
**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION**
Washington, D.C. 20549

Form 8-K

CURRENT REPORT
Pursuant to Section 13 or 15(d)
of the Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): April 28, 2026

WAVE LIFE SCIENCES LTD.

(Exact name of registrant as specified in its charter)

Singapore
(State or other jurisdiction
of incorporation)

001-37627
(Commission
File Number)

98-1356880
(IRS Employer
Identification No.)

7 Straits View #12-00, Marina One
East Tower
Singapore
(Address of principal executive offices)

018936
(Zip Code)

Registrant's telephone number, including area code: +65 6236 3388

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions (see General Instruction A.2. below):

- Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
- Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
- Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
- Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (§230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§240.12b-2 of this chapter).

Emerging growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Securities registered pursuant to Section 12(b) of the Act:

Title of each class	Trading symbol	Name of each exchange on which registered
\$0 Par Value Ordinary Shares	WVE	The Nasdaq Global Market

Item 2.02 Results of Operations and Financial Condition.

On April 28, 2026, Wave Life Sciences Ltd. (the “Company”) announced its financial results for the quarter ended March 31, 2026. The full text of the press release issued in connection with the announcement is furnished as Exhibit 99.1 to this Current Report on Form 8-K and is incorporated by reference herein.

Item 7.01 Regulation FD Disclosure.

From time to time, the Company presents and/or distributes slides and presentations to the investment community to provide updates and summaries of its business. On April 28, 2026, the Company updated its corporate presentation, which is available on the “Investors” section of the Company’s website at <http://ir.wavelifesciences.com/>. This presentation is also furnished as Exhibit 99.2 to this Current Report on Form 8-K

The information in these Items 2.02 and 7.01 are being furnished and shall not be deemed “filed” for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the “Exchange Act”), or otherwise subject to the liabilities of that Section, nor shall they be deemed incorporated by reference into any registration statement or other filing under the Securities Act of 1933, as amended, or the Exchange Act, except as shall be expressly set forth by specific reference in such filing.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits

The following exhibits relating to Items 2.02 and 7.01 are furnished and not filed:

Exhibit No.	Description
99.1	Press Release issued by Wave Life Sciences Ltd. dated April 28, 2026
99.2	Corporate Presentation of Wave Life Sciences Ltd. dated April 28, 2026
104	Cover Page Interactive Data File (embedded within the Inline XBRL document)

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

WAVE LIFE SCIENCES LTD.

By: /s/ Kyle Moran, CFA

Kyle Moran, CFA
Chief Financial Officer

Date: April 28, 2026



Wave Life Sciences Reports First Quarter 2026 Financial Results and Provides Business Update

With recent FDA acceptance of the Phase 2a multidose portion of INLIGHT trial of WVE-007 (INHBE GalNAc-siRNA) in individuals with higher BMI, with and without type 2 diabetes, this portion of the trial remains on track to initiate in 2Q 2026

Combination and maintenance trials of WVE-007 on track to initiate in 2026

Data from RestorAATion-2 trial of WVE-006 (GalNAc-RNA editing) in AATD (including 400 mg monthly dose and 600 mg single dose cohorts) to be presented at an investor webcast during the ATS International Conference in May 2026

Regulatory feedback on accelerated approval pathway for WVE-006 continues to be expected mid-2026

CTA submission for WVE-008 (GalNAc-RNA editing for PNPLA3 I148M liver disease) on track for 2026

Well capitalized with cash and cash equivalents of \$544.6 million as of March 31, 2026 and expected cash runway into 3Q 2028

Investor conference call and webcast at 8:30 a.m. ET today

CAMBRIDGE, Mass., April 28, 2026 – Wave Life Sciences Ltd. (Nasdaq: WVE), a clinical-stage biotechnology company focused on unlocking the broad potential of RNA medicines to transform human health, today announced financial results for the first quarter ended March 31, 2026, and provided a business update.

“We’re accelerating WVE-007 to the next stages of development following the improvements in body composition already observed in the Phase 1 portion of our INLIGHT trial, including profound reductions in harmful visceral fat, along with favorable safety and potential for once to twice yearly dosing,” said Paul Bolno, MD, MBA, President and Chief Executive Officer at Wave Life Sciences. “This quarter, we expect to initiate the Phase 2a portion of INLIGHT in individuals with higher BMI and excess fat. Given WVE-007’s mechanism of targeted lipolysis, we believe this portion of the study can deliver even more pronounced improvements in body composition. Importantly, we’ve designed the Phase 2a study to assess additional biomarkers of cardiometabolic health, which will inform WVE-007’s broad potential across obesity and multiple indications, including MASH, type 2 diabetes, and cardiovascular disease. We also plan to rapidly initiate investigation of WVE-007 in both the combination and maintenance settings soon thereafter.”

