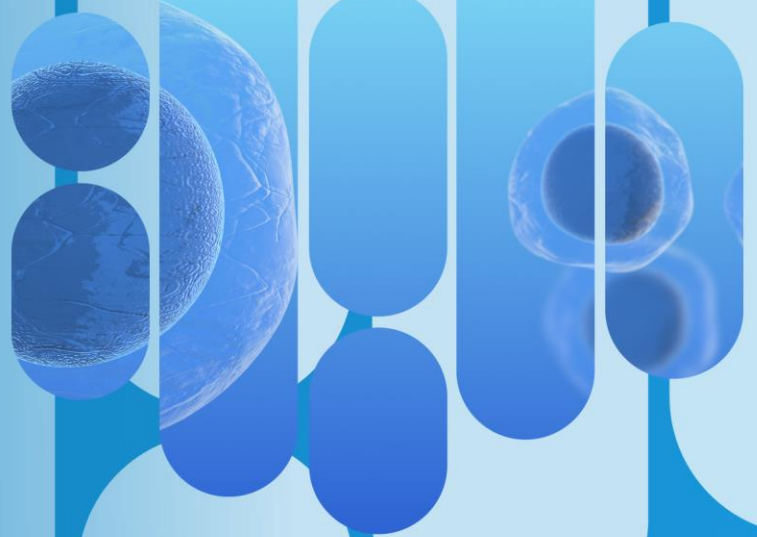


89bio

Powerful Science
Meaningful Medicines
Changing Lives

Nasdaq: ETNB

September 2024



Disclaimers

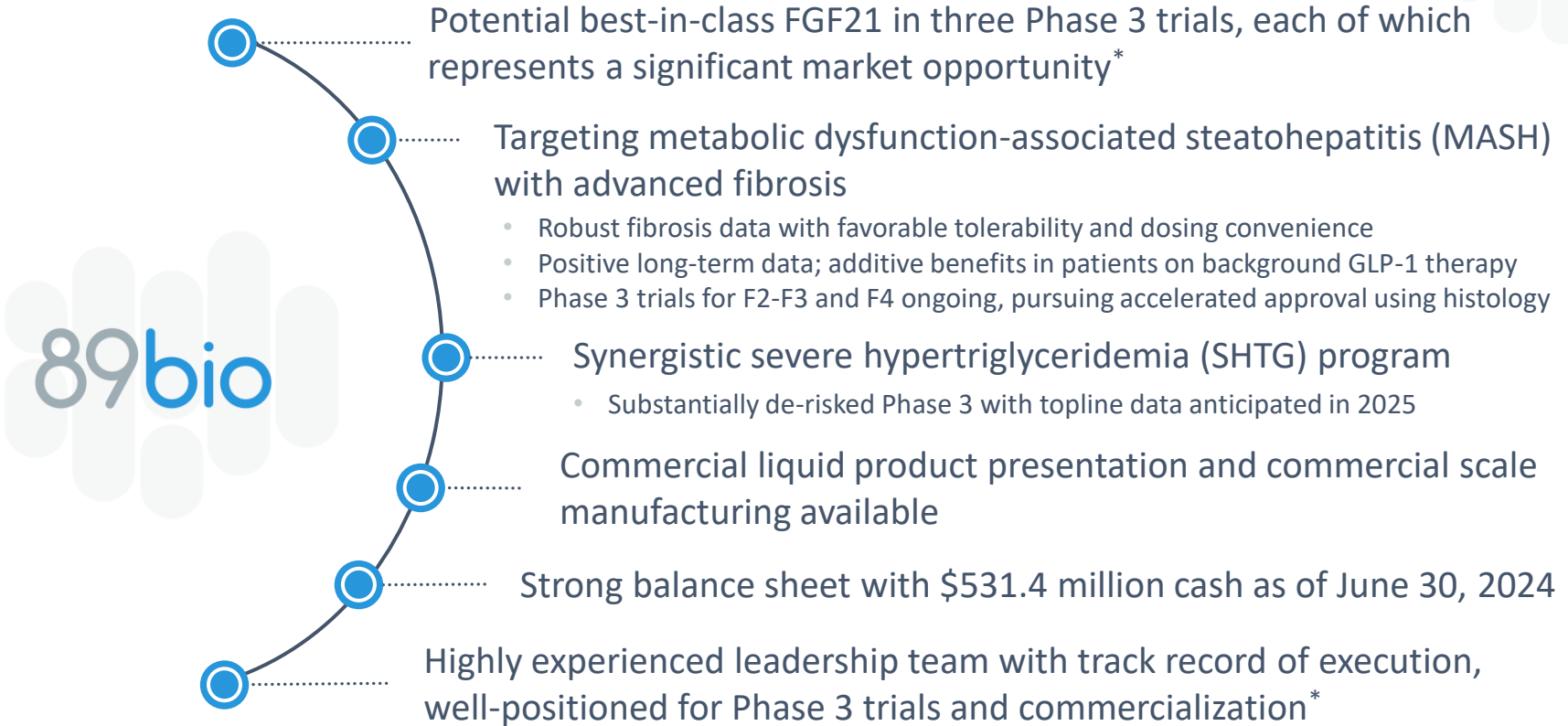
This presentation contains “forward-looking statements” within the meaning of the federal securities laws, which statements are subject to substantial risks and uncertainties and are based on estimates and assumptions. Other than statements of historical facts, all statements included in this presentation are forward-looking statements, including statements concerning our plans, objectives, goals, strategies, future events, plans or intentions relating to product candidates, potential market opportunities, estimates of market size, estimates of market growth, estimates of market share, the potential clinical benefit, complementary benefits to other therapies, effect on histology and safety and tolerability profile of pegozafermin (formerly BIO89-100), the clinical potential of pegozafermin, potential indications for pegozafermin, the association of clinical data with potential clinical benefit in other indications, the anticipated timing, design, endpoints, and conduct of our future and ongoing clinical trials for pegozafermin, the timing of anticipated milestones, the timing of regulatory meetings, the timing and likelihood of success, plans and objectives of management for future operations and future results of anticipated product development efforts and our liquidity and capital resources, including our cash position. In some cases, you can identify forward-looking statements by terms such as “may,” “might,” “will,” “objective,” “intend,” “should,” “could,” “can,” “would,” “expect,” “believe,” “design,” “estimate,” “predict,” “potential,” “plan” or the negative of these terms, and similar expressions intended to identify forward-looking statements. These statements involve known and unknown risks, uncertainties and other factors that could cause our actual results to differ materially from the forward-looking statements expressed or implied in this presentation including those described more fully our most recent Form 10-K and Form 10-Q under the caption “Risk Factors” and elsewhere in such report and in other subsequent disclosure documents filed with the SEC.

We cannot assure you that we will realize the results, benefits or developments that we expect or anticipate or, even if substantially realized, that they will result in the consequences or affect us or our business in the way expected. Forward-looking statements are not historical facts, and reflect our current views with respect to future events. Given the significant uncertainties, you should evaluate all forward-looking statements made in this presentation in the context of these risks and uncertainties and not place undue reliance on these forward-looking statements as predictions of future events. All forward-looking statements in this presentation apply only as of the date made and are expressly qualified in their entirety by the cautionary statements included in this presentation. We disclaim any intent to publicly update or revise any forward-looking statements to reflect subsequent events or circumstances, except as required by law.

We obtained the industry, market and competitive position data used throughout this presentation from our own internal estimates and research, as well as from industry and general publications, and research, surveys and studies conducted by third parties. Internal estimates are derived from publicly available information released by industry analysts and third-party sources, our internal research and our industry experience, and are based on assumptions made by us based on such data and our knowledge of the industry and market, which we believe to be reasonable. In addition, while we believe the industry, market and competitive position data included in this presentation is reliable and based on reasonable assumptions, we have not independently verified any third-party information, and all such data involve risks and uncertainties and are subject to change based on various factors. This data involves a number of assumptions and limitations, and you are cautioned not to give undue weight to such estimates.




This presentation discusses product candidates that are under preclinical or clinical evaluation and that have not yet been approved for marketing by the U.S. Food and Drug Administration or any other regulatory authority. Until finalized in a clinical study report, clinical trial data presented herein remain subject to adjustment as a result of clinical site audits and other review processes. No representation is made as to the safety or effectiveness of these product candidates for the use for which such product candidates are being studied.

Corporate Highlights

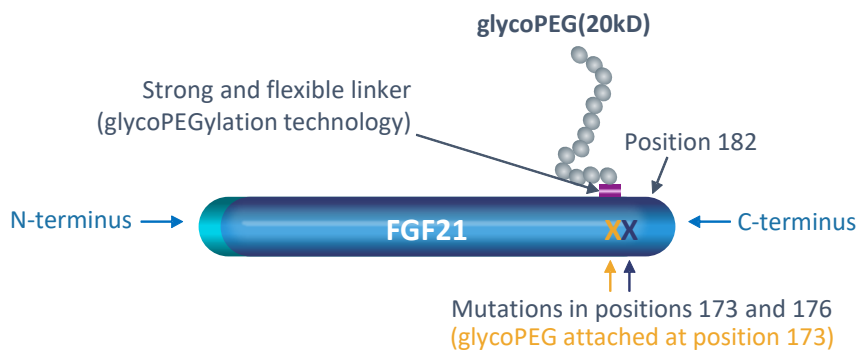


Advancing Pegzofermin in Clinical Development



INDICATION	TRIAL	PRECLINICAL	PHASE 1	PHASE 2	PHASE 3
MASH <i>Breakthrough Therapy & PRIME designations</i>		Phase 3 trial in F2/F3: Histology & Outcomes – Ongoing			
		Phase 3 trial in F4: Histology & Outcomes – Ongoing			
SHTG		Phase 3 trial – Topline data expected in 2025			

Pegozafermin is an FGF21 Analog Optimally Engineered to Balance Efficacy and Long Dosing Interval



RECEPTOR	FGF21	Pegozafermin
	EC ₅₀ (nM) Mean ± S.D.	EC ₅₀ (nM) Mean ± S.D.
KLB	nd	nd
KLB/FGFR1	4.5 ± 1.0	0.3 ± 0.07
KLB/FGFR2	4.5 ± 0.9	1.1 ± 0.4
KLB/FGFR3	1.8 ± 0.3	1.2 ± 0.4
KLB/FGFR4	nd	nd

nd – not determined; rhFGF19 EC₅₀ at FGFR4 = 1.7 ± 0.4

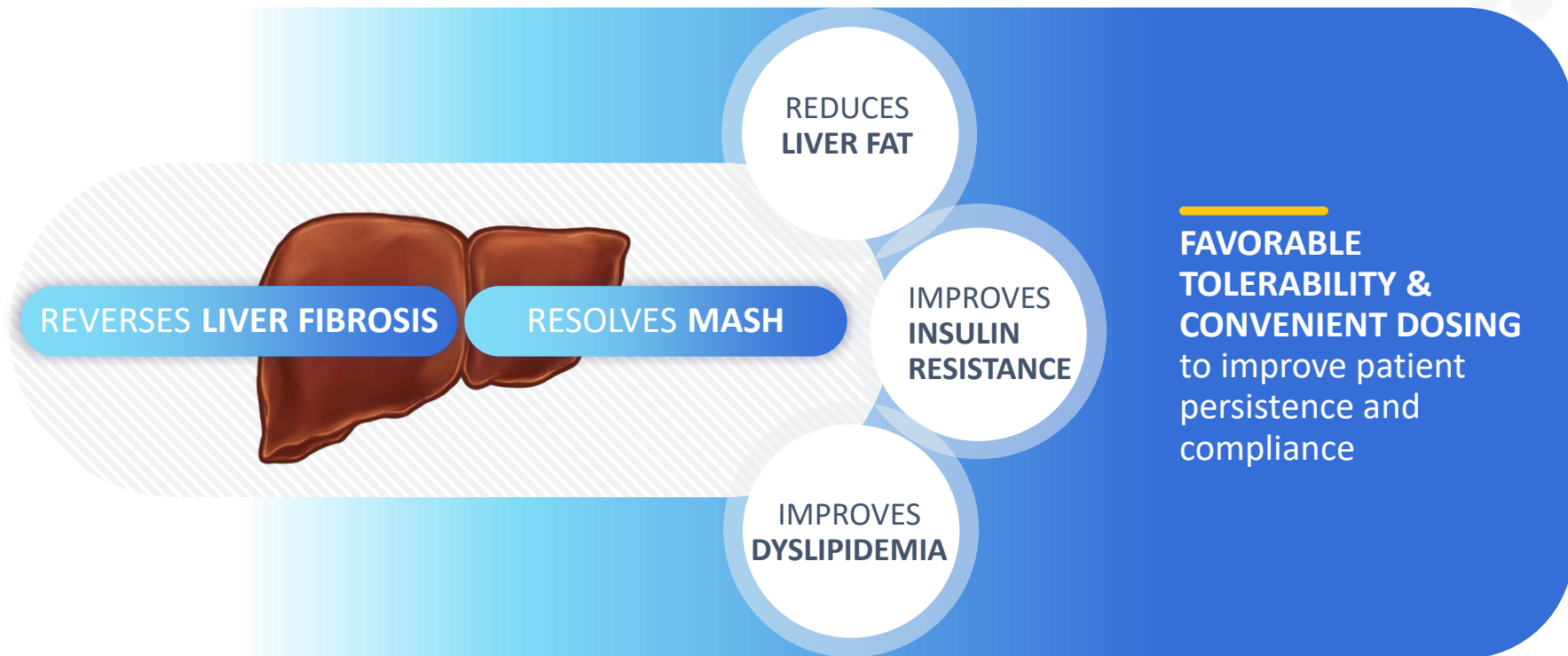
- Proprietary glycoPEGylation technology commercially validated with approved products
- Increases half-life of native FGF21 (<2 hours) to 55-100 hours based on single ascending dose study
- Composition of matter patent expires in 2038, assuming no patent term extensions

89bio

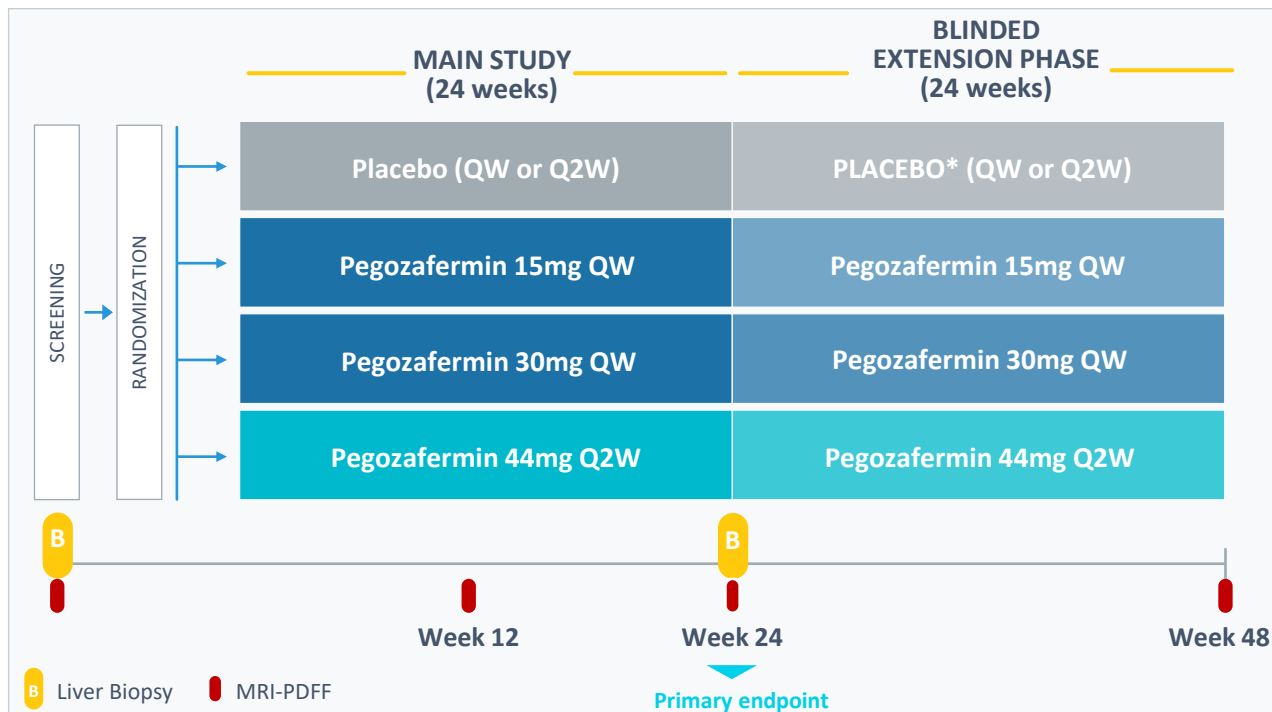
Opportunity in MASH



Pegzofermin Offers Potential Best-in-Class Therapeutic for Advanced MASH



ENLIVEN Trial Evaluated Weekly (QW) and Every-Two-Week (Q2W) Dosing in Non-cirrhotic Patients



PRIMARY ENDPOINTS

- ≥ 1 -stage fibrosis improvement with no worsening of MASH¹
- MASH resolution with no worsening of fibrosis²

KEY SECONDARY EFFICACY ENDPOINTS

- ≥ 2 -point change in NAS with no worsening of fibrosis
- Non-invasive liver markers (liver fat, liver injury, fibrosis markers)

¹Improvement in liver fibrosis by ≥ 1 stage and no worsening of steatohepatitis defined as no increase in NAS for ballooning, inflammation, or steatosis (FDA draft guidance).

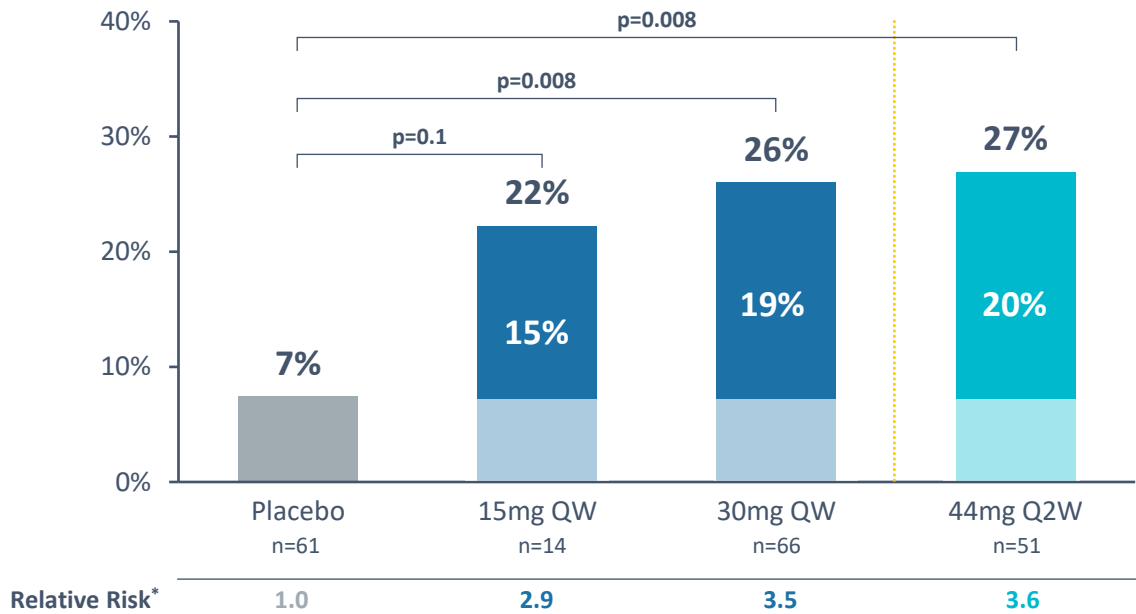
²Resolution of steatohepatitis is defined as absent fatty liver disease or isolated or simple steatosis without steatohepatitis and a NAS score of 0-1 for inflammation, 0 for ballooning and any value for steatosis (FDA draft guidance).

*Some placebo patients were re-randomized in the extension phase to receive pegzofermin.

