

HU6 Oral Investigational Therapy Reduces Liver Fat and Improves Adiposity Markers in Adults with MASH: Topline Results from a Phase 2 Randomized Placebo-Controlled Trial (M-ACCEL)

Late-Breaking Abstract Parallel Session I

Mazen Nouredin, MD, MHSc, FFASLD
Professor of Medicine

Lynda K. and David M. Underwood Center for Digestive Disorders
J.C. Walter Jr. Transplant Center
Sherrie & Alan Conover Center for Liver Disease & Transplantation
Houston Methodist Hospital

Co-Chairman of the Board Summit and Pinnacle Clinical Research
Director Houston Research Institutes
Houston, Texas

Mazen Nouredin¹, Shaharyar Khan², Robert Schott², Francisco Portell², Edvin Johannson³, Arun Sanyal⁴

¹ Houston Research Institute: Houston Methodist Hospital, Houston, TX, USA;

² Rivus Pharmaceuticals, Charlottesville, VA, USA; ³ Antaros Medical, Mölndal, Sweden;

⁴ Virginia Commonwealth University, Richmond, VA, USA

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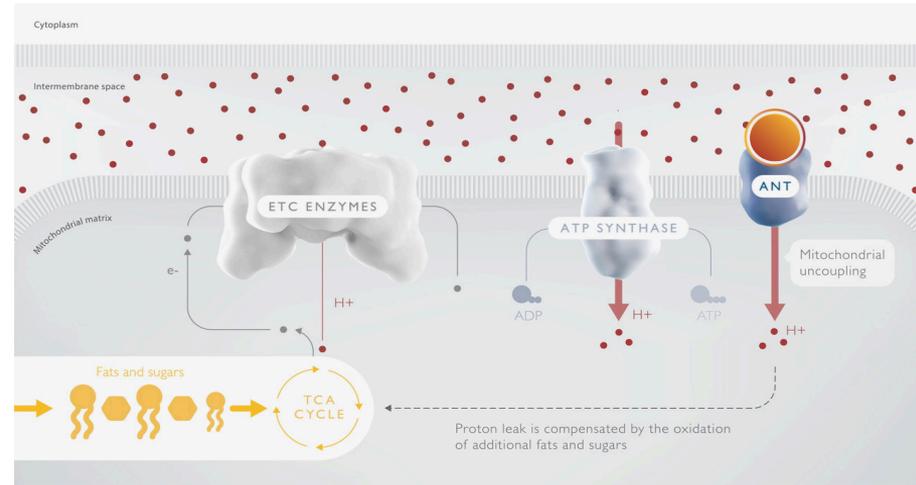


