

ALTIMMUNE, INC. CORPORATE PRESENTATION

November 2024

Forward-looking statements

Safe-Harbor Statement

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ALTIMMUNE HIGHLIGHTS



Developing next generation peptide therapeutics for obesity and liver diseases



Multiple near-term value-driving catalysts in both obesity and MASH



\$139.4M cash, cash equivalents and short-term investments at 9/30/2024

STRONG MANAGEMENT TEAM



Vipin K. Garg, PhD
President & CEO



Greg Weaver, MBA
Chief Financial Officer



Scott Harris, MD
Chief Medical Officer



Scot Roberts, PhD
Chief Scientific Officer



Bertrand Georges, PhD
Chief Technology Officer

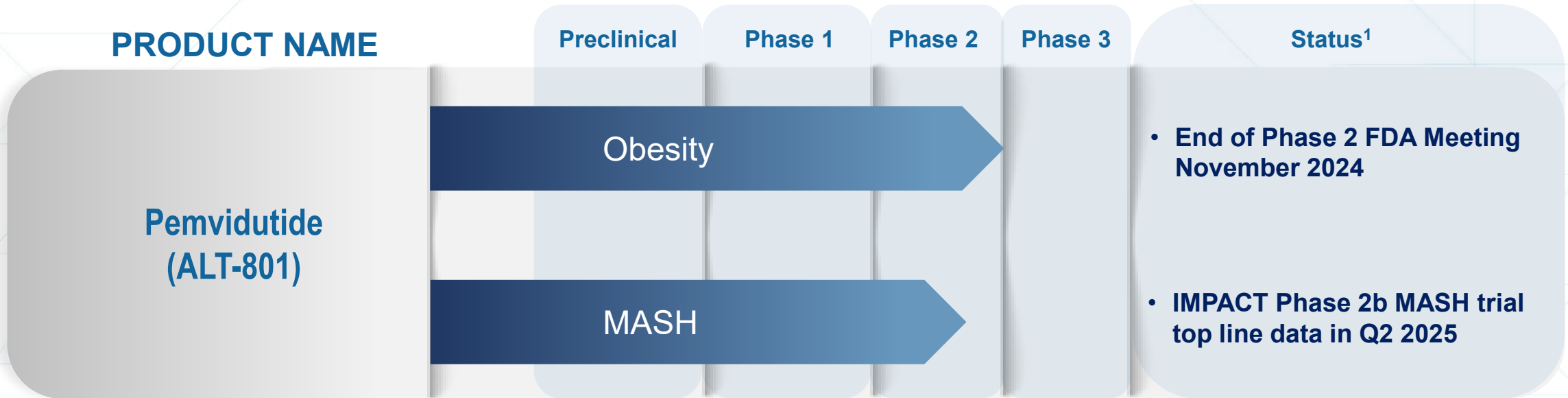


Raymond Jordt, MBA
Chief Business Officer



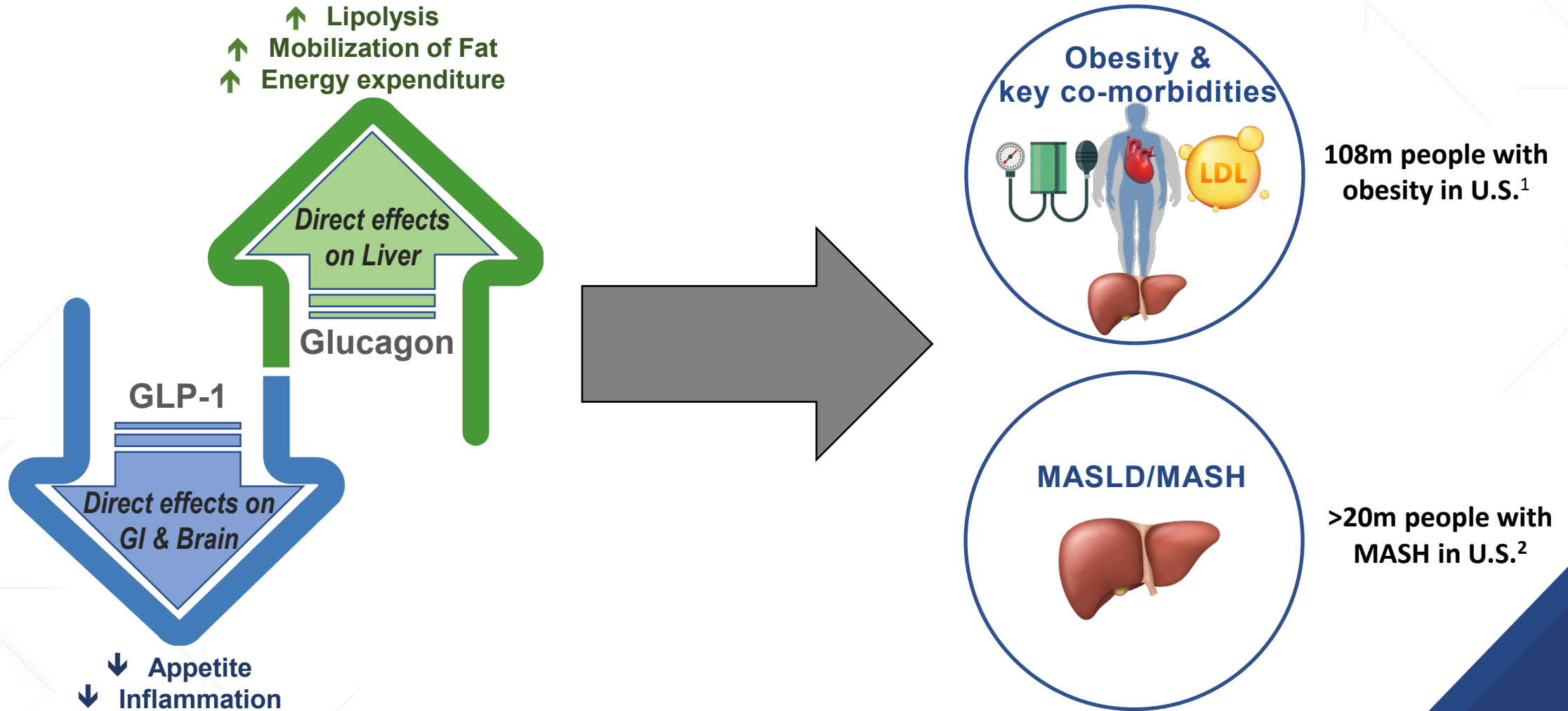
FOCUSED PIPELINE

PEPTIDE-BASED THERAPEUTICS TARGETING OBESITY AND MASH



¹ Expected Dates

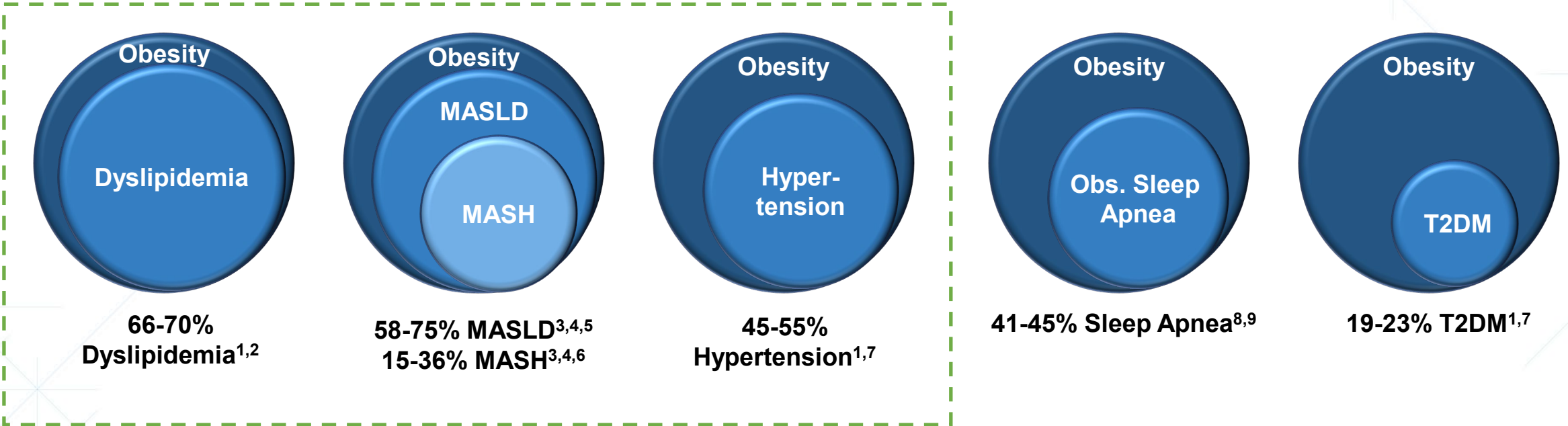
PEMVIDUTIDE MOA IS OPTIMIZED FOR OBESITY AND MASLD/MASH



¹US Obesity Population: Hales CM et al. NCHS Data Brief. 2020 Feb;(360):1-8. PMID: 32487284.