NAS, NAFLD Activity Score; MRI-PDFF, Magnetic resonance imaging-estimated proton density fat fraction; QW: Every week; Q2W: Every 2 weeks

Pegozafermin Demonstrated Statistical Significance on Fibrosis Improvement at 30mg QW and 44mg Q2W Dose

Fibrosis Improvement Without Worsening of MASH at Week 24



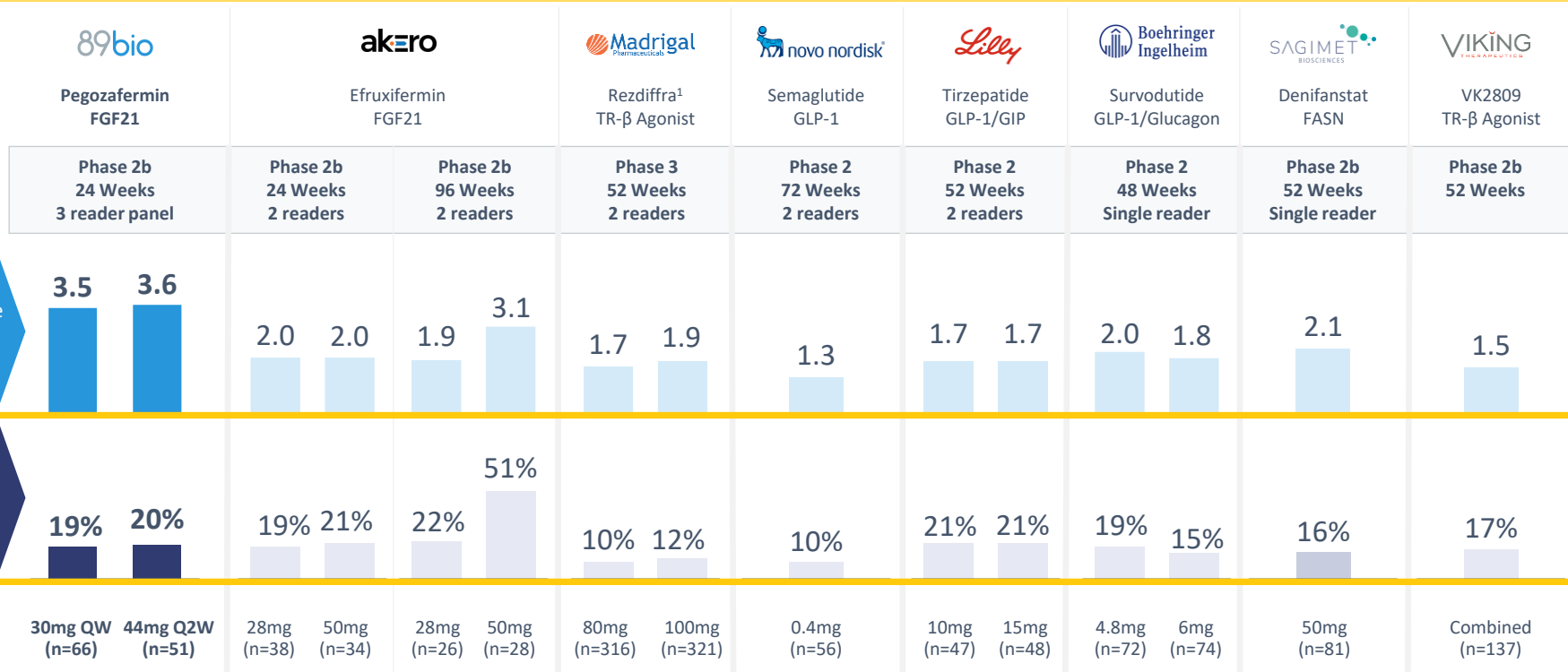
Treatment with PGZ Delays Progression to Cirrhosis

- In the placebo group, 7 of 37 (19%) of the F3 patients progressed
- In the pooled PGZ group, 6 of 69 (9%) of the F3 patients progressed

Comparative Clinical Data in Non-Cirrhotic Patients ≥1 Stage Fibrosis Improvement with No Worsening of MASH



In absence of H2H studies, drug response as a multiple of placebo offers robust window for cross-trial comparisons by controlling for variability amongst readers and consensus methods



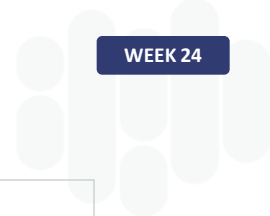
Relative Risk
Drug response
as multiple of
placebo
response*

Fibrosis
Improvement
(Placebo-
adjusted)

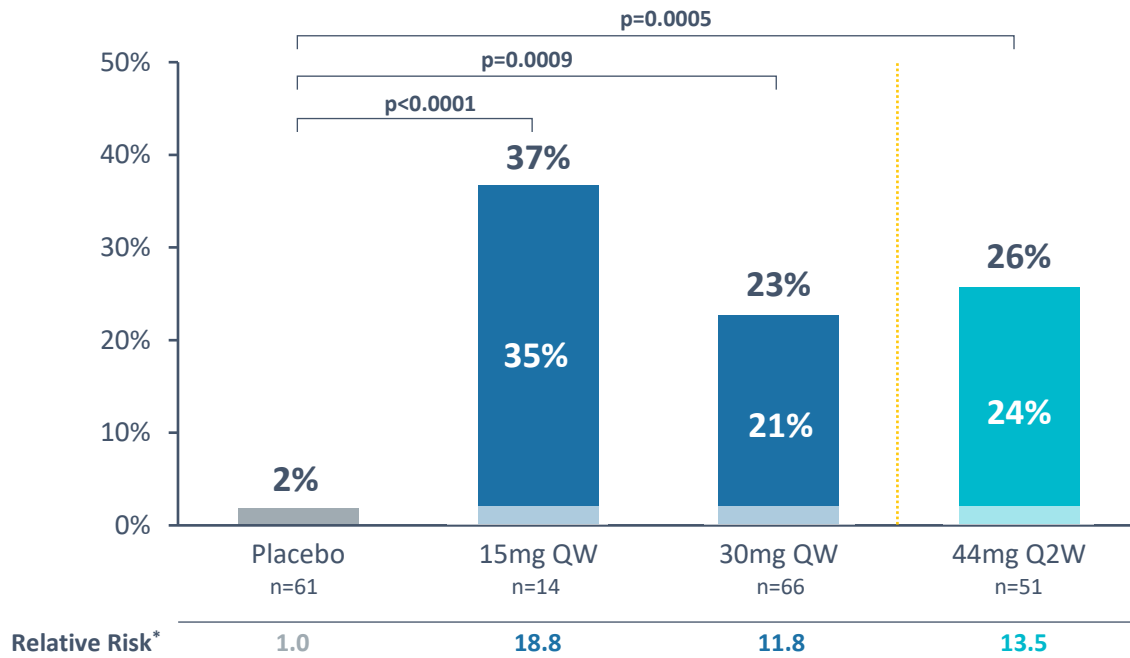
*Relative risk, or drug response as multiple of placebo response, is calculated by dividing drug response by placebo response
¹ ≥1 stage fibrosis improvement with no worsening of NAS. Fibrosis improvement by ≥1 stage with no worsening of NAFLD activity score.

Note: These data are derived from different clinical trials at different points in time, with differences in trial design and patient populations. As a result, cross-trial comparisons cannot be made, and no head-to-head clinical trials have been conducted.

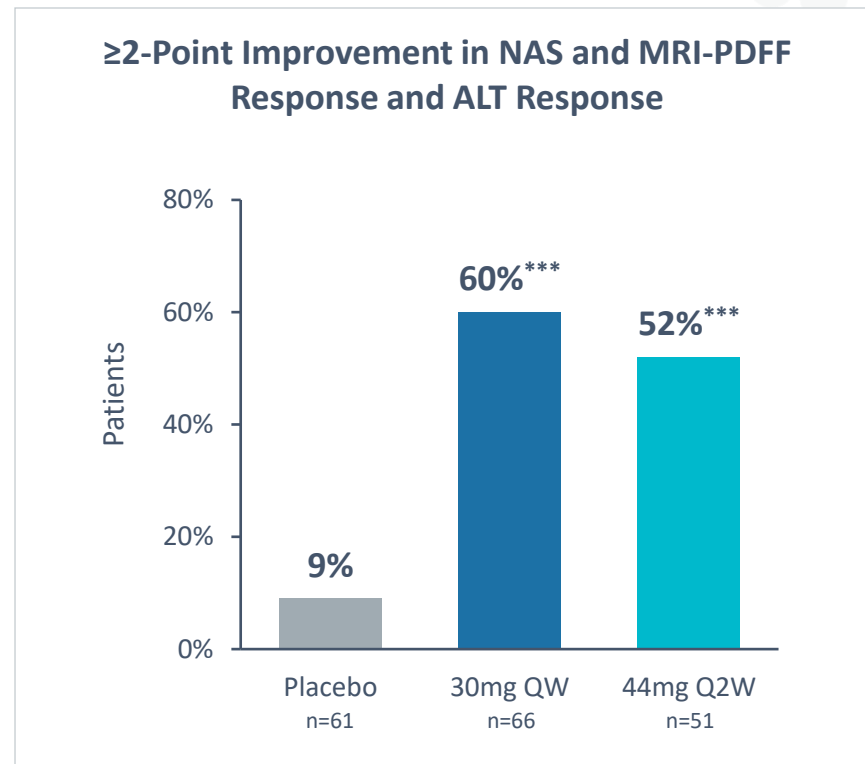
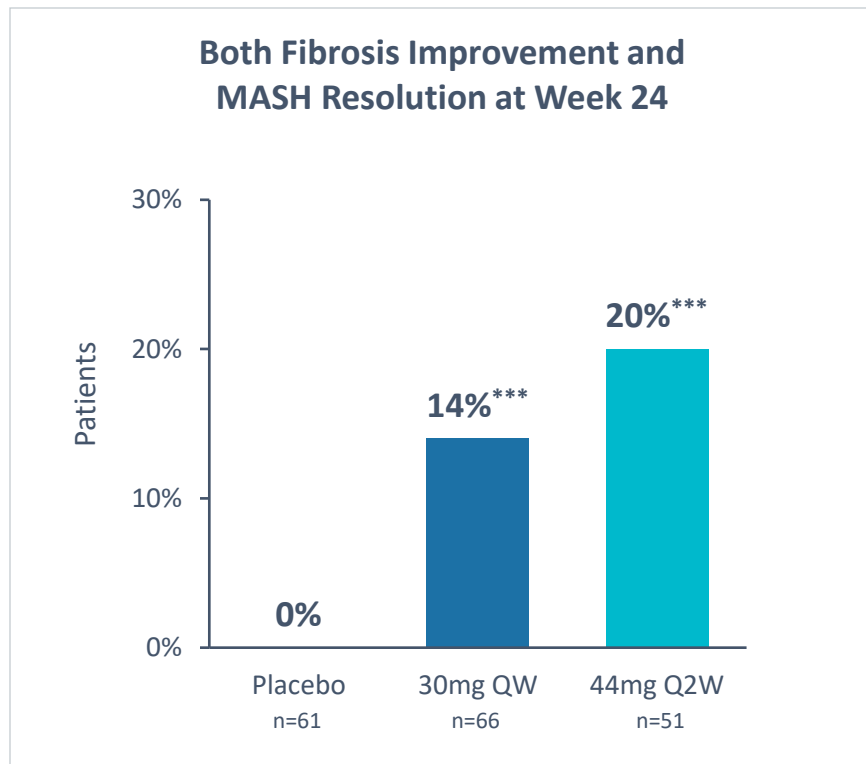
Pegozafermin Demonstrated Statistical Significance on MASH Resolution at All Doses



MASH Resolution Without Worsening of Fibrosis at Week 24



Pegozafermin Demonstrated Statistical Significance on the Combined Endpoint of Fibrosis Improvement and MASH Resolution



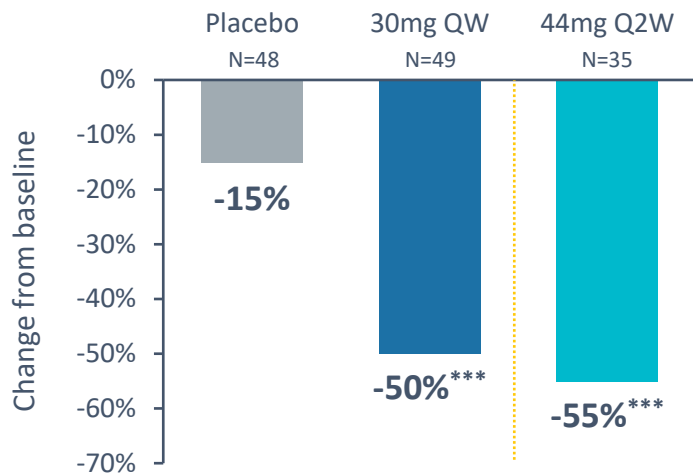
Source: Full Analysis Set; multiple imputation analysis via Cochran-Mantel-Haenszel (CMH) test stratified by T2DM status (yes vs. no) and fibrosis stage (F2 vs. F3).

MRI-PDFF responder defined as ≥30% reduction in liver fat content; ALT responder defined as ≥17U/L reduction.

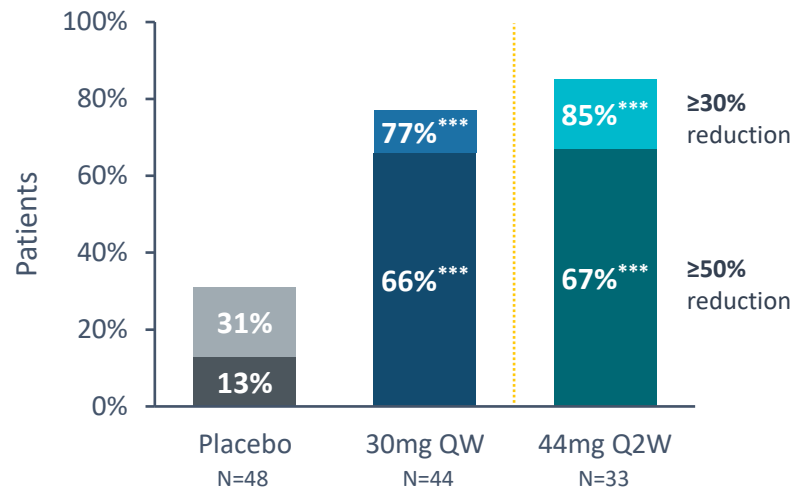
***p<0.001 versus placebo.

Pegozafermin Demonstrated Robust Liver Fat Reduction with High Responder Rates by MRI-PDFF

Mean Relative Reduction in Liver Fat vs Baseline¹ at Week 24

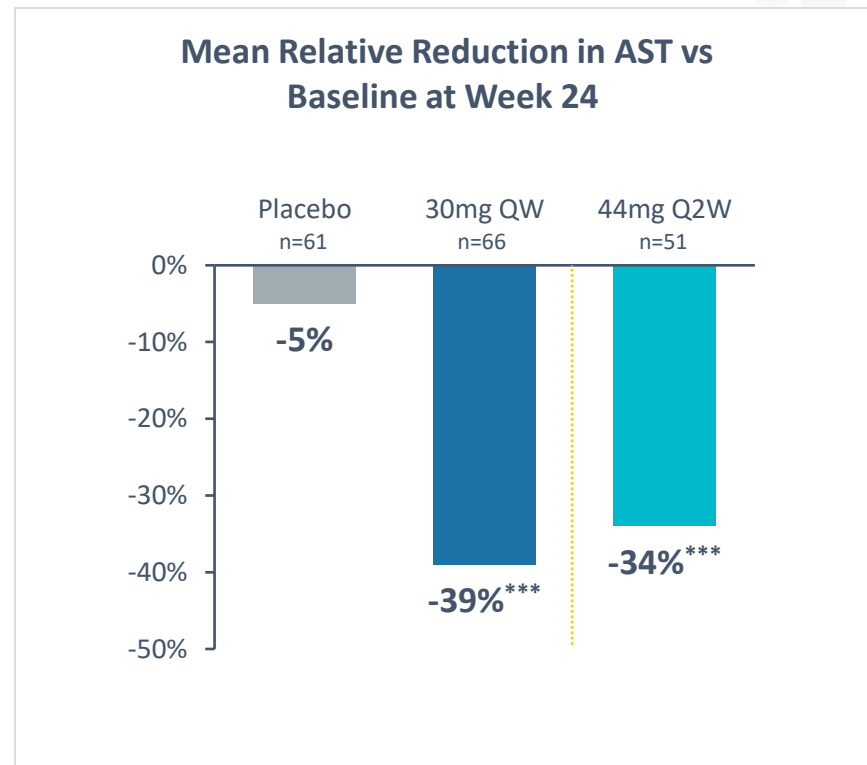
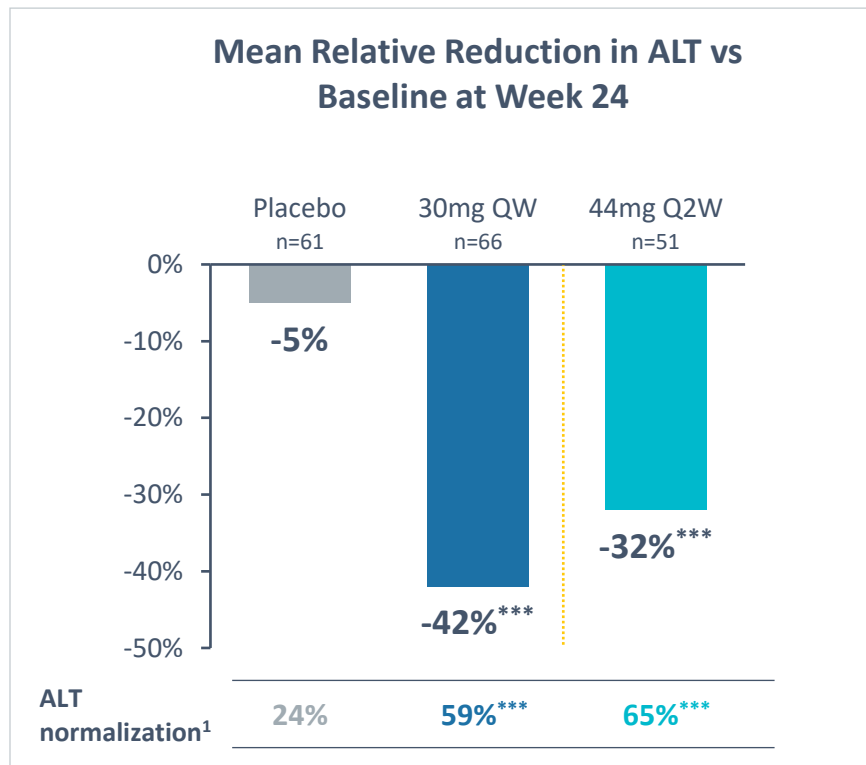


Patients Achieving $\geq 30\%$ and $\geq 50\%$ Reduction in Hepatic Fat Fraction Versus Baseline²

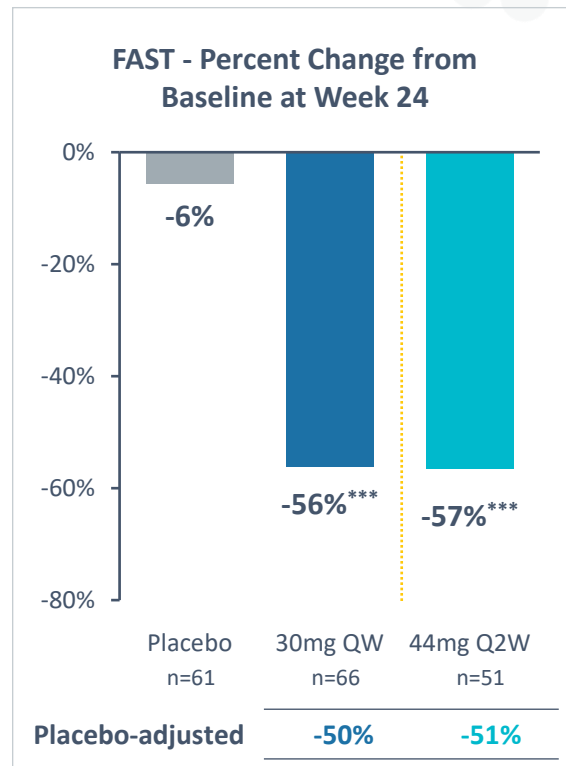
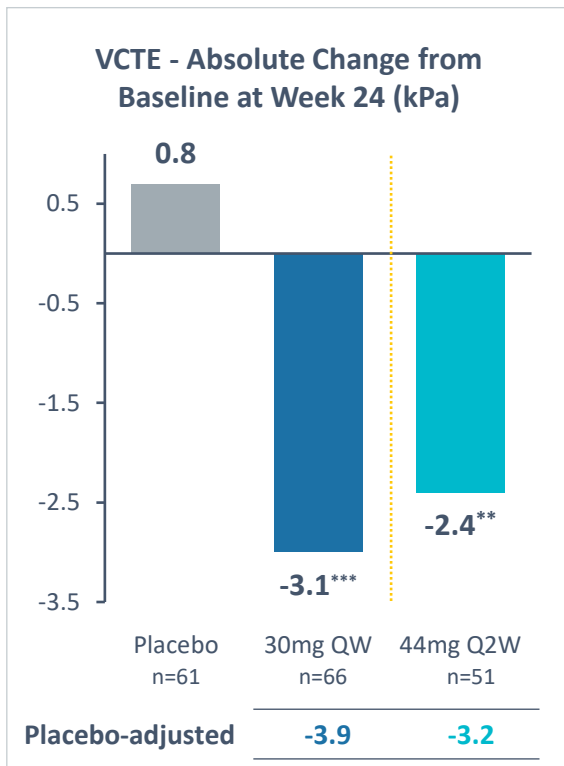
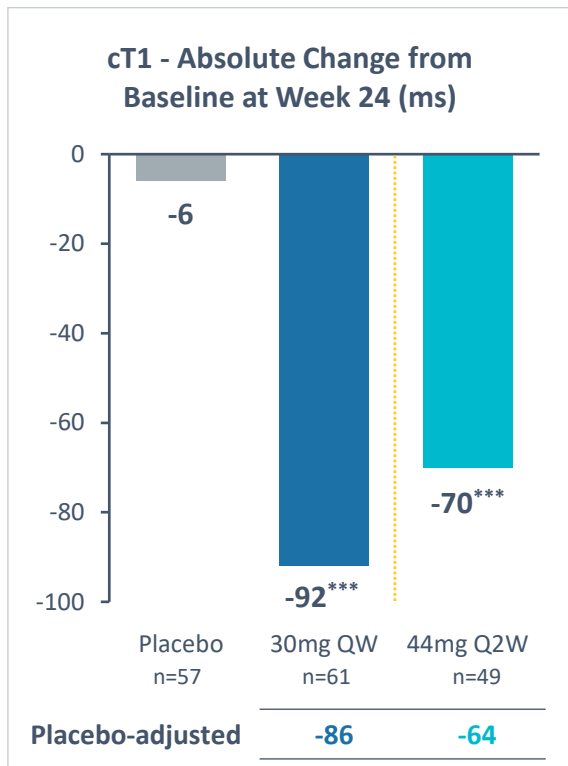


Pegozafermin Demonstrated Significant Improvements in Markers of Liver Injury/Inflammation (ALT and AST)

