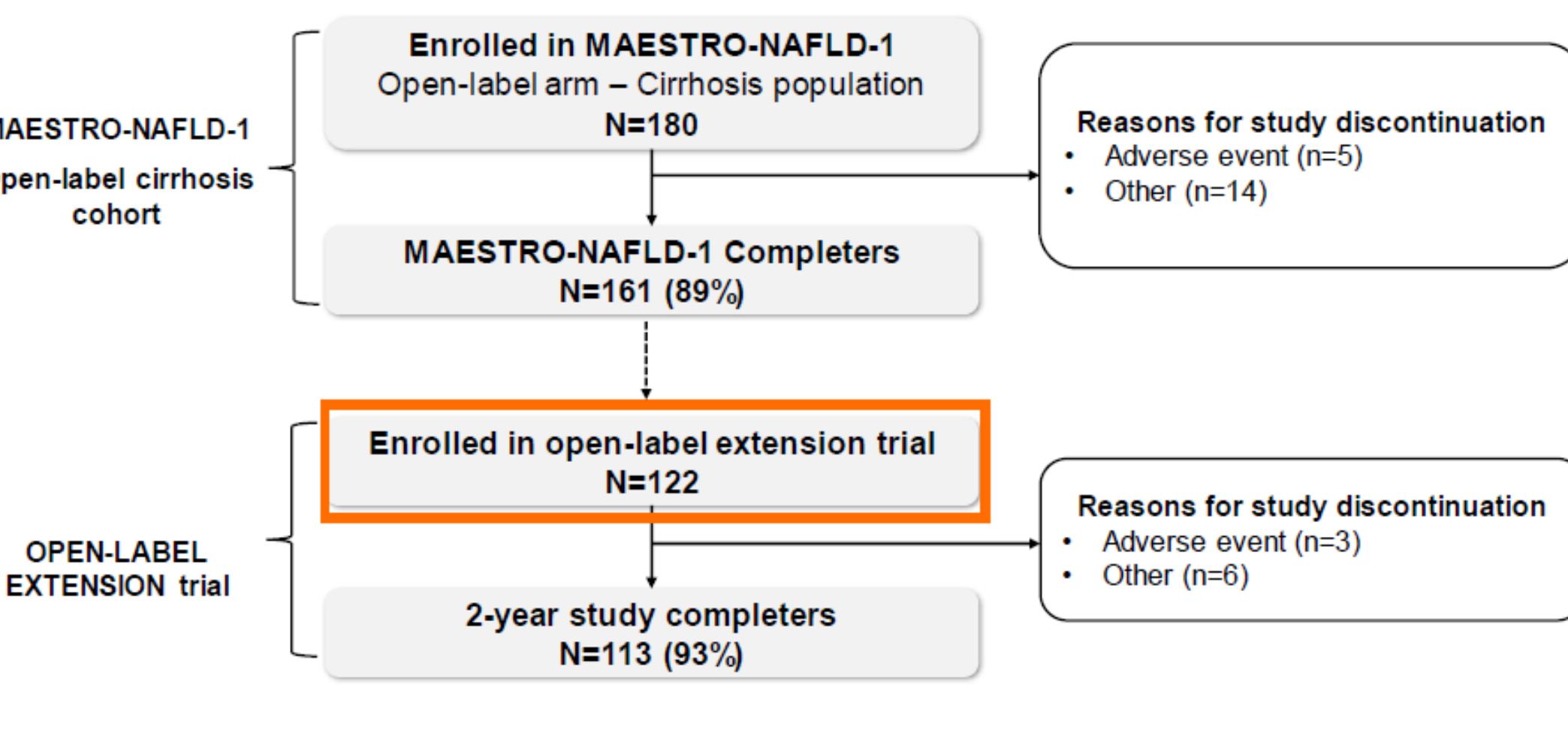


- Increase in clearance of defective mitochondria (mitophagy) and synthesis of healthy mitochondria (mitochondrial biogenesis)
- Liver THR- $\beta$  Activity identified as a "Master Regulator"<sup>3</sup> in protecting from progression to decompensated MASH Cirrhosis