²US MASH Population: Estes, C., et. al. Hepatology 2018; 67(1):123-133. doi: 10.1002/hep.29466

US PREVALENCE AND SIGNIFICANCE OF OBESITY COMORBIDITIES



Most significant comorbidities are dyslipidemia, MASLD/MASH, and hypertension

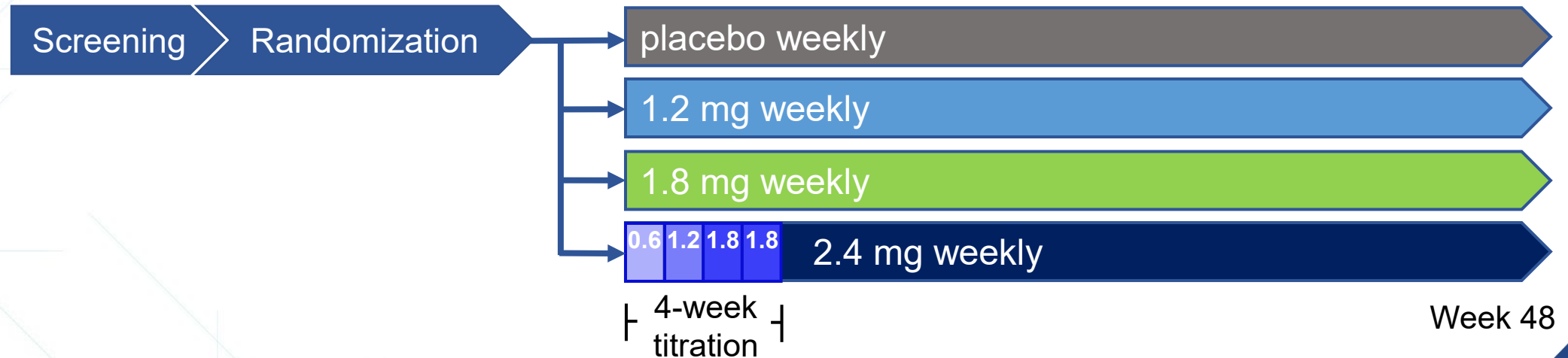
- 1) Bays, Harold, et al. (2013) Obesity, adiposity, and dyslipidemia: A consensus statement from the National Lipid Association. *Journal of Clinical Lipidology* 7(4):304–383.
- 2) Lim Y, Boster J. Obesity and Comorbid Conditions. [Updated 2023 Feb 8]. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; <https://www.ncbi.nlm.nih.gov/books/NBK574535/>
- 3) Quek, Jingxuan, et al. (2023) Global prevalence of non-alcoholic fatty liver disease and non-alcoholic steatohepatitis in the overweight and obese population: *The Lancet Gastroenterology & Hepatology* 8(1):20-30.
- 4) Vernon, G, et al. (2011) Systematic review: the epidemiology and natural history of non-alcoholic fatty liver disease and non-alcoholic steatohepatitis in adults. *Aliment Pharmacol Ther* 34:274–285.
- 5) Le, Michael, et al. (2022) 2019 Global NAFLD Prevalence: A Systematic Review and Meta-analysis. *Clinical Gastroenterology and Hepatology* 2022;20:2809–2817
- 6) Dufour, Jean-François, et al. (2021) The global epidemiology of nonalcoholic steatohepatitis (NASH) and associated risk factors—A targeted literature review. *Endocrine and Metabolic Science* 3.
- 7) Pantalone KM, et al. Prevalence and recognition of obesity and its associated comorbidities. *BMJ Open* 2017;7:e017583. doi:10.1136/bmjopen-2017-017583
- 8) Romero-Corral, Abel, et al. (2010) Interactions Between Obesity and Obstructive Sleep Apnea. *Chest* 137(3): 711-719.
- 9) Garvey JF, Pengo MF, Drakatos P, Kent BD. Epidemiological aspects of obstructive sleep apnea. *J Thorac Dis* 2015;7(5):920-929.



Pemvidutide: *Obesity*

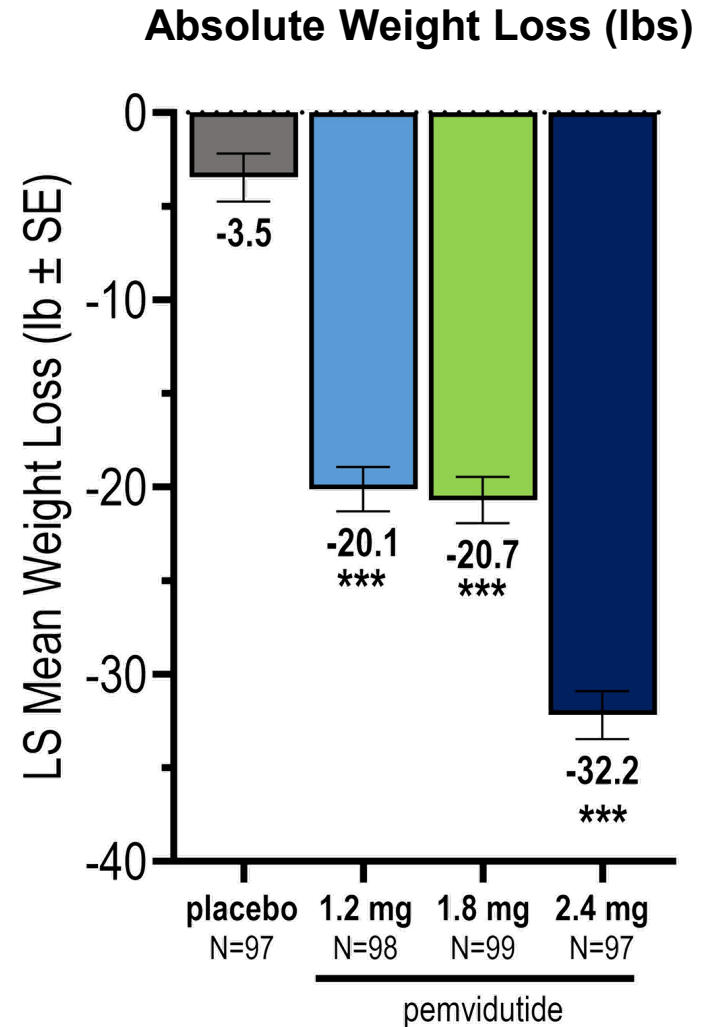
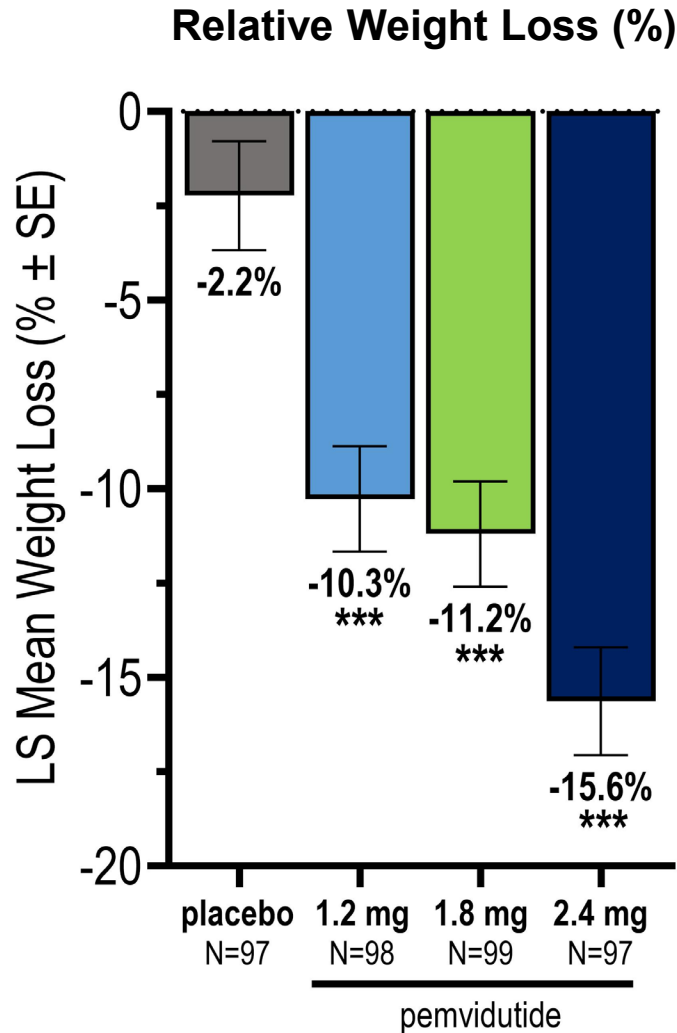
MOMENTUM OBESITY TRIAL DESIGN

- Phase 2, 48-week trial of pemvidutide in 391 subjects with overweight or obesity
- Randomized 1:1:1:1 to 4 treatment arms, stratified by gender and baseline BMI, with standard lifestyle interventions
- No or rapid (4 week) dose titration; dose reduction for intolerability was not allowed

