

ALTIMMUNE, INC. CORPORATE PRESENTATION

March 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



\$198M cash, cash equivalents and short-term investments at 12/31/2023

STRONG MANAGEMENT TEAM



Vipin K. Garg, PhD
President & CEO



Richard Eisenstadt, MBA
Chief Financial Officer



Scott Harris, MD
Chief Medical Officer



Scot Roberts, PhD
Chief Scientific Officer



Bertrand Georges, PhD
Chief Technology Officer

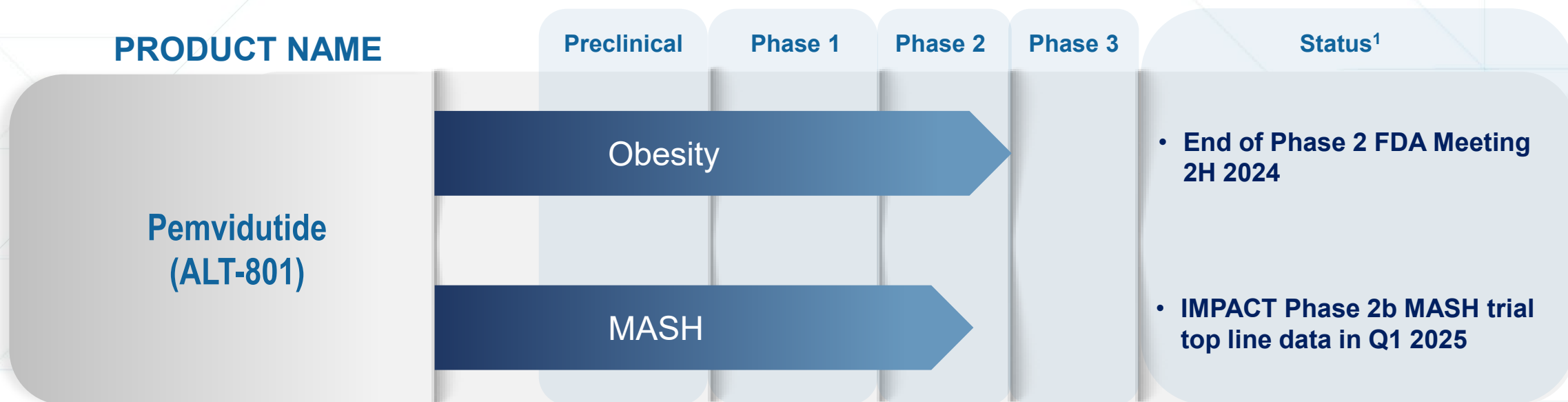


Raymond Jordt, MBA
Chief Business Officer



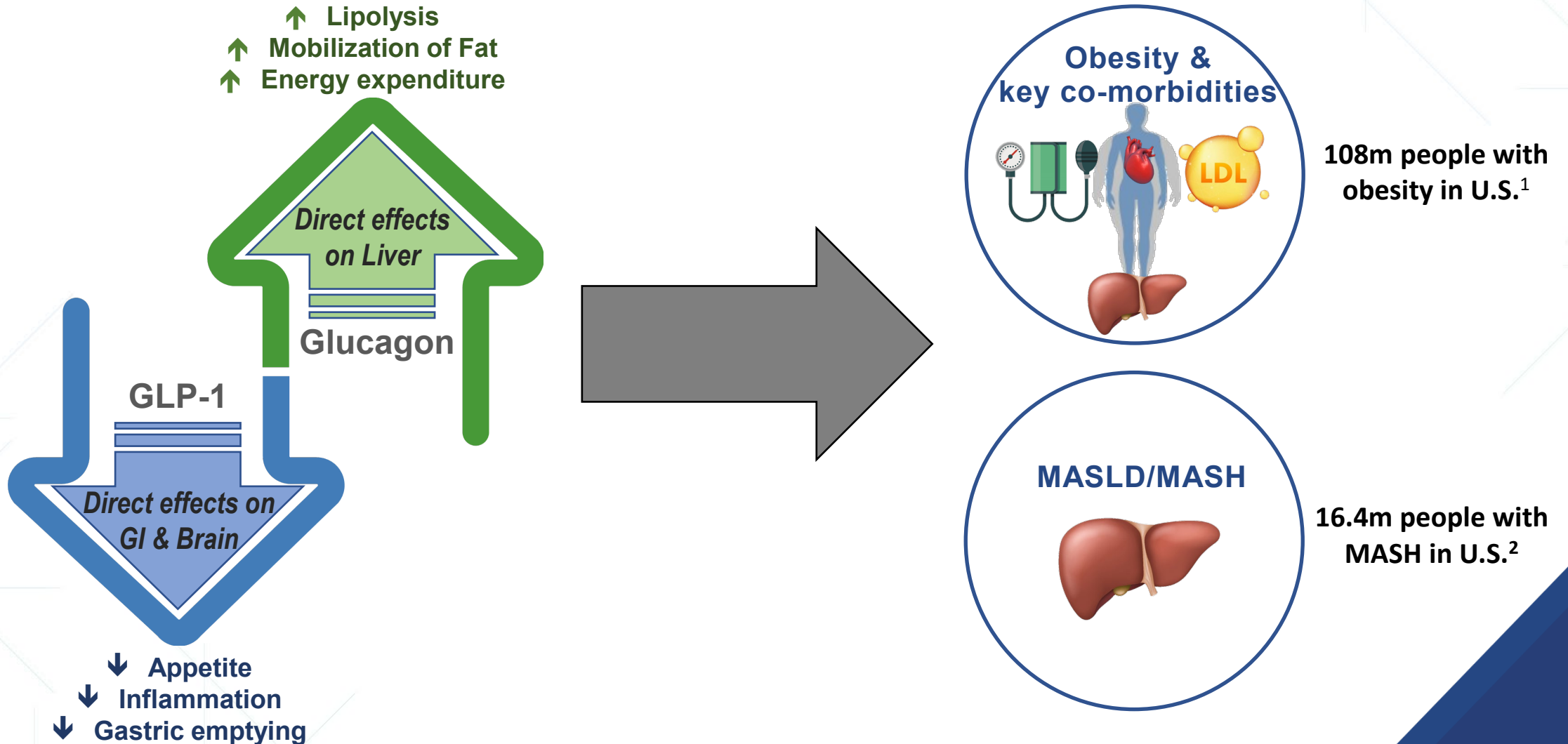
FOCUSED PIPELINE

PEPTIDE-BASED THERAPEUTICS TARGETING OBESITY AND MASH

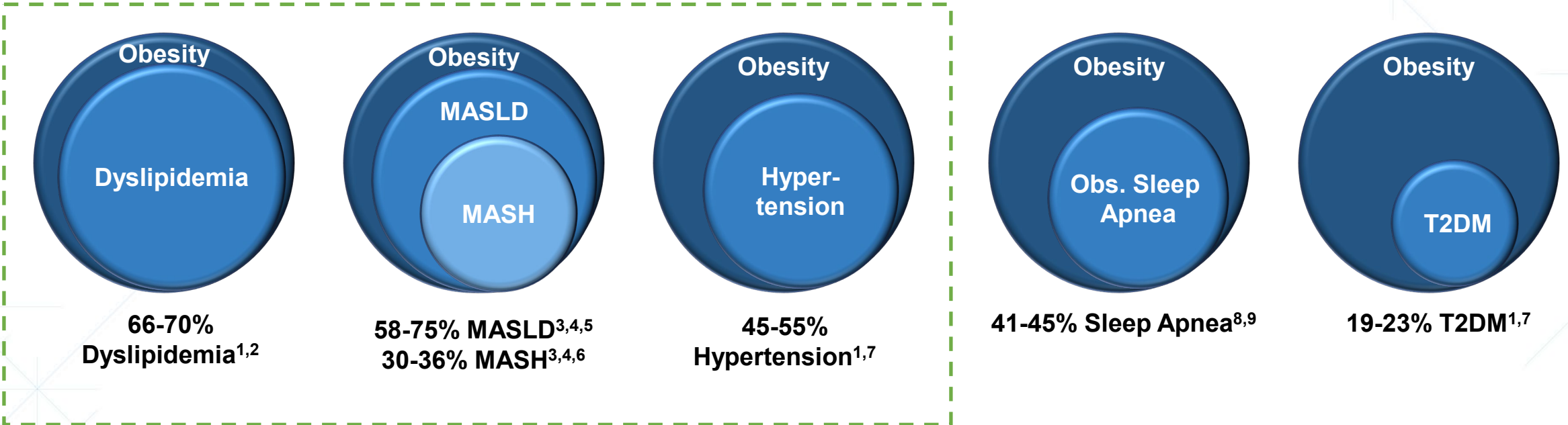


¹ Expected Dates