Dr. Bolno added, “We continue to make significant progress advancing our RNA editing pipeline led by WVE-006 for AATD. Clinical data from our ongoing RestorAATion-2 trial of WVE-006 has already demonstrated the potential to provide a much-needed new therapeutic option. By correcting the root cause of disease, WVE-006 restores dynamic AAT production to address lung manifestations and lowers harmful Z-AAT to address liver manifestations of the disease, with a therapy that is well-tolerated, non-permanent, and highly specific. WVE-006 also avoids delivery with LNPs and collateral bystander edits and indels associated with DNA base editing. In May, we expect

to highlight data from our RestorAATion-2 trial, including results from our less frequent, 400 mg monthly dose and 600 mg single dose cohorts. We remain on track to receive regulatory feedback on a potential accelerated approval pathway for WVE-006 mid-year. Building on our clinical success in RNAi and RNA editing, we are advancing WVE-008, as well as a pipeline of additional hepatic and extra-hepatic siRNAs and AIMers.”

Recent Business Highlights and Expected Milestones

Obesity

- **WVE-007** is an investigational GalNAc-siRNA (SpiNA design) designed to silence INHBE mRNA to induce fat loss without muscle loss, a promising therapeutic strategy to treat obesity with strong evidence from human genetics. WVE-007 is being evaluated in the ongoing placebo-controlled INLIGHT clinical trial.
- **Phase 1 INLIGHT:** In March 2026, Wave announced interim results from the ongoing Phase 1, single-ascending dose portion of its INLIGHT trial in healthy individuals with overweight or obesity (average BMI of ~32 kg/m², a population with less fat and lower BMI than those in Phase 2 and Phase 3 obesity studies), which showed further improvements in body composition at six months following a single dose of WVE-007. WVE-007 continued to be generally safe and well tolerated. At six-month follow-up, a single 240 mg dose of WVE-007 demonstrated continued total body fat reduction (-5.3%) with muscle preservation (+2.4%), as well as clinically meaningful reductions in visceral fat (-14.3%; p<0.05) and waist circumference (-3.3%) – exceeding the 5–10% visceral fat reductions that support robust correlations to clinical outcomes (lower risk of MASH, T2D, and CVD)¹. Preservation of muscle is a key differentiator from incretin treatments and is linked to health benefits including higher basal metabolic rate, improved insulin sensitivity, and prevention of weight regain. Activin E reductions were robust and durable and continue to support potential for once or twice-yearly dosing.
 - Additional data from INLIGHT, including data from the 600 mg Phase 1 SAD cohort, are expected in 2026.
- **Phase 2a INLIGHT:** The U.S. Food and Drug Administration (FDA) has accepted the Phase 2a multidose portion of INLIGHT trial of WVE-007 (INHBE GalNAc-siRNA) in individuals with higher BMI (35-50 kg/m²) with and without type 2 diabetes. This placebo-controlled (3:1) portion of the trial will include multiple assessments over a 12-month period, including body weight, waist circumference, body composition (MRI and DEXA), liver fat (MRI-PDFF), HbA1c, lipid levels, CRP, and muscle function, with a first assessment at three months following the first dose. Data from the Phase 2a study will inform further development of WVE-007 in obesity, as well as in MASH, type 2 diabetes, and cardiovascular disease.
 - Wave is on track to initiate the Phase 2a portion of INLIGHT in the second quarter of 2026.
- Combination with incretin and post-incretin maintenance studies of WVE-007 are expected to initiate in 2026.

AATD (Alpha-1 antitrypsin deficiency)

- **WVE-006** is an investigational GalNAc-conjugated, subcutaneously delivered, RNA editing oligonucleotide (AIMer) for AATD. The RestorAATion-2 clinical trial is fully enrolled through the 600 mg cohort, and dosing is complete in the single dose portion.
- Clinical data from the 200 mg (single and biweekly) and 400 mg (single dose) cohorts of the ongoing RestorAATion-2 clinical trial have demonstrated WVE-006 achieved key AATD treatment goals by recapitulating an MZ-like phenotype, characterized by basal AAT levels above 11 µM, wild-type M-AAT above 50% of total AAT, reduction of Z-AAT protein, and dynamic AAT production during an acute phase

response. These data will be included at multiple upcoming medical meetings including in a late-breaking oral presentation at the American Thoracic Society (ATS) International Conference (Dr. Kenneth R. Chapman, MsC, MD, FRCPC, FACP, FERS, Department of Medicine, University of Toronto) on May 18, 2026 and in an oral presentation at the European Association for the Study of the Liver (EASL) Congress (Dr. Pavel Strnad, MD, Professor of Translational Gastroenterology and Senior Physician at the University Hospital Aachen, Department of Medicine III) on May 29, 2026.

- Wave will hold an investor conference call and webcast at 5:30 p.m. ET on May 18, 2026 to highlight its AATD program, including new clinical data from the 400 mg multidose cohort and 600 mg single dose cohort of RestorAATion-2. Wave also expects to share data from the 600 mg multidose cohort in the second half of 2026.
- Wave expects to receive regulatory feedback on a potential accelerated approval pathway mid-2026.