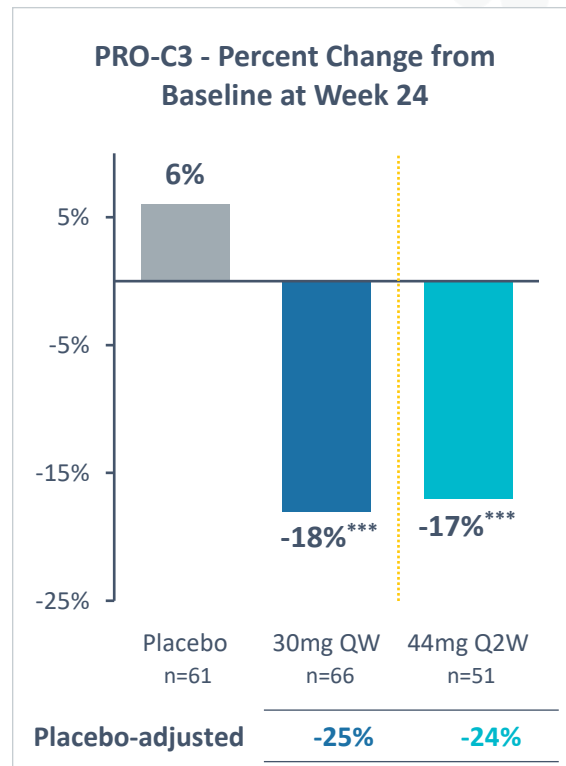
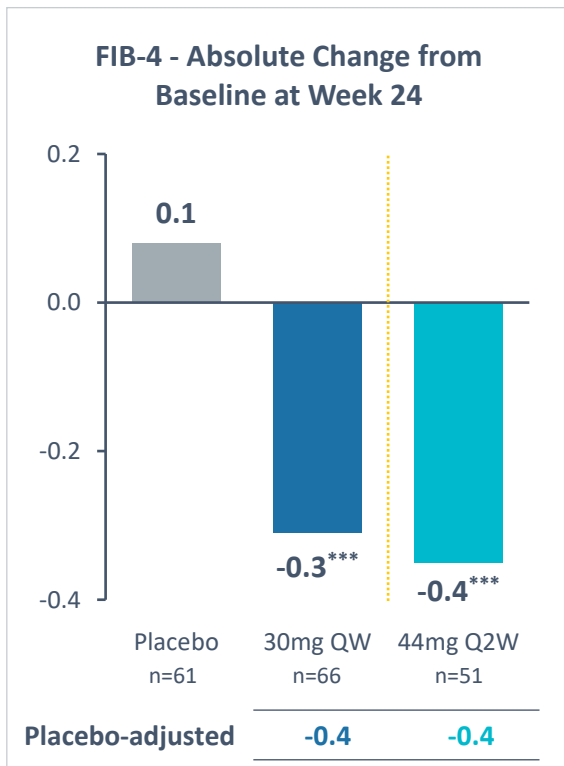
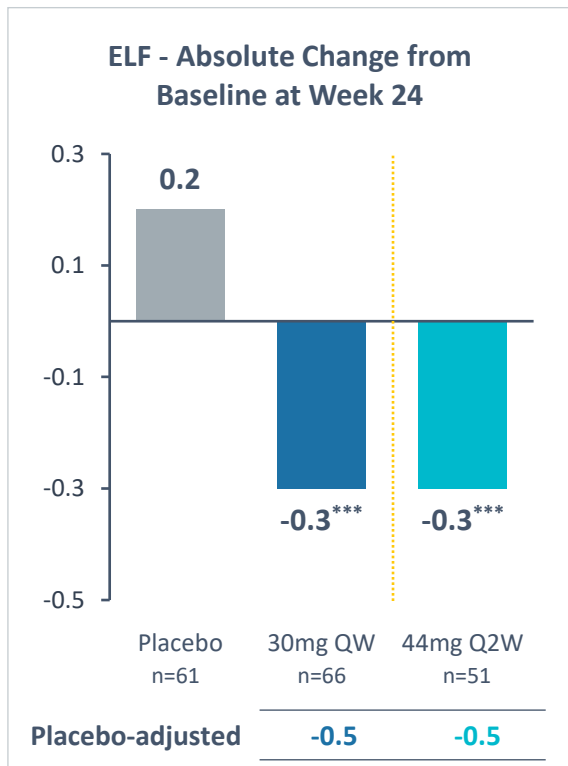
WEEK 24



Pegozafermin Demonstrated Significant Reductions in Non-Invasive Markers (NITs) of Liver Inflammation and Fibrosis



Pegozafermin Demonstrated Significant Improvements on Non-Invasive Markers (NITs) for Fibrosis



Long-term Treatment with Pegzofermin Results in Sustained Improvements over a Wide Range of Liver NITs

WEEK 24

WEEK 48

	Placebo Week 24 (n=42)	Placebo Week 48 (n=35)	30mg QW Week 24 (n=66)	30mg QW Week 48 (n=50)	44mg Q2W Week 24 (n=51)	44mg Q2W Week 48 (n=45)
MRI-PDFF	-6%	-11%	-56%	-60%	-60%	-47%
ALT	0%	-11%	-42%	-42%	-32%	-35%
AST	-2%	-4%	-39%	-39%	-34%	-36%
Pro-C3	+6%	+2%	-18%	-15%	-17%	-14%
FAST	-3%	-1%	-56%	-59%	-57%	-51%
VCTE (kPa)	-0.1	-0.8	-2.8	-2.9	-1.5	-1.3
ELF score	+0.2	+0.1	-0.3	-0.3	-0.3	-0.4

Full Analysis Set; preliminary data

LS mean change from baseline except for MRI and VCTE which are medians. VCTE n=139 at week 24; n=121 at week 48

MRI-PDFF in patients with >10% liver fat at baseline (n=108 at week 24; n=92 at week 48)

Pegozafermin Offered Additive Benefits to GLP-1 Therapy in Patients with MASH through Week 48

GLP1



BACKGROUND

- 37 patients in ENLIVEN were on GLP-1 therapy at baseline – 25 received pegozafermin, 12 received placebo
- Patients on GLP-1 were on stable doses for a minimum of six months with most patients on semaglutide or dulaglutide; most of these patients were also on additional diabetes medications
- Patients had comparable baseline characteristics across groups and relative to full study population



KEY RESULTS

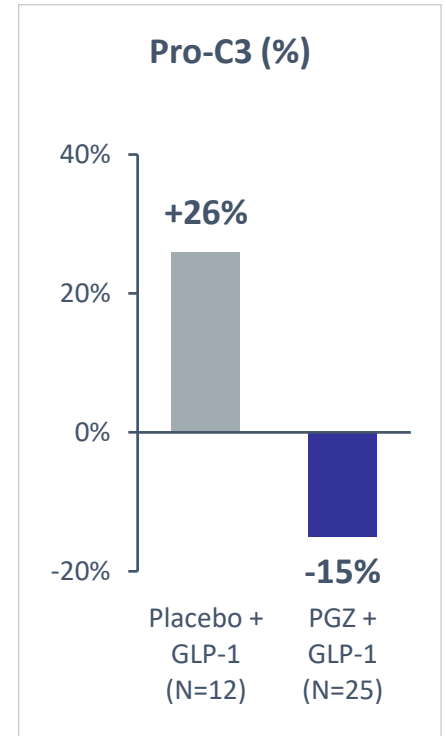
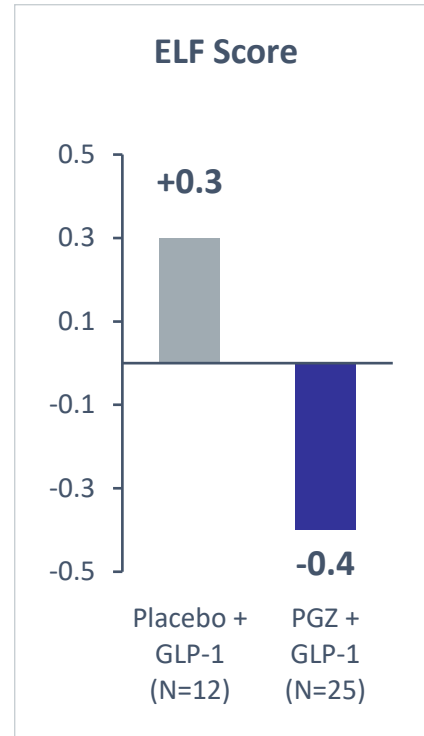
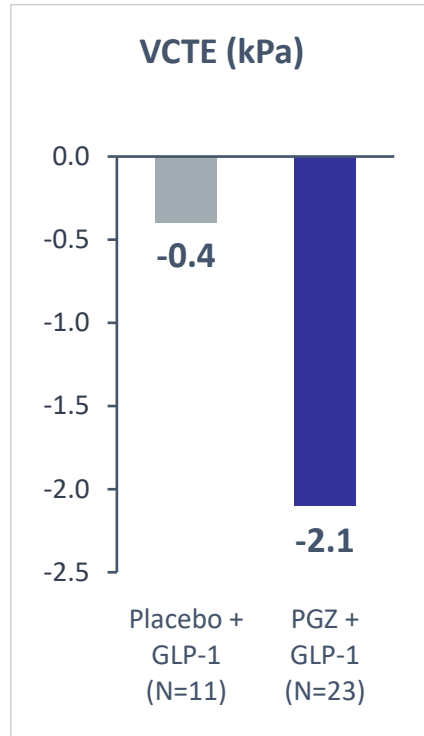
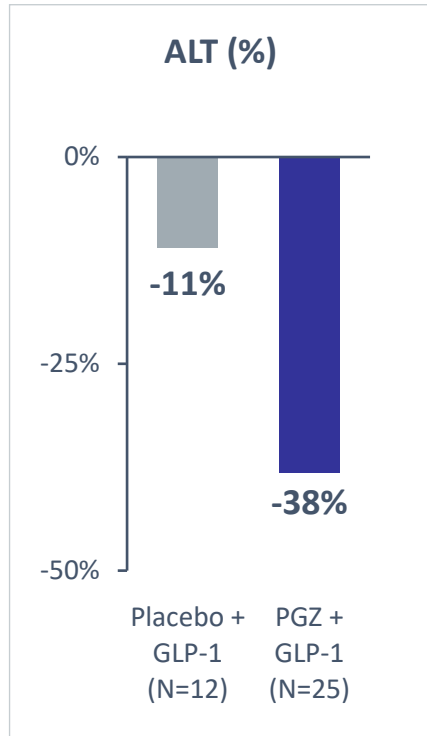
Pegozafermin on top of GLP-1 therapy showed the following versus GLP-1 plus placebo at week 24 and week 48:

- Improved Fibrosis
- Reduced Liver Fat
- Improved Liver Health
- Acceptable Tolerability Profile

Greater Benefits on Fibrosis Markers Were Observed with Pegzofermin vs. Placebo in Patients on Background GLP-1 Therapy at Week 24

WEEK 24

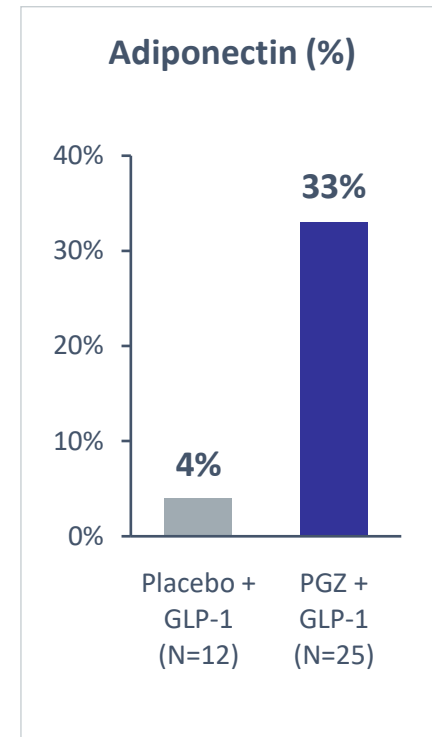
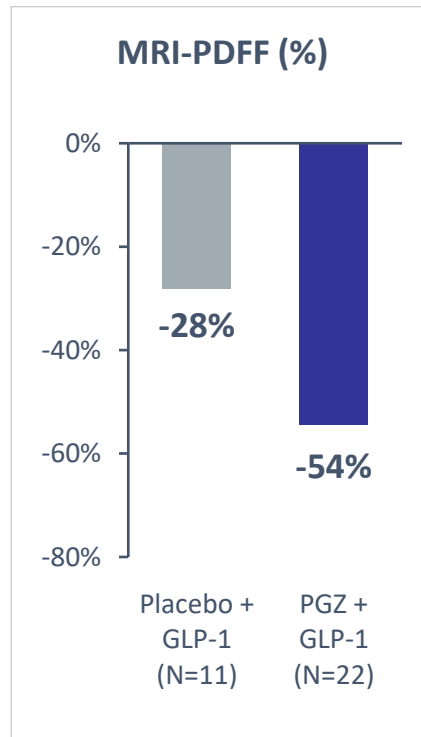
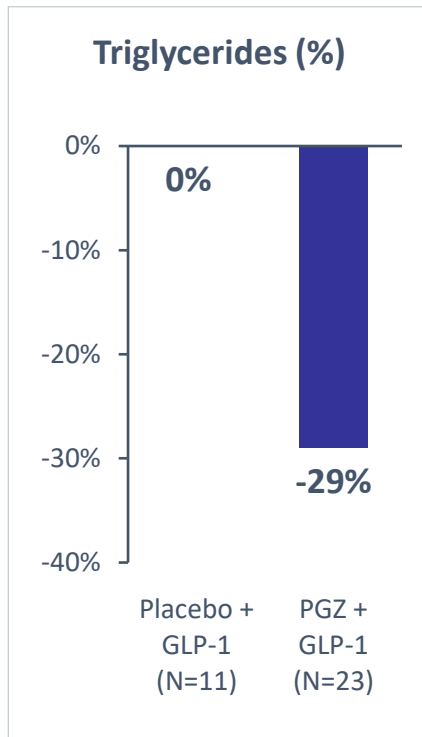
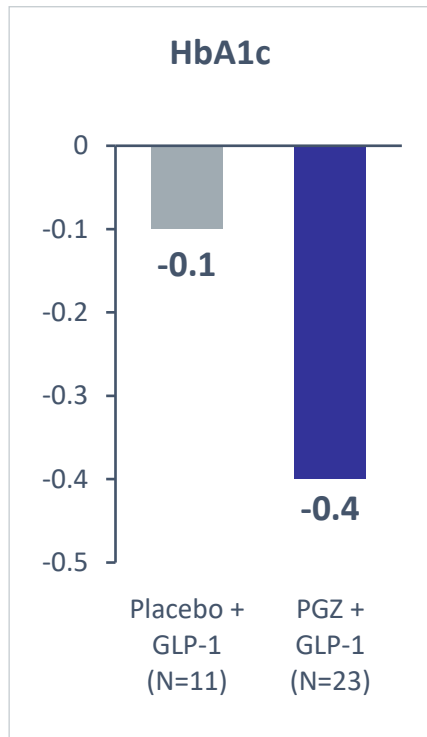
GLP1



Greater Benefits on Metabolic Markers Were Observed with Pegozafermin vs. Placebo in Patients on Background GLP-1 Therapy at Week 24

WEEK 24

GLP1



Pegozafermin Offers a Promising Profile in Patients with Compensated MASH Cirrhosis (F4)

F4



BACKGROUND

- ENLIVEN enrolled 14 MASH stage F4 patients of which 12 patients* had follow-up biopsies at week 24
- Patients had baseline characteristics generally reflective of a well-compensated cirrhotic population



KEY RESULTS

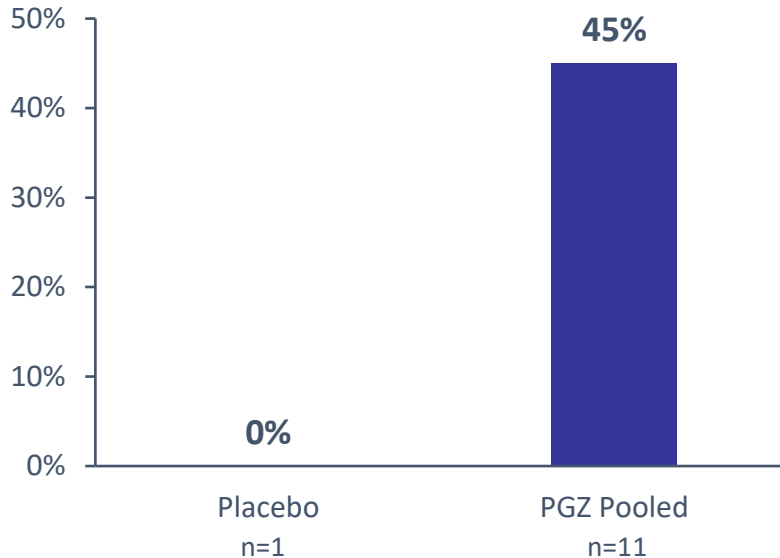
- 45% of pegozafermin-treated patients had fibrosis improvement ≥ 1 stage without worsening of MASH
- Improvements in NITs of fibrosis, liver injury, and liver fat were observed through week 48
- Safety and tolerability profile in F4 was similar to the F2/F3 population

Pegozafermin Achieved Fibrosis Improvement Without Worsening of MASH in 45% of Patients with F4 Fibrosis at Baseline

WEEK 24

F4

Fibrosis Improvement ≥ 1 Stage Without Worsening of MASH



- Pegozafermin treatment led to fibrosis improvement ≥ 1 stage in 9/11 treated patients (82%)
- Pegozafermin treatment led to fibrosis improvement with no worsening of ballooning and inflammation in 7/11 treated patients

Pegozafermin Has Demonstrated Preliminary Evidence of Fibrosis Regression in Patients with F4 Fibrosis*



89bio

akero

Bristol Myers Squibb

ngmBIO

novo nordisk

Intercept

GILEAD

FGF21
PGZ | 24 weeks

FGF21
EFX | 36 weeks

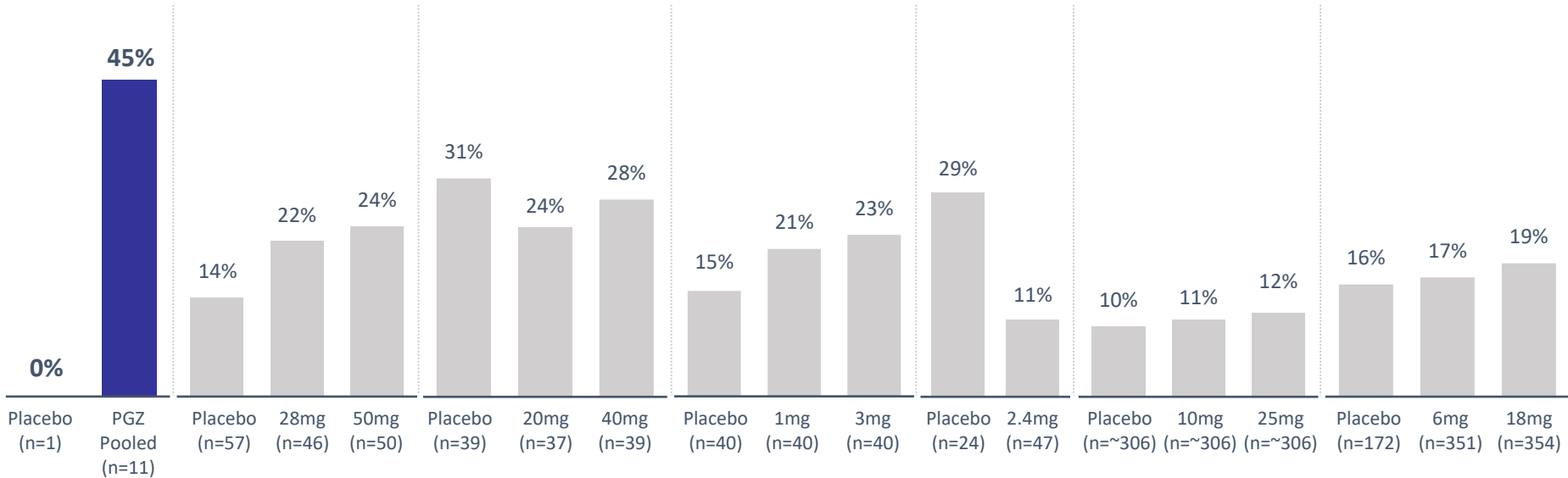
Peg-FGF21
Pegbelfermin | 48 weeks

FGF19
Aldafermin | 48 weeks

GLP-1
Sema | 48 weeks

FXR
Ocaliva | 78 weeks

ASK1
Selonsertib | 48 weeks



* If approved

89bio

Note: These data are derived from different clinical trials at different points in time, with differences in trial design and patient populations. As a result, cross-trial comparisons cannot be made, and no head-to-head clinical trials have been conducted.