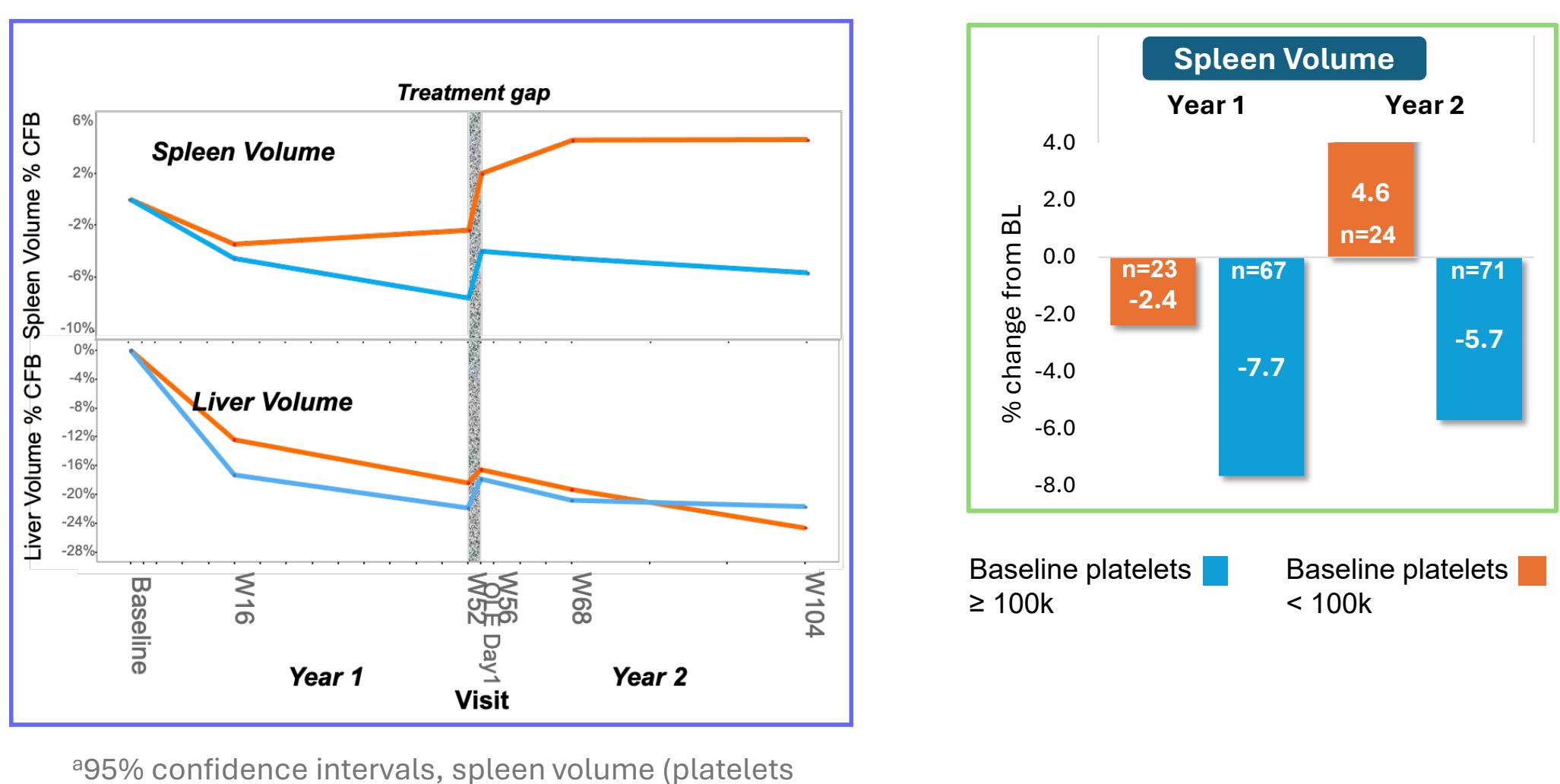
### Open-Label (OL) 52 Week Cirrhosis Arm of MAESTRO-NAFLD-1 Followed by a 52 Week Extension Trial