Dr. Mazen Nouredin - Disclosures

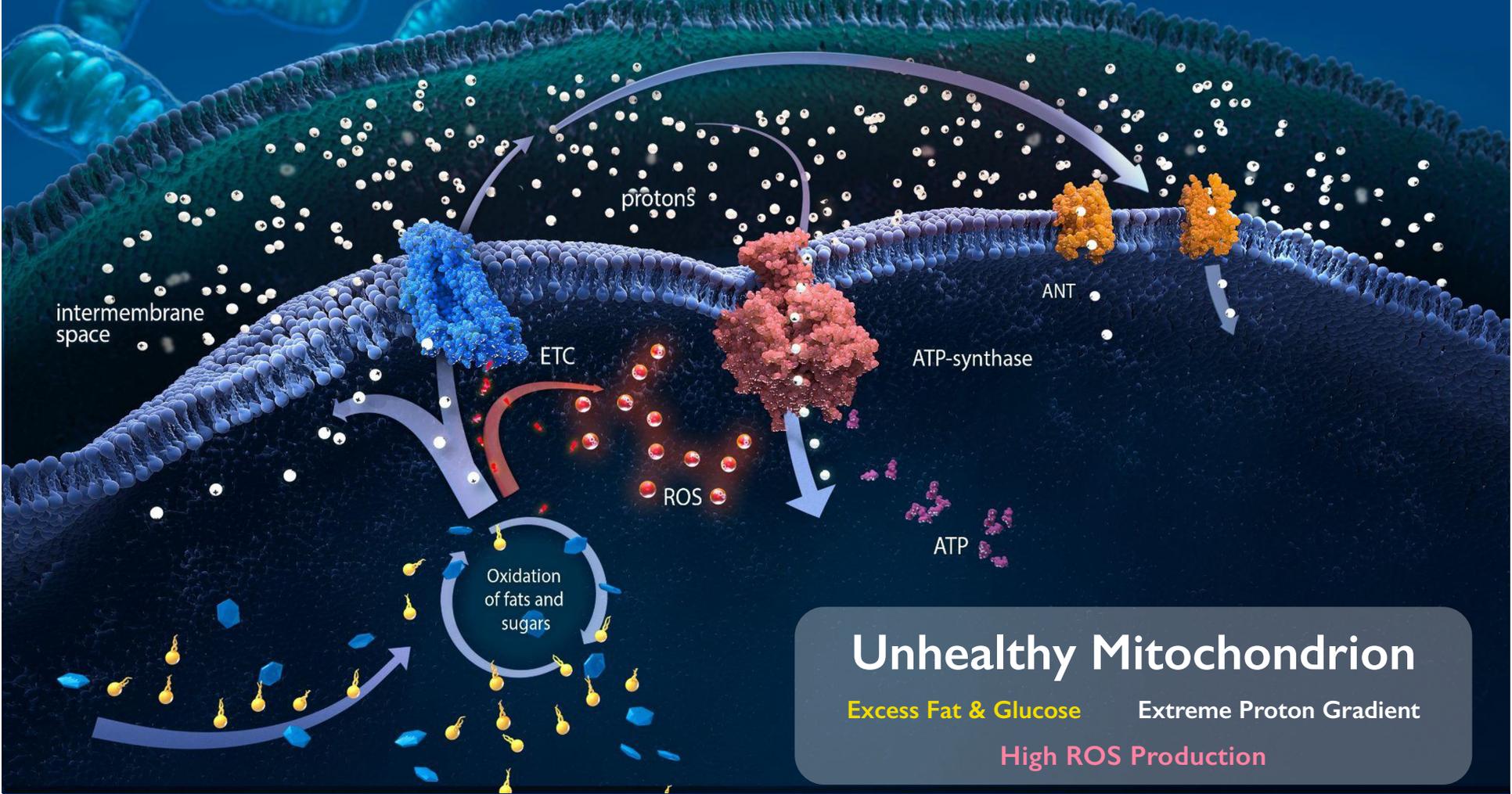
- Advisory Board/Consulting: Akeru, Altimune, Alligos, AstraZeneca, BI, Boston Pharma, Curve bioscience, Cytodyn, GSK, Histoindex, Kryia , Lilly, Madrigal, Merck, Novo Nordisk, OPKO, Rivus, Sagimet, Terns and Takeda. Principal Investigator for a Drug Study: Allergan, Altimune, Akeru, BI, BMS, Boston Pharma, Conatus, Corcept, Gilead, Galectin, Genfit, GSK, Kowa, Enanta, Madrigal, Lilly, Merck, Novartis, Novo Nordisk, Rivus, Shire, Takeda, Terns, Viking and Zydus. Stockholder: OPKO, Kryia and Akeru. Speaking bureau: Madrigal and Novo Nordisk

Background and Study Rationale

- HU6 is the lead investigational therapy within a new class of oral small molecule medicines - Controlled Metabolic Accelerators (CMAs)
- CMAs leverage the natural metabolic process of mitochondrial uncoupling to increase resting energy expenditure in a manner that is fat-selective, precision-controlled, and imperceptible to the patient
- Two prior Phase 2a studies have been completed to date with HU6 administered orally in subjects with MASLD¹ and obese-HFpEF, both of which met their primary endpoint
- This Phase 2a study (M-ACCEL) evaluated the efficacy of HU6 in reducing liver fat in adults with MASH