PEMVIDUTIDE MOA IS OPTIMIZED FOR OBESITY AND MASLD/MASH



US PREVALENCE AND SIGNIFICANCE OF OBESITY COMORBIDITIES



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

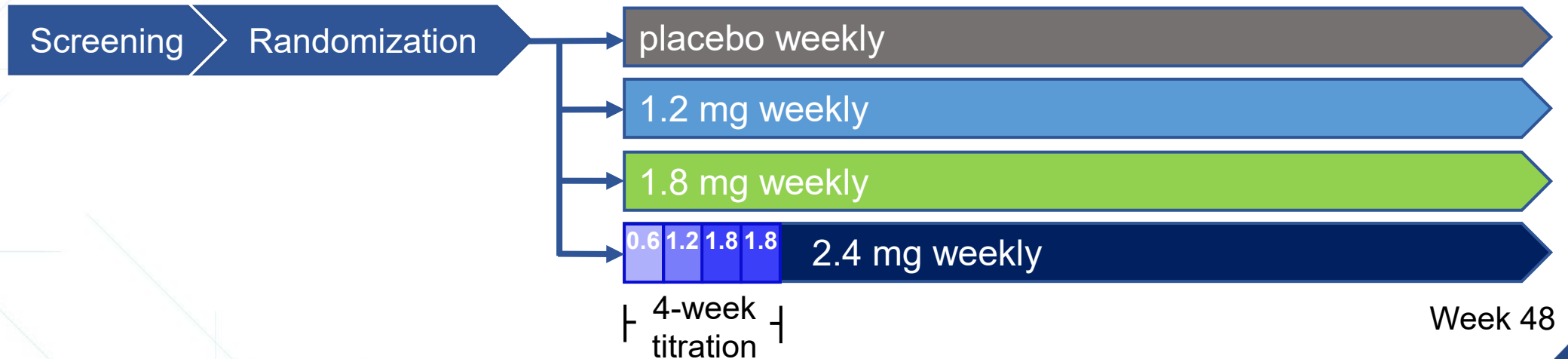
- 1) Bays, Harold, et. al. (2013) Obesity, adiposity, and dyslipidemia: A consensus statement from the National Lipid Association. Journal of Clinical Lipidology 7(4):304–383.
- 2) Lim Y, Boster J. Obesity and Comorbid Conditions. [Updated 2023 Feb 8]. In: StatPearls [Internet]. Treasure Island (FL): 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*

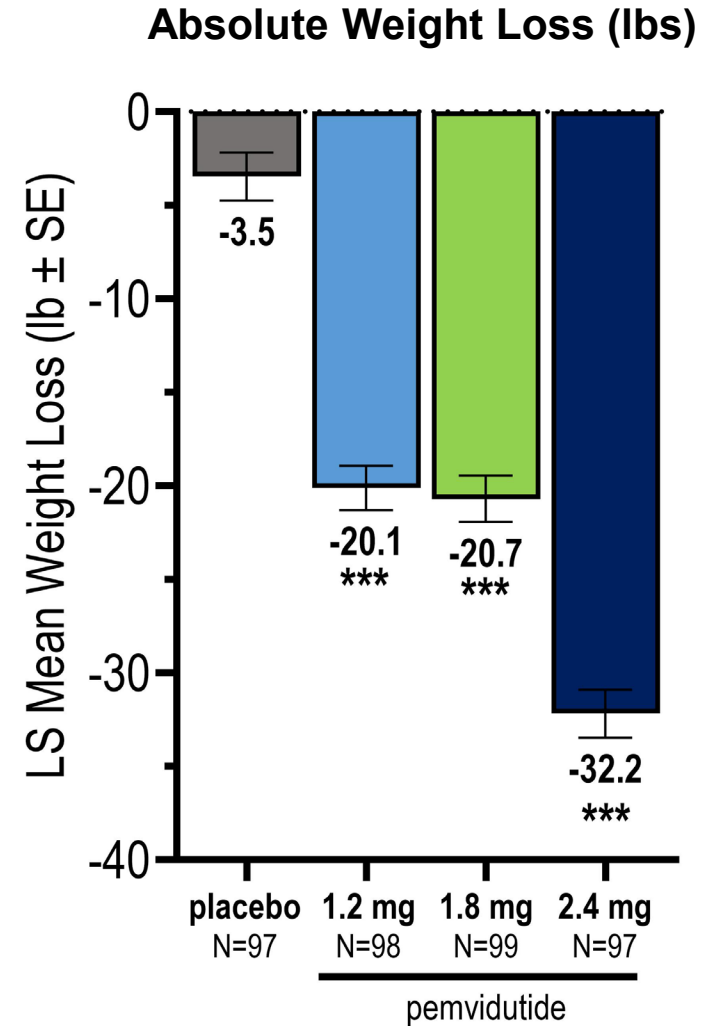
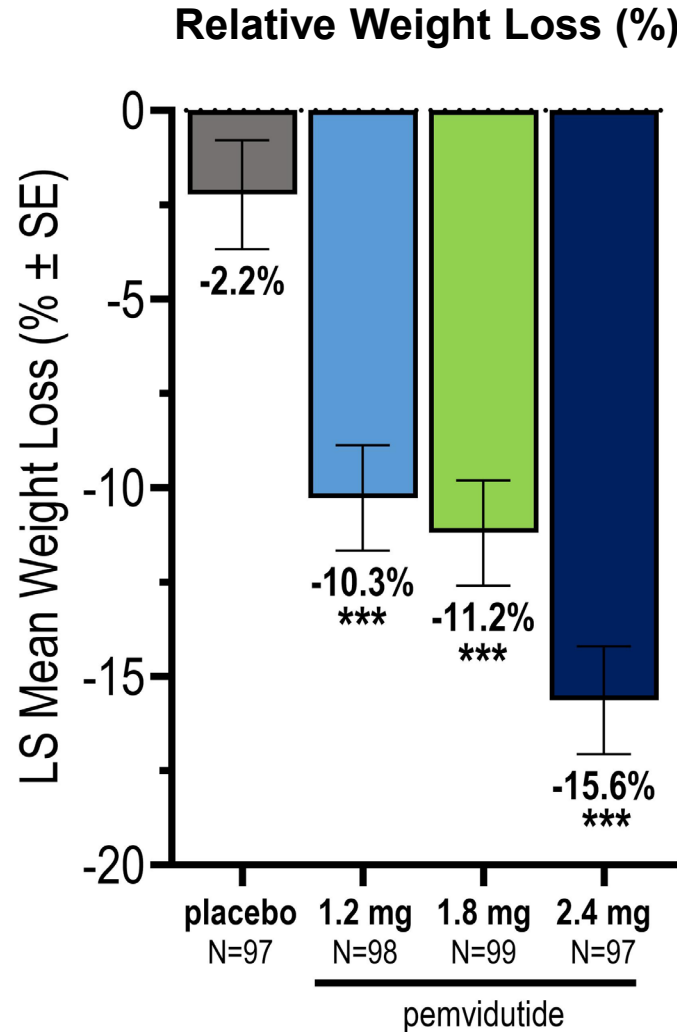
MOMENTUM OBESITY TRIAL DESIGN

