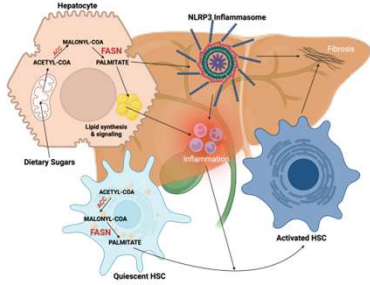


Introduction

- Denifanstat (TVB-2640) is an oral, once daily, selective fatty acid synthase (FASN) inhibitor in clinical development for MASH
- The *de novo* lipogenesis (DNL) pathway is elevated in MASH patients and converts dietary sugars to palmitate, which drives the development and progression of MASH
- FASN inhibition targets 3 hallmarks of MASH, with both direct and indirect antifibrotic effect (1):
 - Reduction of liver fat and lipotoxic species by inhibition of intrahepatic DNL
 - Blockage of stellate cell activation by inhibition of cell-based DNL
 - Reduction of inflammation through decreased NLRP3 inflammasome activity



- Digital pathology complements conventional pathology by providing more sensitive and quantitative analysis of histologic changes

Aims

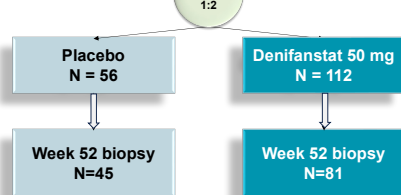
- To describe the fibrosis response to denifanstat using both conventional pathology and qFibrosis features

Methods

- FASCINATE-2**
 - A 52-week randomized, double-blind, placebo-controlled phase 2b trial. Results were previously published (2)
 - Liver histology analyses by two approaches
 - Single pathology reader
 - All digital pathology (HistoIndex)
- Primary endpoints**
 - NAS ≥ 2 points improvement without worsening of fibrosis
 - MASH resolution + NAS ≥ 2 improvement without worsening of fibrosis
- Selected secondary endpoints**
 - Improvement in liver fibrosis ≥ 1 stage without worsening of MASH
 - Digital pathology: an unstained slide was evaluated by second harmonic generation/two-photon excitation incorporating steatosis correction for qFibrosis

KEY ELIGIBILITY CRITERIA
Biopsy-proven MASH (F2/F3)

