

Improvement in FAST and FIB-4 Composite Biomarker Scores in Phenotypic MASH Patients Treated for 12 Weeks with Once-monthly or Bi-weekly Dosing of BOS-580, a Long-acting FGF21 Analogue

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A Randomized, Double-blind, Placebo-controlled Trial of Once-monthly or Bi-weekly BOS-580 in Patients with Phenotypic MASH



Aim

Evaluate BOS-580 treatment effect over 12 weeks on biomarker composite scores (FAST, FIB-4, APRI, ADAPT).

Baseline Composite Biomarker Scores

Composite Biomarker Scores (Mean)	Placebo (N=33)	Pooled BOS-580 (N=56)
FIB-4ª	1.15	1.29
FAST⁵	0.32	0.42
APRI℃	0.34	0.42
ADAPT ^d	5.87	5.79

Source: Modified full analysis set (Dosed subjects with valid baseline and Week 6 or Week 12 HFF results)

^aFIB-4 (age, AST, platelet count and ALT) <1.3 low probability of F3/F4 pts

^bFAST (fibroscan LSM and AST)<0.35 low risk of disease progression, >0.67 high risk for progression

°APRI (AST/Platelet ratio) <0.57 absence of advanced fibrosis

^dADAPT (age, pro-C3, platelets, presence of diabetes) >6.3 advanced fibrosis

BOS-580 Treatment Results in Significant Reduction of Composite Biomarker Scores at 12 Weeks



Percent Change From Baseline

* p-value <0.05; ** p-value <0.01; *** p-value <0.001 Based on LS means with treatment and baseline value effects in the model on the modified full analysis set BOS-580 Treatment Results in Rapid and Persistent Decrease of Composite Biomarker Scores Over 12 Weeks



* p-value <0.05; ** p-value <0.01; ** p-value <0.01 Based on LS means with treatment and baseline value effects in the model on the modified full analysis set FAST scores were determined only at baseline and 12 weeks, so no time course presented here.

Most Patients had Improved FIB-4 and FAST Risk Classification After 12 Weeks Treatment with BOS-580



¹Shah AG et al., CGH, 2009; ²Newsome PN et al., Lancet Gastroenterol Hepatol, 2020

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Summary and Conclusion

- BOS-580 leads to significant reductions in FIB-4, FAST, APRI and ADAPT scores in patients with phenotypic MASH after 12 weeks treatment with once-monthly or bi-weekly dosing compared to placebo.
- There is a rapid and significant decrease in composite biomarker scores that is sustained throughout the 12 week BOS-580 treatment course.
- BOS-580 treatment improves FIB-4 and FAST risk classification in most patients at 12 weeks.
- These results suggest that BOS-580 treatment may lead to clinical benefit in MASH patients.
- Once-monthly dosing of BOS-580 over 24 weeks is currently being evaluated for safety and efficacy in patients with biopsy-proven F2 or F3 MASH (NCT04880031).