HU6 is an ANT-Activator
ANT - Adenine nucleotide translocase

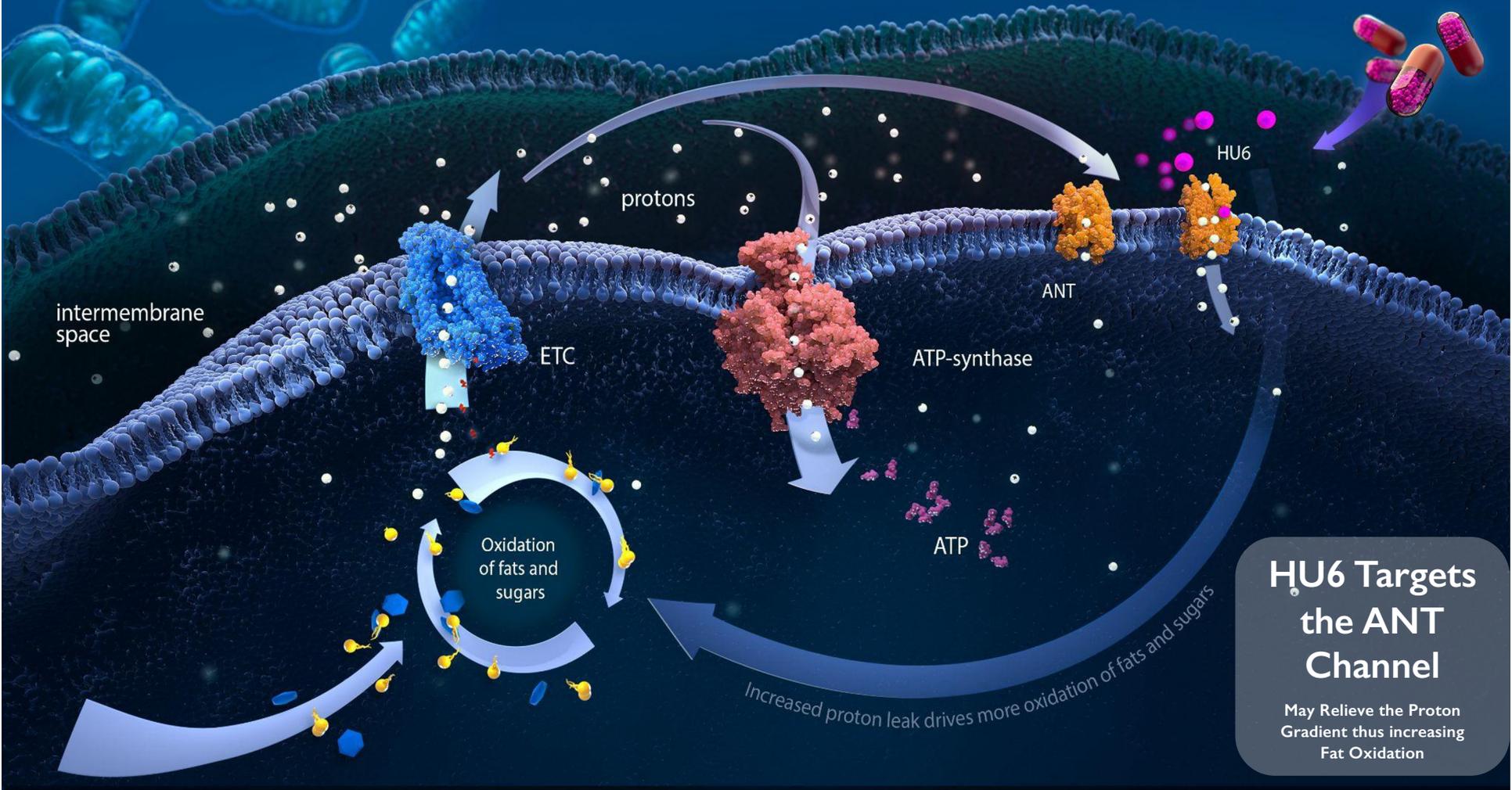


Unhealthy Mitochondrion

Excess Fat & Glucose

Extreme Proton Gradient

High ROS Production



HU6 Targets the ANT Channel

May Relieve the Proton Gradient thus increasing Fat Oxidation

Phase 2a M-ACCEL Study of HU6 in F2/F3 MASH

6-Month Study



Inclusion Criteria

- 271 patients included in safety analysis set*
- 228 patients included in pre-specified mITT**
- Age: ≥ 18 years
- BMI: ≥ 27.0 kg/m²
- VCTE range: 7.0-15.0 kPa
- $\geq 8\%$ LFC MRI-PDFF

6 Months

Endpoints

- Primary: Reduction in liver fat content by MRI-PDFF at last visit (6 months, ± 2 weeks)
- Safety and tolerability assessed for 1 year from first dose