NIT Results over 48 Weeks in F4 Patients From ENLIVEN Demonstrated Consistent Benefit

WEEK 24

WEEK 48

F4

PGZ-Treated Patients (n=12)

Parameter	24 weeks	48 weeks
Liver Fibrosis and Inflammation		
ELF (units)	-0.3	-0.5
FAST	-46%	-42%
VCTE (kPa)	-2.7	-1.1
Pro-C3	-5%	-20%
FIB-4	-11%	-16%
Liver Injury		
ALT (%)	-53%	-58%
AST (%)	-31%	-38%

High correlation between NIT responders and fibrosis improvement

Pegozafermin Was Well Tolerated Across All Patients In ENLIVEN

Most TEAEs were Grade 1 and Grade 2

Drug-related TEAEs in ≥10% of patients Through 48 Weeks

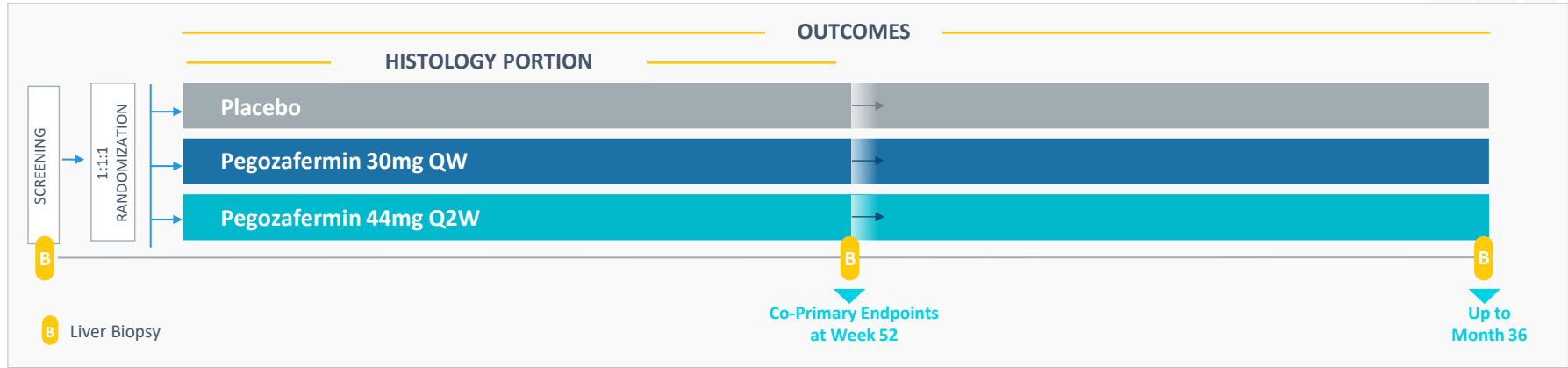
Preferred Term	Placebo (n=50)	15mg QW (n=21)	30mg QW (n=72)	44mg Q2W (n=57)
Diarrhea	3%	24%	17%	9%
Nausea	1%	14%	21%	18%
Injection site erythema	4%	14%	14%	5%
Injection site rash	2%	0	10%	4%
Increased appetite	2%	10%	13%	5%

- At week 48, no statistically significant or clinically meaningful changes were observed in blood pressure, bone biomarkers or DXA with PGZ 30 mg QW or 44 mg Q2W relative to placebo.

	Placebo	15mg QW	30mg QW	44mg Q2W
Drug-related AEs leading to discontinuation	0	5% ^a	6% ^b	4% ^c
Drug-related Serious Adverse Event (SAE)	0	0	0	2% ^c

Related discontinuations: ^a Diarrhea [15 mg QW] ; ^b Diarrhea [30 mg QW]; Nausea [30 mg QW]; Diarrhea [30 mg QW]; ISR erythema [30 mg QW]; ^c Pancreatitis [44 mg Q2W]; Nausea [44 mg Q2W].

ENLIGHTEN-Fibrosis: Phase 3 trial in Non-cirrhotic MASH (F2-F3) is Ongoing



ENlighten
fibrosis

in Non-cirrhotic
MASH patients

HISTOLOGY PORTION FOR ACCELERATED APPROVAL

- **Co-primary Endpoints:**
 - One-point improvement in fibrosis with no worsening of MASH
 - MASH resolution with no worsening of fibrosis
- **Duration:** 52 weeks
- **Patients:** Subset of the ~1,000 patients

OUTCOMES PORTION FOR FULL APPROVAL

- **Primary Endpoint:** Patients are expected to continue to be treated beyond the 52-week assessment through outcomes to support full approval in F2-F3 patients
 - Progression to cirrhosis expected to comprise most outcome events
- **Patients:** ~1,000 patients

ENLIGHTEN-Fibrosis: Potential for success on both histology and clinical outcomes for F2/F3 MASH

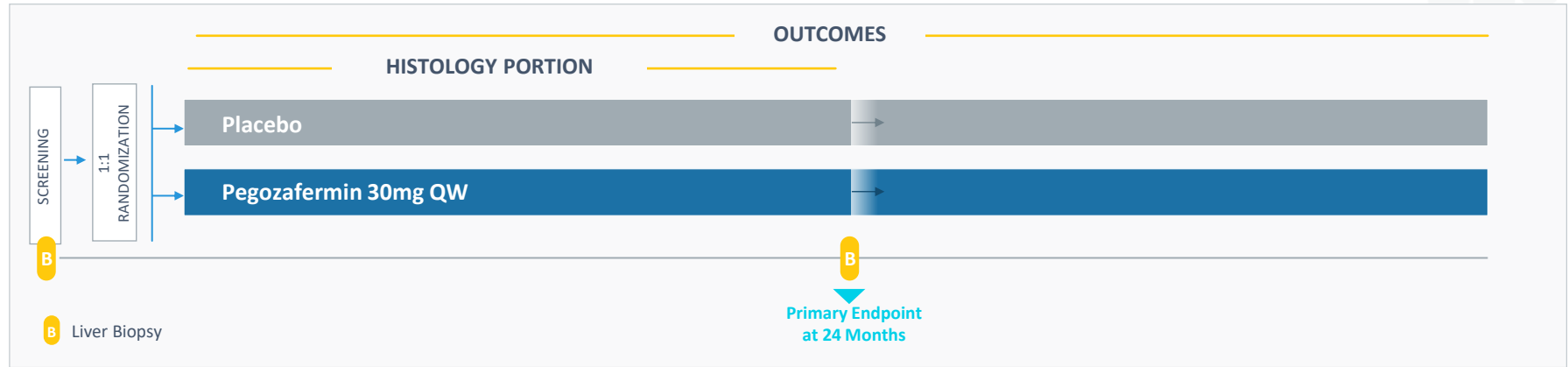
HISTOLOGY

- FGF21 analogs have demonstrated robust fibrosis regression at both week 24 and over longer time frames
- Pegzofermin demonstrated fibrosis improvement at week 24 and maintenance of NITs at week 48
 - Biopsy at month 12 in a Phase 3 trial may show even more robust effect
- Robust statistical design to determine a clinically meaningful delta

OUTCOMES

- Build on strong fibrosis regression and NIT data demonstrated from ENLIVEN
- Encouraging clinical outcomes data from Intercept's REGENERATE Phase 3 trial
 - Despite modest, ~10% fibrosis delta, Ocaliva® had a trend (p=0.04) to clinical outcome benefit*
- ~20% fibrosis delta for PGZ at week 24, bodes well especially given the potential for improved response with longer treatment
- Phase 3 is well-powered for outcomes; REGENERATE validated that progression to cirrhosis is the primary outcomes event

ENLIGHTEN-Cirrhosis: First FGF21 Analog to Enter Phase 3 Study in Compensated Cirrhosis (F4)



ENlighten
cirrhosis

in
**Compensated
Cirrhotic (F4)
MASH patients**

HISTOLOGY PORTION FOR ACCELERATED APPROVAL

- **Primary Endpoint:** Regression of fibrosis from F4 to an earlier stage of fibrosis
- **Duration:** 24 months
- **Patients:** Subset of the 760 patients

OUTCOMES PORTION FOR FULL APPROVAL

- **Primary Endpoint:** Clinical outcomes composite to support full approval in the U.S. and in Europe, across F2-F4 patients
 - Modifications to some outcome definitions to allow trial to reach final number of events quicker, and therefore potentially accelerate timeline to readout
- **Patients:** Approximately 760 patients*

ENLIGHTEN-Cirrhosis: Potential for Success on Histology and Outcomes

HISTOLOGY

- FGF21 analogs have demonstrated greatest degree of benefit in fibrosis regression
- Consistent response in fibrosis & NITs across F3 and F4 to support potential for robust fibrosis benefit
- Enroll/select patients with early F4 disease more likely to show fibrosis regression
- Follow-up biopsy at 24 months
 - Expected to be sufficient time to allow PGZ to work
 - Could reduce placebo biopsy noise
- Robust statistical design to determine a clinically meaningful delta

OUTCOMES

- Build on strong fibrosis regression and NIT data from ENLIVEN
- Enroll/select additional patients with the right profile to increase event rates
- Modified outcome definitions to increase event rate
- Rigorous endpoint assessment
- Robust statistical design to determine a clinically meaningful delta

Potential to Address Substantial Needs in MASH with Advanced Fibrosis and Cirrhosis



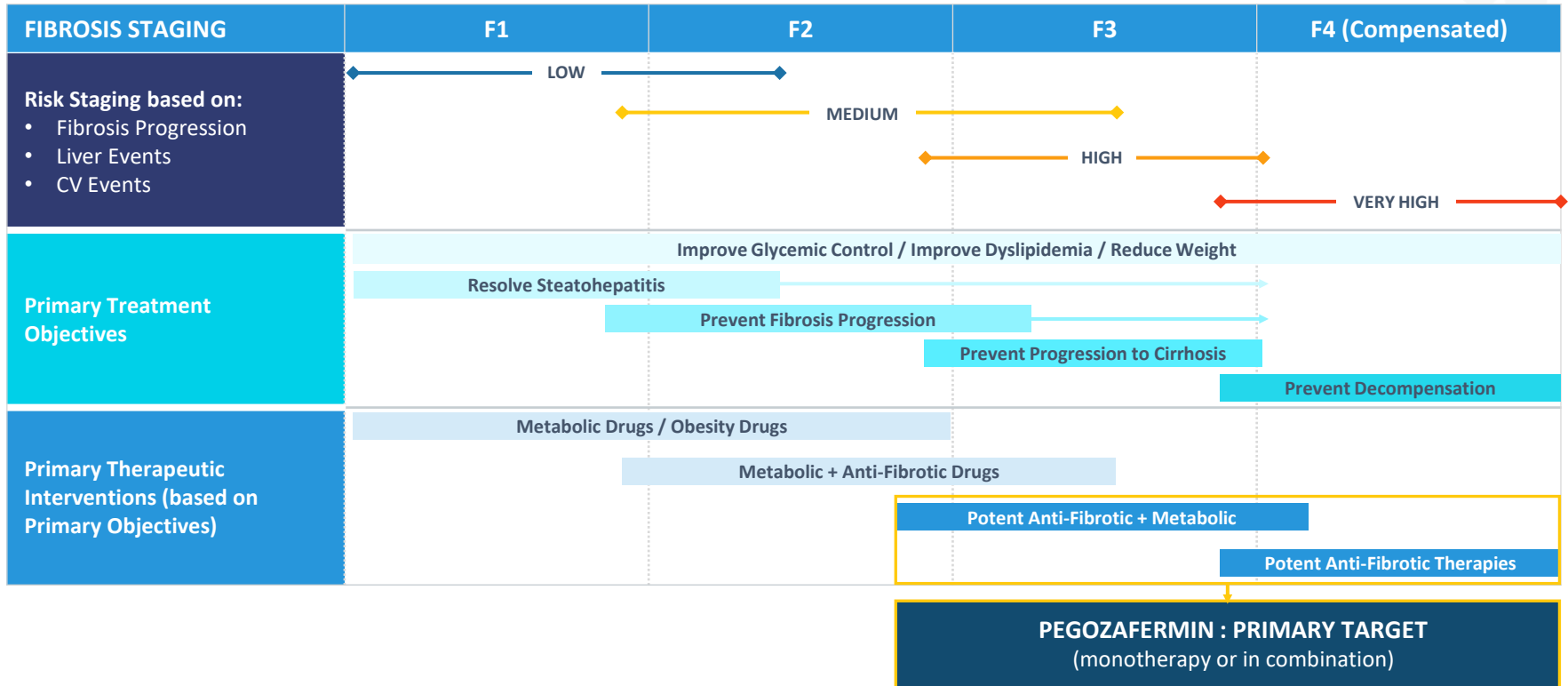
Large patient population with significant health risks

- The market for F2-F3 and F4 MASH is estimated to impact ~15M patients by 2035 in the US with equivalent number in the EU
 - The prevalence of F2-F3 MASH and compensated cirrhotic MASH (F4) may potentially reach ~10.7M and ~3.6M respectively in 2035, net of impacts from GLP-1-based therapies¹
 - While the wide adoption of GLP-1 based therapies may reduce MASH prevalence, the eligible pool of diagnosed patients may increase due to new MASH-specific therapies

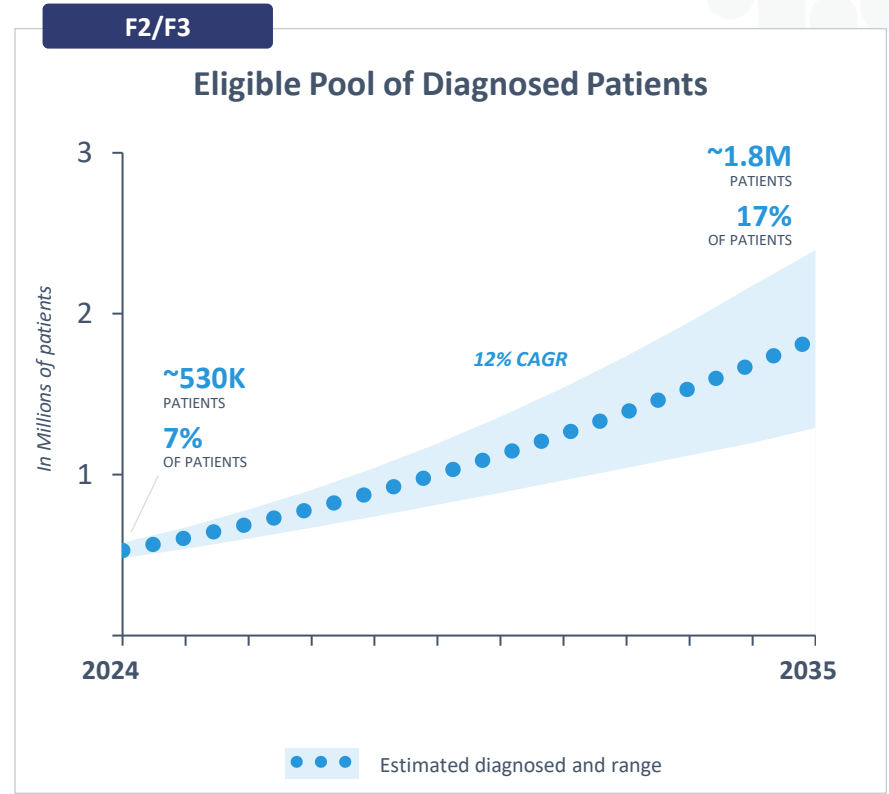
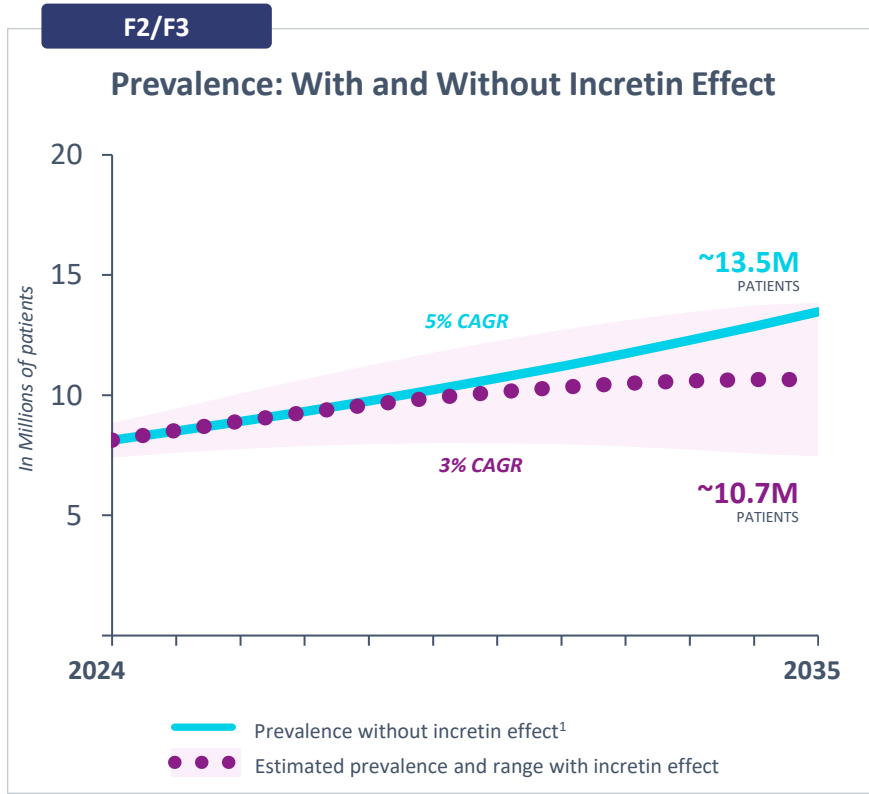
Significant market opportunity for pegozafermin

- We believe we are uniquely positioned to meet the needs of MASH patients with advanced fibrosis (primarily F3) and compensated cirrhosis (F4)
 - Potent anti-fibrotic drugs such as pegozafermin is expected to be the preferred option to treat advanced MASH versus metabolic therapies that reduce fat and indirectly improve liver health over time
 - Clinical data show additive benefits to GLP-1 based therapies, and we believe support combination use
- Large market is likely to support therapies with different mechanisms of action (MOA) and multiple therapies within a specific mechanism (similar to T2DM or LDL therapeutic area) – no MOA is currently a “cure” for MASH

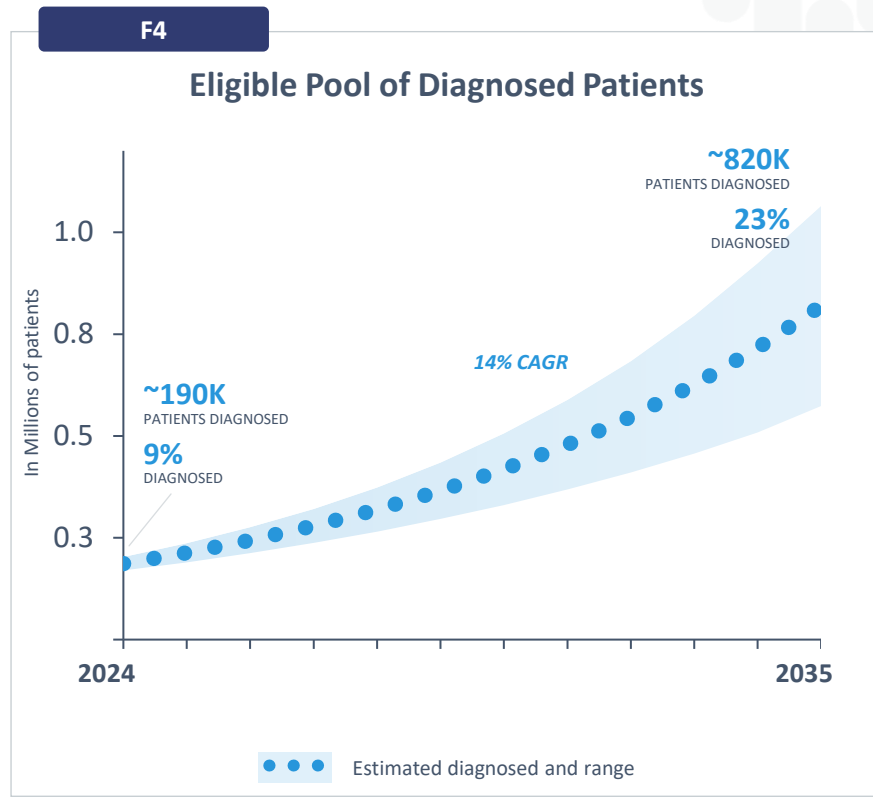
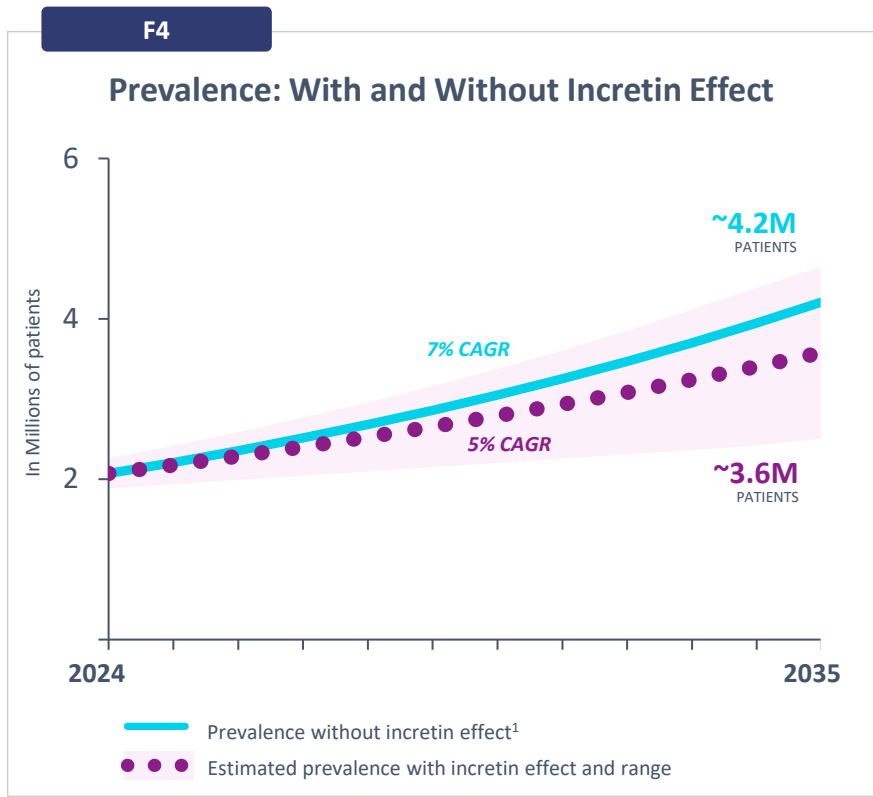
Pegozafermin Positioned to Address Advanced MASH