- 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

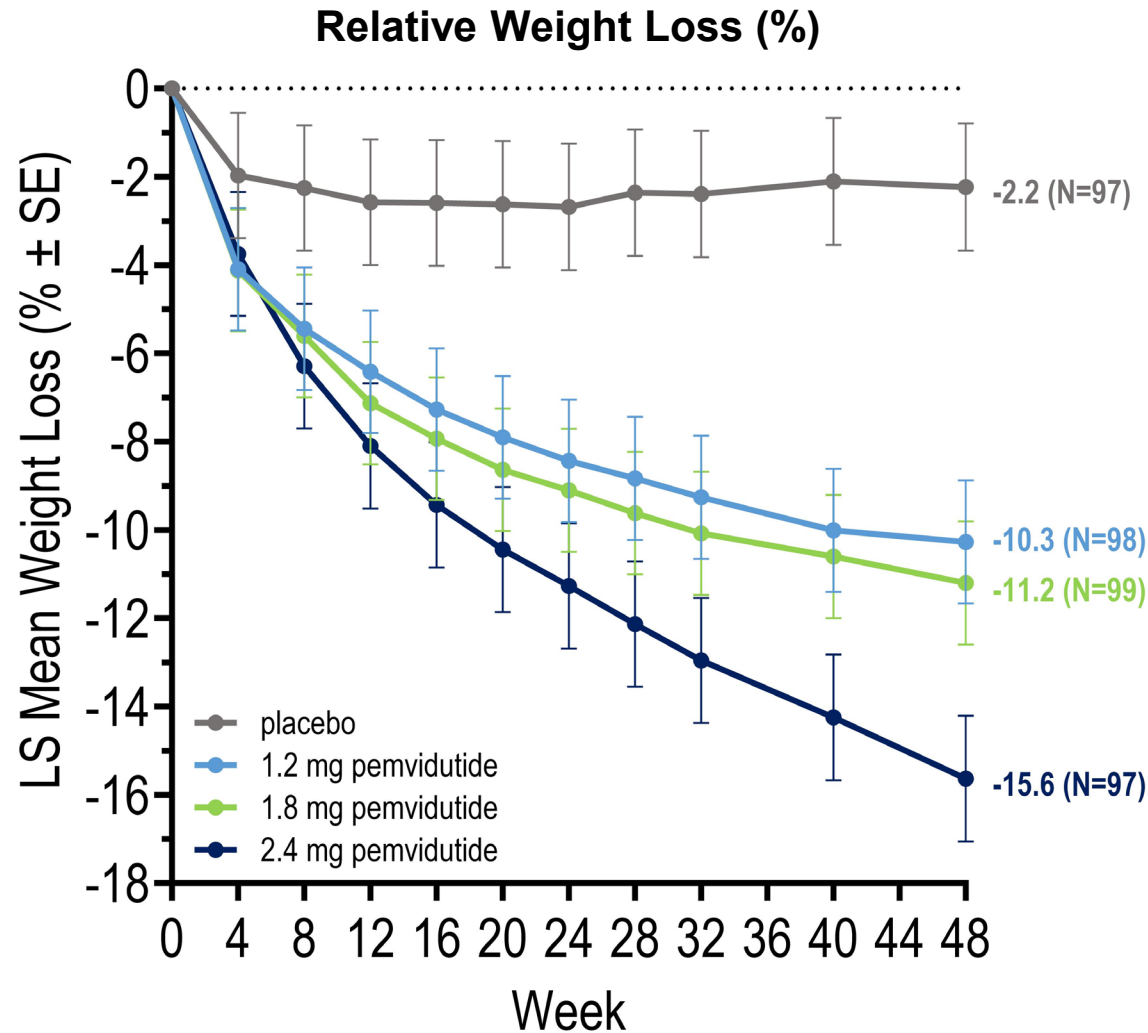


WEIGHT LOSS OF 15.6% ACHIEVED AT WEEK 48 ON 2.4 MG

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

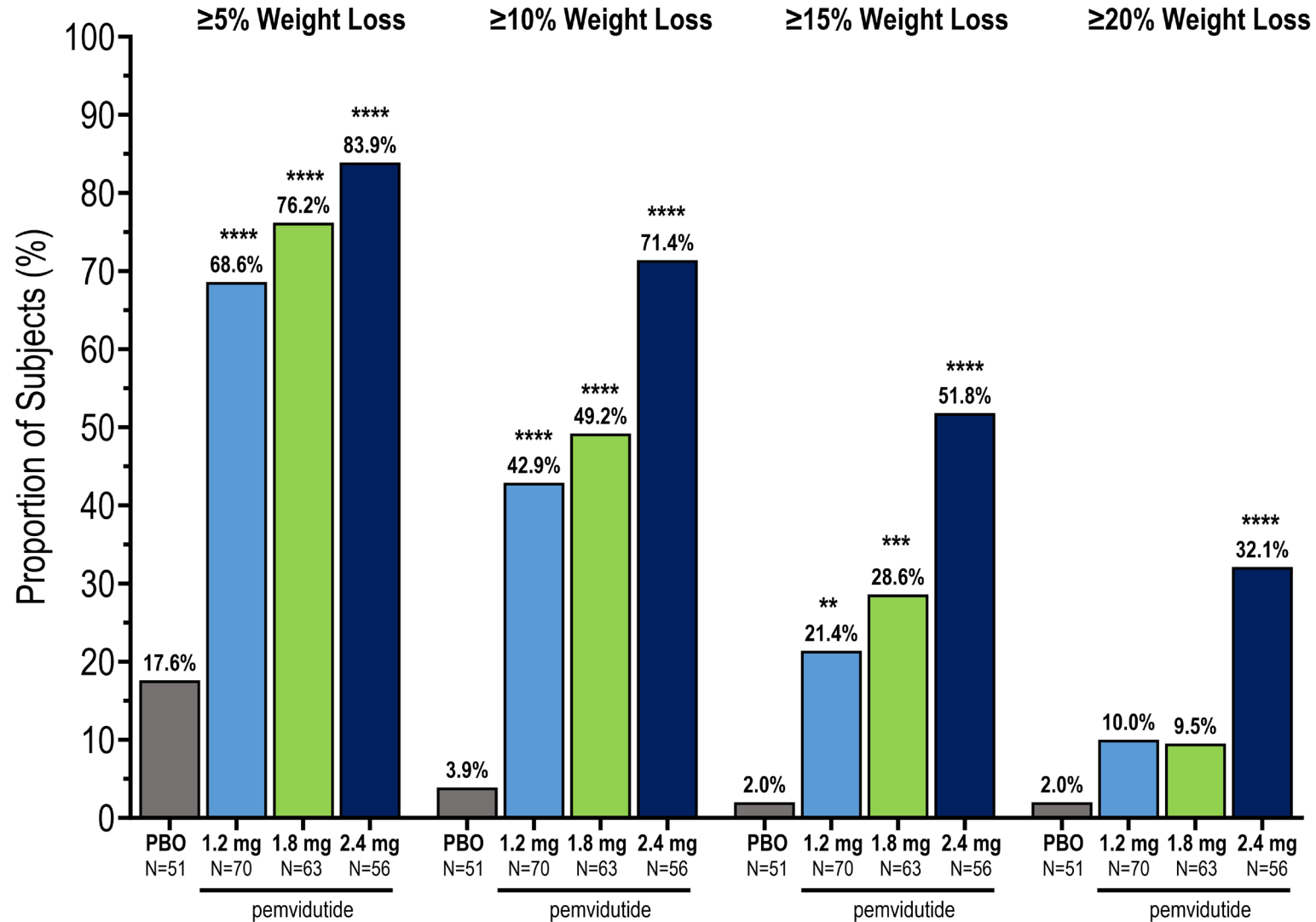


WEIGHT LOSS CONTINUING AT WEEK 48



- 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

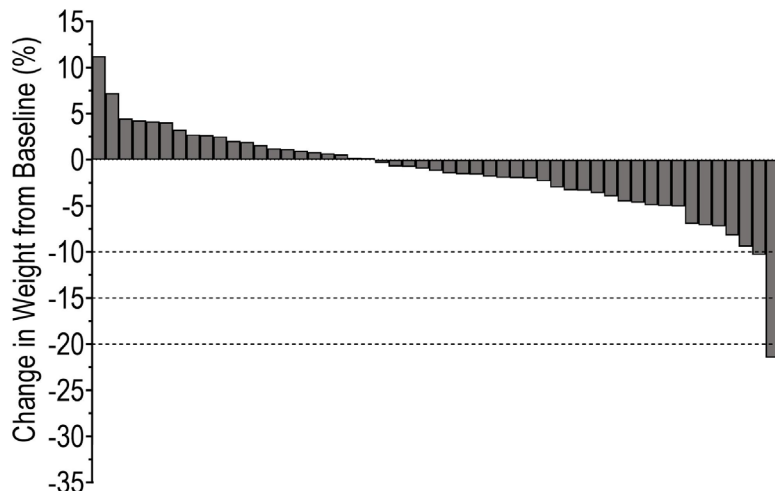
MAJORITY OF SUBJECTS LOST $\geq 15\%$ BODY WEIGHT ON 2.4 MG



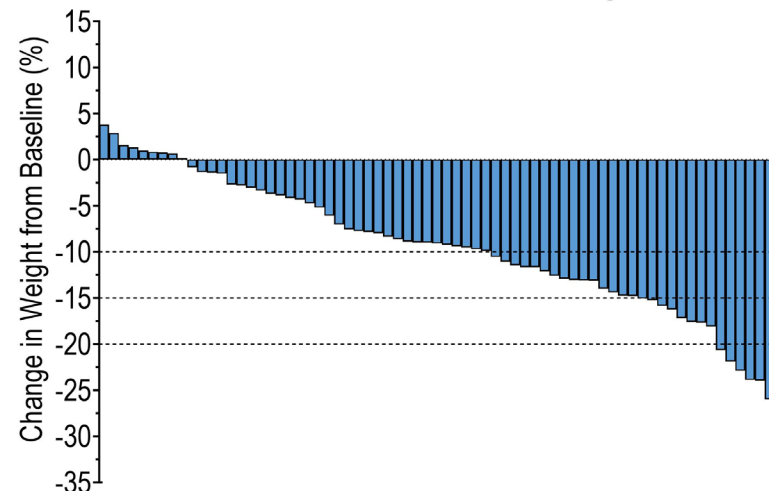
ROBUST WEIGHT LOSS AT ALL PEMVIDUTIDE DOSES