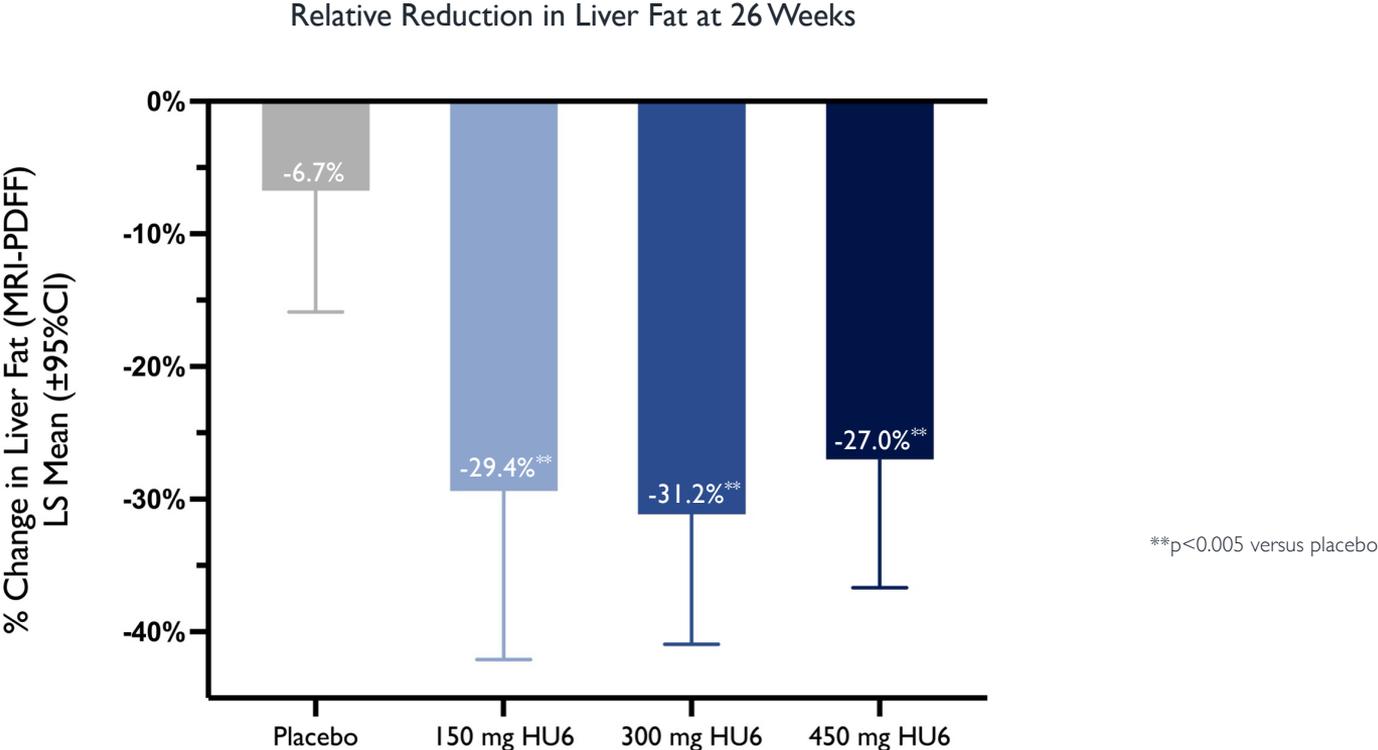
*Safety analysis set includes all randomized subjects.

**mITT was prespecified as the primary data for analysis and included all randomized patients with VCTE of 7.0 to 15.0 kPa, inclusive.