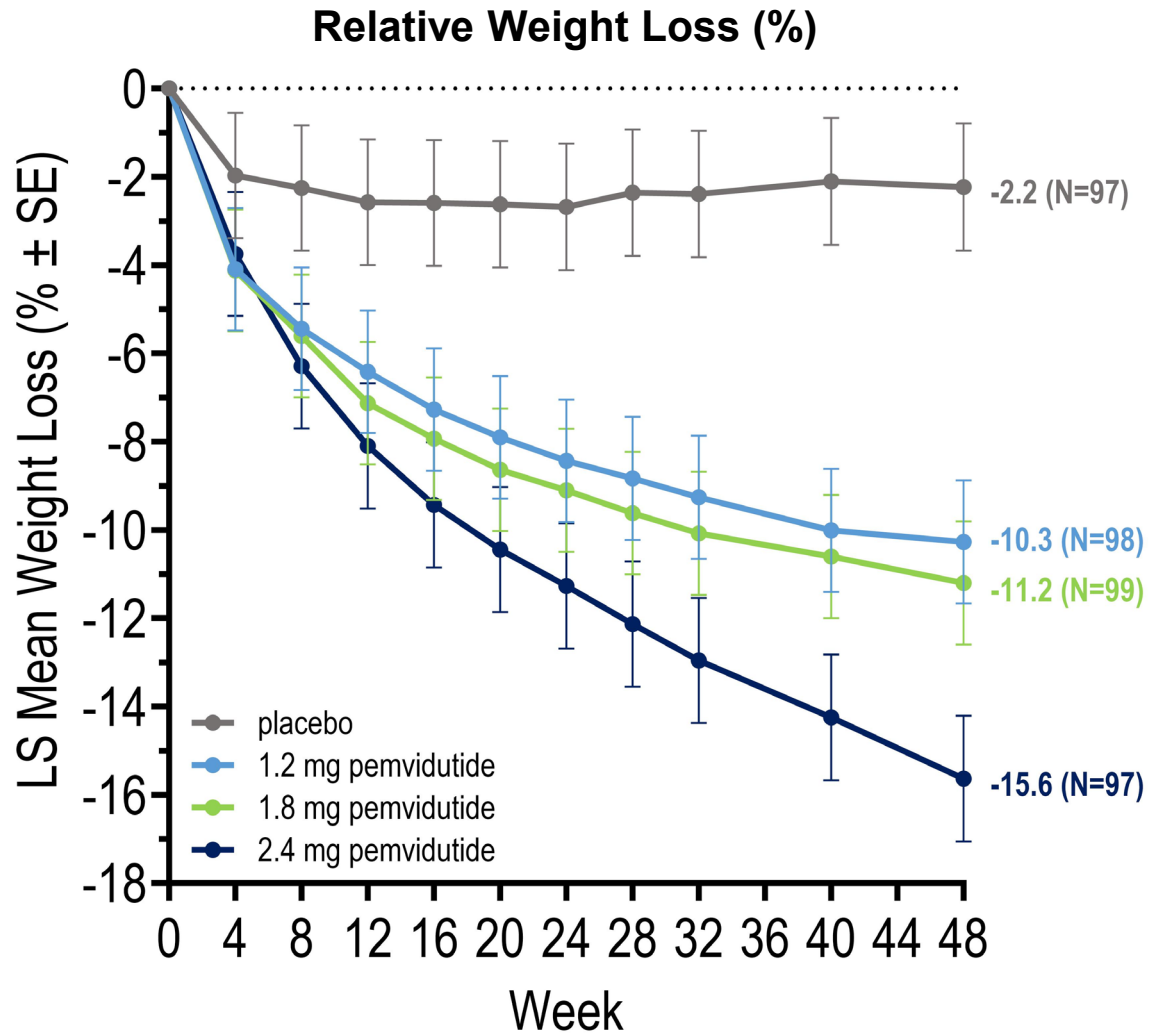


WEIGHT LOSS OF 15.6% ACHIEVED AT WEEK 48 ON 2.4 MG

MEAN WEIGHT LOSS OF 32.2 LBS AND MAXIMAL WEIGHT LOSS OF 87.1 LBS

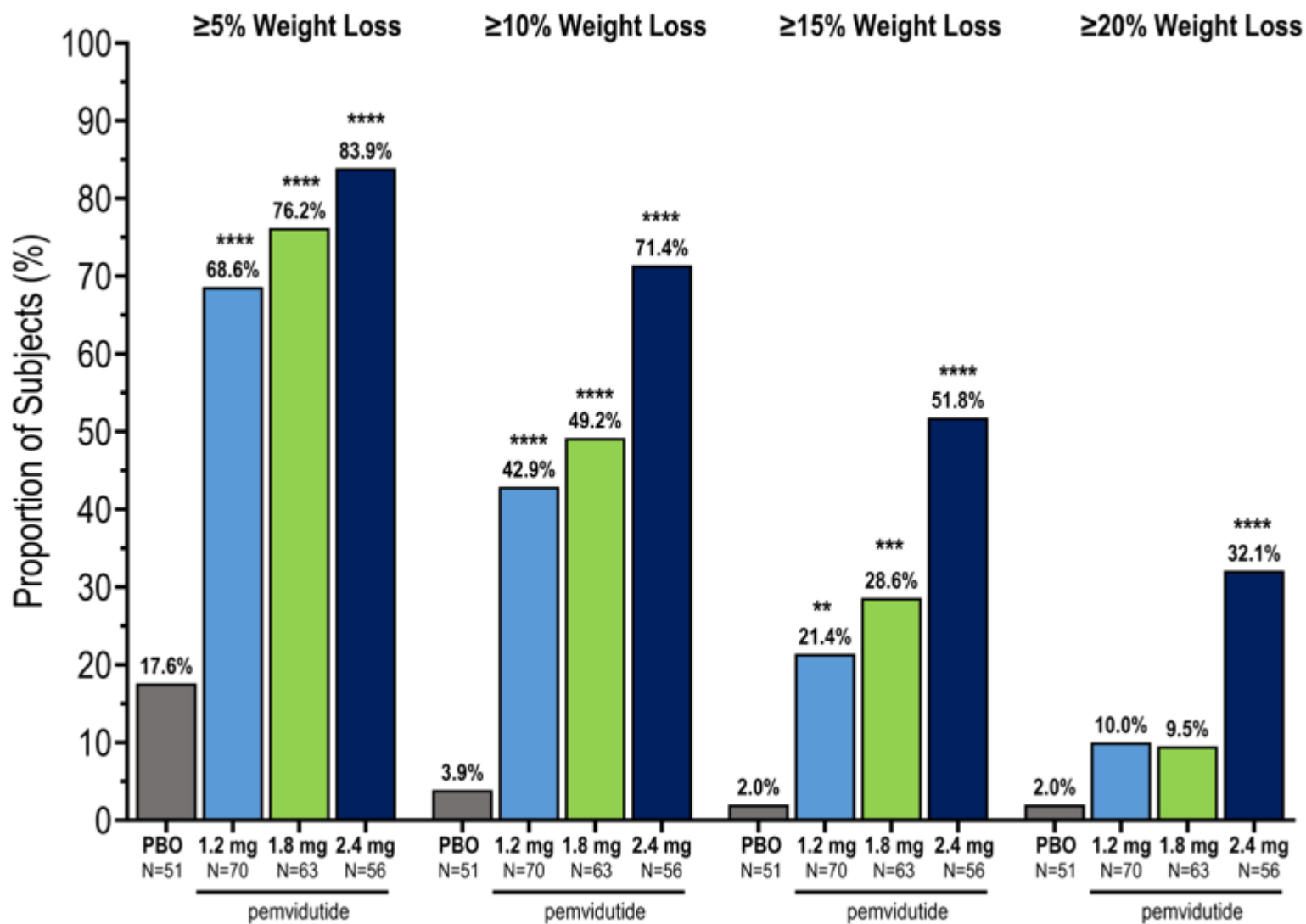


WEIGHT LOSS CONTINUING AT WEEK 48



- Near linear trajectory of weight loss on 2.4 mg at 48 weeks
- Greater weight loss could potentially be realized with longer durations of treatment