Advanced MASH (F2/F3) Represents a Significant Market



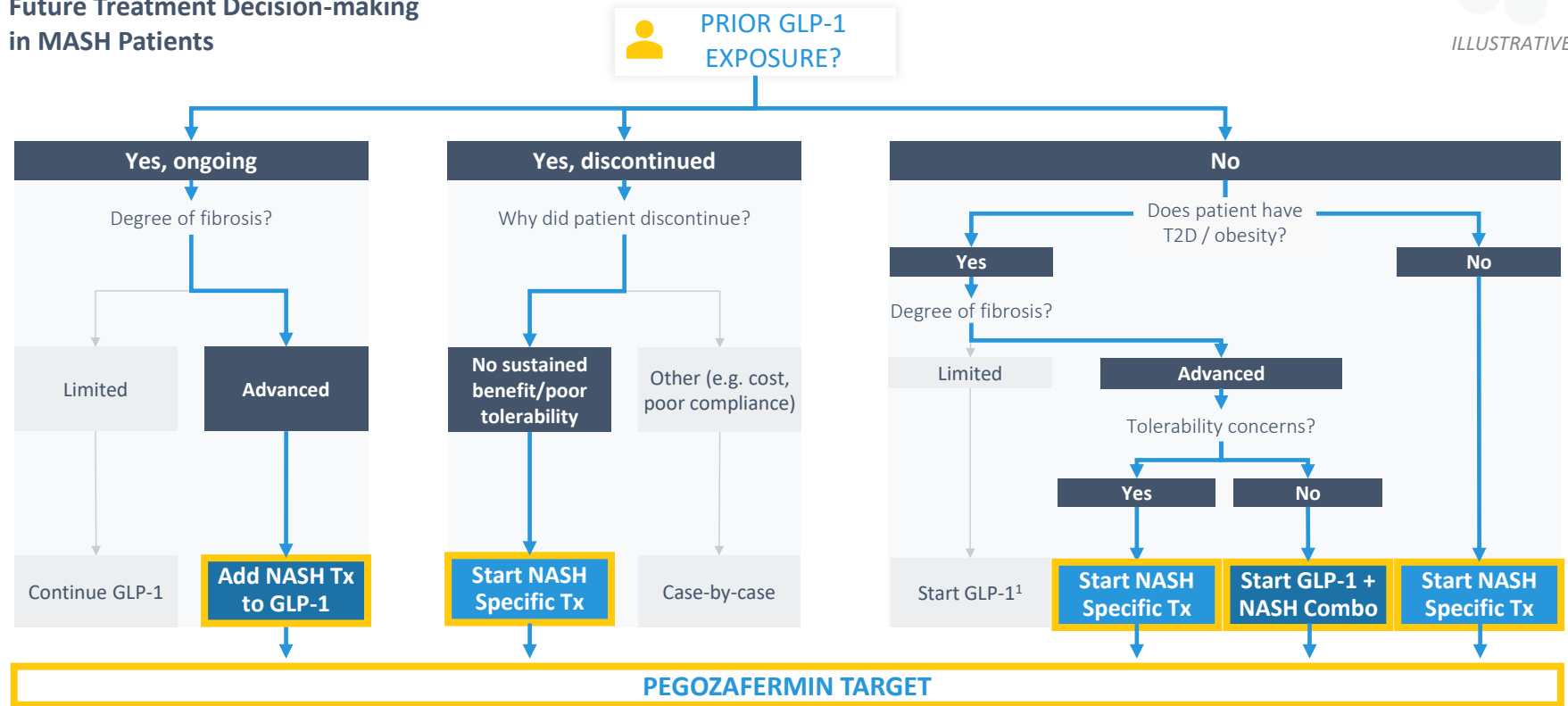
Market Opportunity in Compensated F4 Patients Expected to Grow



Pegozafermin – Potential Usage in Multiple Settings with GLP-1 Based on Treatment History, Fibrosis Stage and Comorbidities



Future Treatment Decision-making in MASH Patients

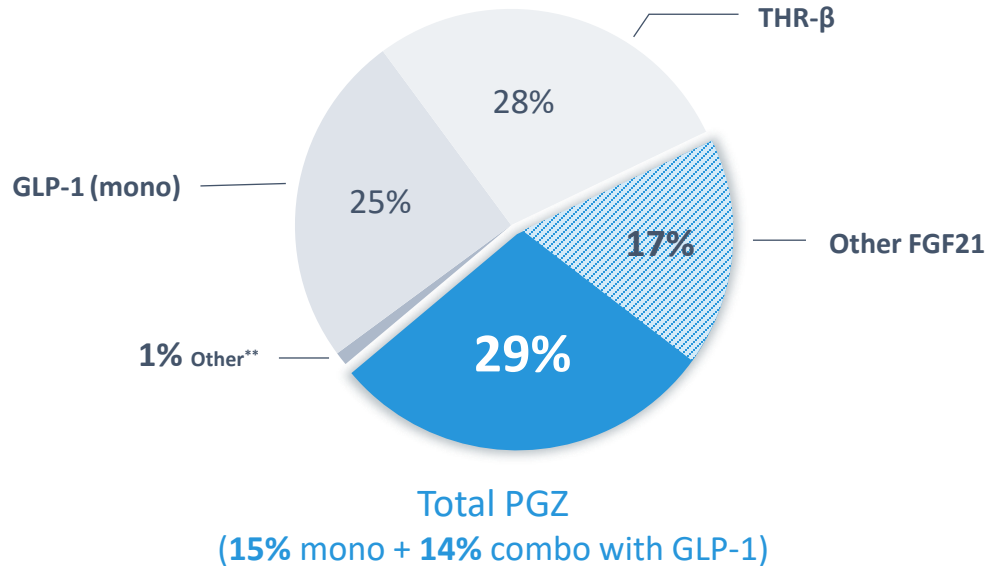


Pegozafermin Expected to Garner Significant Market Share In F3 Patients

F3

EXPECTED PRESCRIBING AMONGST HEP/GI PHYSICIANS

(% treated MASH patients)



FGF21s garner ~45% market share, with ~2/3rd gained by PGZ

- PGZ benefit/risk profile and fewer injections make it preferred FGF21
- ~50% of usage in combination with GLP-1

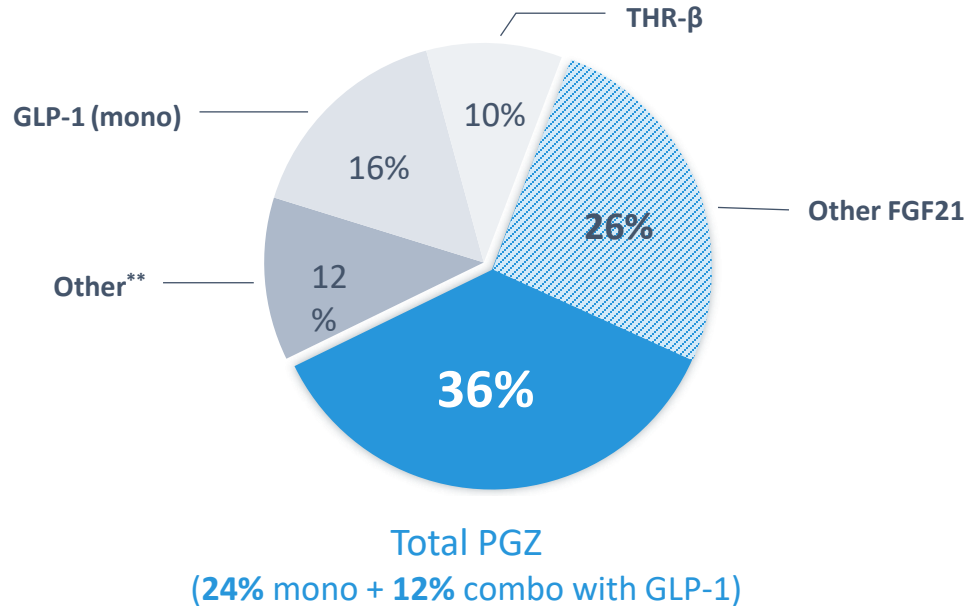
Total GLP-1 usage (combo + mono):
~65%

Pegozafermin Expected to Garner Significant Market Share In Compensated F4 Patients

Compensated F4[^]

EXPECTED PRESCRIBING AMONGST HEP/GI PHYSICIANS

(% treated MASH patients)



FGF21s garner ~60% market share, with ~60% gained by PGZ

- PGZ benefit/risk profile and fewer injections make it preferred FGF21
- 1/3rd of usage in combination with GLP-1

Total GLP-1 usage (combo + mono):
~45%

89bio

Opportunity in Severe Hypertriglyceridemia (SHTG)



Pegozafermin Could Offer an Important New Treatment Option for SHTG

Topline results expected in 2025

Large growing patient population with significant health risks; overlap with MASH patient population

- Increasing TG levels increase risk of acute pancreatitis, cardiovascular disease and all-cause mortality
- Emerging evidence of the cardiovascular (CV) benefit associated with TG reduction in patients with CV risk factors

Significant market opportunity for agent with broad metabolic benefits

- Pegozafermin has a unique selling proposition that is meaningful to prescribers – more effective triglyceride reduction with improvements in liver fat and other metabolic measures
- Analyst consensus peak year sales estimated to be ~\$1 billion (US only)

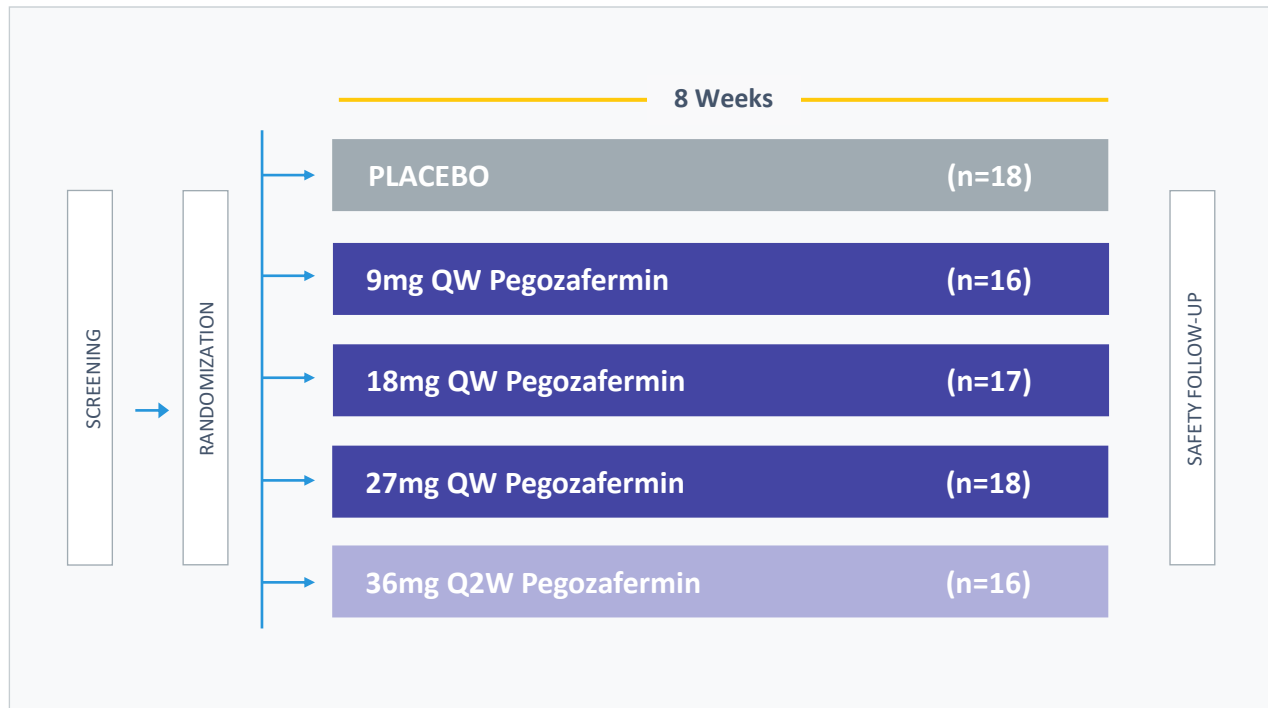
Clinical program substantially de-risked

- Phase 3 ENTRUST trial initiated; design similar to positive Phase 2 ENTRIGUE design with same primary endpoint
- Agency alignment on trial design and regulatory path; exploring alternatives for a more efficient path to registration

SHTG program is synergistic with the MASH program

- Development: Leverages safety database across the two programs to minimize spend across total program
- Commercial: Leverage sales force and infrastructure costs

ENtrigue – Phase 2 SHTG Trial Design



KEY INCLUSION CRITERIA

- TG \geq 500mg/dL and \leq 2,000mg/dL
- Background therapy: statins and/or prescription fish oil and/or fibrates OR none

PRIMARY ENDPOINT

- Primary endpoint: % Change in TGs from baseline

KEY SECONDARY ENDPOINTS

- Lipids: non-HDL-C, HDL-C, Apo-B
- Liver fat (MRI-PDFF)
- Glycemic control

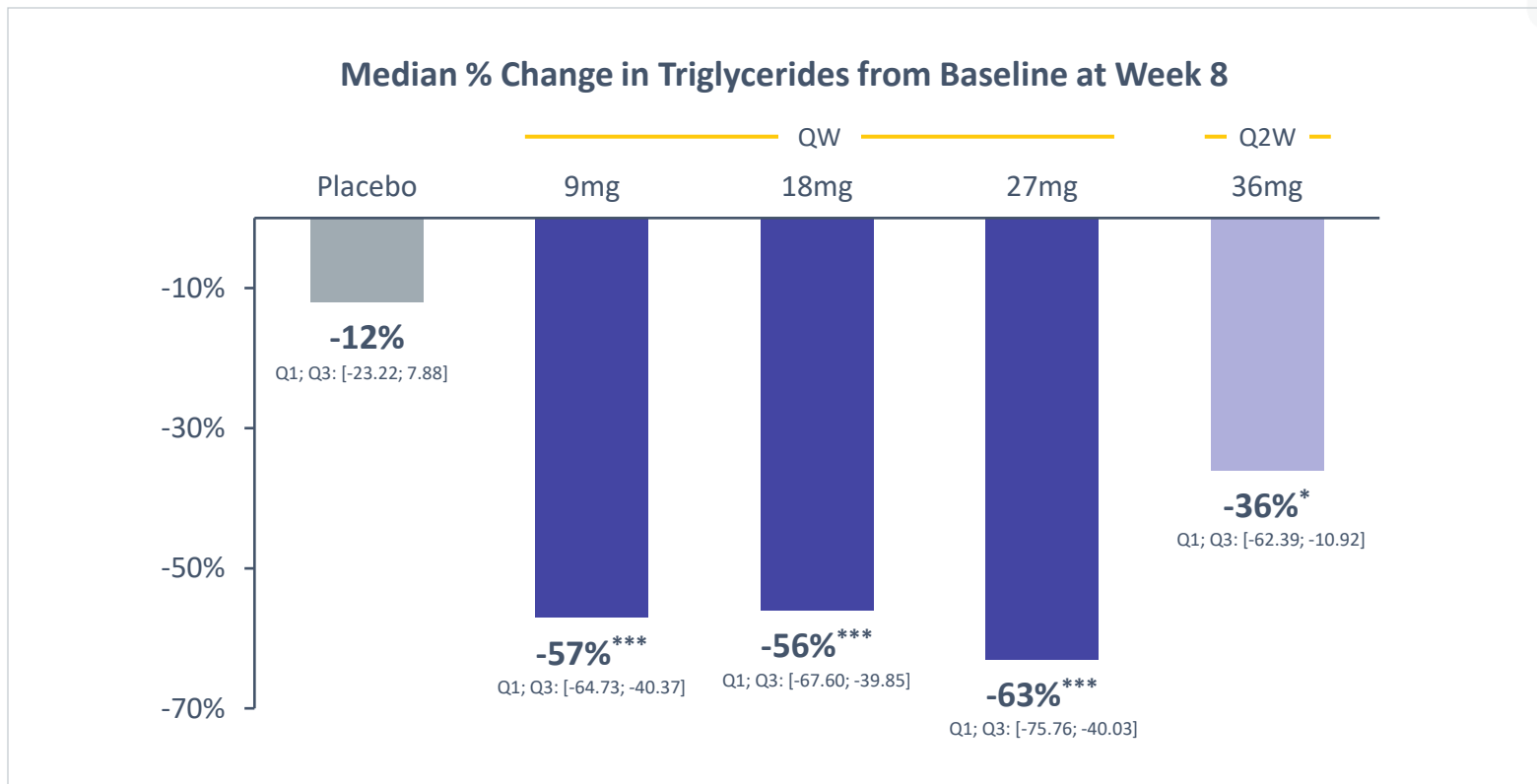
Magnetic Resonance Imaging – Proton Density Fat Fraction
QW, once-weekly; Q2W, once every two weeks.

Safety analysis set, n=85 (patients who received at least 1 dose)

Full analysis set, n=82 (patients with at least 1 post-baseline TG assessment)

MRI analysis set n=23 (patients with baseline and end of treatment MRIs)

Pegozafermin Significantly Reduced Triglycerides Across All Dose Groups

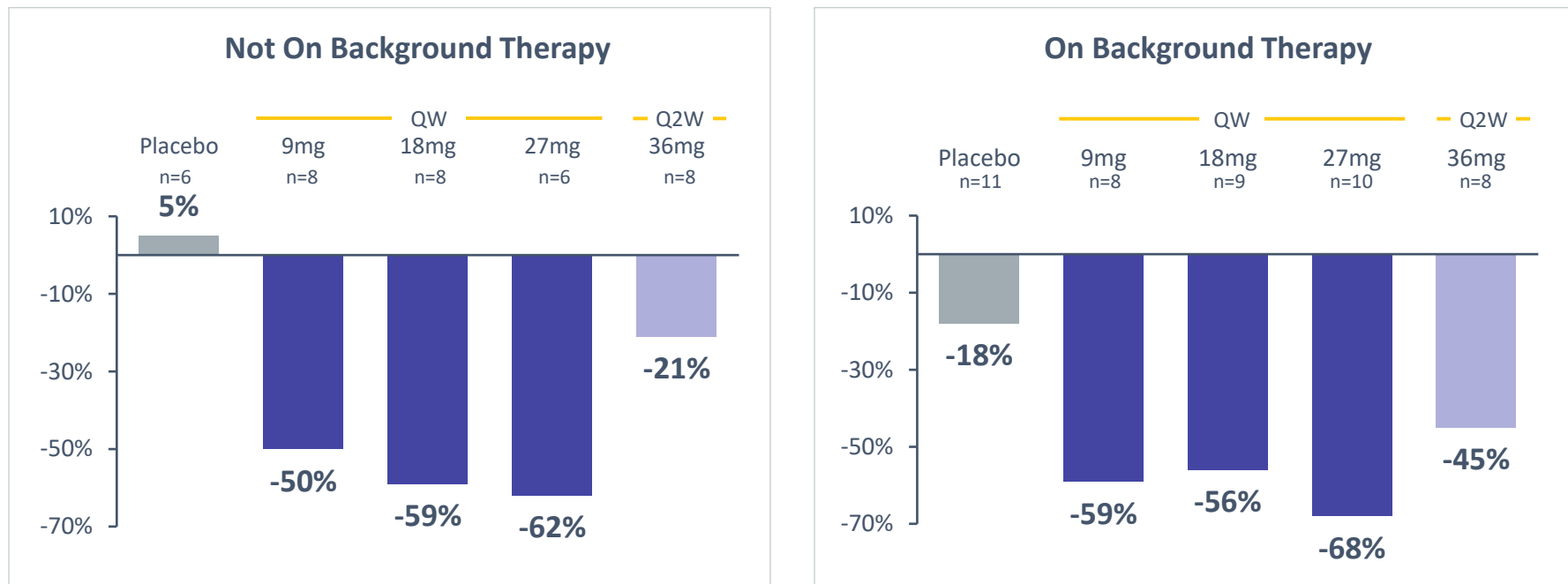


QW: Every week; Q2W: Every 2 weeks

p value vs placebo for change from baseline based on Wilcoxon Rank-Sum Test
Full Analysis Set; * p<0.05; ** p<0.01; *** p<0.001 vs. placebo