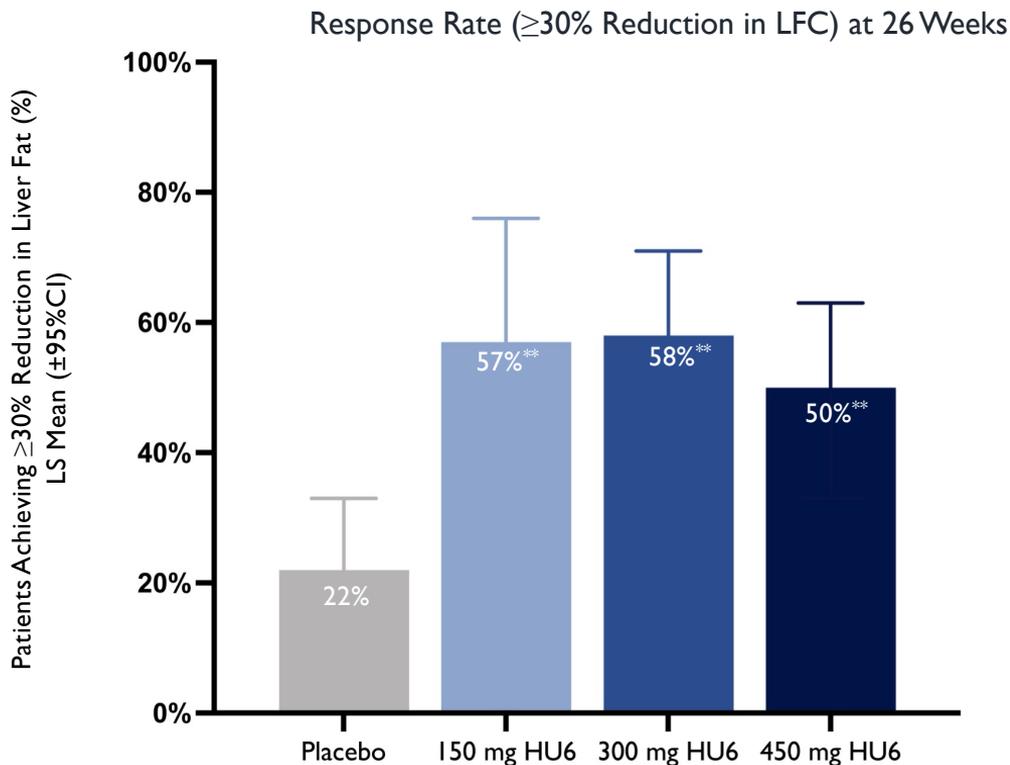
Baseline Characteristics

Measure	Placebo N=61	150 mg HU6 N=34	300 mg HU6 N=66	450 mg HU6 N=67
Age in Years, mean (s.d)	52.3 (10.4)	54.7 (12.5)	53.2 (13.0)	54.9 (11.1)
Gender Female, n (%)	28 (46%)	16 (47%)	27 (41%)	37 (55%)
BMI in kg/m ² , mean (s.d)	38.7 (5.6)	38.0 (5.9)	38.4 (6.0)	37.9 (6.4)
Diabetes Diagnosis at Baseline, n (%)	30 (49%)	24 (71%)	45 (68%)	50 (75%)
HbA1c in %, mean (s.d)	6.73 (1.4)	7.02 (1.3)	7.05 (1.3)	7.01 (1.1)
Liver Fat Content (MRI-PDFF) in %, mean (s.d)	17.1 (7.1)	17.4 (6.6)	17.7 (8.0)	17.6 (7.2)
Fibroscan VCTE in kPa, mean (s.d)	9.54 (2.5)	9.55 (1.8)	9.73 (2.1)	9.61 (2.2)

Primary Endpoint Met: Statistically Significant Reduction in Liver Fat at All Doses



Majority of Patients Achieved $\geq 30\%$ Liver Fat Reduction with HU6



$\geq 30\%$ relative decline in liver fat content (LFC) is highly correlated with histological improvements^{1,2,3,4}

1. Alkhouri et al., 2024. 2. Brouwers et al., 2024. 3. Stine et al., 2021. 4. Tamaki et al., 2022

**p<0.005 versus placebo

450 mg HU6

Liver Fat MRI-PDF

Placebo

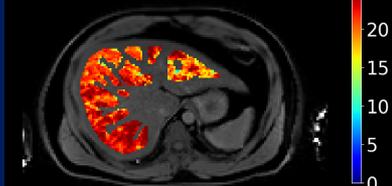
Baseline

Week 26

Baseline

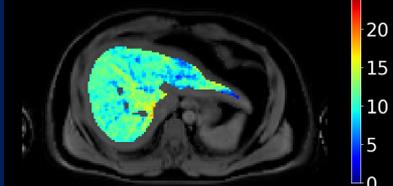
Week 26

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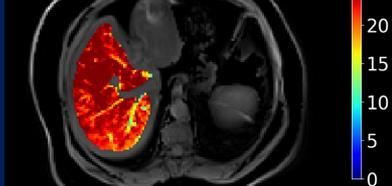


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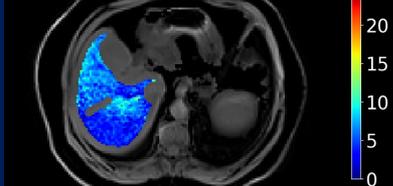


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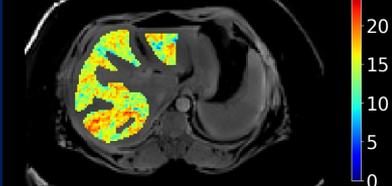


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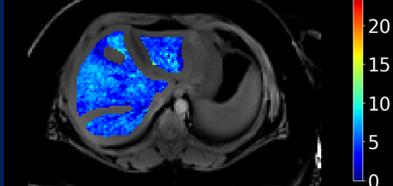


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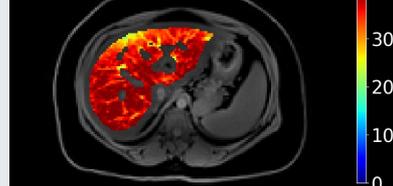