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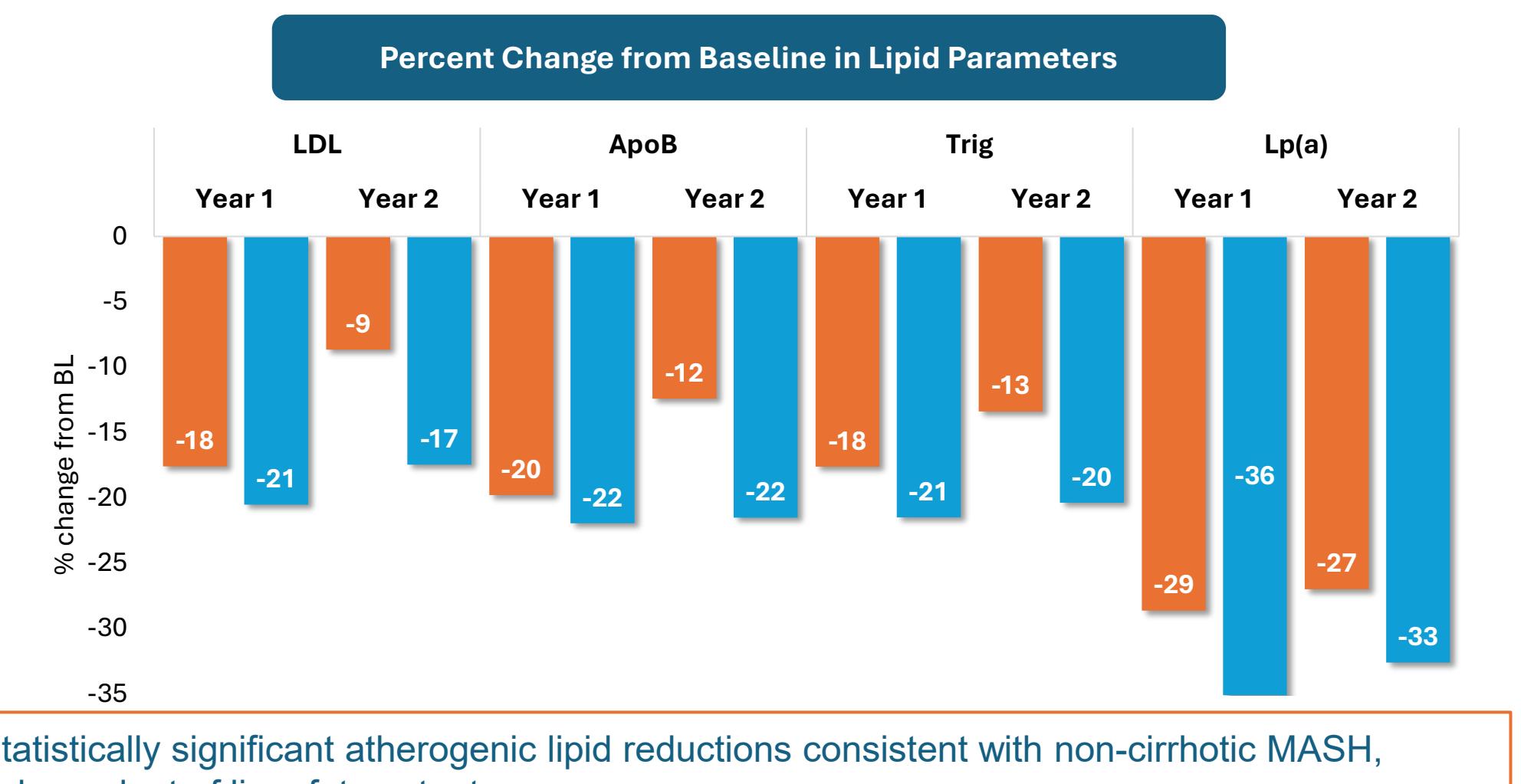


### Spleen Volume Improvements



- In Year 1, both platelet groups showed a decline in spleen and liver volume
  - The decrease in liver volume was independent of liver fat content
- The gap in resmetirom treatment led to a rapid increase in spleen volume (independent of gap length), more notable in group with baseline platelets <100K
- Year 2 of treatment stabilized spleen volume in patients with platelets <100K and significantly<sup>a</sup> decreased spleen volume in patients with platelets ≥100K, correlated with an increase in platelet count (correlation coefficient = -0.53)

### Sustained Reductions in Atherogenic Lipids



Statistically significant atherogenic lipid reductions consistent with non-cirrhotic MASH, independent of liver fat content