PNPLA3 I148M liver disease

- **WVE-008:** Wave is building on its clinical success in RNA editing by advancing WVE-008, a GalNAc-conjugated AIMer for homozygous PNPLA3 I148M liver disease.
- Wave will highlight preclinical data supporting WVE-008 in a poster presentation at the EASL Congress.
- Clinical trial application (CTA) filing for WVE-008 is on track for 2026.

DMD (exon 53)

- **WVE-N531:** Wave remains on track to file a New Drug Application (NDA) in 2026 to support accelerated approval of WVE-N531 with monthly dosing.

Bifunctional modality

- Wave is applying learnings from across its platform and chemistry optimization to investigate new bifunctional modalities which combine RNAi and RNA editing or dual RNAi silencing into a single oligonucleotide construct. These constructs are designed to silence multiple targets or silence one target while simultaneously editing or upregulating another distinct target. Wave expects to provide further updates on its bifunctional modality in 2026.

Financial Highlights

- Cash and cash equivalents were \$544.6 million as of March 31, 2026, compared to \$602.1 million as of December 31, 2025. Wave expects that its current cash and cash equivalents will be sufficient to fund operations into the third quarter of 2028. Potential future milestone and other payments to Wave under its GSK collaboration are not included in its cash runway.
- Revenue recognized was \$38.2 million for the first quarter of 2026 as compared to \$9.2 million in the prior year quarter.
- Research and development expenses were \$47.4 million in the first quarter of 2026 as compared to \$40.6 million in the same period in 2025.
- General and administrative expenses were \$22.1 million in the first quarter of 2026 as compared to \$18.4 million in the same period in 2025.
- Net loss was \$26.1 million for the first quarter of 2026 as compared to a net loss of \$46.9 million in the prior year quarter.



Investor Conference Call and Webcast

Wave will host an investor conference call today at 8:30 a.m. ET to review the first quarter 2026 financial results and pipeline updates. A webcast of the conference call can be accessed by visiting “Investor Events” on the investor relations section of the Wave Life Sciences website: <https://ir.wavelifesciences.com/events-publications/events>. Analysts planning to participate during the Q&A portion of the live call can join the conference call at the audio-conferencing link [here](#). Following the live event, an archived version of the webcast will be available on the Wave Life Sciences website.

About Wave Life Sciences

Wave Life Sciences (Nasdaq: WVE) is a biotechnology company focused on unlocking the broad potential of RNA medicines to transform human health. Wave’s RNA medicines platform, PRISM®, combines multiple modalities, chemistry innovation and deep insights in human genetics to deliver scientific breakthroughs that treat both rare and common disorders. Its toolkit of RNA-targeting modalities, including RNAi (SpiNA) and RNA editing (AIMers), provides Wave with unmatched capabilities for designing and sustainably delivering candidates that optimally address disease biology. Wave’s pipeline is focused on its obesity (WVE-007), alpha-1 antitrypsin deficiency (WVE-006) and PNPLA3 I148M liver disease (WVE-008) programs, and also includes clinical programs in Duchenne muscular dystrophy and Huntington’s disease, as well as several preclinical programs utilizing the company’s versatile RNA medicines platform. Driven by the calling to “Reimagine Possible,” Wave is leading the charge toward a world in which human potential is no longer hindered by the burden of disease. Wave is headquartered in Cambridge, MA. For more information on Wave’s science, pipeline and people, please visit www.wavelifesciences.com and follow Wave on [X](#) and [LinkedIn](#).