R
1:2

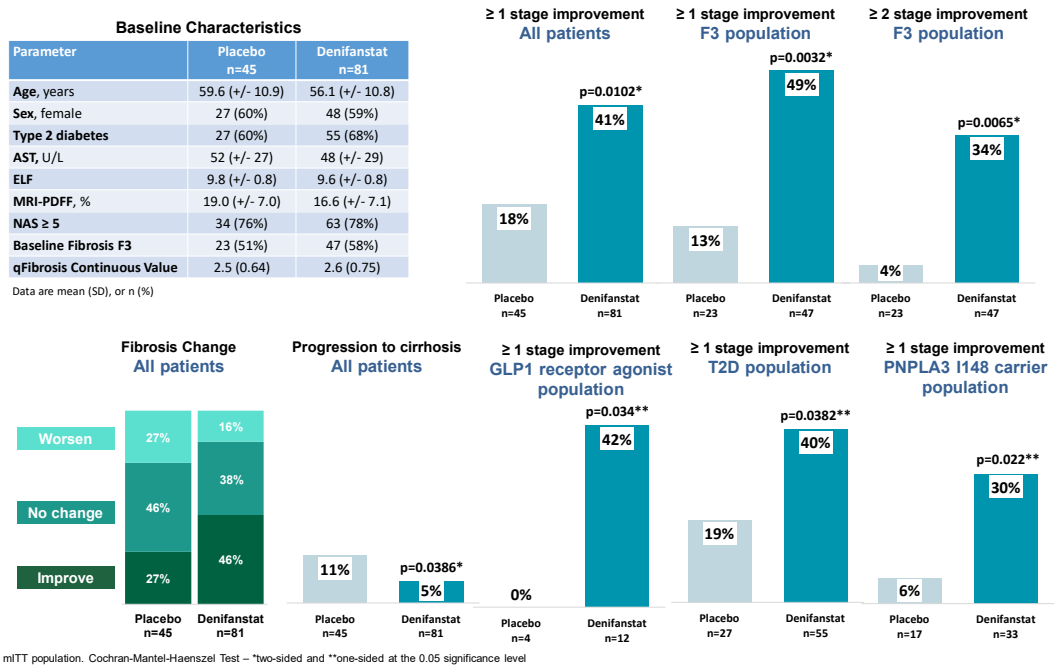


Results – Conventional Pathology

Baseline Characteristics

Parameter	Placebo n=45	Denifanstat n=81
Age, years	59.6 (+/- 10.9)	56.1 (+/- 10.8)
Sex, female	27 (60%)	48 (59%)
Type 2 diabetes	27 (60%)	55 (68%)
AST, U/L	52 (+/- 27)	48 (+/- 29)
ELF	9.8 (+/- 0.8)	9.6 (+/- 0.8)
MRI-PDFF, %	19.0 (+/- 7.0)	16.6 (+/- 7.1)
NAS ≥ 5	34 (76%)	63 (78%)
Baseline Fibrosis F3	23 (51%)	47 (58%)
qFibrosis Continuous Value	2.5 (0.64)	2.6 (0.75)

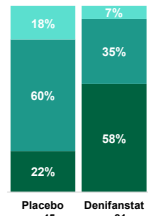
Data are mean (SD), or n (%)



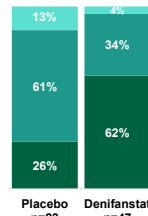
mITT population. Cochran-Mantel-Haenszel Test – two-sided and *one-sided at the 0.05 significance level

Results – Digital Pathology

qFibrosis with Steatosis Correction All patients



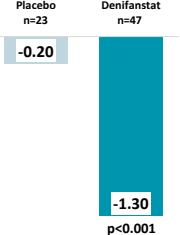
qFibrosis with Steatosis Correction F3 population



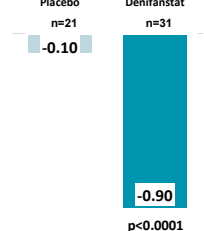
qFibrosis Continuous Value with Steatosis Correction All patients



qFibrosis Continuous Value with Steatosis Correction F3 population

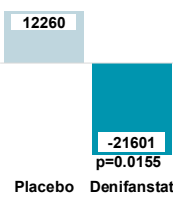


qFibrosis Continuous Value with Steatosis Correction Population considered as "no change" by conventional pathology fibrosis staging

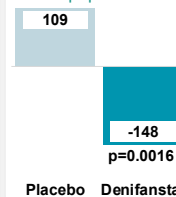


Morphometric Analysis

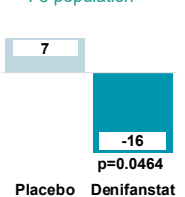
Septa Area - μm^2 F3 population*



Septa Length - μm F3 population*



Septa Width - μm F3 population*



Conclusions

- Denifanstat showed statistically significant antifibrotic effects as measured by both conventional and digital pathology, including in difficult-to-treat MASH populations
- Digital pathology also revealed fibrosis improvement in denifanstat-treated patients classified as "no change" by conventional pathology fibrosis staging, suggesting that longer treatment duration with denifanstat may potentially increase the proportion of responders
- These data demonstrate denifanstat's mechanism of action and support the initiation of phase 3 trials for denifanstat in MASH

References

- O'Farrell et al., 2022. Scientific Reports. doi:10.1038/s41598-022-19459-z
- Loomba et al., 2024. The Lancet Gastroenterology & Hepatology. doi:10.1016/S2468-1253(24)00246-2

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