## RESULTS

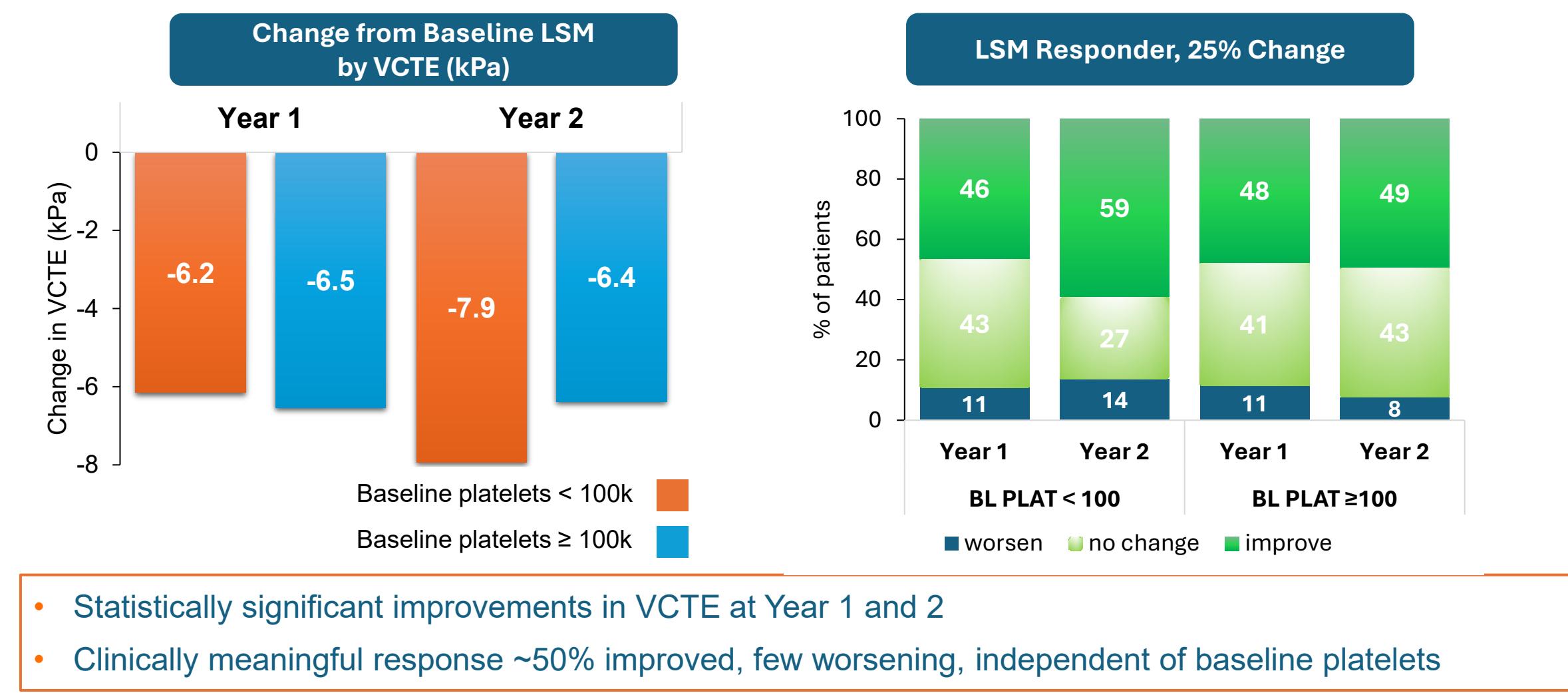
### Baseline Characteristics

|                        | BL Platelets < 100 (N=30) | BL Platelets ≥ 100 (N=92) |
|------------------------|---------------------------|---------------------------|
| Age, years             | 61 (56, 66)               | 62 (57, 69)               |
| Sex, Female            | 14 (46.7%)                | 54 (58.7%)                |
| BMI, kg/m <sup>2</sup> | 35.1 (32.7, 38.9)         | 33.4 (30.4, 39.1)         |
| Type 2 Diabetes        | 22 (73.3%)                | 63 (68.5%)                |
| VCTE, kPa              | 26.4 (17.7, 39.6)         | 19.3 (16.1, 27.4)         |
| CAP, dBm               | 317.5 (291.5, 376.5)      | 331.0 (292.5, 368.5)      |
| MRE, kPa               | 5.9 (4.9, 6.7)            | 5.1 (4.0, 5.9)            |
| MRI-PDFF, %            | 6.7 (4.8, 8.6)            | 9.2 (6.6, 12.2)           |
| Agile 3+               | 0.98 (0.97, 0.99)         | 0.95 (0.87, 0.98)         |
| Agile 4                | 0.85 (0.80, 0.92)         | 0.56 (0.31, 0.72)         |
| Liver Volume, mL       | 2035.3 (1771.3, 2468.0)   | 2295.0 (1920.5, 2687.1)   |
| Spleen Volume, mL      | 906.5 (657.2, 1121.1)     | 424.7 (305.4, 633.8)      |

Major differences in subgroups:

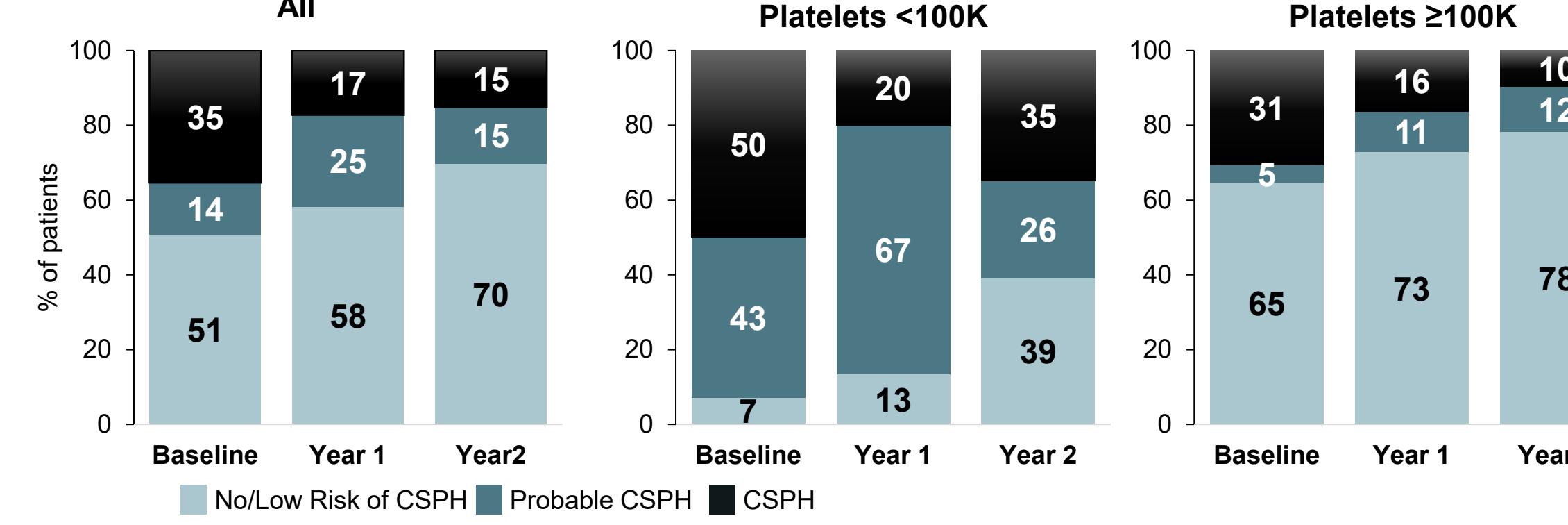
- Spleen volume, twice as high in low platelet group reflective of advanced portal hypertension
- Agile-4, MRE, VCTE, FIB-4, all higher in low platelet group