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

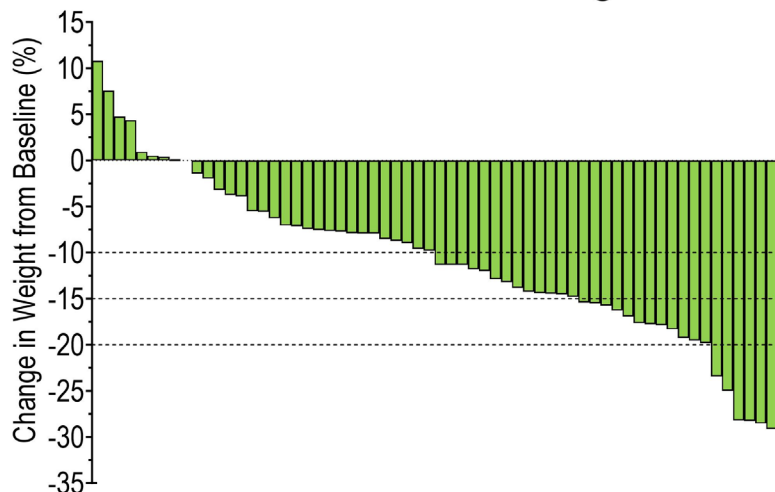
Placebo



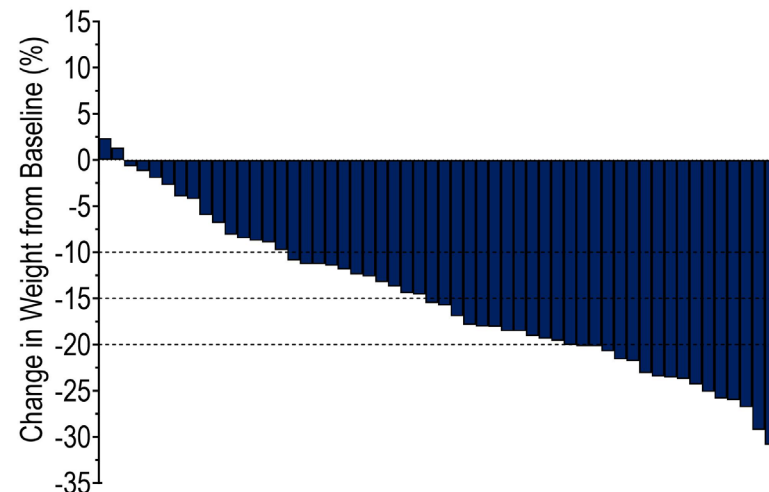
Pemvidutide 1.2 mg



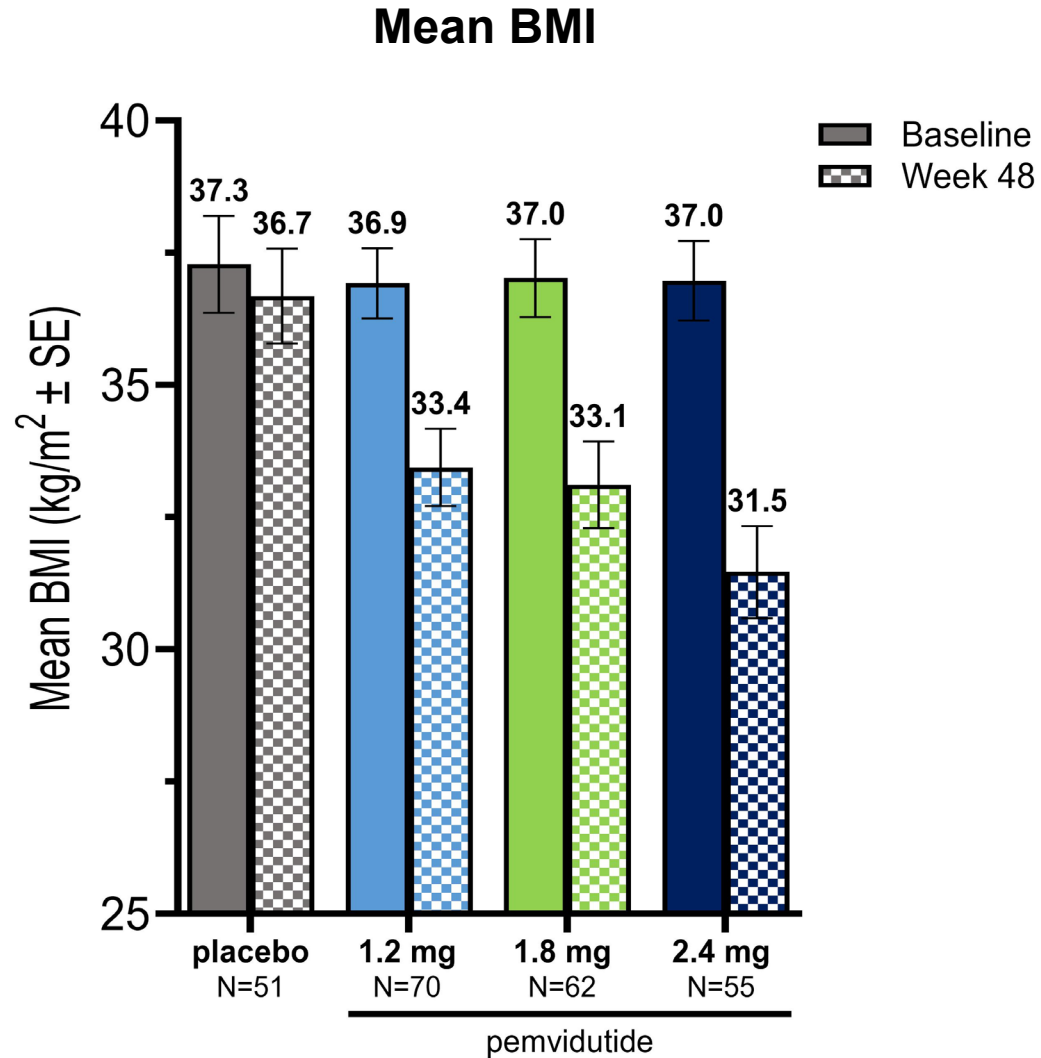
Pemvidutide 1.8 mg



Pemvidutide 2.4 mg