Forward-Looking Statements

This press release contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995, as amended, concerning our goals, beliefs, expectations, strategies, objectives and plans, and other statements that are not necessarily based on historical facts, including statements regarding the following, among others: the anticipated initiation, timing, design, progress, data and announcements related to our clinical trials, including interactions with and feedback from regulators and any potential registrational submissions based on these data; the future performance and results of our programs in clinical trials, including the anticipated therapeutic benefits of such programs, and our expectations with respect to how our clinical data may predict success for our future therapeutic candidates and data readouts; the potential commercialization of our programs the potential size of the markets that our therapeutics may address; preclinical activities and programs and their potential to transition into clinical-stage programs, and the timing, progress and announcement of such events; the progress and potential benefits, including the potential achievement of milestones, of collaborations and strategic partnerships; the expected benefits of our stereopure oligonucleotides compared with stereorandom oligonucleotides; the breadth and versatility of our PRISM® drug discovery and development platform; the potential benefits of our RNA-targeting modalities, including RNAi (SpiNA), RNA editing (AIMers), and our bifunctional modalities; the potential for certain of our programs to be best-in-class or first-in-class, or to change the existing treatment paradigm or show substantial benefits over existing standards of care; our financial performance, including the anticipated duration of our cash runway and our ability to fund future operations; our intended uses of capital; and our expectations regarding the impact of any potential global macro events on our business. The words “may,” “will,” “could,” “would,” “should,” “expect,” “plan,” “anticipate,” “intend,” “believe,” “estimate,” “predict,” “project,” “potential,” “continue,” “target” and similar expressions are intended to identify forward-looking statements, although not all forward-looking statements contain these identifying words. Any forward-looking statements in this press release are based on management’s current expectations and beliefs and are subject to a number of risks, uncertainties and important factors that may cause actual results to differ materially from those indicated by these forward-looking statements as a result of these risks, uncertainties and important factors, including, without limitation, the clinical results and timing of our programs, which may not support further development of our product candidates; actions of regulatory agencies, which may affect the initiation, timing and progress of clinical trials; our effectiveness in managing current and future clinical trials and regulatory processes; the continued development and acceptance of nucleic acid therapeutics as a class of drugs; our ability to demonstrate the therapeutic benefits of our stereopure candidates in clinical trials, including our ability to develop candidates across multiple therapeutic modalities; our ability to obtain, maintain and protect intellectual property; our ability to fund our operations and to raise additional capital as needed; competition from others developing therapies for similar uses; and any impacts on our business as a result of or related to any global economic uncertainty or market disruptions, as well as the other risks and uncertainties described in the section entitled “Risk Factors” in our most recent Annual Report on Form 10-K filed with the Securities and Exchange Commission (SEC), as amended, and in other filings we make with the SEC from time to time. In addition, any forward-looking statements represent our views only as of today and should not be relied upon as representing our views as of any subsequent date. We undertake no obligation, except to the extent required by law, to update the information contained in this press release to reflect subsequently occurring events or circumstances.



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- ¹ Gabriely et al., *Diabetes* 2002; Campos et al., *Diabetes & Vascular Disease Research* 2019; Huang et al., *Front Endocrinol* 2023.; Cesaro et al., *Front Cardiovasc Med* 2023; Khawaja et al., *Curr Cardiol Rep* 2024; Hiuge-Shimizu et al., *J Atheroscler Thromb* 2011.; Liao et al., *PLoS ONE* 2023; Jung et al., *Endocrinol Metab* 2020; Hanlon & Yuan, *Clin Liver Dis* 2021.; Liao et al., *PLoS ONE* 2023; Jung et al., *Endocrinol Metab* 2020



WAVE LIFE SCIENCES LTD.
UNAUDITED CONSOLIDATED BALANCE SHEETS

(In thousands, except share amounts)

	<u>March 31, 2026</u>	<u>December 31, 2025</u>
Assets		
Current assets:		
Cash and cash equivalents	\$ 544,591	\$ 602,068
Accounts receivable	—	1,276
Prepaid expenses	13,225	8,395
Other current assets	3,456	3,075
Total current assets	<u>561,272</u>	<u>614,814</u>
Long-term assets:		
Property and equipment, net of accumulated depreciation of \$50,352 and \$49,522 as of March 31, 2026 and December 31, 2025, respectively	7,077	7,405
Operating lease right-of-use assets	10,994	12,458
Restricted cash	3,815	3,806
Other assets	386	16
Total long-term assets	<u>22,272</u>	<u>23,685</u>
Total assets	<u>\$ 583,544</u>	<u>\$ 638,499</u>
Liabilities, Series A preferred shares, and shareholders' equity		
Current liabilities:		
Accounts payable	\$ 19,064	\$ 15,700
Accrued expenses and other current liabilities	13,043	26,564
Current portion of deferred revenue	9,396	44,440
Current portion of operating lease liability	8,328	8,361
Total current liabilities	<u>49,831</u>	<u>95,065</u>
Long-term liabilities:		
Deferred revenue, net of current portion	14,596	7,798
Operating lease liability, net of current portion	7,387	9,405
Total long-term liabilities	<u>21,983</u>	<u>17,203</u>
Total liabilities	<u>\$ 71,814</u>	<u>\$ 112,268</u>
Series A preferred shares, no par value; nil and 3,901,348 shares issued and outstanding at March 31, 2026 and December 31, 2025, respectively	<u>\$ —</u>	<u>\$ 7,874</u>
Shareholders' equity:		
Ordinary shares, no par value; 192,337,566 and 187,660,263 shares issued and outstanding at March 31, 2026 and December 31, 2025, respectively	\$ 1,626,879	\$ 1,616,478
Additional paid-in capital	237,428	228,365
Accumulated other comprehensive loss	(254)	(250)
Accumulated deficit	(1,352,323)	(1,326,236)
Total shareholders' equity	<u>\$ 511,730</u>	<u>\$ 518,357</u>
Total liabilities, Series A preferred shares, and shareholders' equity	<u>\$ 583,544</u>	<u>\$ 638,499</u>

The accompanying notes are an integral part of the consolidated financial statements.