### Reduction in LSM by VCTE: Magnitude and Response



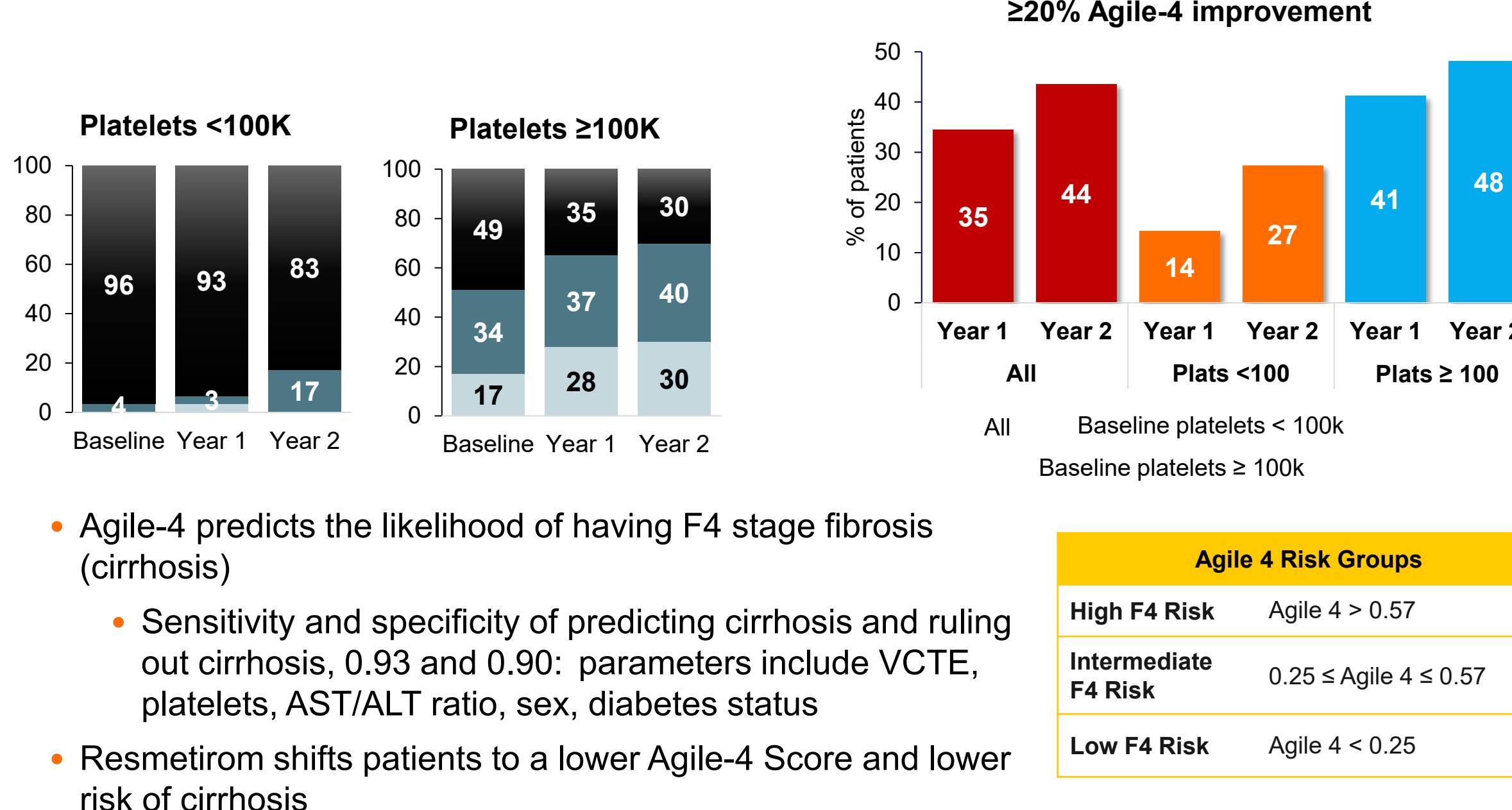
- Statistically significant improvements in VCTE at Year 1 and 2
- Clinically meaningful response ~50% improved, few worsening, independent of baseline platelets