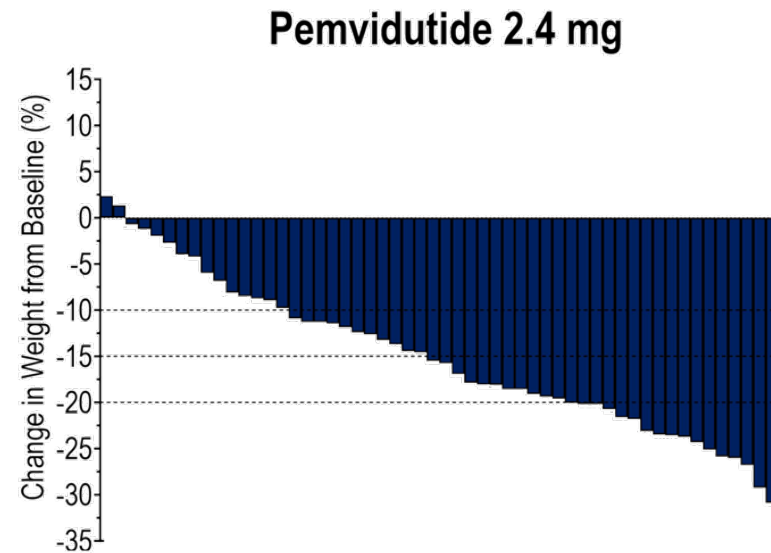
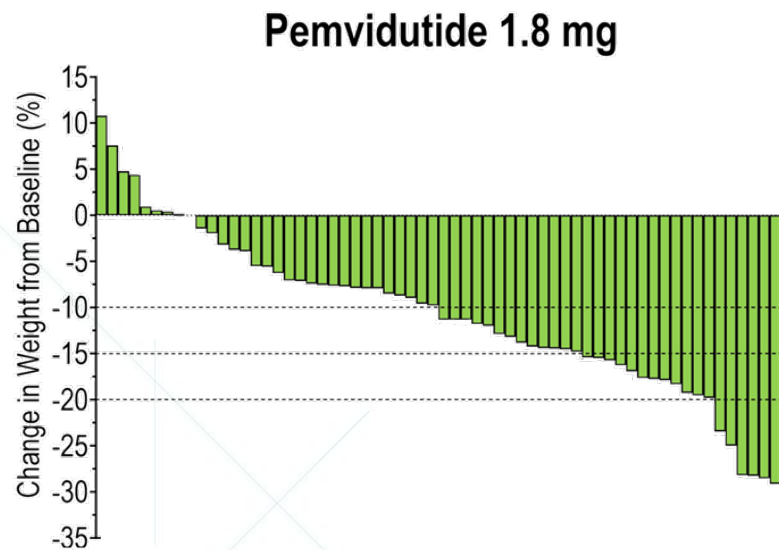
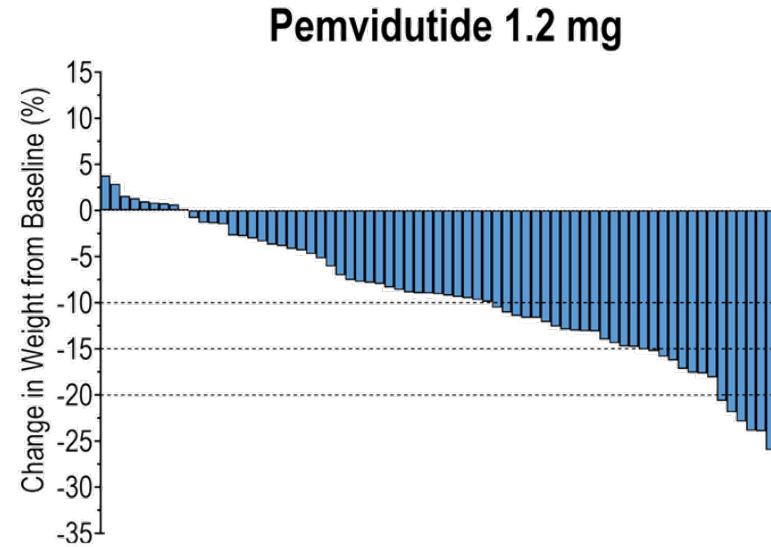
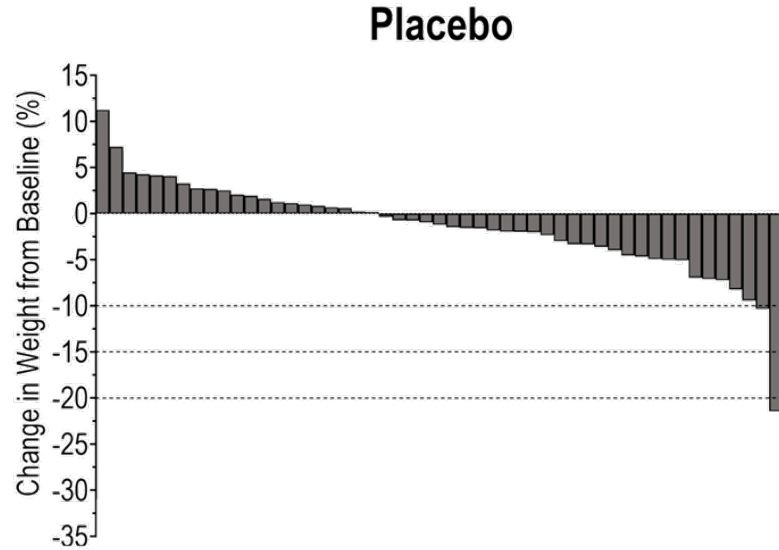
MAJORITY OF SUBJECTS LOST $\geq 15\%$ BODY WEIGHT ON 2.4 MG



** p < 0.005
 *** p < 0.001
 **** p < 0.0001
 vs. placebo
 (CMH)

ROBUST WEIGHT LOSS AT ALL PEMVIDUTIDE DOSES

OVER 30% OF SUBJECTS LOST 20% OR MORE BODY WEIGHT ON 2.4 MG

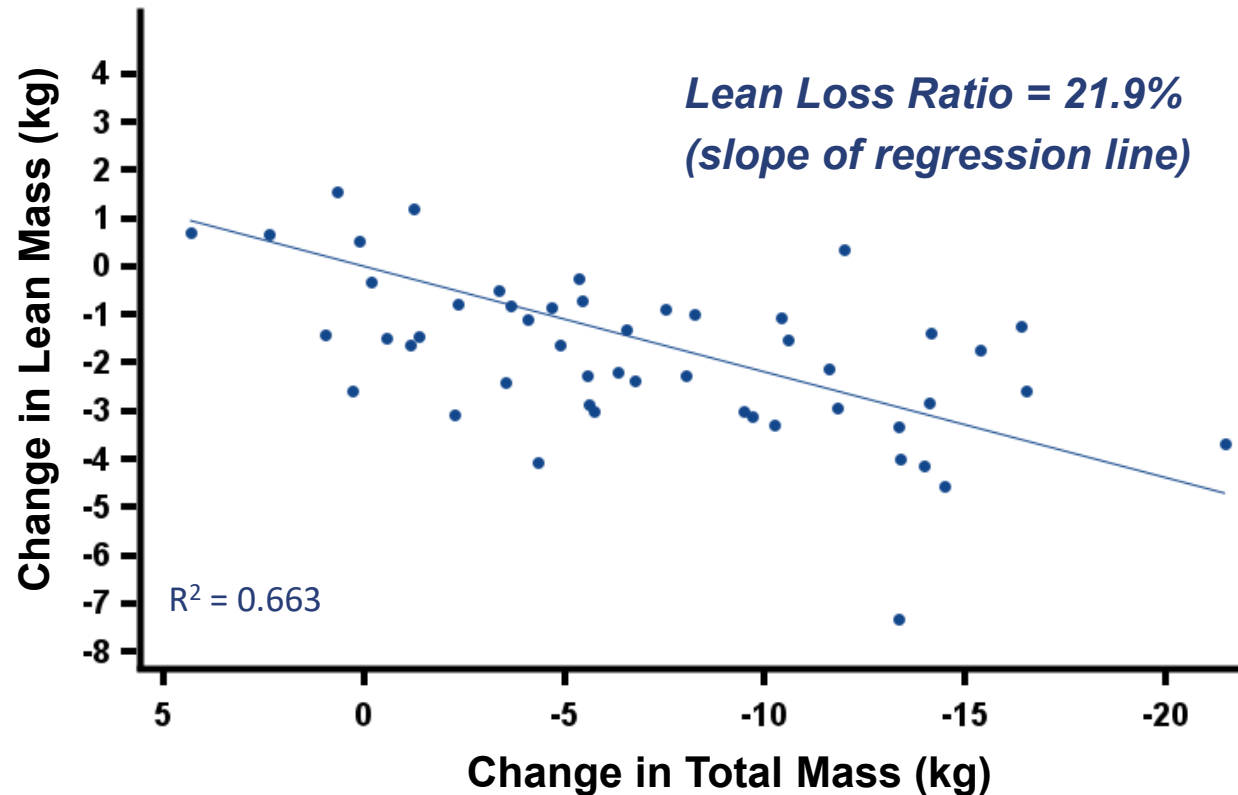


PEMVIDUTIDE – ONLY 21.9% OF WEIGHT LOSS FROM LEAN MASS

MRI-BASED BODY COMPOSITION ANALYSIS SUBSTANTIATES QUALITY OF WEIGHT LOSS WITH PEMVIDUTIDE TREATMENT

LEAN LOSS RATIO

Change in Lean Mass / Change in Total Mass*
Pemvidutide-treated Subjects (n = 50 across all dose groups)