SIGNIFICANT REDUCTIONS IN BMI AT WEEK 48

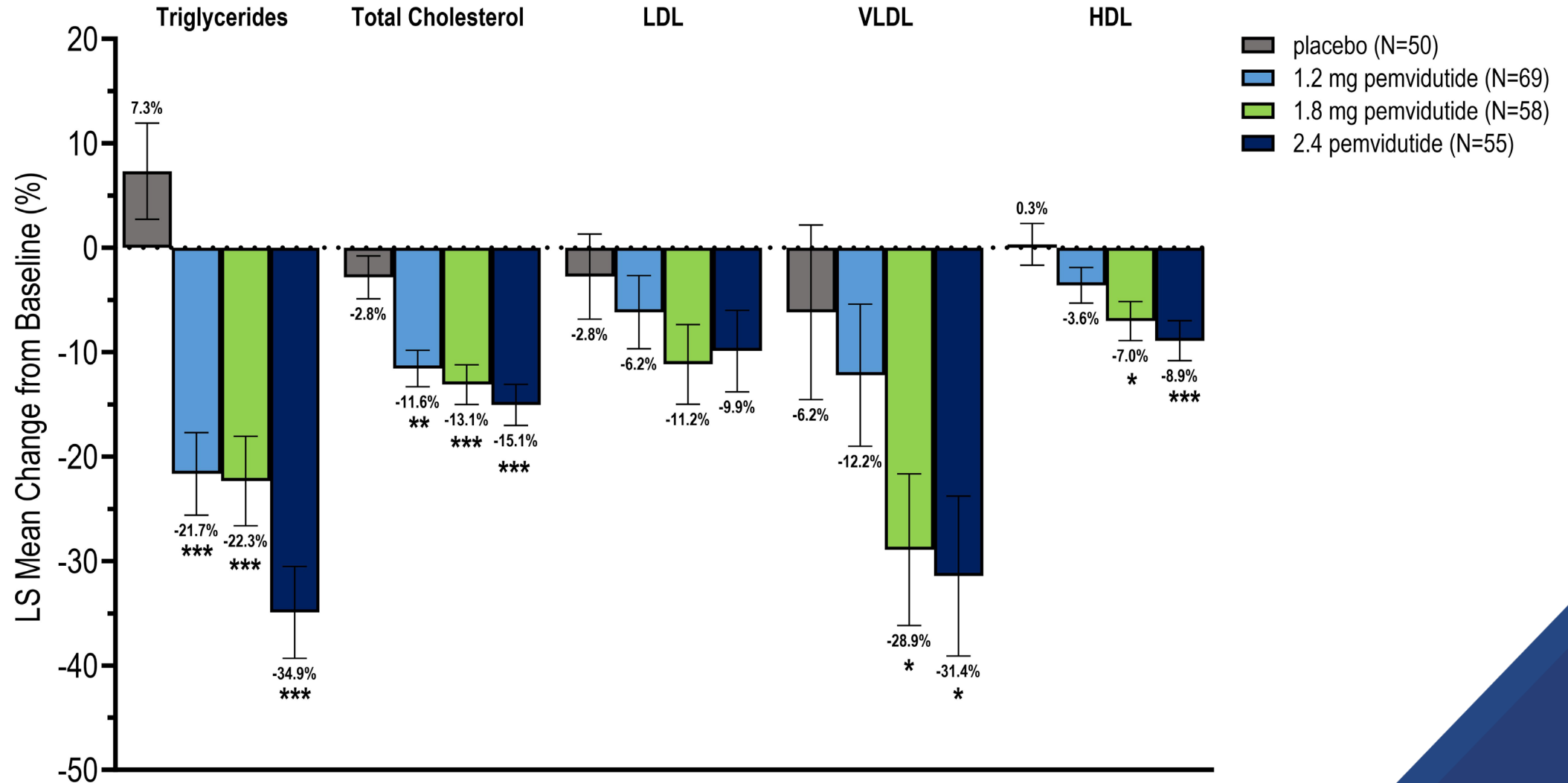


BMI Classes

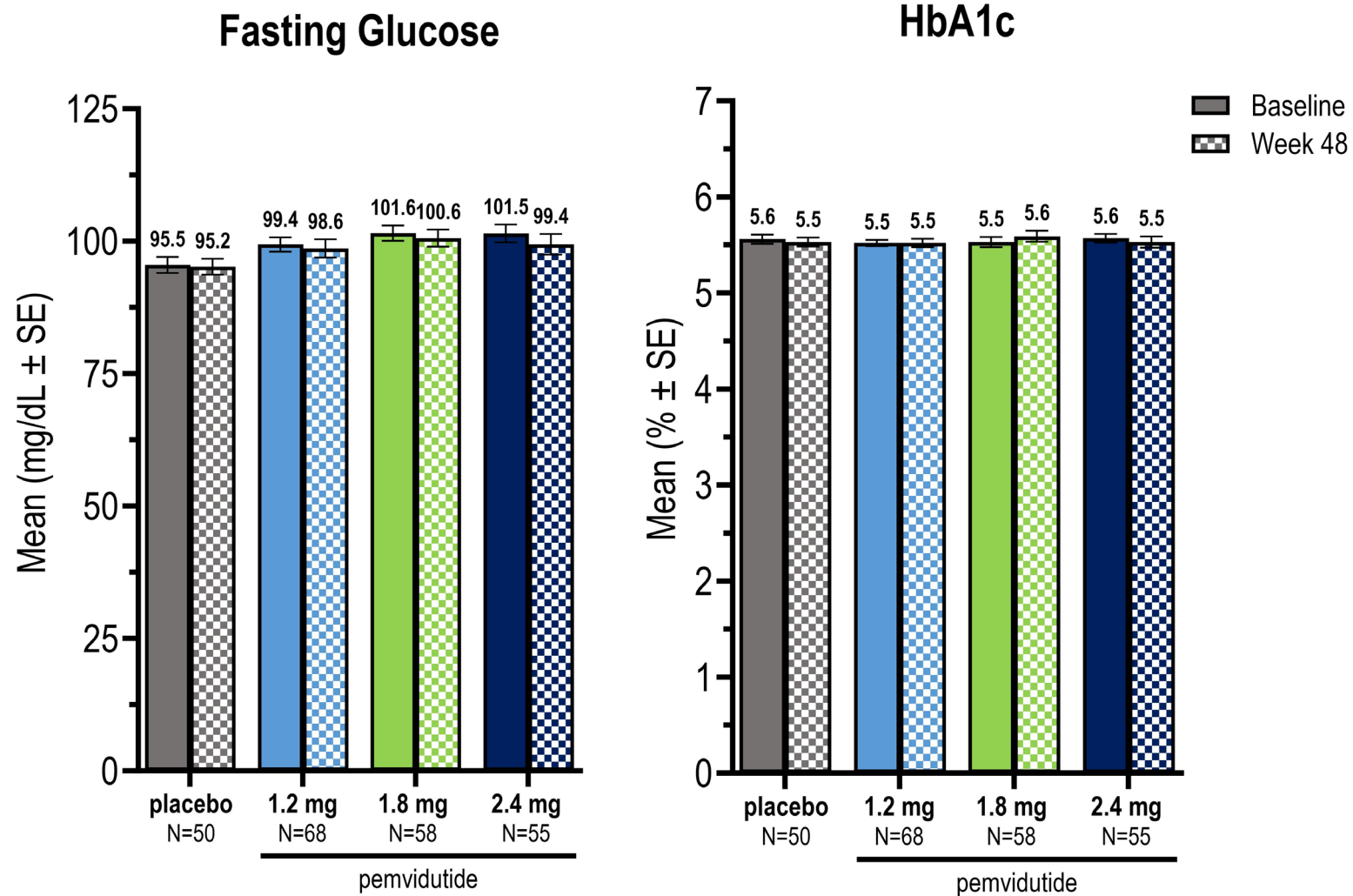
Normal	Over-weight	Obesity Class 1	Obesity Class 2	Obesity Class 3
<25	25-30	30-35	35-40	> 40