### Baveno Clinically Significant Portal Hypertension (CSPH) Risk



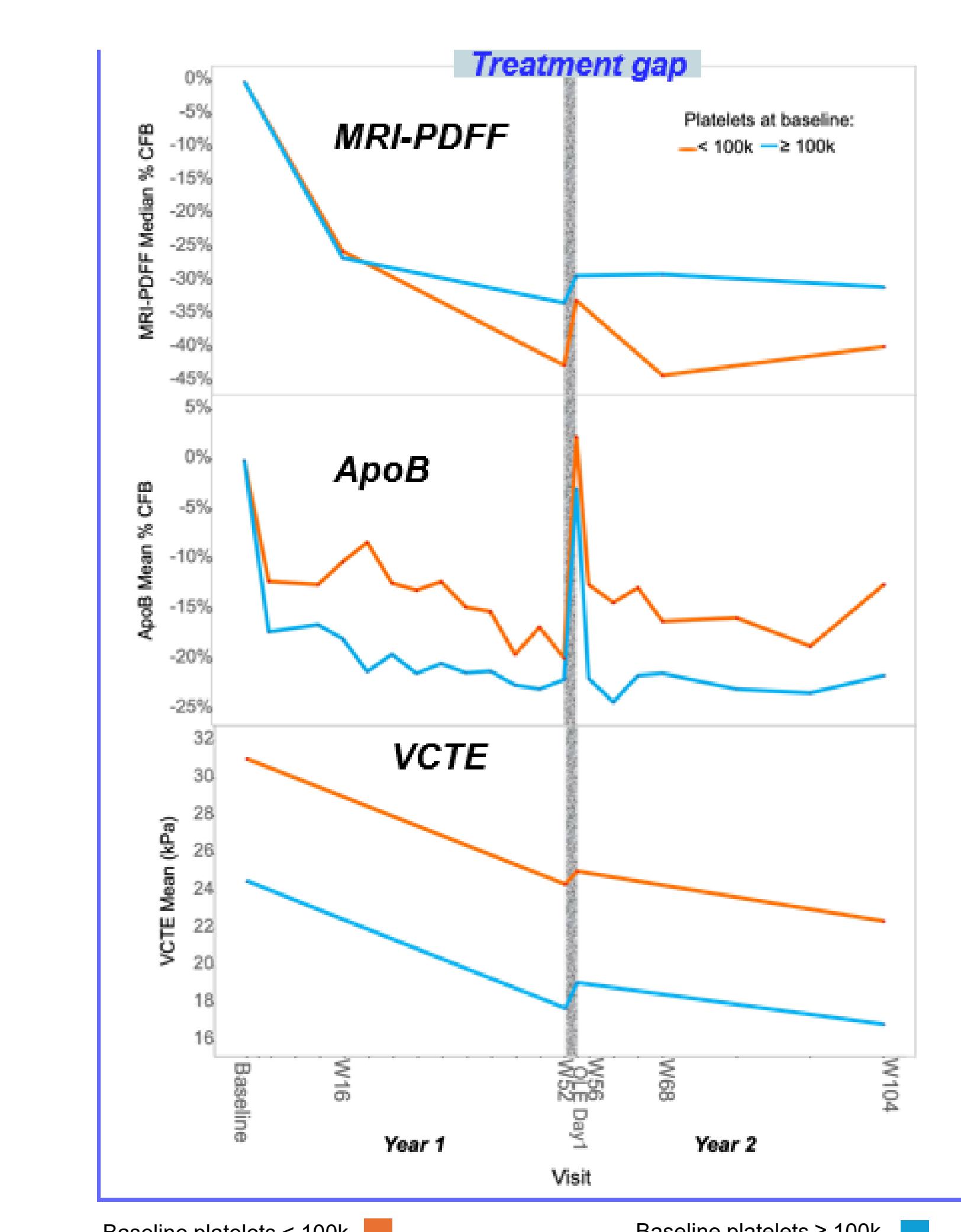
- >90% of patient with platelets <100k have CSPH/probable CSPH
- Resmetirom treatment shifts 2/3 of patients with CSPH to lower Baveno CSPH risk score