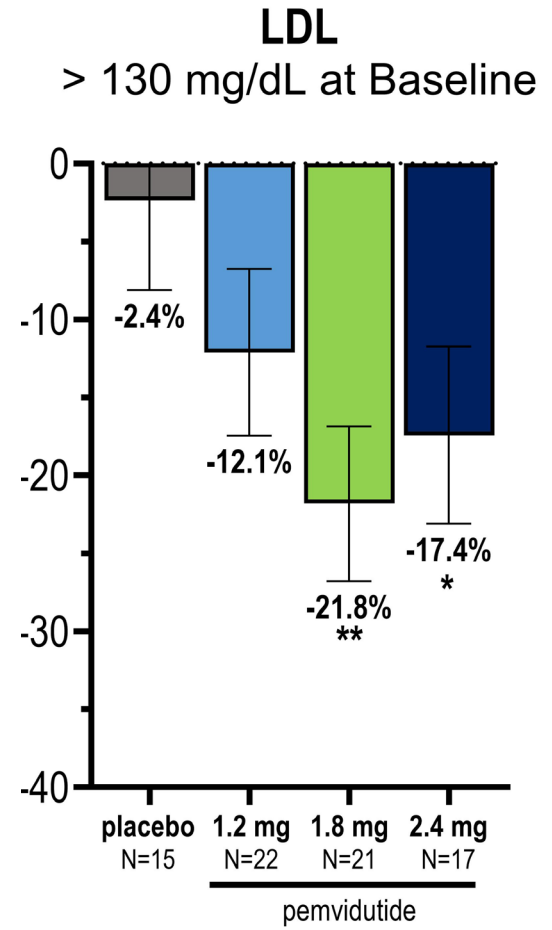
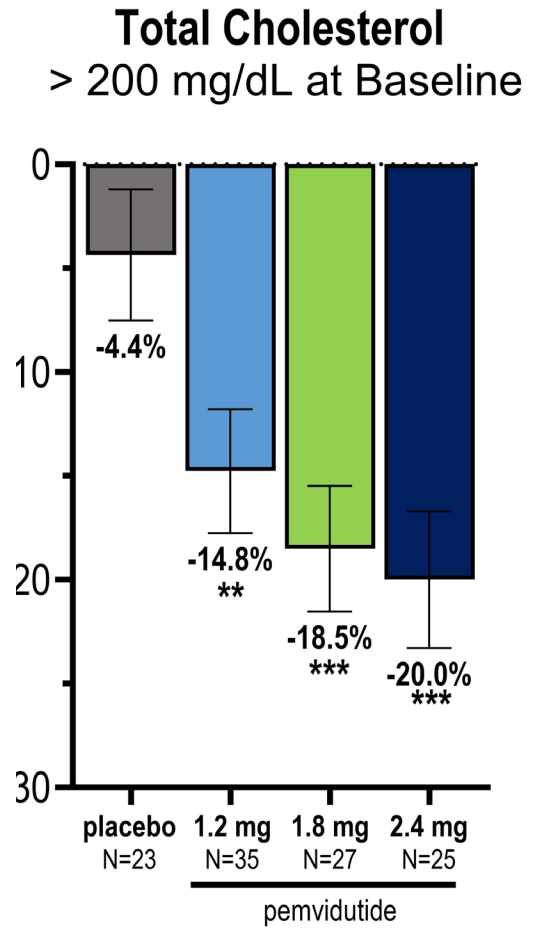
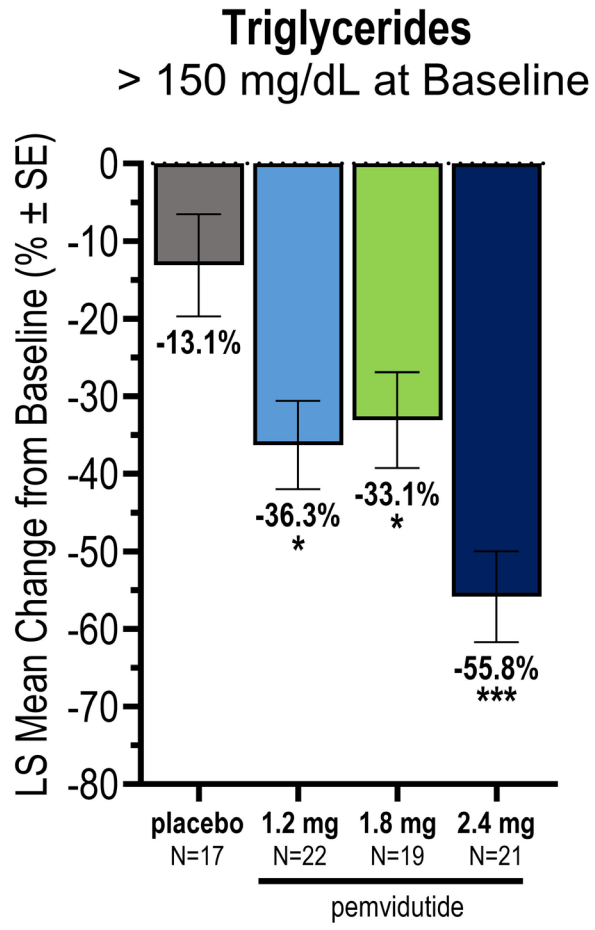
Class Leading Lean Mass Preservation

Drug	Study	Study duration	LBM loss ratio
Pemvidutide	MOMENTUM Phase 2	48 weeks	21.9% ¹
Tirzepatide	SURMOUNT 1 Phase 3	72 weeks	26.0% ²
Retatrutide	Phase 2 obesity study	36 weeks	37.7% ²
Semaglutide	STEP-1 Phase 3	68 weeks	39.9% ³

1. Altimmune, MOMENTUM Trial
2. Harris C, Obesity Week 2023
3. Wilding JPH. N Engl J Med. 2021 Mar 18;384(11):989-1002

*Change in Total Mass = Lean Mass Loss + Adipose Mass Loss

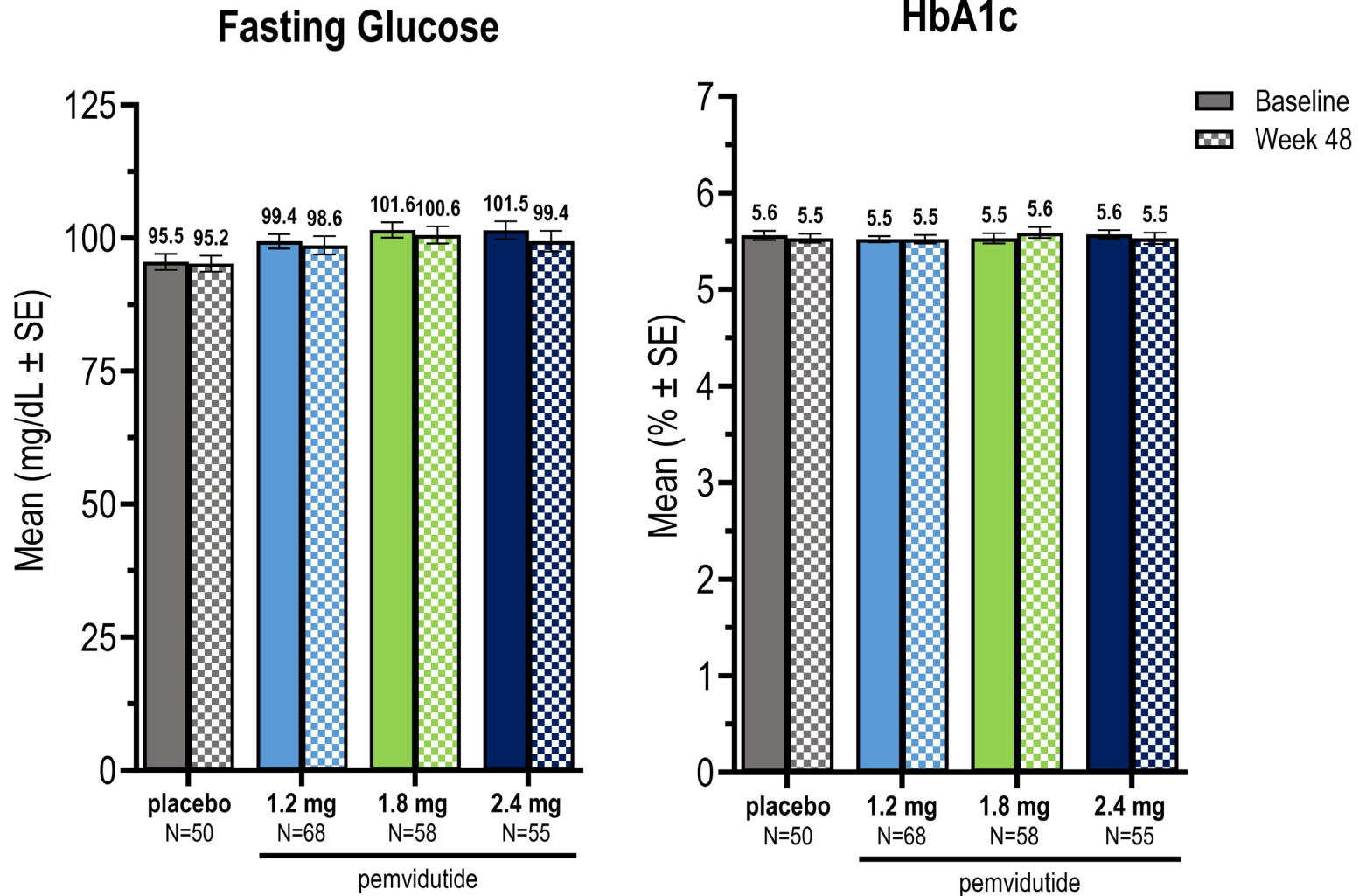
GREATER REDUCTIONS IN TRIGLYCERIDES, TOTAL CHOLESTEROL AND LDL IN SUBJECTS WITH ELEVATED BASELINE LEVELS