- 49% of subjects on 2.4 mg realized a 1-class reduction in BMI
- 29% of subjects on 2.4 mg realized a 2-class reduction in BMI
- 48% of subjects on 2.4 mg with baseline obesity no longer had obesity at the end of treatment

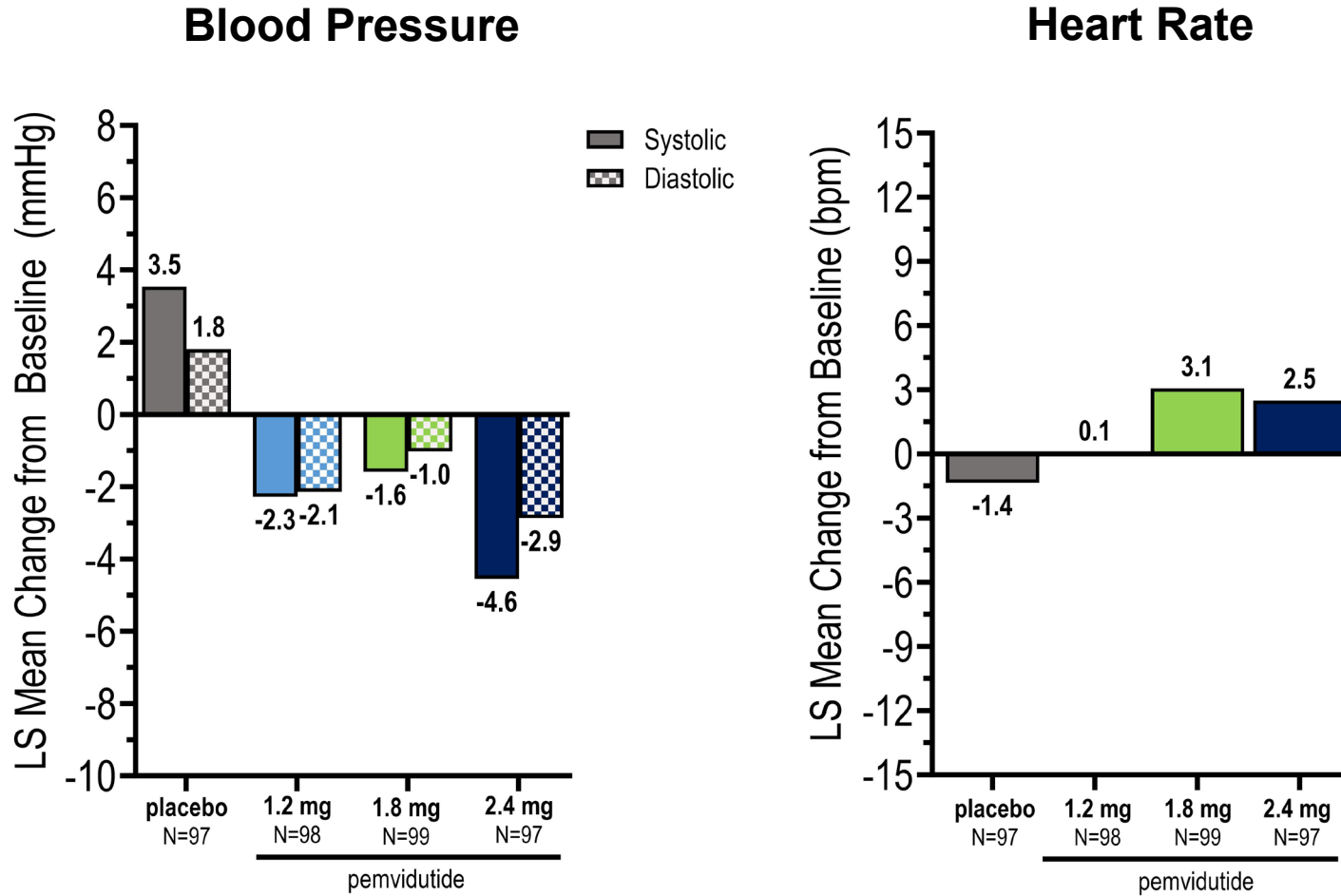
ROBUST REDUCTIONS IN SERUM LIPIDS AT WEEK 48



GLUCOSE HOMEOSTASIS MAINTAINED



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%)

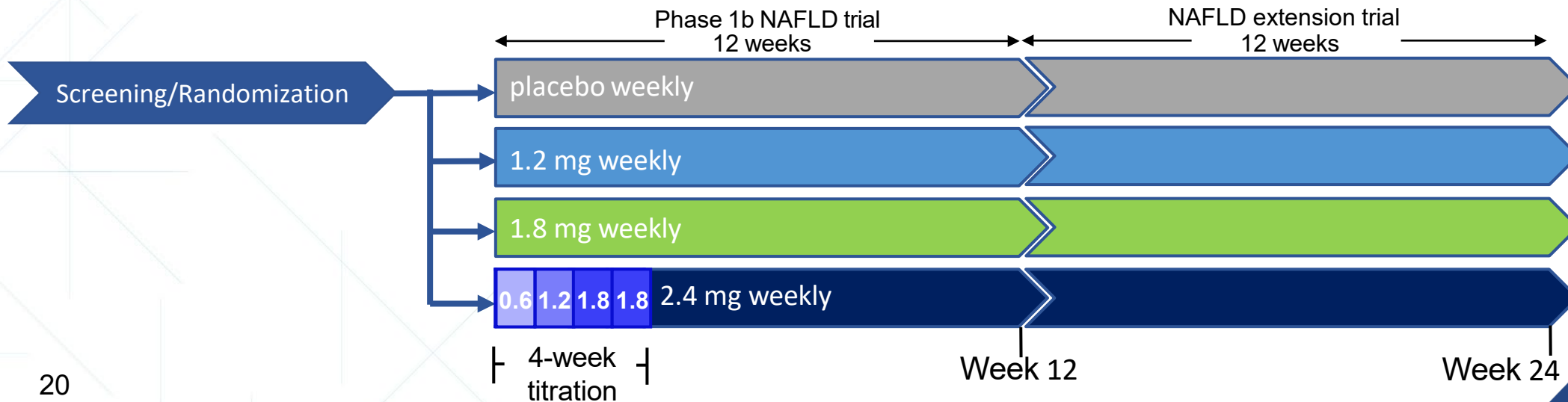
- Only 1 drug-related SAE of vomiting
- No AESI or MACE events
- No imbalances in cardiac AEs across treatment groups