### AGILE-4 Cirrhosis Risk



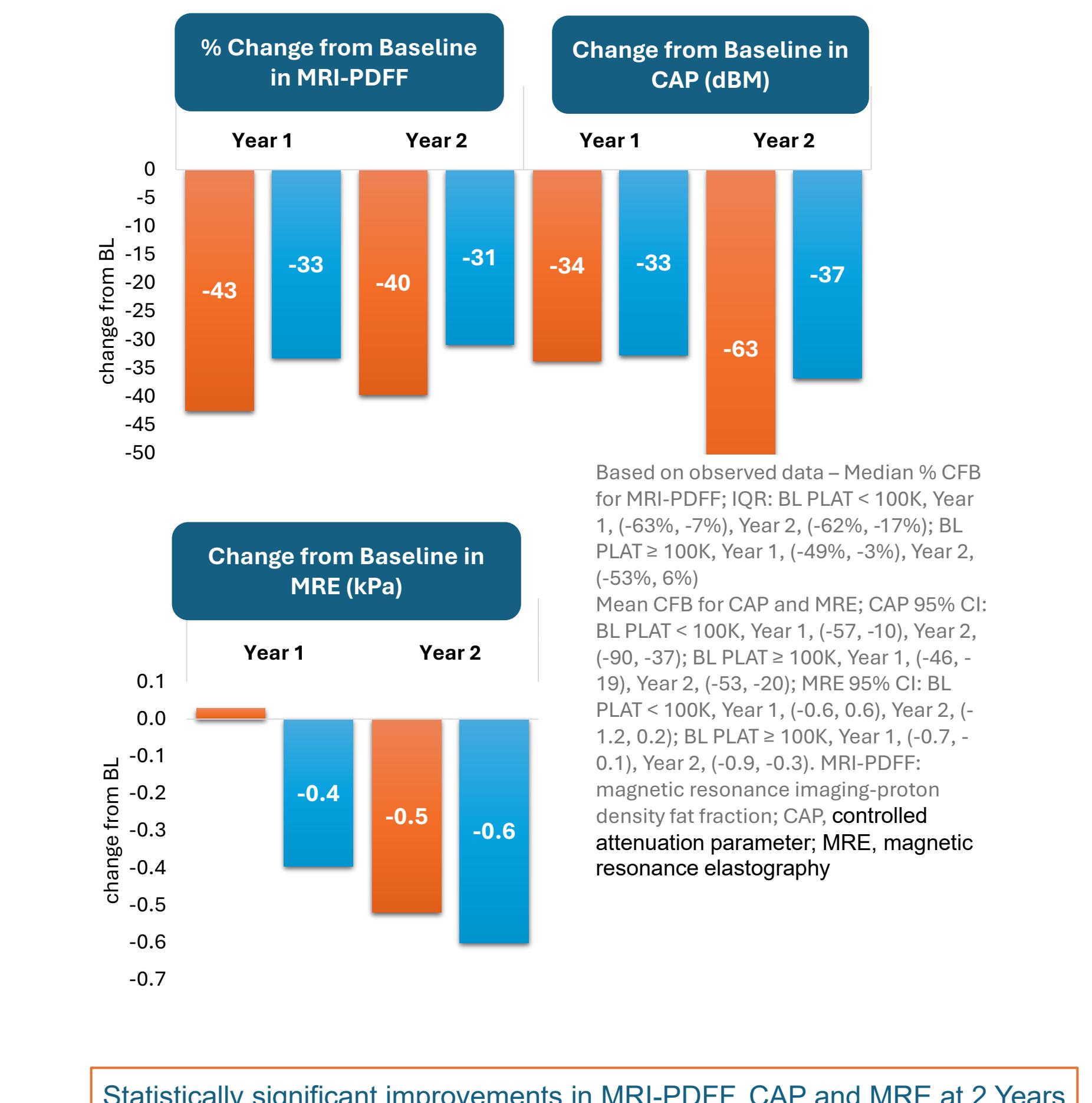
- Agile-4 predicts the likelihood of having F4 stage fibrosis (cirrhosis)
  - Sensitivity and specificity of predicting cirrhosis and ruling out cirrhosis, 0.93 and 0.90; parameters include VCTE, platelets, AST/ALT ratio, sex, diabetes status
  - Resmetirom shifts patients to a lower Agile-4 Score and lower risk of cirrhosis