WAVE LIFE SCIENCES LTD.
UNAUDITED CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE LOSS

(In thousands, except share and per share amounts)

	Three Months Ended March 31,	
	2026	2025
Revenue	\$ 38,246	\$ 9,175
Operating expenses:		
Research and development	47,440	40,622
General and administrative	22,104	18,357
Total operating expenses	69,544	58,979
Loss from operations	(31,298)	(49,804)
Other income, net:		
Interest income	5,291	2,875
Other income (expense), net	(80)	51
Total other income, net	5,211	2,926
Loss before income taxes	(26,087)	(46,878)
Income tax benefit	—	—
Net loss	\$ (26,087)	\$ (46,878)
Net loss per share attributable to ordinary shareholders—basic and diluted	\$ (0.13)	\$ (0.29)
Weighted-average ordinary shares used in computing net loss per share attributable to ordinary shareholders—basic and diluted	200,167,869	162,572,026
Other comprehensive income (loss):		
Net loss	\$ (26,087)	\$ (46,878)
Foreign currency translation gain (loss)	(4)	58
Comprehensive loss	\$ (26,091)	\$ (46,820)

The accompanying notes are an integral part of the consolidated financial statements.



Wave Life Sciences

Corporate Presentation

April 28, 2026

Forward-looking statements

This document contains forward-looking statements. All statements other than statements of historical facts contained in this document, including statements regarding possible or assumed future results of operations, preclinical and clinical studies, business strategies, research and development plans, collaborations and partnerships, regulatory activities and timing thereof, competitive position, potential growth opportunities, use of proceeds and the effects of competition are forward-looking statements. These statements involve known and unknown risks, uncertainties and other important factors that may cause the actual results, performance or achievements of Wave Life Sciences Ltd. (the "Company") to be materially different from any future results, performance or achievements expressed or implied by the forward-looking statements. In some cases, you can identify forward-looking statements by terms such as "may," "will," "should," "expect," "plan," "aim," "anticipate," "could," "intend," "target," "project," "contemplate," "believe," "estimate," "predict," "potential" or "continue" or the negative of these terms or other similar expressions. The forward-looking statements in this presentation are only predictions. The Company has based these forward-looking statements largely on its current expectations and projections about future events and financial trends that it believes may affect the Company's business, financial condition and results of operations. These forward-looking statements speak only as of the date of this presentation and are subject to a number of risks, uncertainties and assumptions, including those listed under Risk Factors in the Company's Form 10-K and other filings with the SEC, some of which cannot be predicted or quantified and some of which are beyond the Company's control. The events and circumstances reflected in the Company's forward-looking statements may not be achieved or occur, and actual results could differ materially from those projected in the forward-looking statements. Moreover, the Company operates in a dynamic industry and economy. New risk factors and uncertainties may emerge from time to time, and it is not possible for management to predict all risk factors and uncertainties that the Company may face. Except as required by applicable law, the Company does not plan to publicly update or revise any forward-looking statements contained herein, whether as a result of any new information, future events, changed circumstances or otherwise.



Our Mission

To unlock the broad potential of RNA medicines to transform human health



Building a leading RNA medicines company

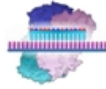
Differentiated RNA medicines platform and chemistry



- Proprietary chemistry
- Leveraging deep insights in **human genetics**
- Strong and **broad IP**
- **In-house GMP** manufacturing

Translating genetic insights into potentially best-in-class medicines

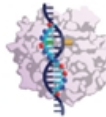
RNAi



WVE-007 (obesity)

- Differentiated mechanism focused on fat loss and muscle preservation

RNA editing



WVE-006 (AATD) WVE-008 (liver disease)

- Restoration of functional protein production

Other modalities: **Splicing, antisense silencing**

Unlocking emerging pipeline

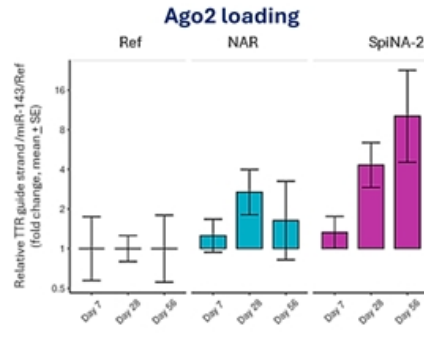
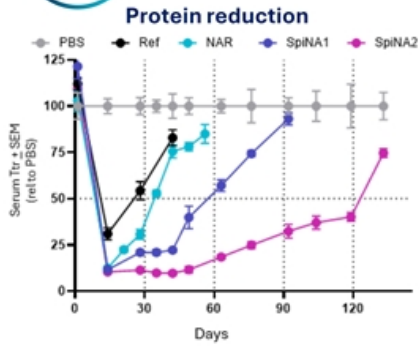
- **Extra-hepatic capabilities:** with RNAi and RNA editing
- **Bifunctional modalities:** single oligonucleotide constructs for dual RNAi silencing or RNAi silencing + RNA editing