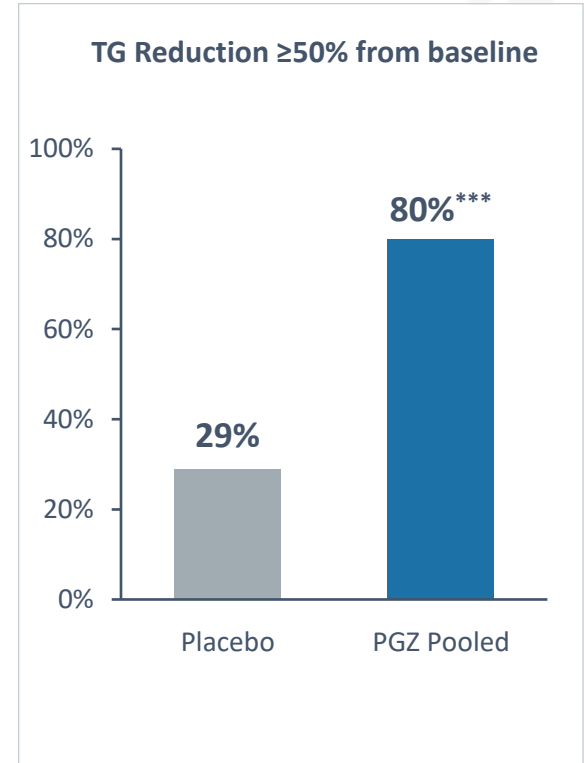
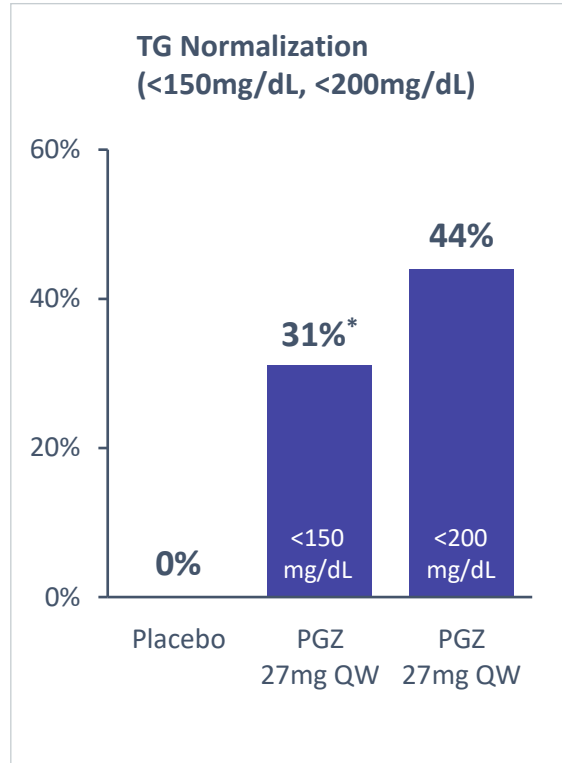
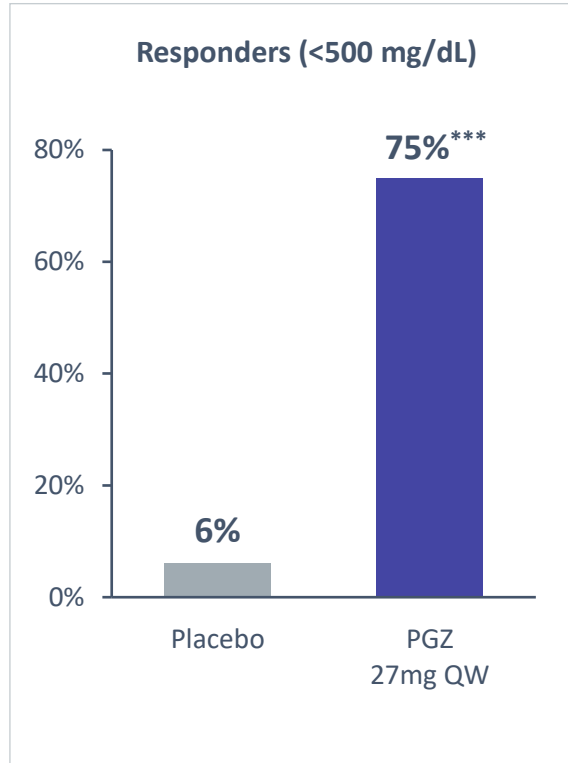
Pegozafermin Showed Significant Decrease in Triglycerides on Top of Background Therapy

Median % Change in Triglycerides from Baseline at Week 8



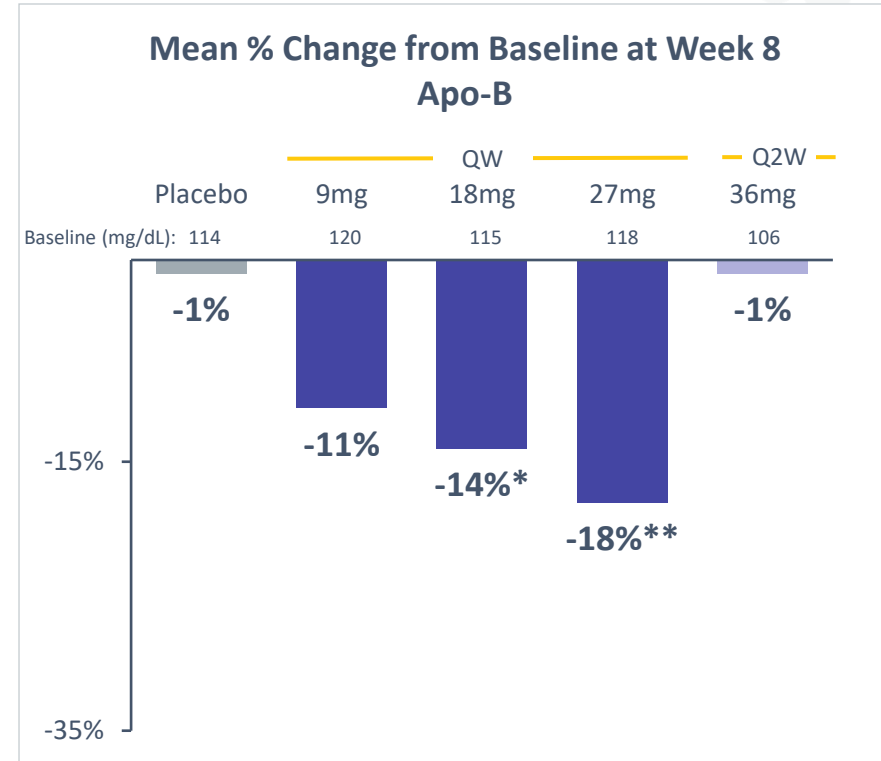
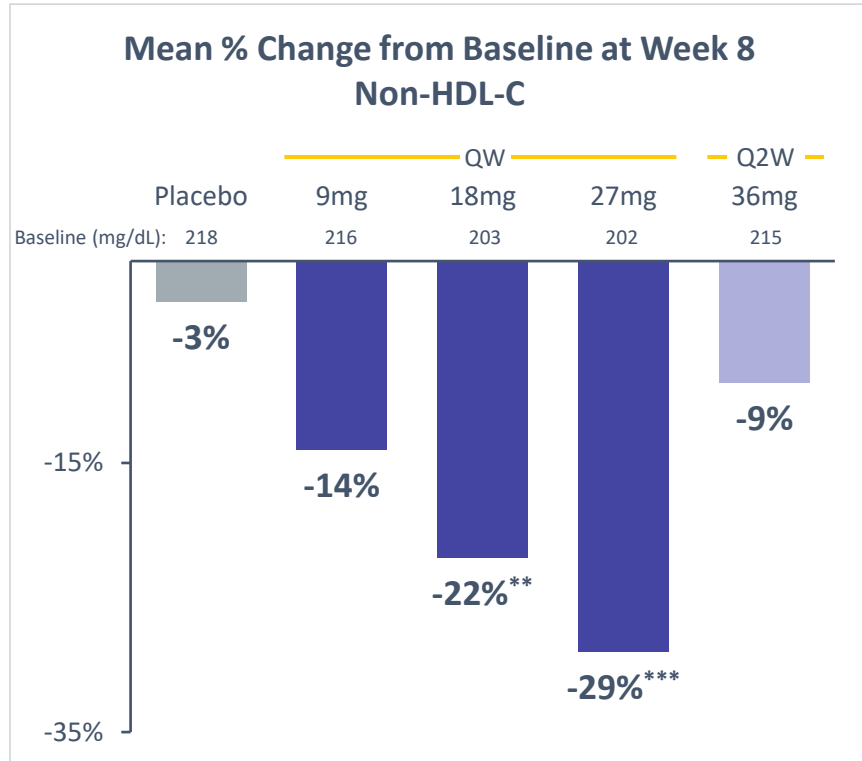
Results are consistent with data from patients on background therapy of statins or statin combos, prescription fish oils, and fibrates

Pegozafermin Showed Significant Decrease in Triglycerides at Different Threshold Levels



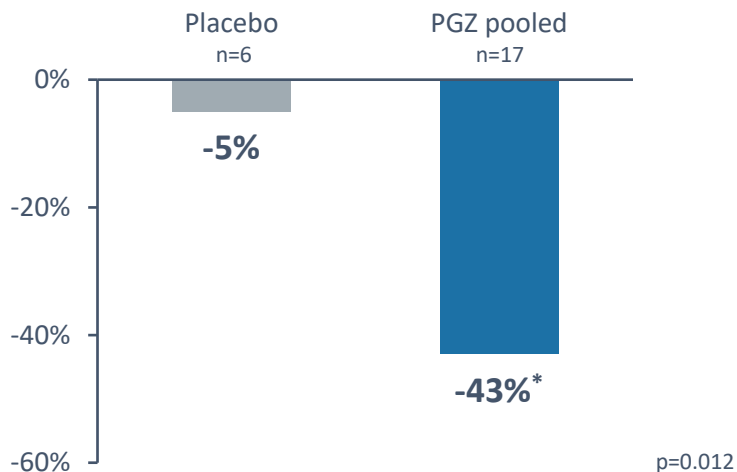
Analysis via unstratified Chi-square Test comparing the individual PGZ groups vs placebo. * p<0.05; ** p<0.01; *** p<0.001 vs. placebo
TG Responders defined as patients who achieve TG <500 mg/dL
Full Analysis Set

Pegozafermin Demonstrated Clinically Meaningful Improvements in Key Marker of CV Risk for SHTG



Pegozafermin Demonstrated Significant Improvement on Key Co-morbidities for SHTG Patients

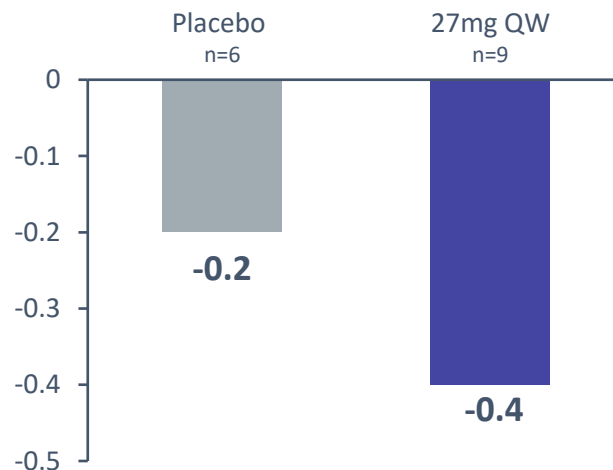
Mean Relative Reduction in Liver Fat vs Baseline at Week 8



HIGH RESPONDER RATES

≥30% Reduction in liver fat: 88% vs 0% in placebo

Absolute Change in HbA1c at Week 8 Patients with Baseline HbA1c ≥6.5%

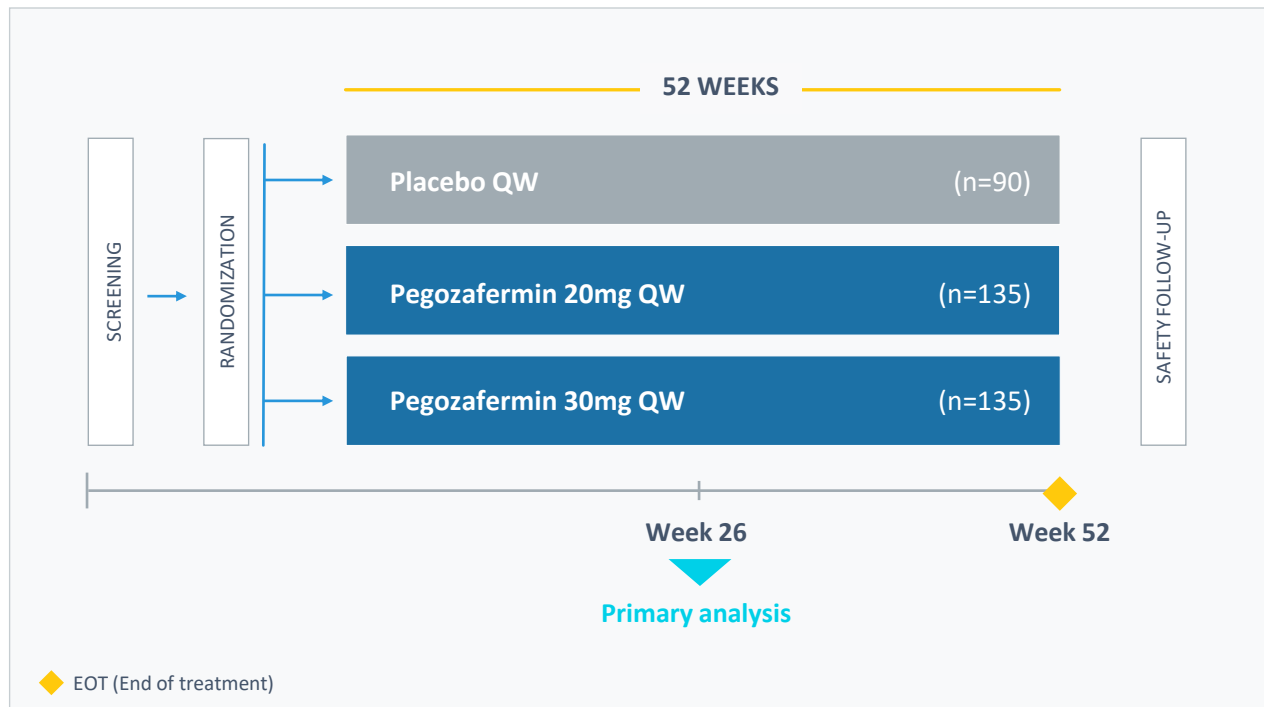


HbA1c: Mean Baseline 27 mg QW: 7.48%; Week 8: 7.08%

Pegozafermin Demonstrated Favorable Safety/Tolerability Profile in Phase 2 Study

- Pooled pegozafermin treatment related Adverse Events (AEs) observed in $\geq 7.5\%$ of patients were:
 - Nausea (10%), diarrhea (9%) and injection site reaction (9%) vs placebo (0%)
 - All Gastrointestinal (GI) AEs were Grade 1 or 2
- No Grade 3 or higher AEs
- No treatment-related SAEs; 2 treatment-related discontinuations at 27mg QW (both Grade 2)
- No tremor or hypersensitivity AEs reported
- No adverse effects on blood pressure or heart rate

Phase 3 ENTRUST Trial Design



KEY INCLUSION CRITERIA

- TG ≥ 500 mg/dL and $\leq 2,000$ mg/dL
- Stable background lipid modifying therapy*

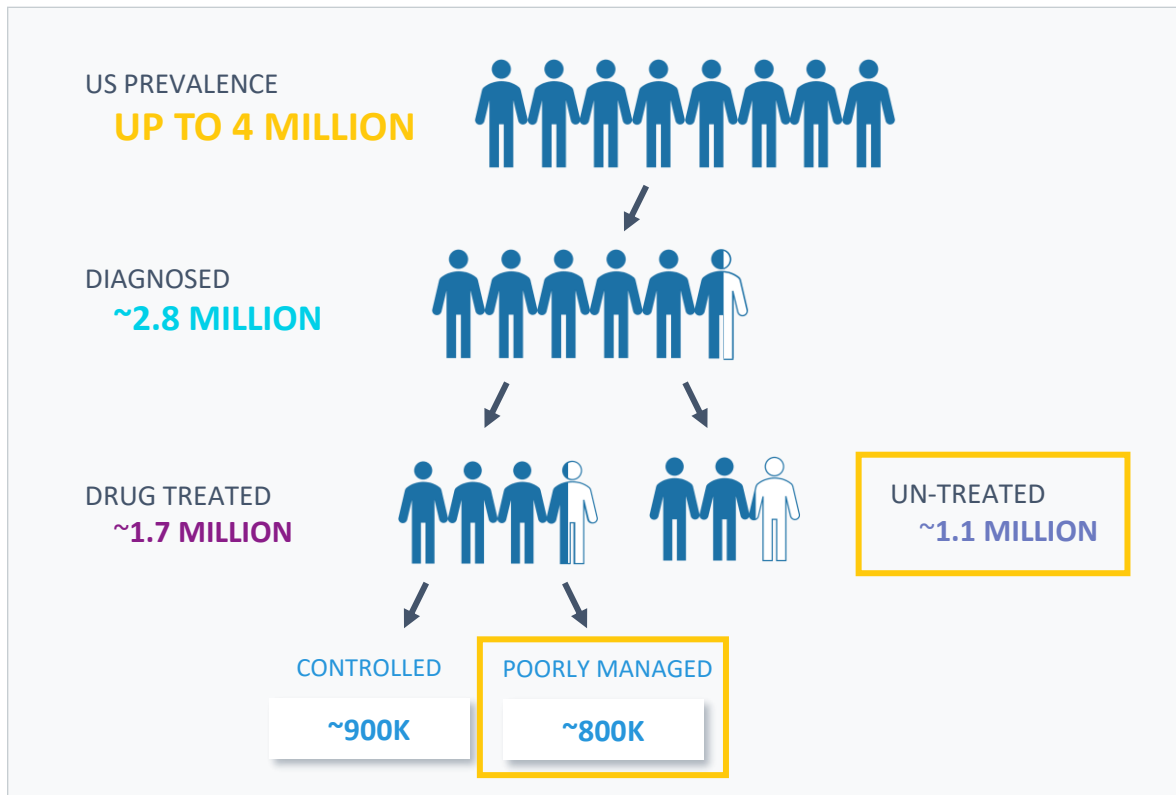
PRIMARY ENDPOINT

- Percent change from baseline in fasting TGs at Week 26 vs. placebo

KEY SECONDARY ENDPOINTS

- Liver fat by MRI-PDFF, Various lipids, HbA1c at Week 26 vs. placebo, TGs at Week 52 vs. placebo

SHTG Represents a Large Population with High Unmet Need



Co-morbidity	Prevalence in SHTG population
Fatty Liver Disease (NAFLD)	Up to 100%
Type 2 diabetes/Prediabetes	Up to 70%
Dyslipidemia	Up to 65%

Pegozafermin profile is unique and compelling to physicians because of potential for metabolic benefits

Pegozafermin Delivers on Key Attributes for Successful SHTG Therapy

MINOR INFLUENCE

MODEST INFLUENCE

MAJOR INFLUENCE

Hierarchy of Attributes for SHTG Therapy

RoA/Dosing

- RoA and dosing were seen as the least influential

Clinical Outcomes

- Physicians noted that clinical outcomes are not required to drive utilization in SHTG

Safety/Tolerability

- Lesser impact on treatment decisions compared to efficacy

Metabolic Endpoints

- Viewed as additive benefits
- Liver fat, HbA1c, and weight loss most important

TG Endpoints

- Most influential endpoint to drive use
- Significant efficacy over SoC will drive utilization

PEGOZAFERMIN ATTRIBUTES



- Generally well-tolerated
- 43% mean relative reduction in liver fat¹
- 0.4% absolute reduction in HbA1c²
- 63% reduction in TG from baseline²
- 80% of patients achieved TG<500mg/dL¹

Physician Enthusiasm for Metabolic Endpoints



¹Pooled pegozafermin data at week 8

²27mg pegozafermin data at week 8

RoA: Route of Administration.

Source: Physician Interviews; ClearView Analysis, 2022.

Pegozafermin has Similar TG Effects and Added Metabolic Benefits with No Increase in LDL-C when Compared to APO-C3 Inhibitor

	Pegozafermin ENTRIGUE ¹	Plozasiran (ARO-APO-C3) SHASTA-2 ²
Endpoint	27mg QW placebo-adjusted	50mg Q12W placebo-adjusted
TG	-53%	-57%
% Patients with TG<500	46%	37%
Liver fat by MRI-PDFF ³	-32%	Not reported
HDL-C	+35%	+58%
Non-HDL-C	-29%	-20%
LDL-C	+1%	+59%
Apo-B	-17%	-6%
Glycemic control	Demonstrated beneficial effect on glycemic control	Worsening glycemic control reported as AE: 19% vs 12% placebo

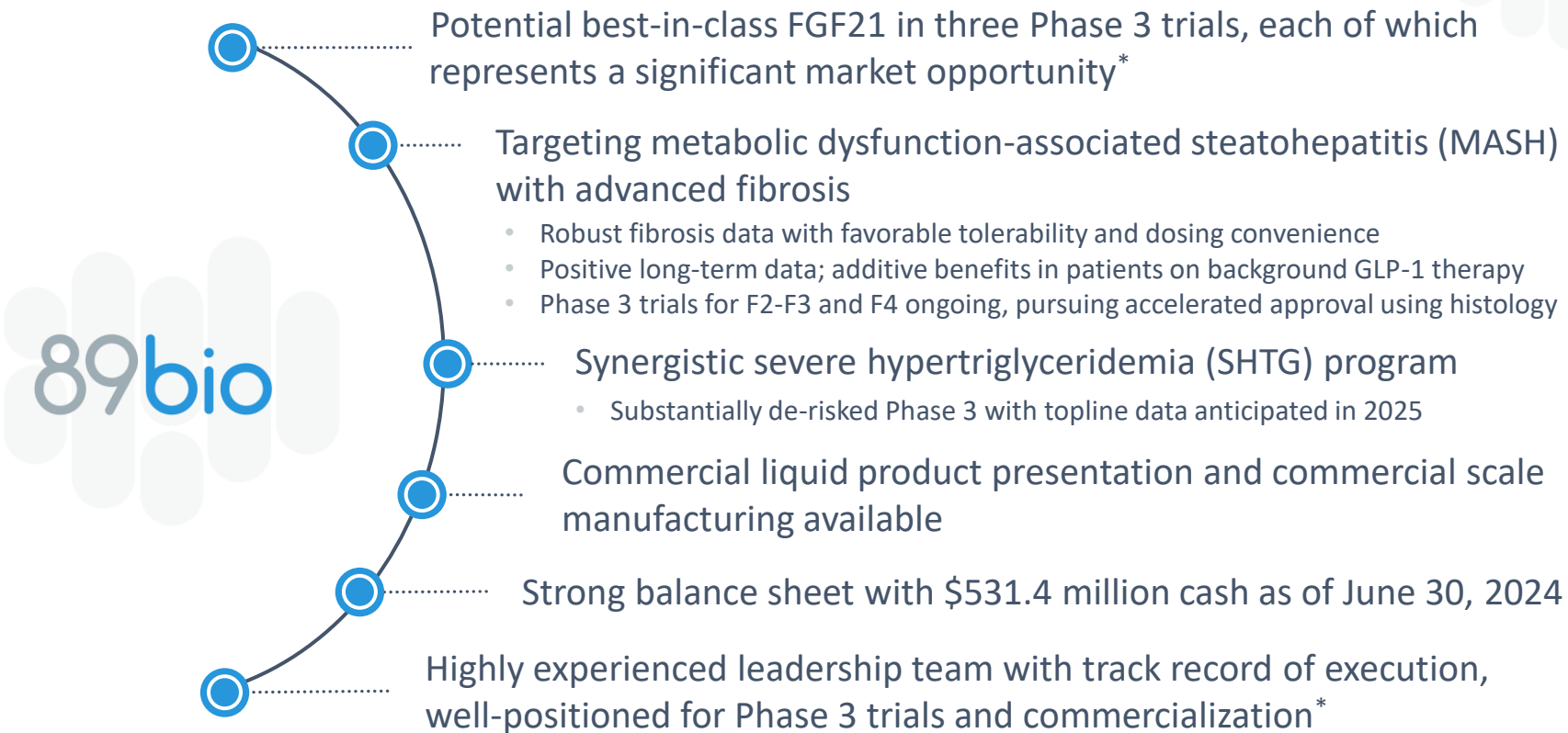
¹Bhatt, Bays, Miller et al. ENTRIGUE. Nature Medicine, 2023.