### Impact of Resmetirom Treatment Interruption



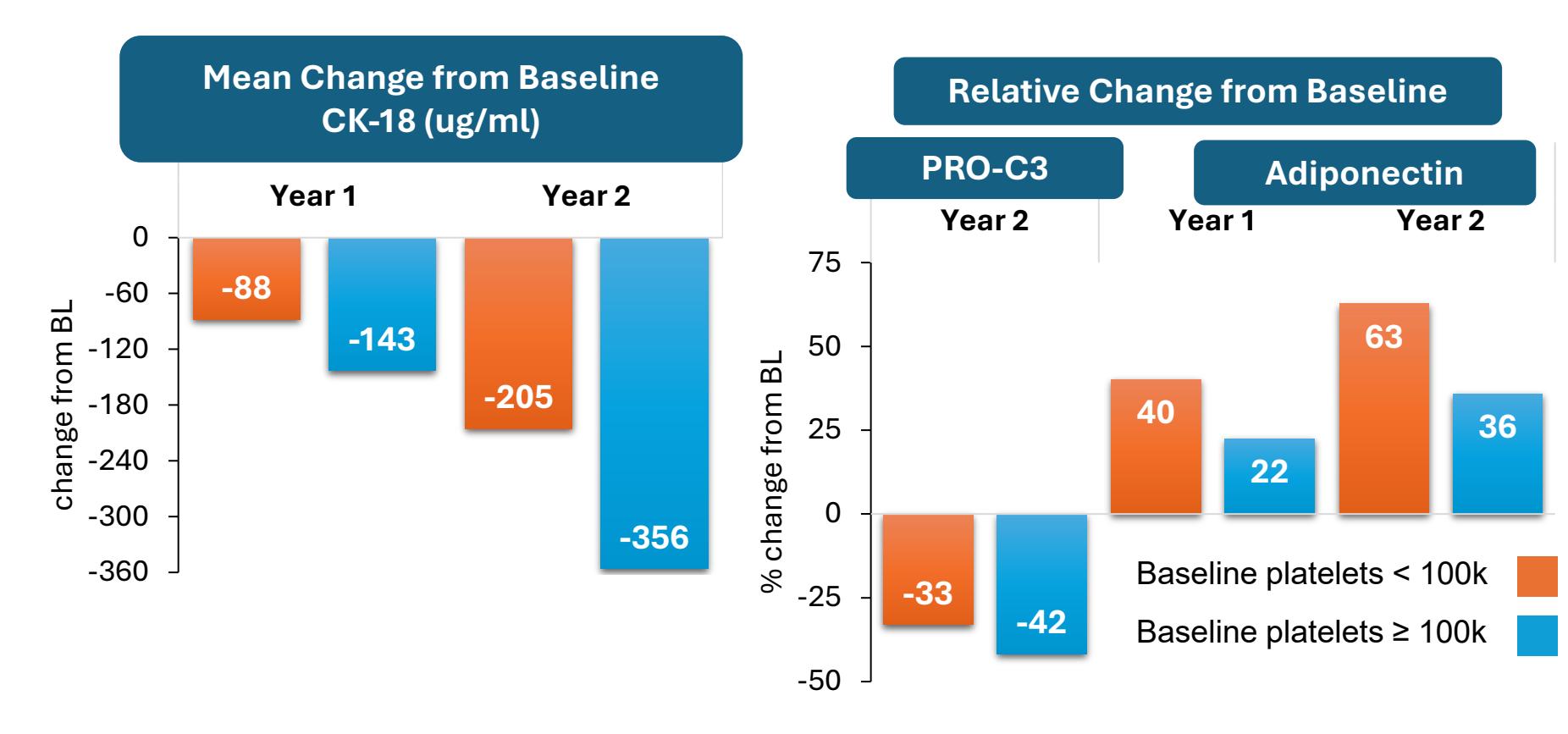
- Resmetirom treatment was interrupted for approximately 77 days between Year 1 and Year 2
- MRI-PDFF, Apolipoprotein B (ApoB), VCTE (liver stiffness) decreased during Year 1 of resmetirom treatment and increased during the treatment gap between Year 1 and 2
- Addition of resmetirom at Year 2 led to restoration of resmetirom treatment effect that was observed at the end of Year 1
- Results for these 3 biomarker measures were generally independent of baseline platelet count

### Improvement in Imaging Measures Independent of Baseline Platelets



Statistically significant improvements in MRI-PDFF, CAP and MRE at 2 Years

### Reductions in Fibrosis and Liver Injury Biomarkers



Based on observed data – Mean CFB for MRI-PDFF: IQR: BL PLAT < 100K, Year 1, (-63%, -77%); Year 2, (-62%, -17%); BL PLAT ≥ 100K, Year 1, (-53%, 6%); Year 2, (-52%, 6%). Mean % CFB for PRO-C3 and Adiponectin: PRO-C3 95% CI: BL PLAT < 100K, Year 1, (-57, -20); Year 2, (-45, -26); Mean % CFB for Adiponectin: Adiponectin 95% CI: BL PLAT < 100K, Year 1, (-0.6, 0.6); Year 2, (-1.2, 0.2); BL PLAT ≥ 100K, Year 1, (-0.7, -0.1); Year 2, (-0.9, -0.3). MRI-PDFF: magnetic resonance imaging-proton density fat fraction; CAP controlled attenuation parameter; MRE, magnetic resonance elastography

## SUMMARY

- Resmetirom treatment for 2 years led to statistically significant improvement in multiple imaging and biomarker parameters
- Temporary interruption of resmetirom treatment between year 1 and 2 led to temporary attenuation of beneficial effects that generally reversed with treatment restoration
- Patients with platelets <100K at baseline, representing 25% of the enrolled population, had greatly enlarged spleens at baseline that increased in volume when resmetirom treatment was interrupted
  - Platelets <100K was significantly associated with hepatic decompensation events
  - MRI to measure spleen volume may allow prediction of liver decompensation risk; resmetirom stabilized spleen volume in patients with low platelets and decreased spleen volume in patients with platelets ≥100K
- These findings highlight the potential of resmetirom to demonstrate clinical benefit in MAESTRO-NASH OUTCOMES, an ongoing 845 clinical outcome study in patients with cirrhosis due to MASH