Well capitalized with expected cash runway into 3Q 2028

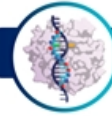
For over a decade Wave has been extending the frontiers of RNA therapies delivering breakthroughs in nucleic acid chemistry



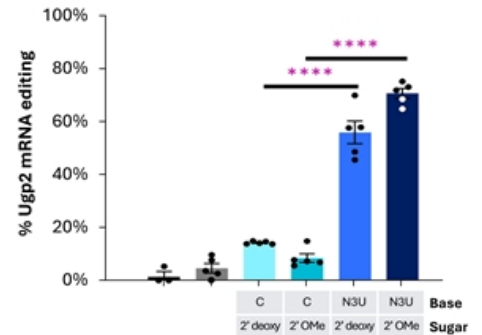
RNAi — SpiNA



Substantial improvements in potency, duration of activity, and Ago2 loading with Wave's proprietary SpiNA design



RNA editing — Aimer



Increased RNA editing efficiency achieved with proprietary chemistry

Proprietary chemistry has dramatically increased potency and durability



SpiNA: Stereopure interfering Nucleic Acid
<https://wavelifesciences.com/science/publications/>

Robust RNA medicines pipeline with first-in-class RNAi and RNA editing programs

Program	Discovery	IND / CTA Enabling Studies	Clinical	Patient population (US & Europe)
RNAi (SpiNA)				
WVE-007 (GalNAc) INHBE (obesity)				175M (>1 billion globally)
GalNAc / extra-hepatic Multiple				--
RNA EDITING (AIMer)				
WVE-006 (GalNAc) SERPINA1 (AATD)				200K
WVE-008 (GalNAc) PNPLA3 (liver disease)				9M
GalNAc / extra-hepatic Multiple				--
SPLICING				
WVE-N531 Exon 53 (DMD)				2.3K
Other exons (DMD)				Up to 18K
ALLELE-SELECTIVE SILENCING				
WVE-003 mHTT (HD)				25K Symptomatic (SNP3) 60K Pre-Symptomatic (SNP3)



AATD: Alpha-1 antitrypsin deficiency; DMD: Duchenne muscular dystrophy; HD: Huntington's disease

WVE-007
GalNAc-siRNA silencing

Obesity

WVE-007 (investigational INHBE GalNAc-siRNA) is a potentially transformative approach for the > 1 billion people living with obesity globally

Significant unmet need in obesity

Current standard of care: Focused on caloric restriction by reducing appetite and slowing gastric emptying

Incretins limited by:

- ✗ Muscle loss¹
- ✗ Frequent dosing²
- ✗ Poor tolerability³
- ✗ High discontinuation rates^{4,5}



Resulting in need for therapies that can:

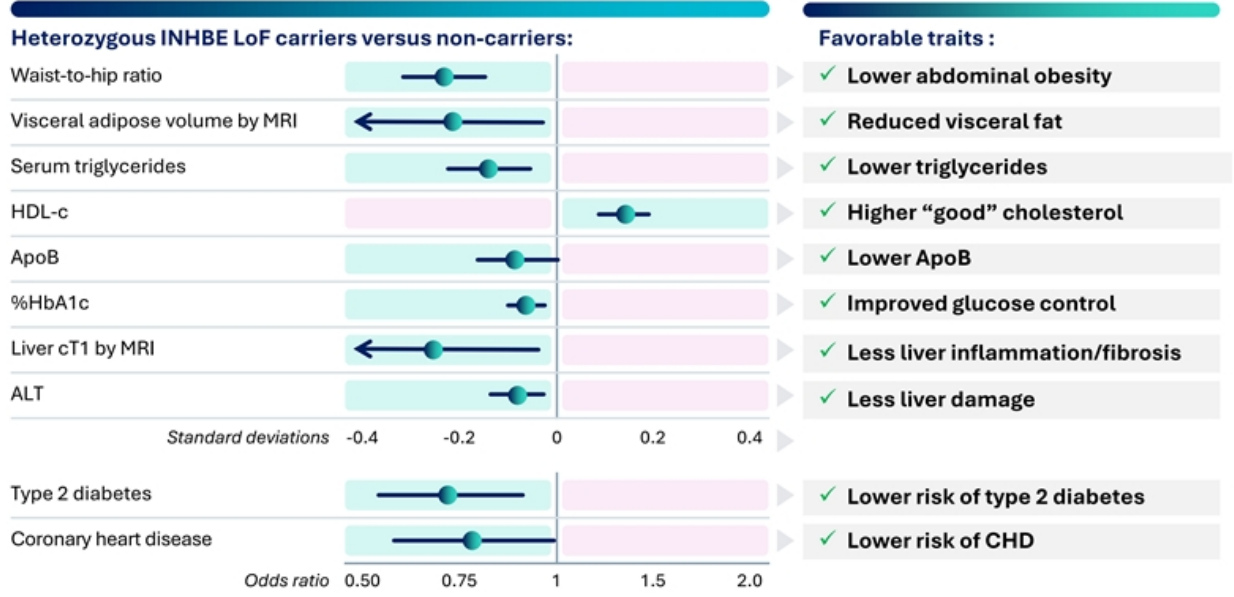
- Induce **fat loss** with **muscle preservation**
- Leverage **orthogonal mechanism** for **enhanced efficacy** and **maintain metabolic improvements** after incretin cessation