Pemvidutide: *MASH*

PEMVIDUTIDE PHASE 1b NAFLD (MASLD) TRIAL

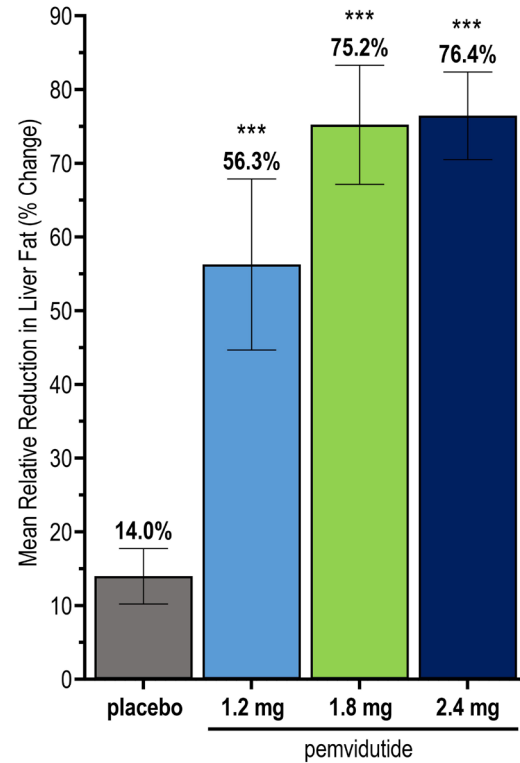
- Randomized, placebo-controlled study of pemvidutide in subjects with overweight/obesity and non-alcoholic fatty liver disease (NAFLD)
 - 12-week base study of 94 subjects randomized 1:1:1:1 to pemvidutide or placebo
 - 12-week extension study offered to subjects that completed 12 weeks of dosing (64 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

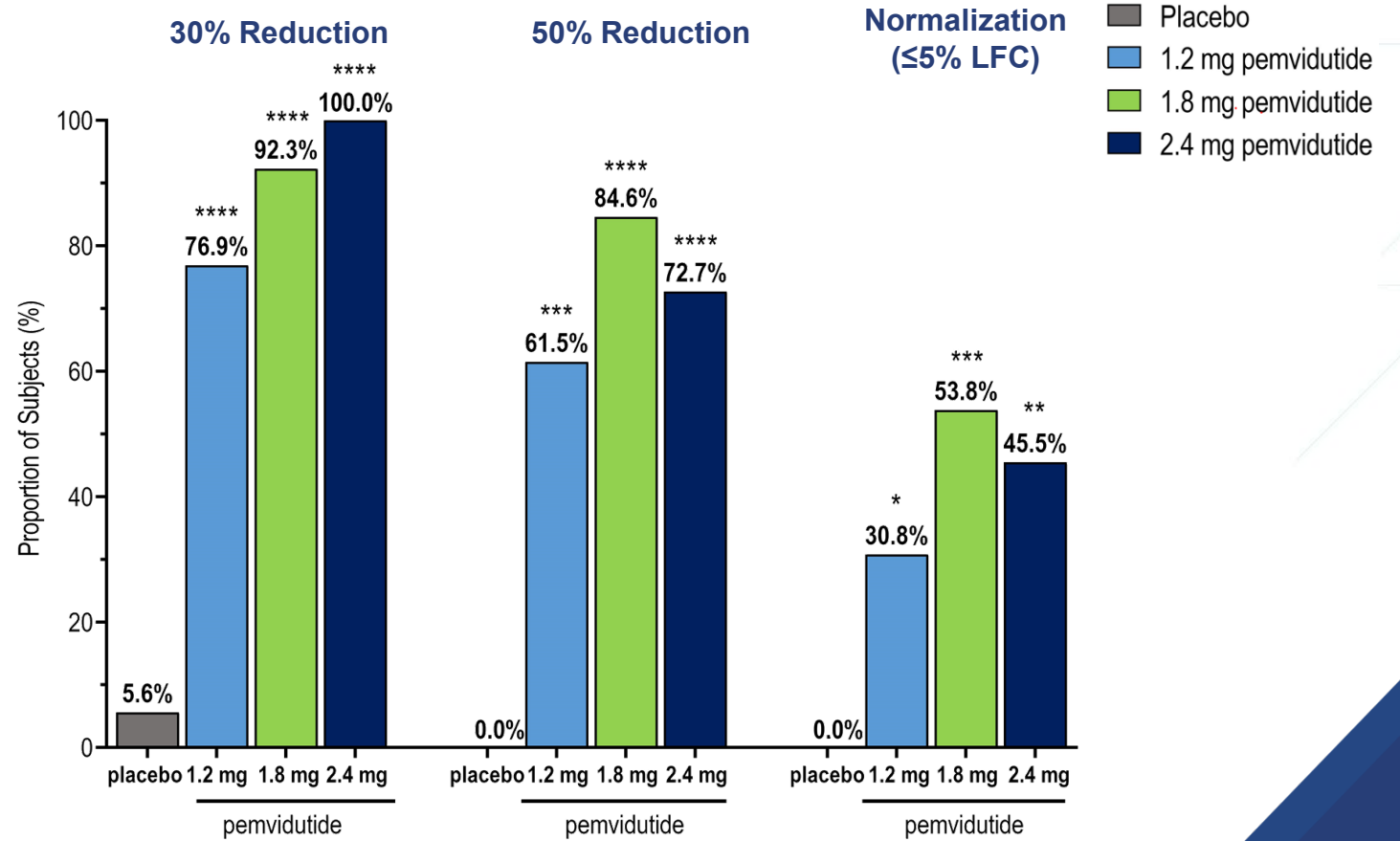
KNOWN TO CORRELATE WITH MASH RESOLUTION AND FIBROSIS IMPROVEMENT

Relative Reduction at Week 24



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

Responder Analyses at Week 24



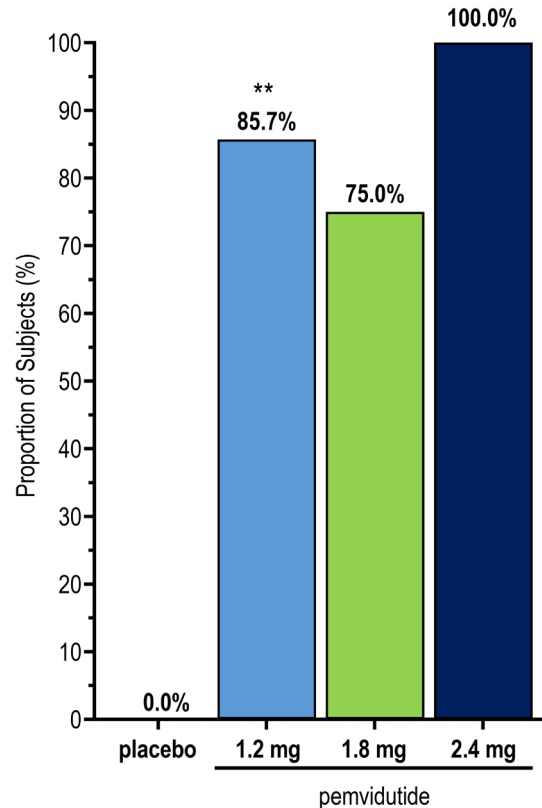
* p < 0.05, ** p < 0.005, *** p < 0.001, **** p < 0.0001 vs. placebo (CMH¹)