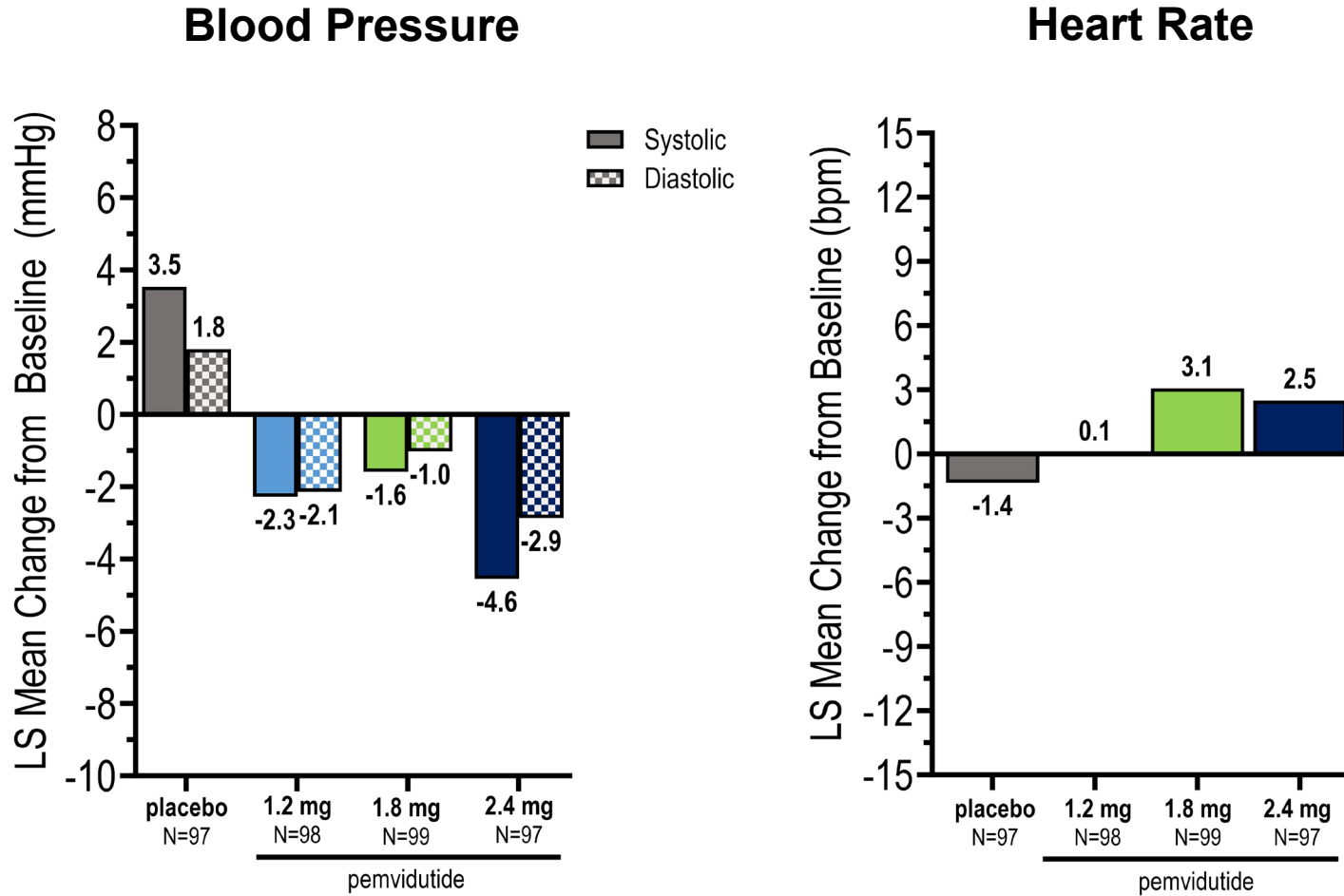
* p < 0.05
 ** p < 0.005
 *** p < 0.001
 vs. placebo
 (ANCOVA)

GLUCOSE HOMEOSTASIS MAINTAINED

NO MEAN CHANGES IN FASTING GLUCOSE OR HbA1c



IMPROVEMENTS IN BLOOD PRESSURE WITHOUT CLINICALLY MEANINGFUL INCREASES IN HEART RATE AT WEEK 48



OVERVIEW OF ADVERSE EVENTS (AES)

Characteristic		Treatment			
		Placebo (N=97)	1.2 mg (N=98)	1.8 mg (N=99)	2.4 mg (N=97)
SAEs related to study drug	N (%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	1 (1.0%)
AEs leading to study drug discontinuation					
All AEs leading to discontinuation	N (%)	6 (6.2%)	5 (5.1%)	19 (19.2%)	19 (19.6%)
Drug-related AEs leading to discontinuation	N (%)	2 (2.1%)	4 (4.1%)	16 (16.2%)	15 (15.5%)
Gastrointestinal (GI) AEs—mainly mild to moderate					
Nausea	N (%)	11 (11.3%)	25 (25.5%)	59 (59.6%)	50 (51.5%)
Vomiting	N (%)	3 (3.1%)	6 (6.1%)	27 (27.3%)	27 (27.8%)
Diarrhea	N (%)	5 (5.2%)	8 (8.2%)	10 (10.1%)	18 (18.6%)
Constipation	N (%)	8 (8.2%)	17 (17.3%)	13 (13.1%)	22 (22.7%)
AEs of Special Interest (AESI)	N (%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)
Major Adverse Cardiac Events (MACE)	N (%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)
Cardiac AEs, including arrhythmias	N (%)	4 (4.1%)	3 (3.1%)	4 (4.0%)	3 (3.1%)

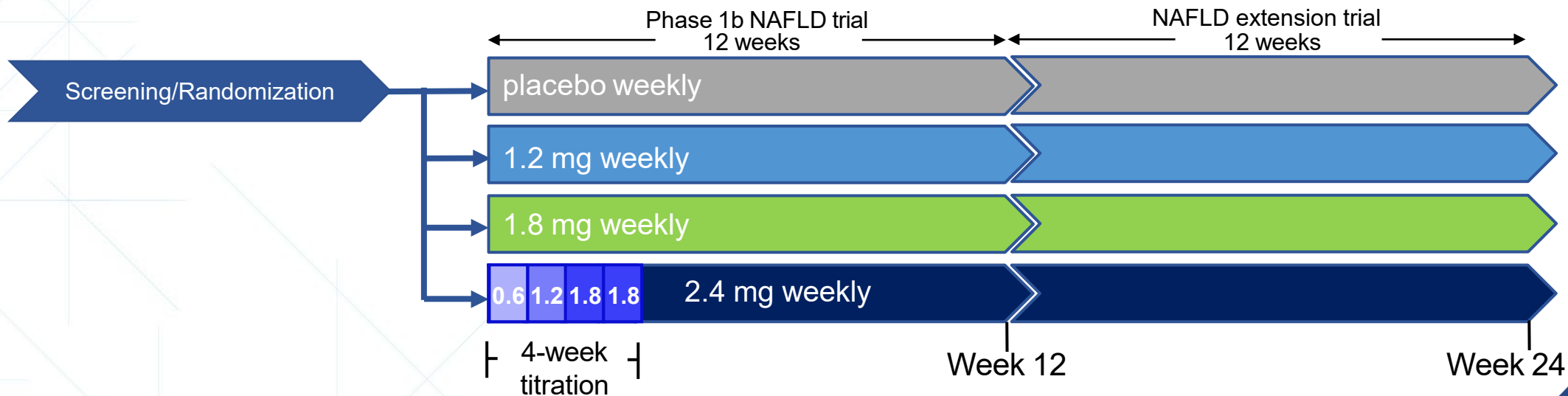
- Only 1 drug-related SAE of vomiting
- No AESI or MACE events
- No imbalances in cardiac AEs across treatment groups