WVE-007

Focused on adipocyte lipolysis and not caloric deficit

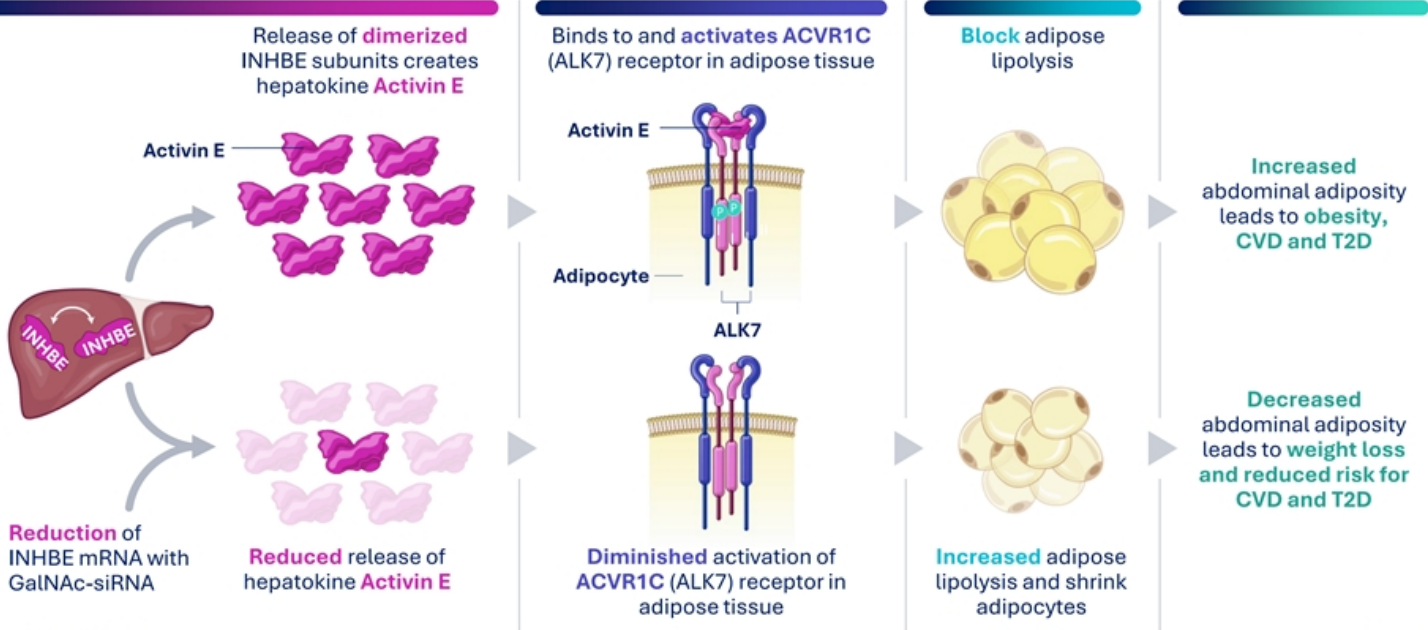
- ✓ Drives total and visceral fat loss
- ✓ Preserves muscle
- ✓ Potential 1–2x per year dosing
- ✓ Generally safe and well tolerated

Human genetic data demonstrate that heterozygous INHBE loss-of-function (LoF) carriers have lower visceral fat and a healthier metabolic profile