²AHA 2023: Gaudet, D; ARO-APOC3, an Investigational RNAi Therapeutic, Silences APOC3 and Reduces TG to Near Normal Levels in Patients with SHTG: SHASTA-2 Study Results

³ENTRIGUE topline data presentation, June 2022.

Note: These data are derived from different clinical trials at different points in time, with differences in trial design and patient populations. As a result, cross-trial comparisons cannot be made, and no head-to-head clinical trials have been conducted.

Corporate Highlights



89bio

Appendix



Experienced Management Team Positions 89bio for Success



Rohan Palekar

CEO

CEO, CCO experience
Commercial, strategy,
and R&D experience



Hank Mansbach, MD

CMO

20+ years biopharma
and R&D leadership in
clinical development and
medical affairs



Francis Sarena

COO

C-suite biotech executive
with 25 years of
experience as COO, CSO
and in M&A and corporate
governance



Ryan Martins

CFO

CFO experience
Strategy, Investor
Relations, finance, sell-
side experience



Jefferies

LAZARD



Quoc Le-Nguyen

**CTO &
Head of Quality**

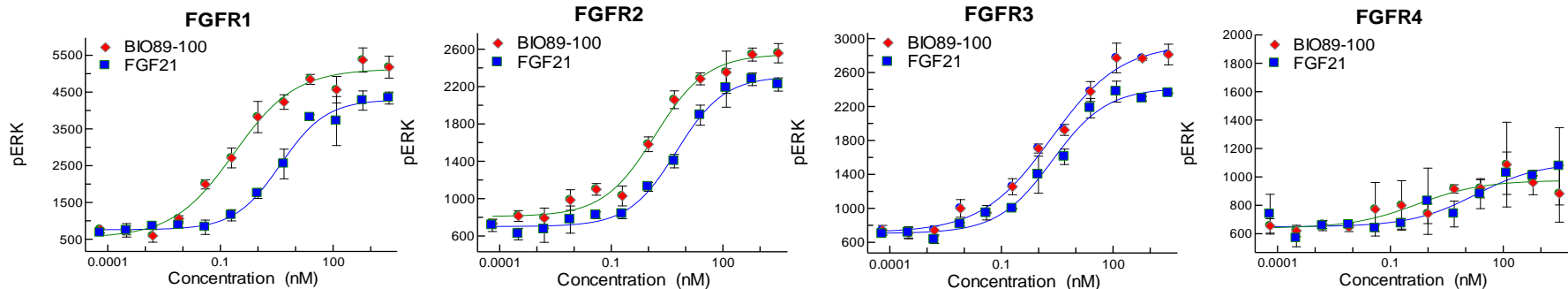
20+ years biopharma and
leadership in technical
operations, product
supply, and quality



BIOMARIN



Pegozafermin Exhibits Highly Potent FGF Receptor Agonism



Pegozafermin has the potential to reproduce the beneficial metabolic effects of native FGF21

RECEPTOR	FGF21	Pegozafermin
	EC ₅₀ (nM) Mean ± S.D.	EC ₅₀ (nM) Mean ± S.D.
KLB	nd	nd
KLB/FGFR1	4.5 ± 1.0	0.3 ± 0.07
KLB/FGFR2	4.5 ± 0.9	1.1 ± 0.4
KLB/FGFR3	1.8 ± 0.3	1.2 ± 0.4
KLB/FGFR4	nd	nd

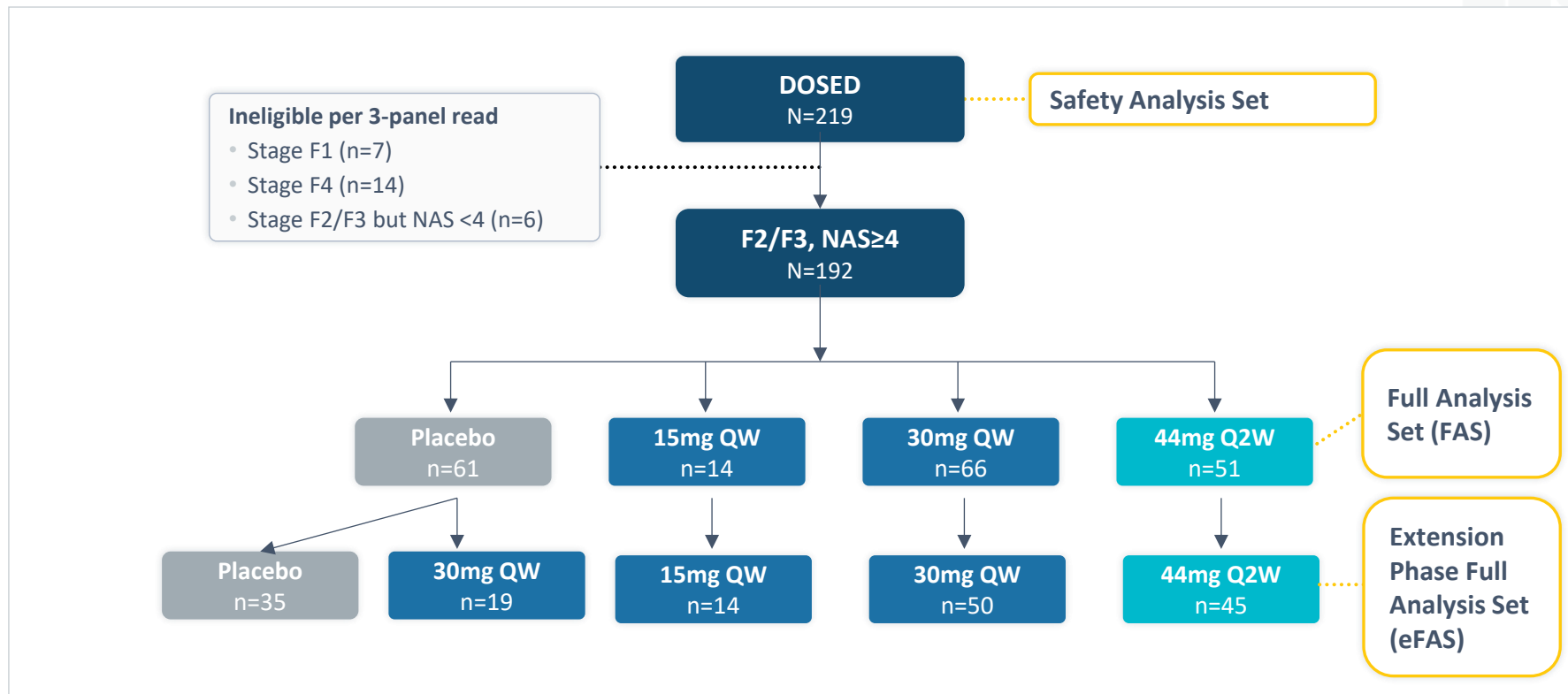
nd – not determined; rhFGF19 EC₅₀ at FGFR4 = 1.7 ± 0.4

ENLIVEN Baseline Characteristics Well Balanced Across Dose Groups

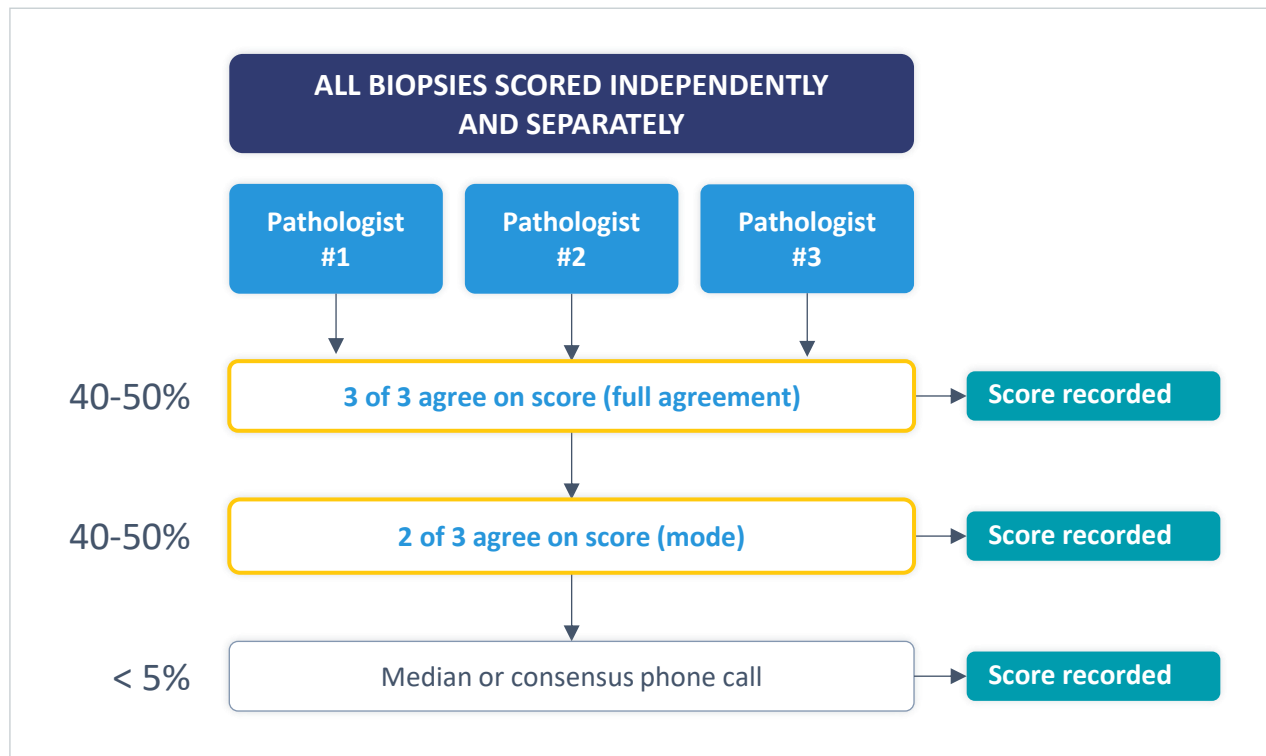
Parameter Mean or %	Placebo (n=71)	15mg QW (n=21)	30mg QW (n=73)	44mg Q2W (n=57)	Total (n=222)
Age (years)	56	55	55	55	56
Female	55%	43%	69%	65%	61%
BMI (kg/m ²)	38	38	35	36	37
Type 2 Diabetes	69%	86%	62%	61%	66%
Fibrosis Stage (% F3)	66%	43%	64%	53%	60%
NAFLD Activity Score	5.0	4.8	5.3	5.2	5.1
Liver Fat Content (MRI-PDFF)	16.7%	15.8%	16.7%	15.8%	16.4%
Liver Stiffness (VCTE, kPa)	14.1	11.2	12.5	13.2	13.0
PRO-C3 (ng/mL)	50	62	54	52	53
ALT (U/L)	50	61	60	56	56
AST (U/L)	41	48	47	42	44
HbA1c, overall population (%)	6.6	7.0	6.6	6.7	6.7
Triglycerides (mg/dL)	170	186	175	165	172

Baseline characteristics were consistent in full analysis set (n=192) and the safety set (n=222)

ENLIVEN Patient Disposition and Analysis Sets



ENLIVEN Used Objective Biopsy Reading Methodology Designed to Reduce Histology Scoring Biases and Variability



- Pathologists underwent protocol-specific harmonization training before and during trial
- Pathologists were blinded to patient, treatment and sequence
- >99% of final scores determined by a priori established algorithm, versus resolving disagreements via inter-reader discussion

Pre-Specified ITT Analysis Confirms Robustness of Primary Efficacy Results

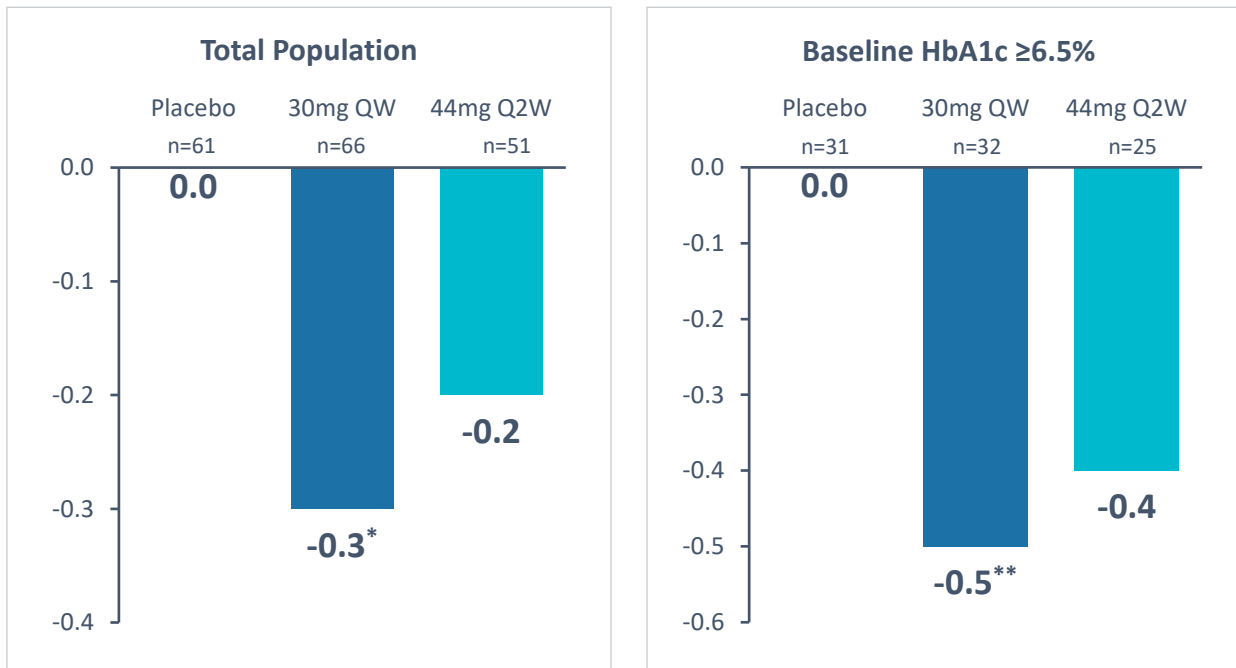


ITT (missing data = non-responder); (n=192) at Week 24

	30mg QW	44mg Q2W
Fibrosis improvement without worsening of MASH		
Effect Size (placebo-adjusted)	15%	16%
p-value	0.019	0.015
MASH resolution without worsening of fibrosis		
Effect Size (placebo-adjusted)	17%	20%
p-value	0.0019	0.0009

Pegozafermin Demonstrated Meaningful Reductions in HbA1c (ENLIVEN)

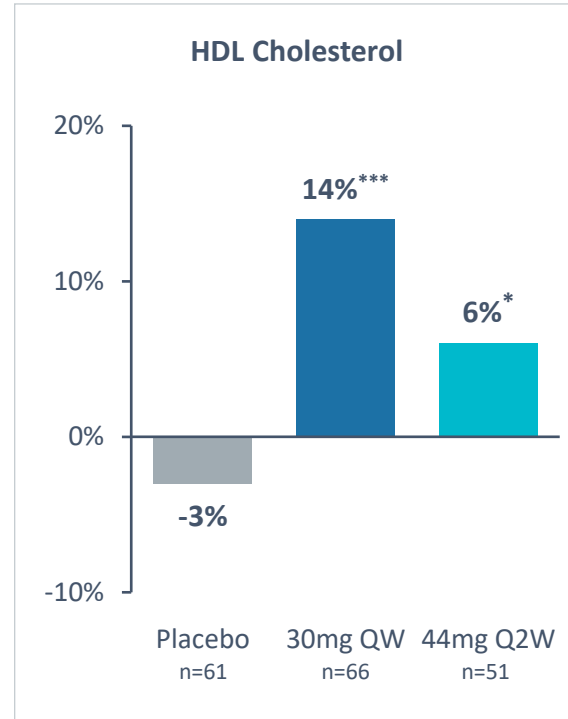
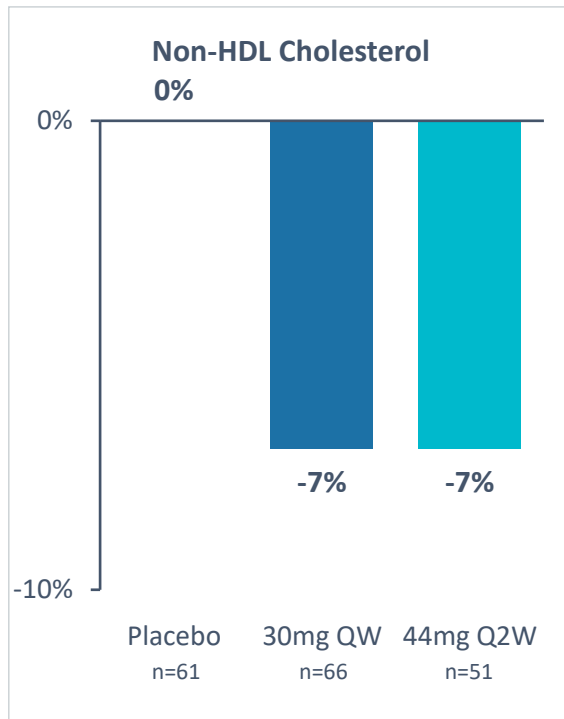
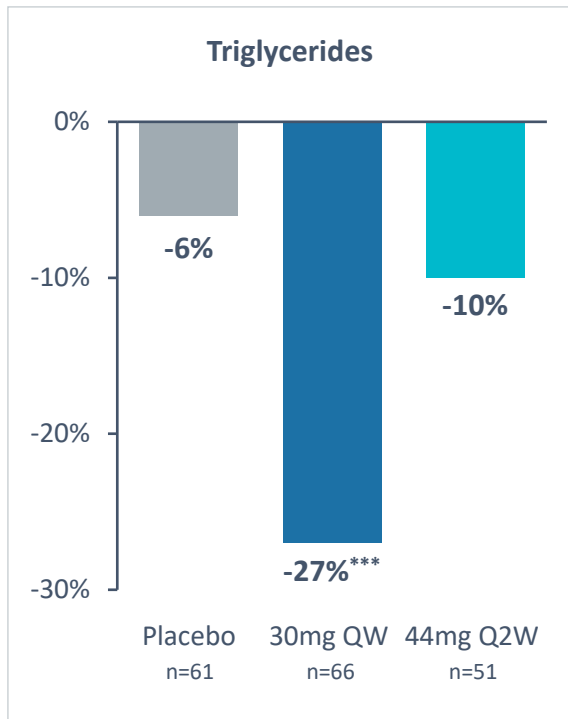
Change in HbA1c from Baseline at Week 24



Pegozafermin Demonstrated Meaningful Changes in Serum Lipids (ENLIVEN)

WEEK 24

Percent Change in Serum Lipids from Baseline at Week 24



Source: Full Analysis Set. Analysis via van Elteren Test for triglycerides (reported as median) and mixed model with repeated measure (MMRM). Patients with missing week 24 triglycerides are excluded from the non-parametric analysis.

Non-HDL-cholesterol and HDL Cholesterol (reported as LS means) with changes from baseline (absolute or %) as dependent variables.

*p<0.05, ***p<0.001 versus placebo.