Pemvidutide: *MASH*

PEMVIDUTIDE PHASE 1b NAFLD (MASLD) TRIAL

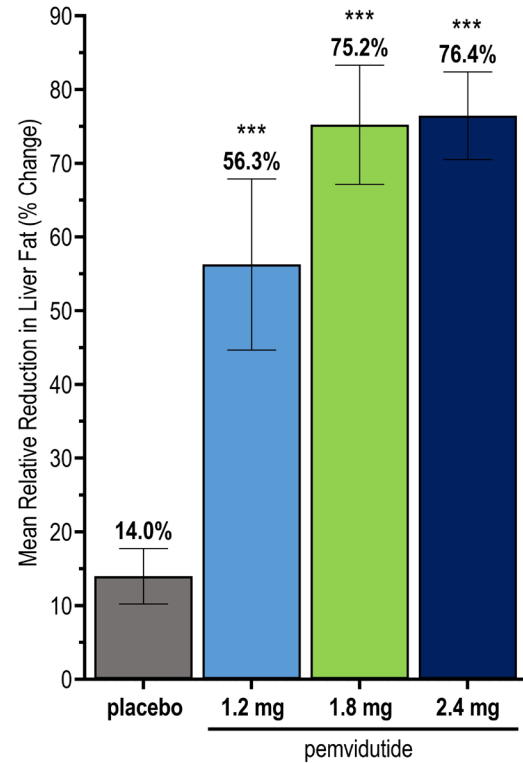
- Randomized, placebo-controlled study of pemvidutide in subjects with overweight/obesity and non-alcoholic fatty liver disease (NAFLD)
 - 12-week base study of 94 subjects randomized 1:1:1:1 to pemvidutide or placebo
 - 12-week extension study offered to subjects that completed 12 weeks of dosing (64 subjects participated in extension study for 24-weeks of total dosing)
 - No caloric restriction or lifestyle intervention
- Key Outcomes
 - Reduction in liver fat content, ALT and corrected T1 (cT1)



ROBUST REDUCTIONS IN LIVER FAT CONTENT

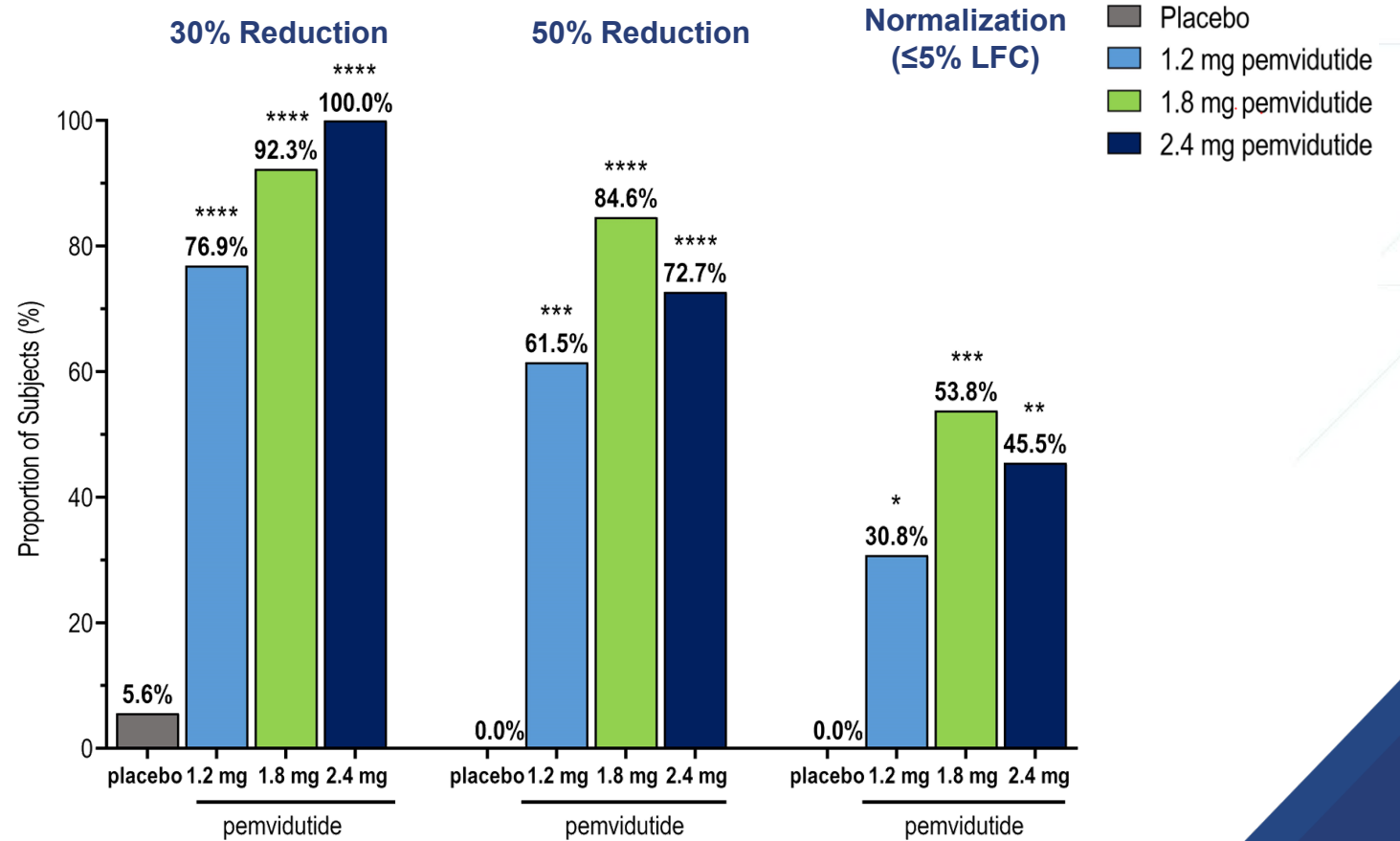
KNOWN TO CORRELATE WITH MASH RESOLUTION AND FIBROSIS IMPROVEMENT

Relative Reduction at Week 24



*** p < 0.001 vs. placebo (ANCOVA)

Responder Analyses at Week 24



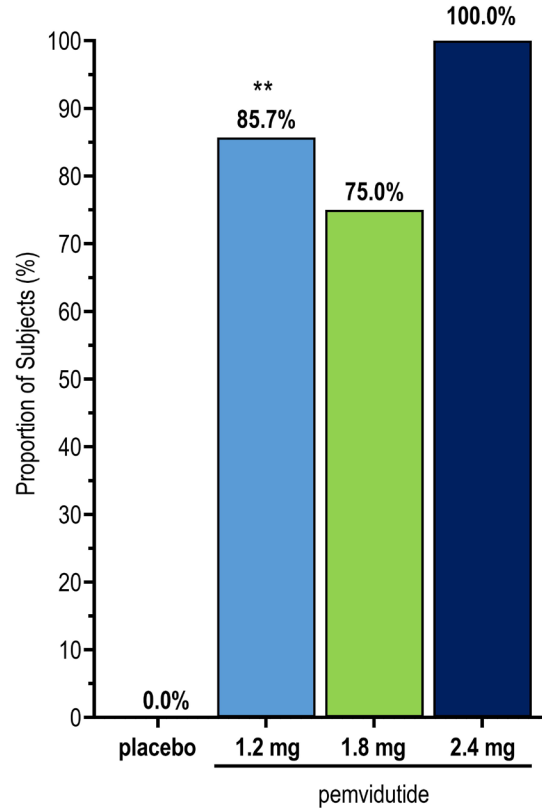
* p < 0.05, ** p < 0.005, *** p < 0.001, **** p < 0.0001 vs. placebo (CMH¹)

¹ Cochran Mantel Haenszel

SIGNIFICANT cT1 RESPONSE RATES AND ALT REDUCTIONS

TWO INDEPENDENT INDICATORS OF REDUCED LIVER INFLAMMATION

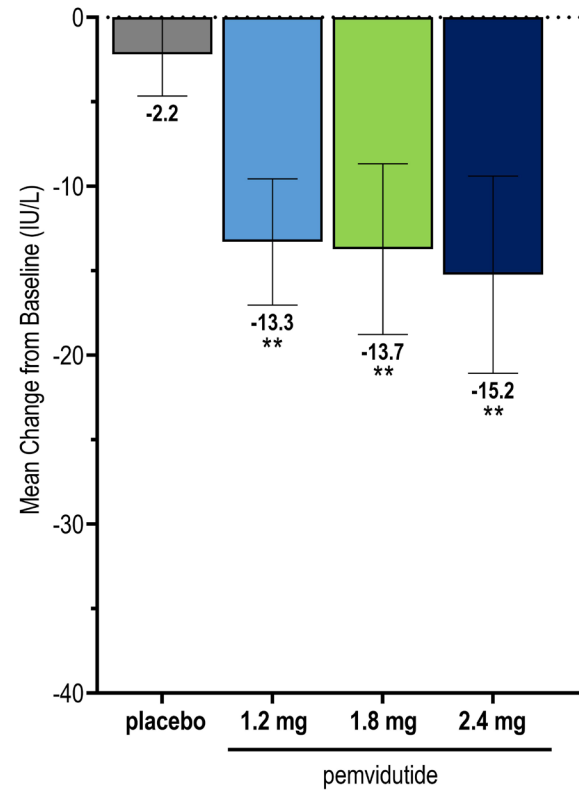
cT1 Responder Rates¹ at Week 24



* p < 0.05, ** p < 0.005 vs. placebo (Fisher's Exact Test)