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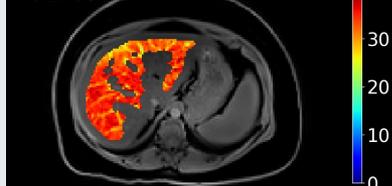


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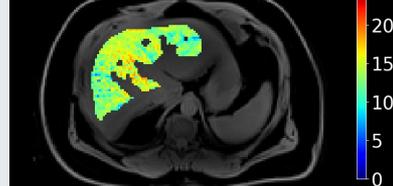


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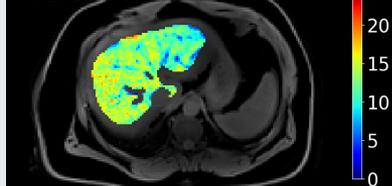


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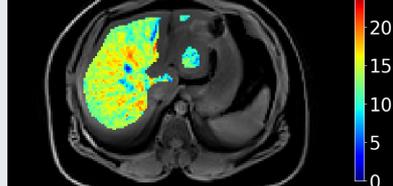


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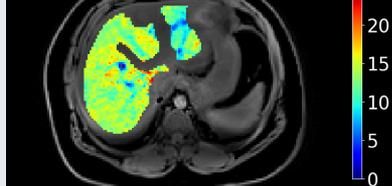


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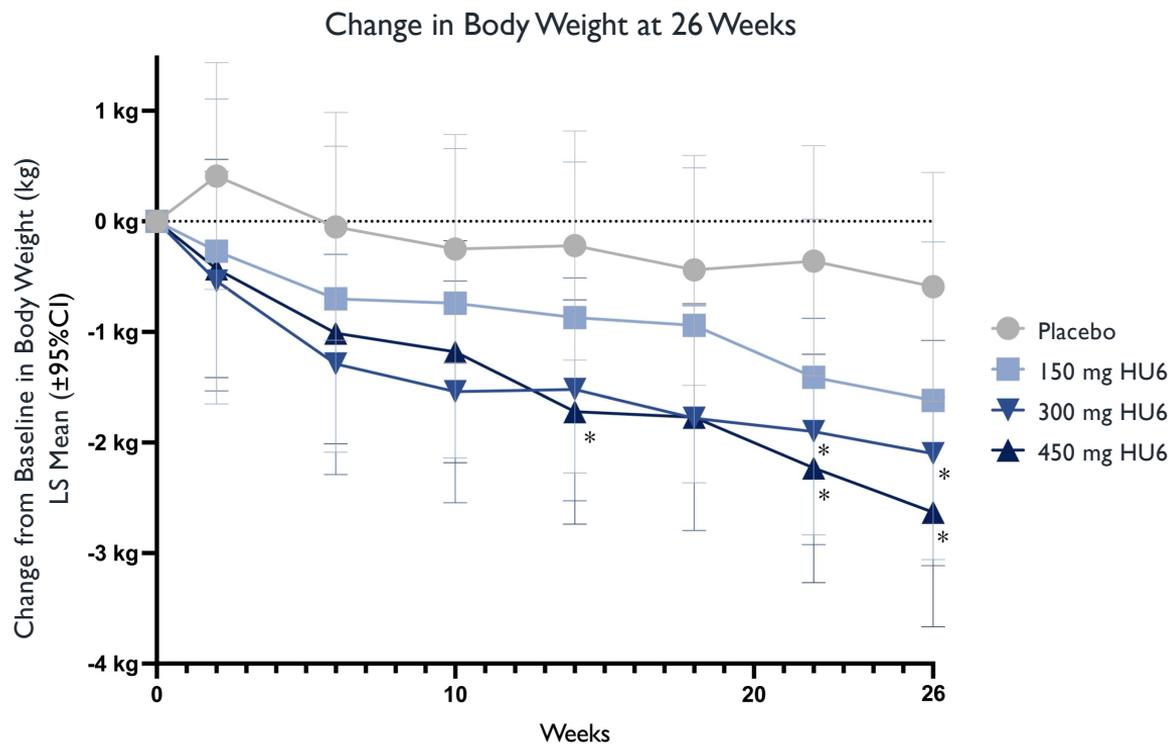


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Reduction in Body Weight at 26 Weeks