Independent Patient Confirmation of Pegzofermin Treatment Effect

Placebo Patients Showed Robust Benefits Upon Crossing Over to Pegzofermin

CROSSOVER

Change from Baseline

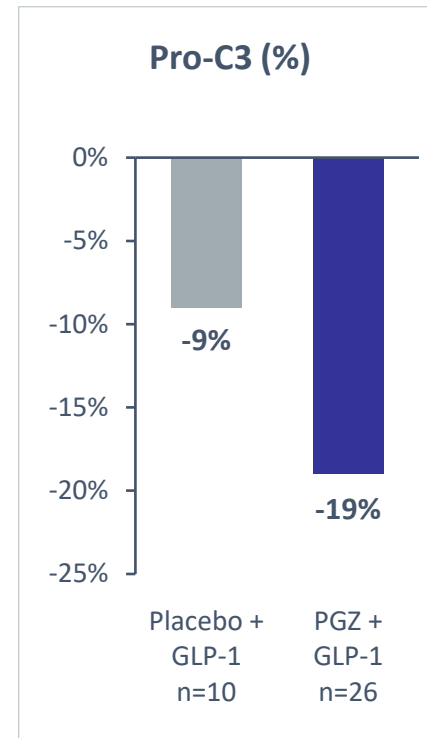
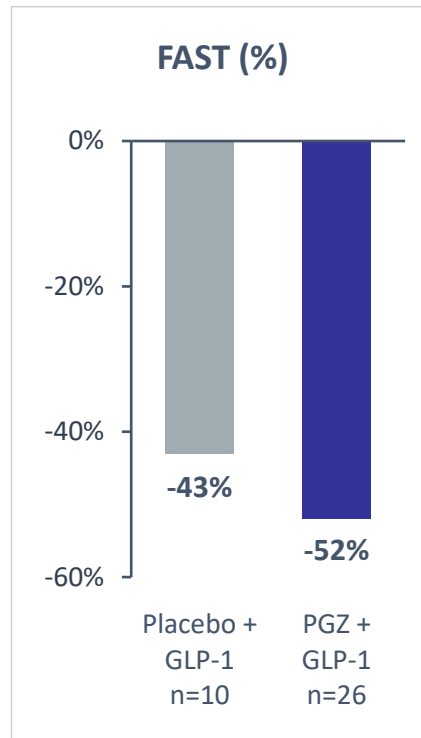
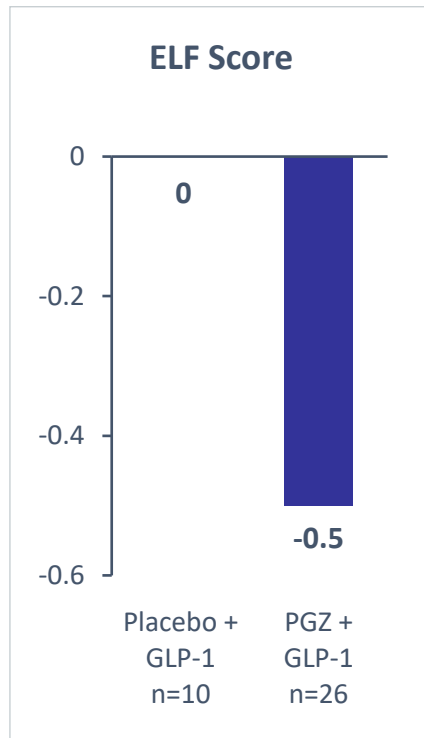
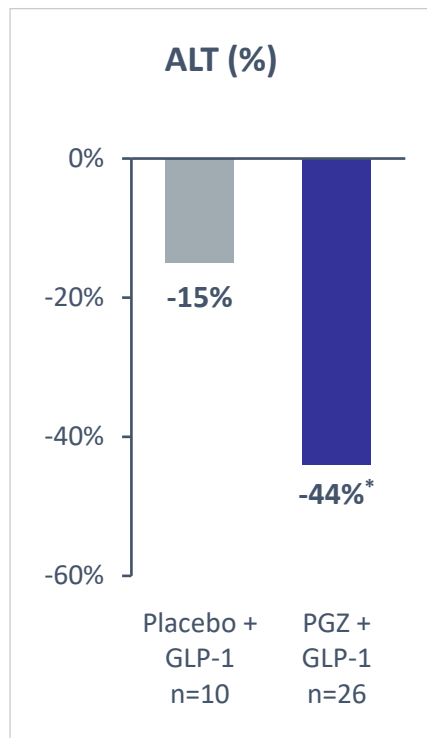
Parameter	Main Study Placebo n=19	Extension Phase 30mg QW n=19
MRI-PDFF	-21%	-63%
ALT	-2%	-32%
AST	-2%	-31%
PRO-C3	+8%	-17%
FAST	-14%	-53%
VCTE (kPa)	-0.7	-2.4
ELF score	+0.1	-0.2

19 patients were re-randomized from placebo to 30mg QW at week 24 and continued through week 48

Sustained Benefits on Fibrosis Markers Were Observed with Pegzofermin vs. Placebo in Patients on Background GLP-1 Therapy at Week 48

WEEK 48

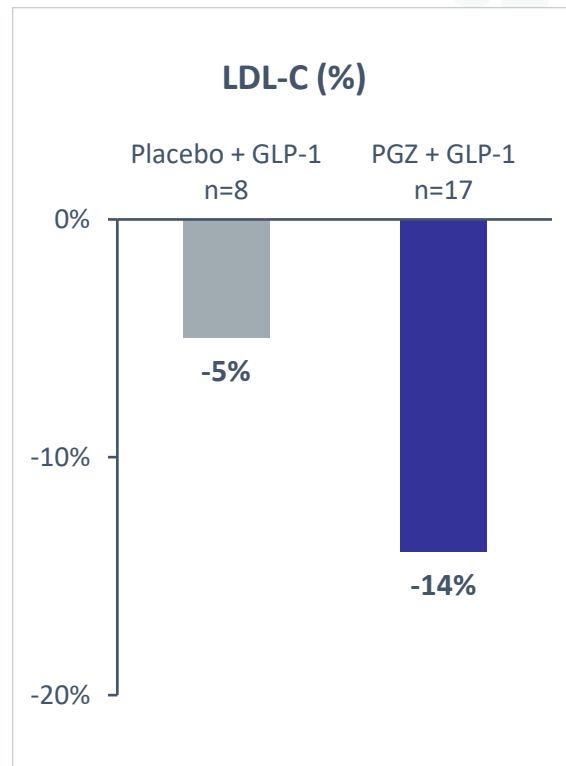
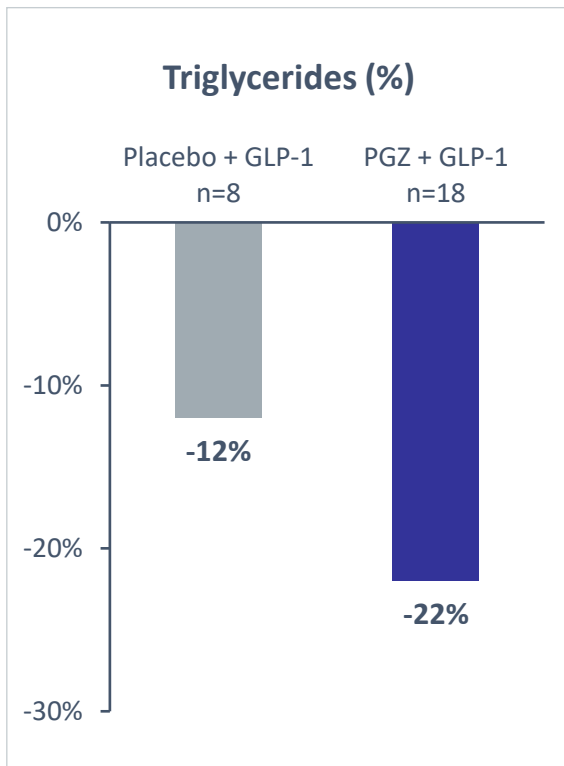
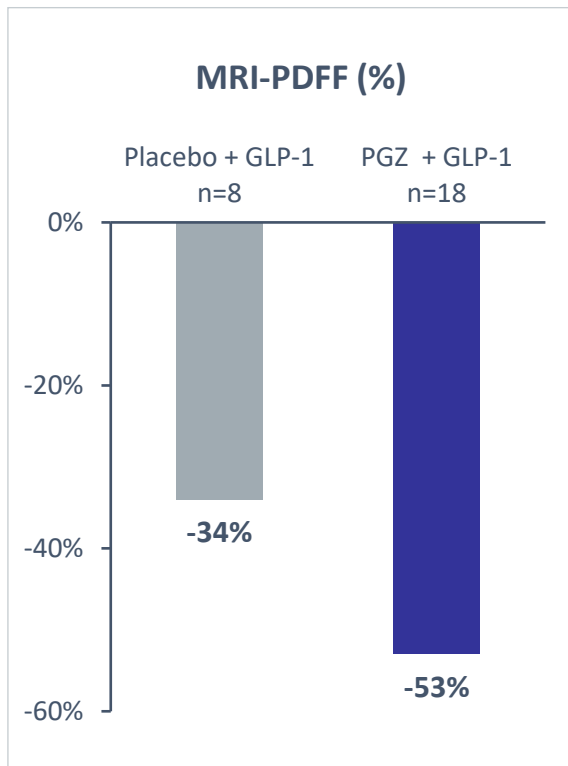
GLP1



Sustained Benefits on Metabolic Markers Were Observed with Pegozafermin vs. Placebo in Patients on Background GLP-1 Therapy at Week 48

WEEK 48

GLP1

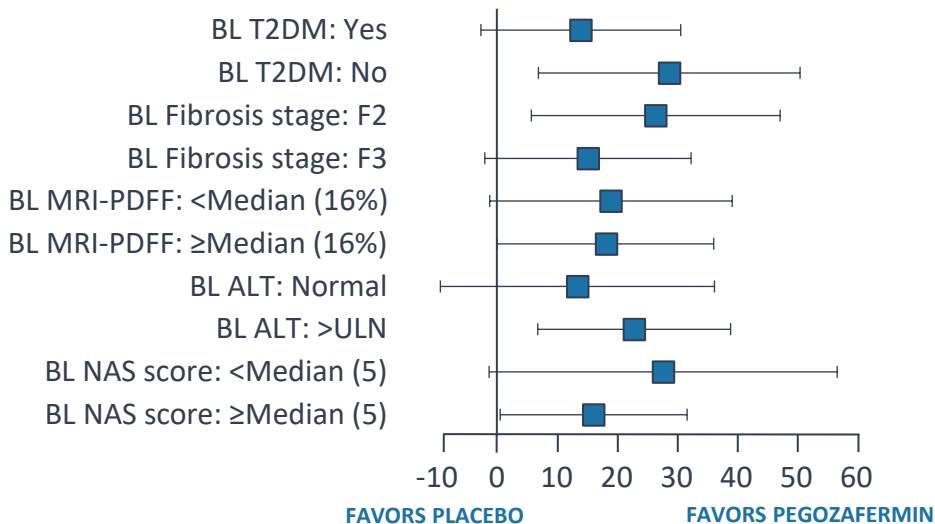


Pegozafermin Showed Consistent and Significant Benefit in Achieving Fibrosis Improvement Across Prespecified Subgroups



Pegozafermin 30mg QW

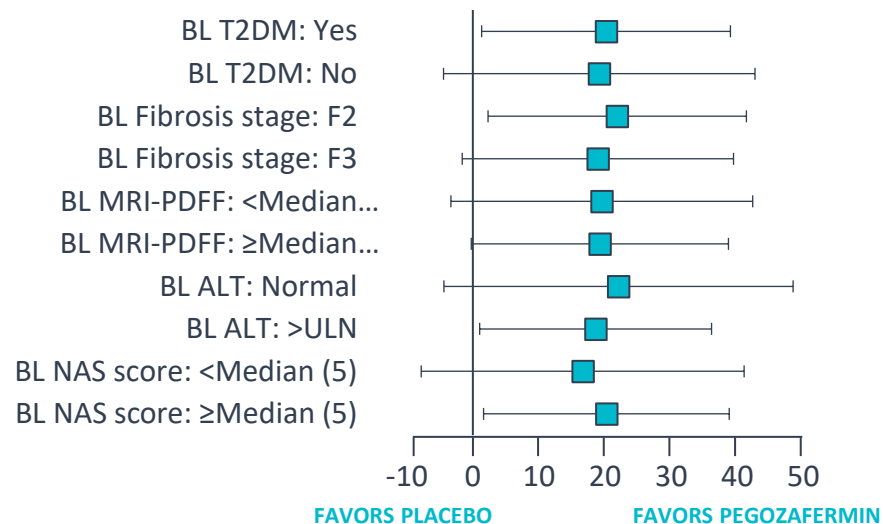
Proportion Achieving Fibrosis Improvement



Est. proportion difference (95% CI)

Pegozafermin 44mg Q2W

Proportion Achieving Fibrosis Improvement



Est. proportion difference (95% CI)

Source: Full Analysis Set

ALT, alanine aminotransferase; BL, baseline; MRI-PDFF, magnetic resonance imaging proton density fat fraction; NAS, Nonalcoholic fatty liver disease Activity Score; MASH, nonalcoholic steatohepatitis; Q2W, every 2 weeks; QW, once weekly; T2DM, type 2 diabetes mellitus; ULN, upper limit of normal.

Comparative Profile of FGF21 Analogs in NASH – Safety/Tolerability at Latest Timepoints

	Pegozafermin (PGZ)		Efruxifermin (EFX)	
	48 weeks		96 weeks	
	30mg QW n=72	44mg Q2W n=57	28mg QW n=40	50mg QW n=43
Treatment-related Adverse Events (key terms)				
Diarrhea	17%	9%	40%	37%
Nausea	21%	18%	30%	33%
Increased appetite	13%	5%	18%	23%
Injection site erythema	14%	5%	20%	16%
Injection site bruising	3%	4%	15%	7%

Data from Cohort 7 Support Pegzofermin's Impact in F4 Patients



Histology data - Fibrosis improvement ≥ 1 stage without worsening of MASH ranged from 17% to 57%

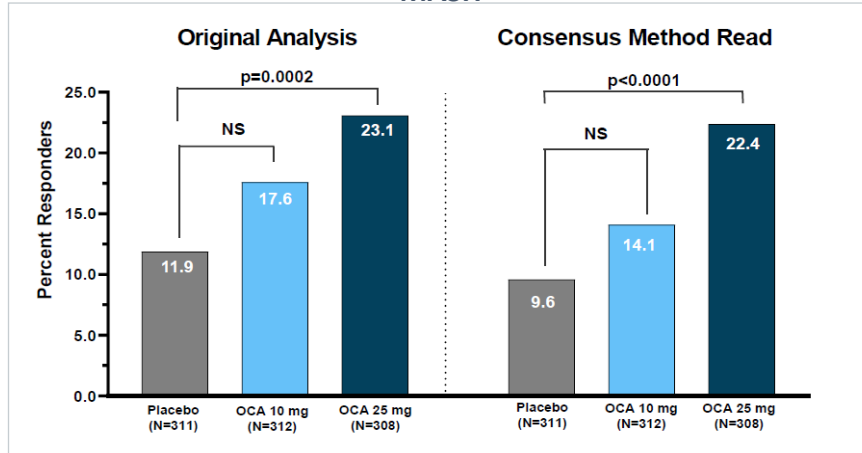
Parameter	PGZ Treated Patients (n=6)
Liver Fibrosis	
VCTE (kPa)	-3.8
FAST (%)	-78.5%
Pro-C3 (%)	-25.5%
Liver Injury	
ALT (%)	-50.7%
AST (%)	-48.7%

Data presented as means for Cohort 7 F4 patients

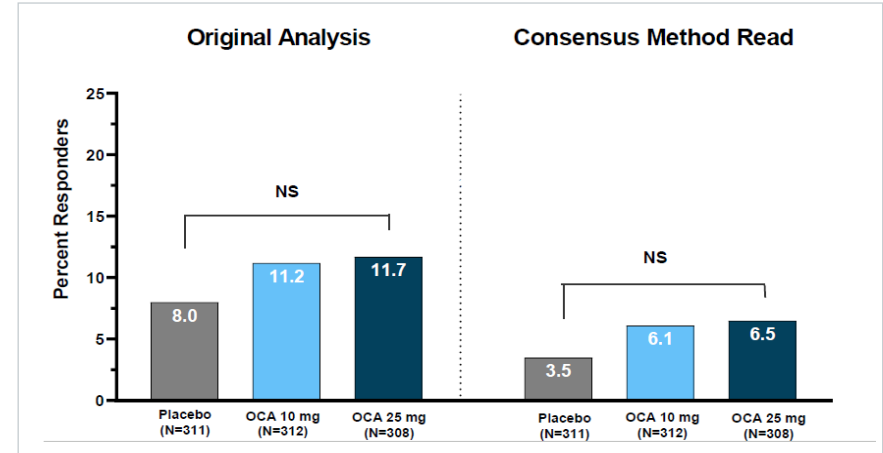
Safety and tolerability were similar to what has been observed in the non-cirrhotic patient population

Learnings from the Obeticholic Acid MASH Phase 3 Program: Comparison of Single Central Reader vs. 3-Panel Consensus

Improvement of Fibrosis by ≥ 1 Stage without Worsening MASH



Resolution of MASH with No Worsening of Liver Fibrosis



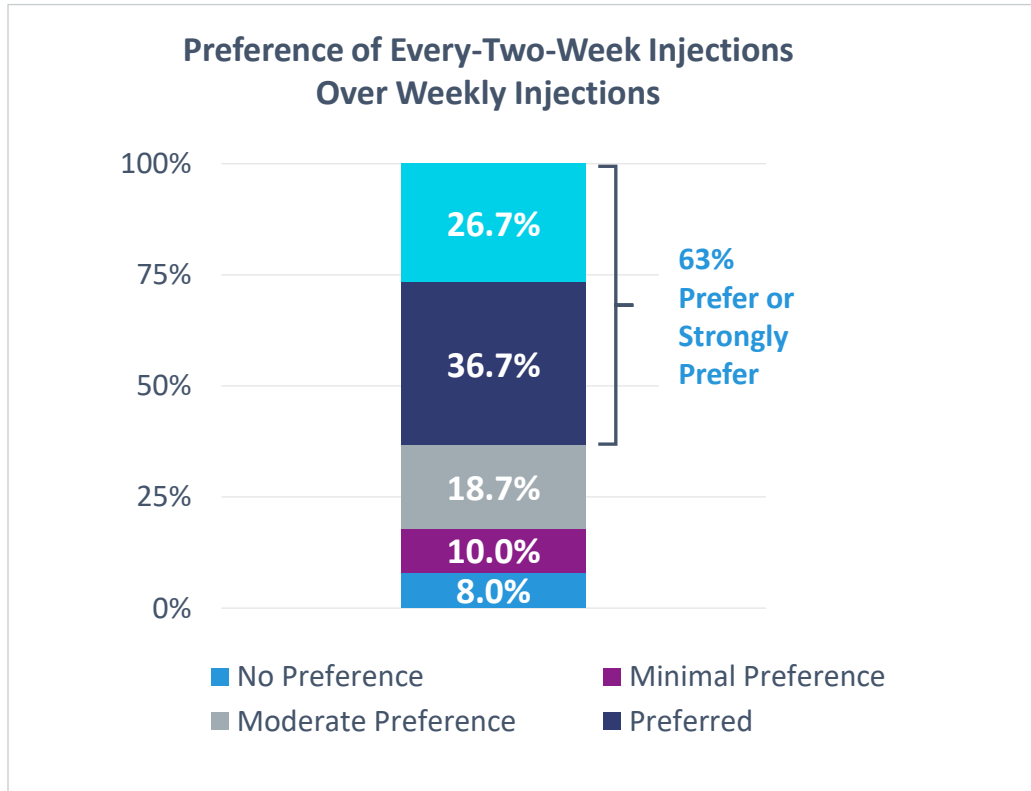
OBSERVATIONS:

- Placebo response for MASH resolution is >2 fold higher with single reader vs 3-panel consensus
- Placebo response similar to ENLIVEN study for both fibrosis improvement and for MASH resolution

IMPLICATIONS:

- 3-panel consensus highlights treatment delta but dampens absolute response
- 3-panel consensus methodology can reproduce low placebo response in phase 3 trial

Over 60% of T2D Patients Prefer or Strongly Prefer Every-Two-Week Injections



- Every-two-week dosing provides opportunity for physicians to optimize therapy to patient preference
- Compliance is important in treatment for chronic, asymptomatic diseases

The Perception of GLP-1 Therapy in Advanced MASH is Mixed Due to Lack of Fibrosis Improvement and Difficult Tolerability Profile



INCRETIN PERCEPTIONS

Lack of fibrosis improvement, difficult tolerability profile, and weight gain after discontinuation make physicians wary of using incretins as a monotherapy for the treatment of MASH, especially for patients with advanced fibrosis. Need for direct anti-fibrotic agents still exists.

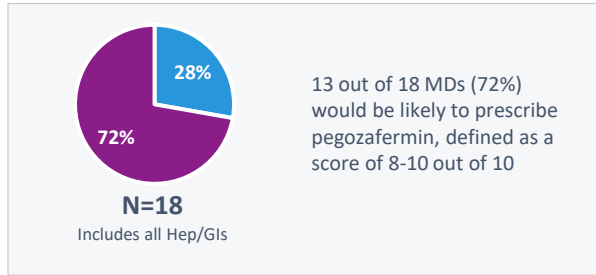
PATIENT PERCEPTIONS OF INCRETINS

- **Perceived to be highly effective for weight loss**
 - Minority mention no known impact on MASH yet
- **Injections not perceived as painful or barrier**
- **Experience difficult side effects, primarily GI**
 - Benefit trade-off positive; some ultimately forced to discontinue due to severity

HCP PERCEPTIONS OF INCRETINS

- **Felt to be efficacious**
- **High GI-related side effect led to discontinuation rate ~15-30%**
- **Payer coverage for obesity drugs a challenge (potentially to change over time)**

Prescribers Believe Pegzofermin has the Strongest Liver & MASH Clinical Activity and Favorable Tolerability Profile



pegzofermin

PATIENT TYPES:

- **Most suitable:** F3 and F4, though would use widely
- **Less suitable:** F2 with T2DM (PCPs & Endo/Diabs)
- **Not suitable:** those who refuse injection (likely rare)

BENEFITS



Liver-related clinical activity is strongest (esp. Hep/GIs): Fibrosis improvement; MASH resolution, liver stiffness, ALT reduction and MRI-PDFF is impressive



Favorable tolerability profile



Combination with GLP-1s is appealing given trial includes those on GLP-1s

NEUTRAL



Other metabolic benefits are nice to have, but less relevant (Hep/GI)



Patients will accept injectables for efficacy - once every 2 weeks is preferred

DRAWBACKS



Few PCPs and Endos would like to see more improvement on HbA1c and weight loss



Some PCPs prefer to refer MASH treatment to liver specialists