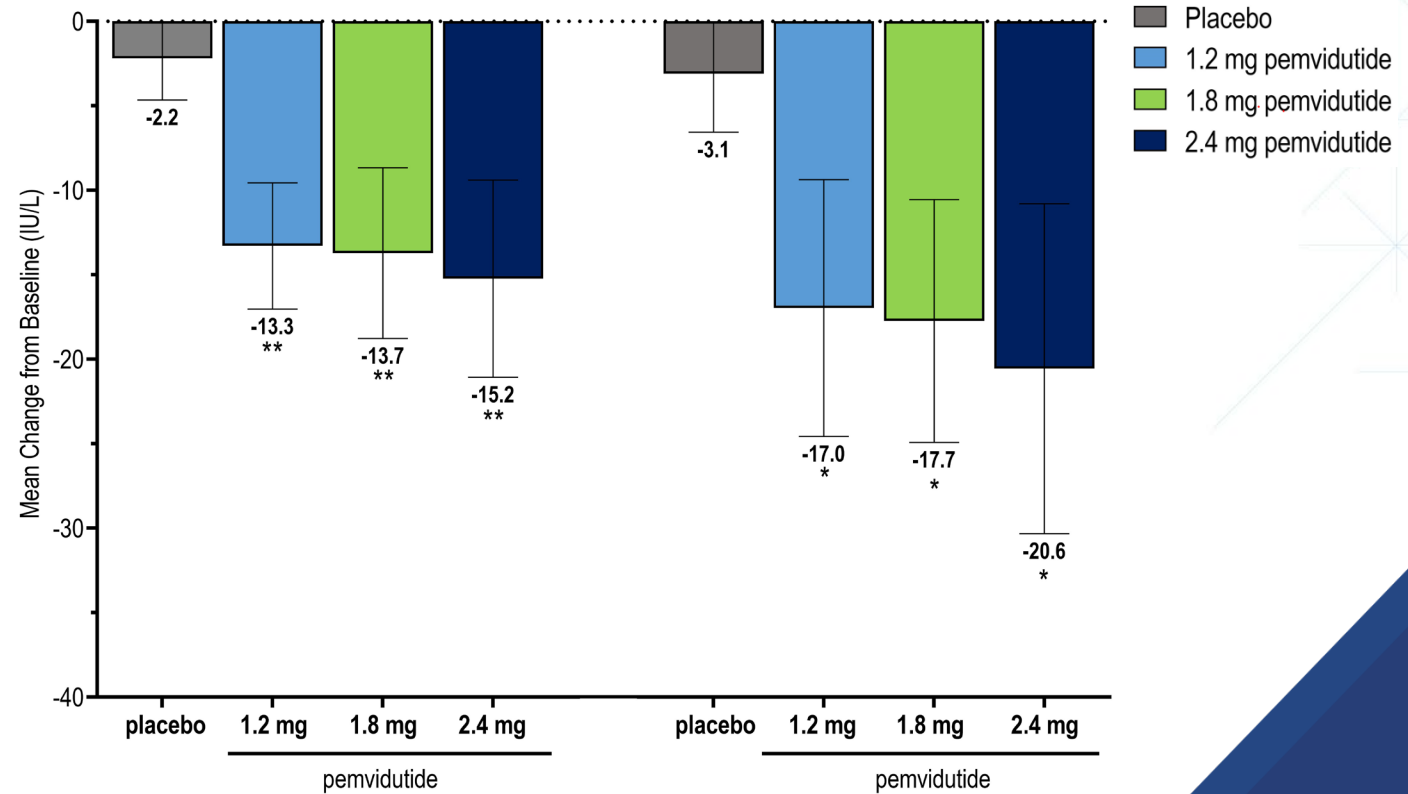
80ms reduction in cT1 has been associated with a 2-point reduction of MASH Activity Score (MAS)²

All Subjects



* p < 0.05, ** p < 0.005 vs. placebo

Subjects w/ Baseline ALT ≥ 30IU/L



* p < 0.05, ** p < 0.005 vs. placebo

IMPACT PHASE 2b MASH TRIAL DESIGN

- Biopsy-driven, randomized placebo-controlled trial at approximately 60 U.S. sites
- Approximately 190 subjects with F2 and F3 fibrosis, with and without diabetes
- Subjects randomized 1:2:2 to 1.2 mg pemvidutide, 1.8 mg pemvidutide, or placebo
- Dual endpoints of either MASH resolution or fibrosis improvement at 24 weeks
- Subjects followed for additional 24 weeks to a total of 48 weeks for assessment of safety and additional biomarker responses
- Top-line data expected in Q2 2025

PEMVIDUTIDE

HIGHLY DIFFERENTIATED THERAPEUTIC FOR BOTH OBESITY AND MASH



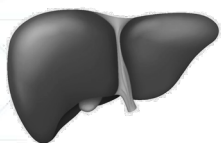
WEIGHT LOSS

- Robust mean weight loss of 15.6% on pemvidutide 2.4 mg at Week 48
- Over 30% of subjects lost $\geq 20\%$ body weight on 2.4 mg at Week 48
- Continued linear weight loss trajectory on 2.4 mg at Week 48
- 78% of weight loss was from fat with only 22% from lean mass



LIPIDS AND CARDIOVASCULAR EFFECTS

- Substantial reductions in total cholesterol, LDL, triglycerides
- Clinically meaningful reductions in blood pressure



REDUCTION IN LIVER FAT, LIVER INFLAMMATION & LIVER FIBROSIS

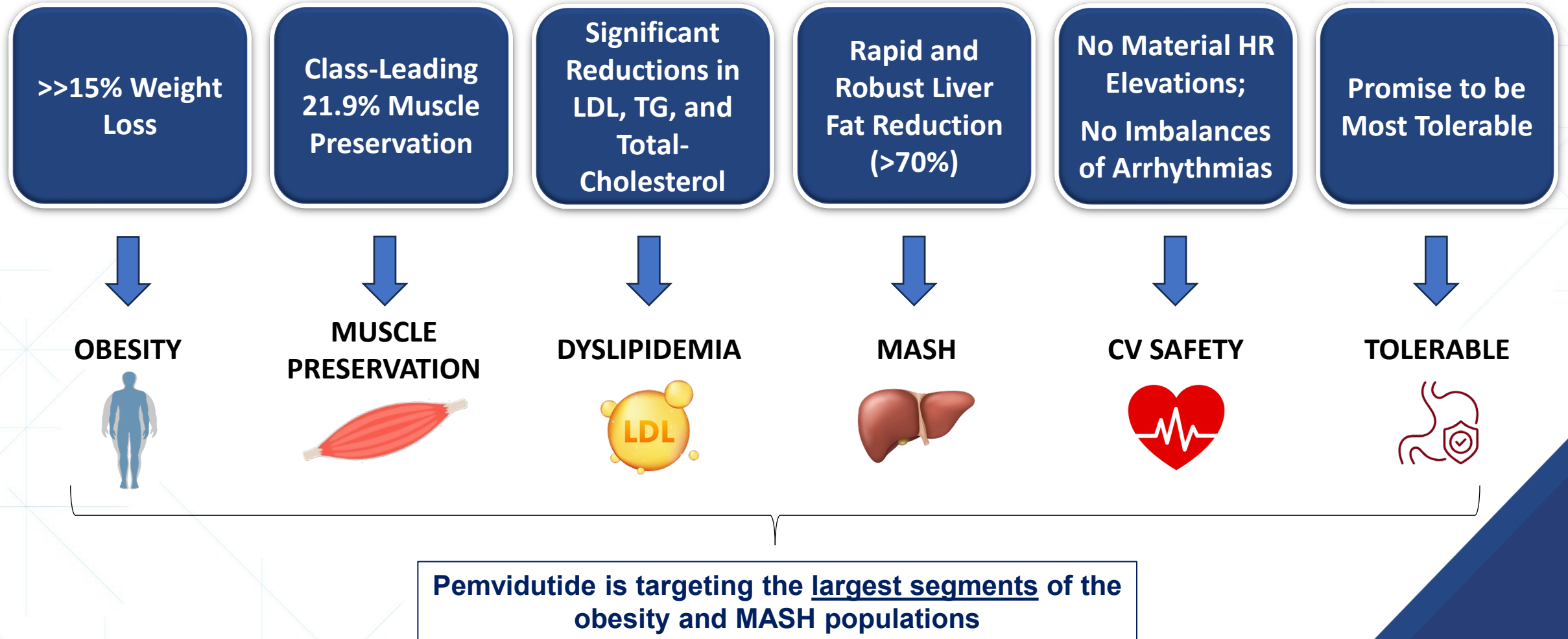
- Class leading rapid and robust liver fat reduction of 75% at 24 weeks
- ~50% liver fat normalization by Week 24
- cT1 response observed in $>80\%$ subjects by Week 12



SAFETY

- Gastrointestinal adverse event rates similar to other incretin agents
- No imbalance of cardiac AEs, including arrhythmias
- No meaningful increases in heart rate

PEMVIDUTIDE TARGET PROFILE



SUMMARY OF UPCOMING CATALYSTS

1

Enrollment
completed in
Phase 2b
IMPACT MASH trial
Q3 2024

2

End of Phase 2
FDA Meeting on
MOMENTUM
obesity trial
in November 2024

3

Top line data for
Phase 2b IMPACT
MASH trial
in Q2 2025



THANK YOU