¹ Cochran Mantel Haenszel

SIGNIFICANT cT1 RESPONSE RATES AND ALT REDUCTIONS

TWO INDEPENDENT INDICATORS OF REDUCED LIVER INFLAMMATION

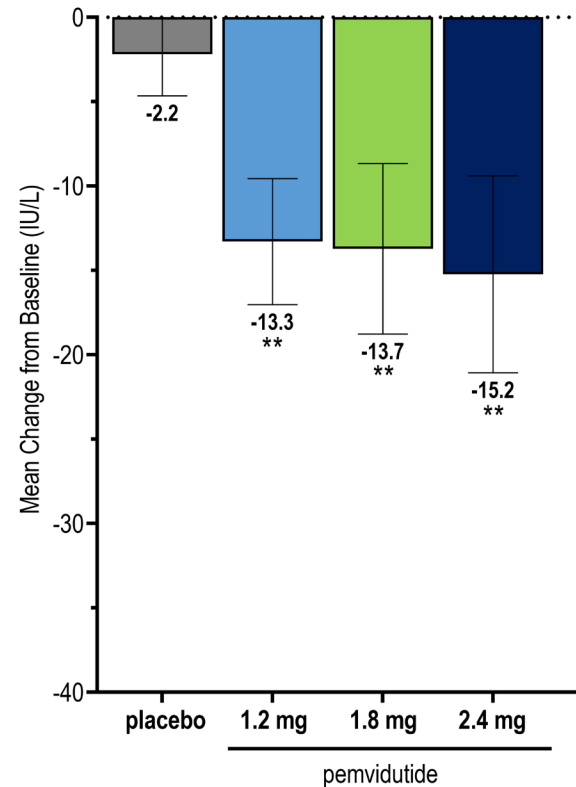
cT1 Responder Rates¹ at Week 24



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

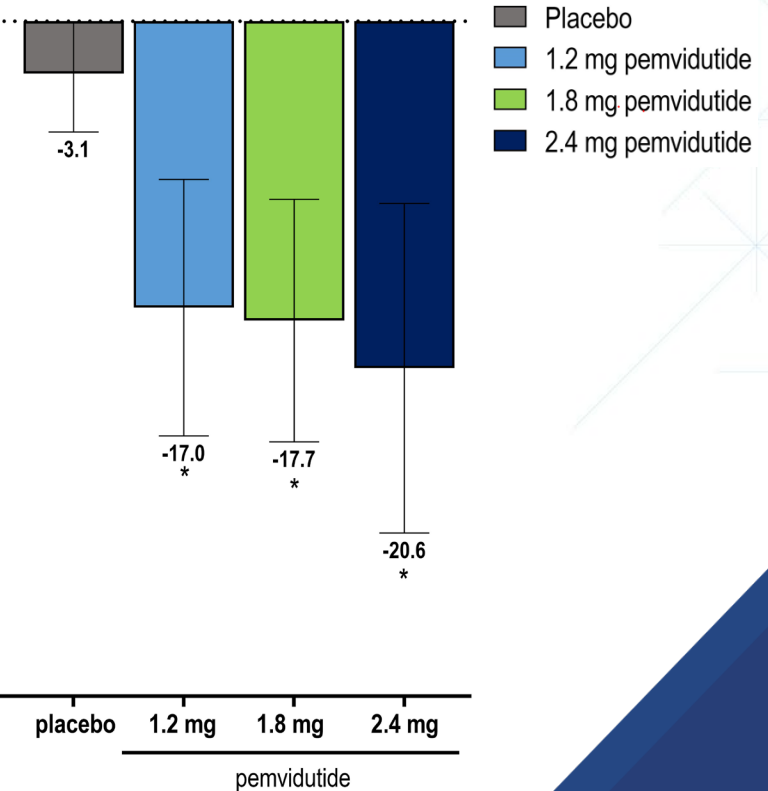
80ms reduction in cT1 has been associated with a 2-point reduction of MASH Activity Score (MAS)²

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 results expected in Q1 2025

PEMVIDUTIDE

HIGHLY DIFFERENTIATED THERAPEUTIC FOR BOTH OBESITY AND MASH



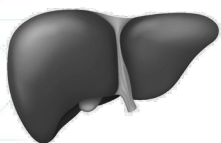
WEIGHT LOSS

- 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



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

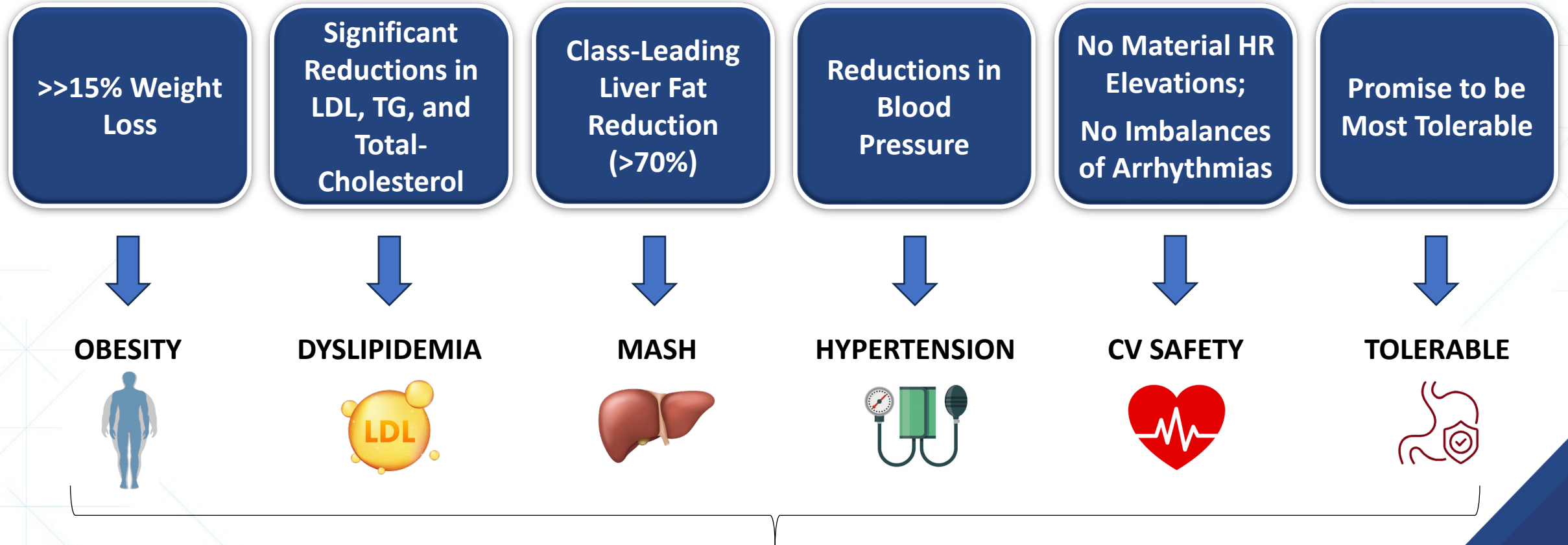
- Class leading rapid and robust liver fat reduction of 75% at 24 weeks
- ~50% liver fat normalization by Week 24
- cT1 response observed in $>80\%$ subjects by Week 12



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



Pemvidutide is targeting the largest segments of the obesity and MASH populations

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 2H 2024

3

Top line data for
Phase 2b IMPACT
MASH trial
in Q1 2025

THANK YOU