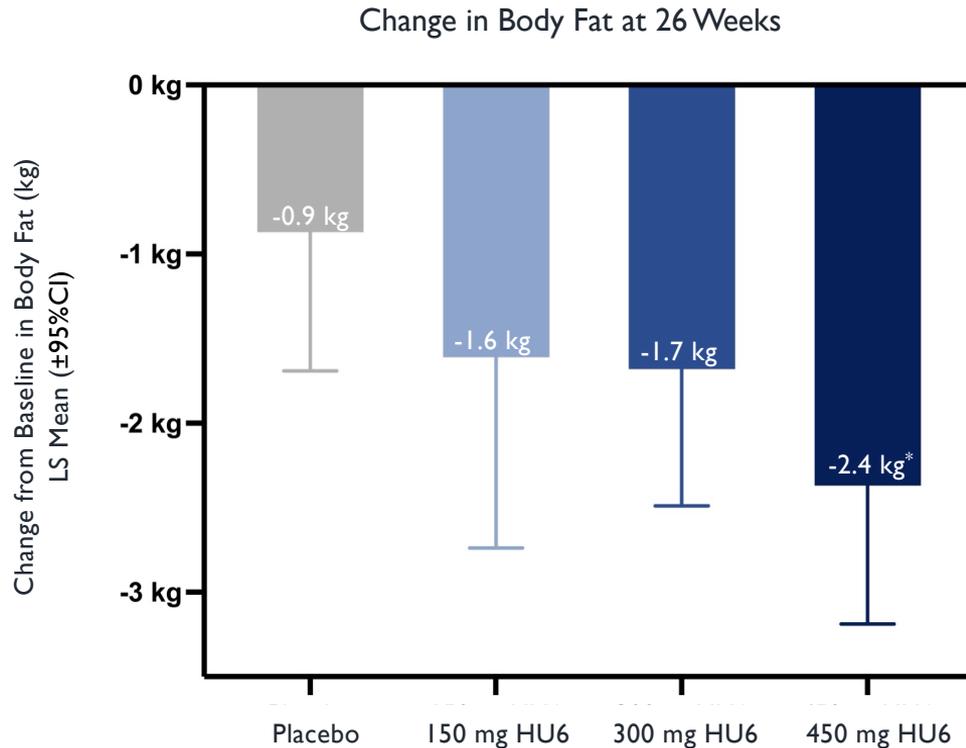


450 mg Dose (all $p < 0.05$):

- -2.6 kg Weight loss from baseline
- -2.4% Change in Body Weight from baseline
- -2.0 kg Weight loss vs. placebo
- -1.9% Change in Body Weight vs. placebo

* $p < 0.05$ vs placebo

Weight Loss is Fat-Selective with No Change in Skeletal Muscle Mass



450 mg Dose (all $p < 0.05$):

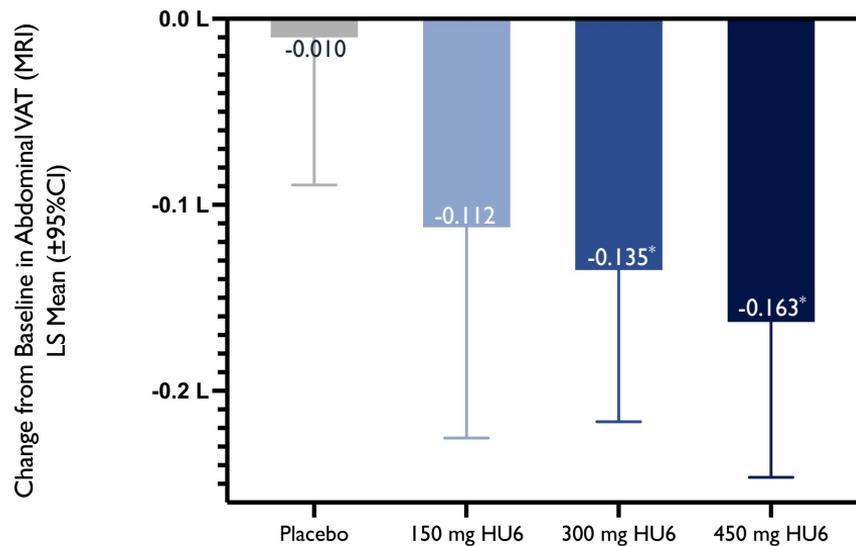
- **-2.4 kg** Fat loss from baseline
- Equates to a **4.6%** reduction in total body fat
- **-1.5 kg** Fat loss vs. placebo

Skeletal Muscle Mass unchanged at 6 months

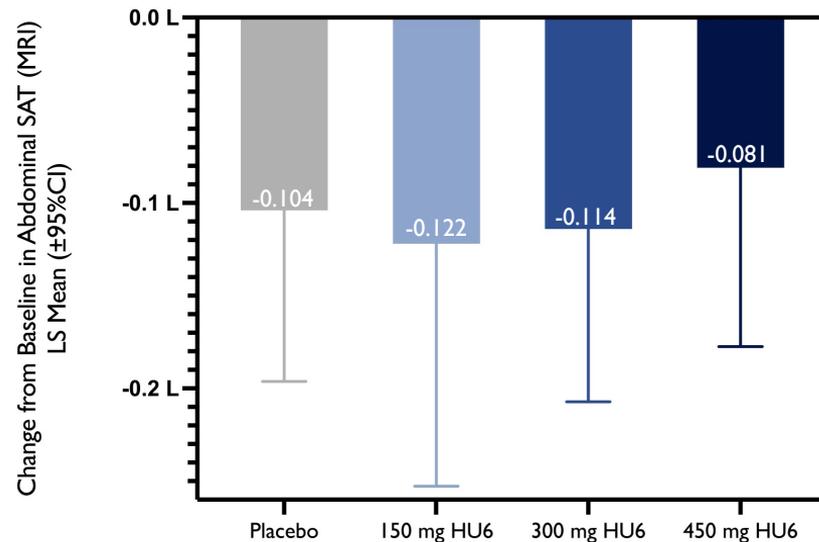
* $p < 0.05$ versus placebo

Preferential Reduction in Abdominal Visceral Fat at 450 mg Dose

2:1 Reduction in Visceral: Subcutaneous Fat at 450 mg



Abdominal Visceral Adipose Tissue by MRI



Abdominal Subcutaneous Adipose Tissue by MRI

*p<0.05 versus placebo

Favorable Safety and Tolerability Profile

Summary AEs	Placebo N=77	150 mg HU6 N=40	300 mg HU6 N=76	450 mg HU6 N=78
Any TEAE	26 (34%)	15 (38%)	38 (50%)	30 (39%)
TE Serious Adverse Events	1 (1%)	0 (0%)	1 (1%)	3 (4%)
TEAE Leading to Treatment Discontinuation	0 (0%)	2 (5%)	2 (3%)	1 (1%)
Most Frequent TEAEs				
Gastrointestinal Disorders	12 (16%)	5 (13%)	11 (15%)	12 (15%)
Diarrhea	4 (5%)	0 (0%)	3 (4%)	5 (6%)
Nausea	2 (3%)	2 (5%)	4 (5%)	1 (1%)
Feces Soft	1 (1%)	1 (3%)	2 (3%)	3 (4%)
Abdominal Pain Upper	1 (1%)	1 (3%)	0 (0%)	2 (3%)

- HU6 was well tolerated
- ≤5% discontinuation rate due to TEAEs
- No individual AE occurred in ≥15% of subjects in any treatment group
- Most frequent class of AE was gastrointestinal disorders, with similar occurrence in placebo and each treatment group
- Flushing was infrequent, transient, and did not result in treatment discontinuation
- No metabolic fevers in M-ACCEL (or any other clinical trial of HU6 to date); highest temperature recorded in the clinic was 99.6F over 6-month study

Conclusion: HU6, a Novel Oral Controlled Metabolic Accelerator, Demonstrated Favorable Efficacy and Safety Profiles in MASH

- Primary endpoint met in Phase 2a M-ACCEL study with reduction in liver fat across all HU6 doses
- $\geq 30\%$ liver fat reduction in majority of patients taking HU6
- Reductions in body weight and body fat with preservation of skeletal muscle mass
- ~2:1 selectivity for abdominal visceral vs subcutaneous fat reduction
- HU6 was generally safe and well tolerated, consistent with results of two prior Phase 2a studies; to date, ~450 patients have been treated with HU6
- Results confirm robust liver-centric effects of HU6 and support further development for MASH

Acknowledgements

- Thank you to the patients, families, and caregivers who participated in the M-ACCEL study
- With gratitude for **Dr. Mazen Nouredin**, investigators, and their teams who conducted the M-ACCEL study
- **Investigators: Dr. Mazen Nouredin**, Dr. Jose Rodriguez, Dr. Lazaro Garcia, Dr. Linda Collado, Dr. Robert Perry, Dr. Rizwana Mohseni, Dr. Eric Lawitz, Dr. Nomita Kim, Dr. Douglas Young, Dr. Kelie Hoover, Dr. Michael Hassman, Dr. Michael Lillestol, Dr. Paige Kreegel, Dr. Alfredo Cueli

THANK YOU Q&A