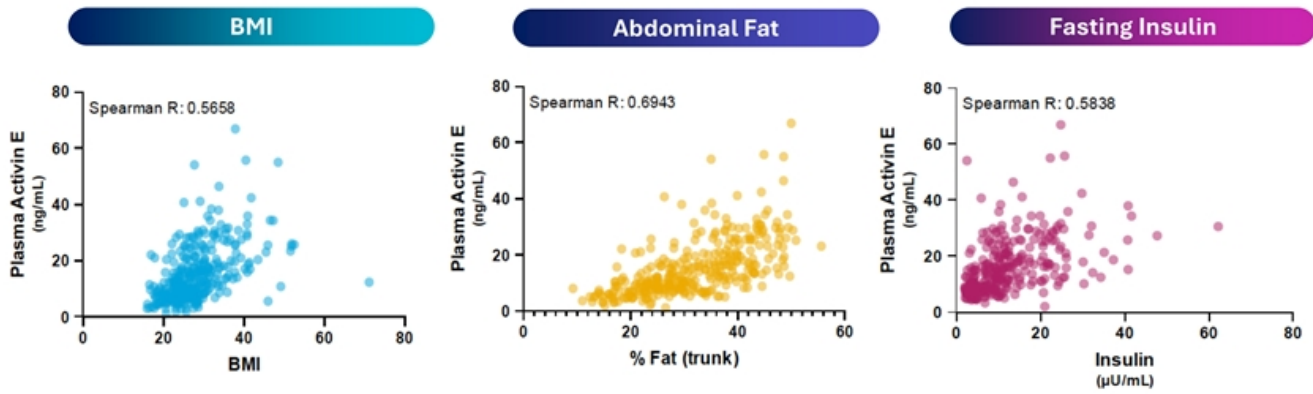


Akbari et al. *Nat Commun.* 2022 Aug 23;13(1):4844; Deaton et al. *Nat Commun.* 2022 Jul 27;13(1):4319. Waist-to-hip ratio, BMI-adjusted; Visceral adipose volume (MRI), BMI adjusted; HDL-c: high-density lipoprotein cholesterol; %HbA1c: glycated hemoglobin; ALT: alanine transaminase; ApoB: apolipoprotein B; CHD: coronary heart disease; cT1: corrected T1

Silencing INHBE mRNA has the potential to treat obesity and associated metabolic diseases

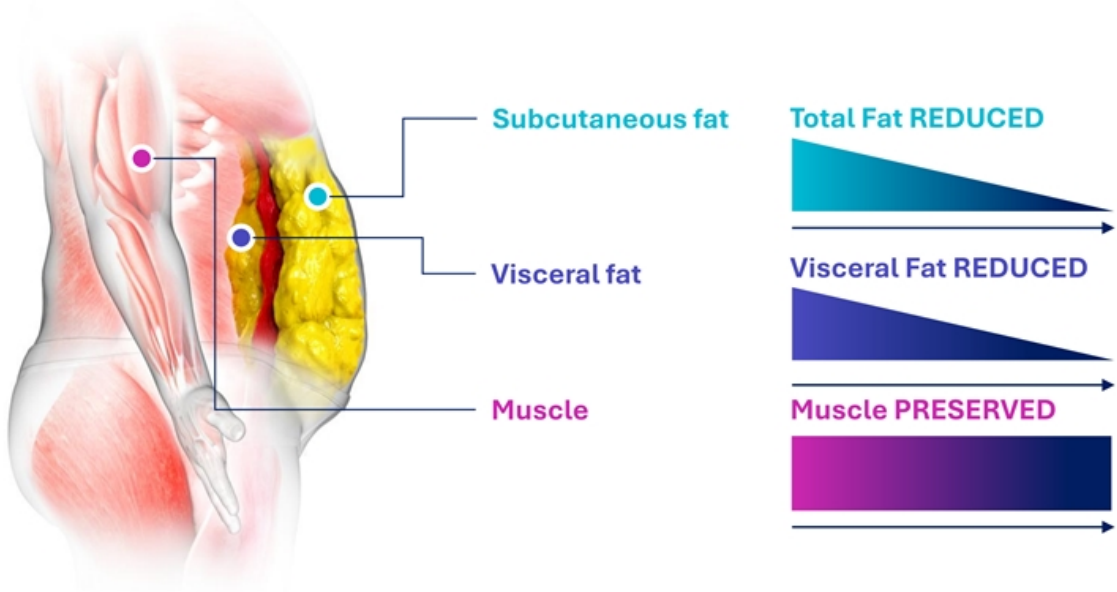


Higher circulating Activin E levels are correlated with higher BMI, higher abdominal fat, and higher fasting insulin in non-diabetic adults



Further supports INHBE suppression as a weight loss approach for individuals living with obesity

WVE-007 is designed to improve body composition by decreasing fat and preserving muscle



WVE-007's mechanism is focused on lipolysis and directly reducing visceral and subcutaneous fat

Visceral fat drives insulin resistance and many cardiometabolic disorders



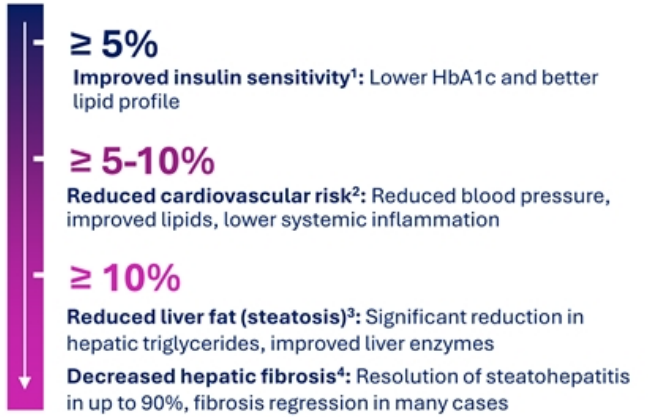
Visceral fat

Waist circumference is a clinical proxy for visceral fat

- MASH
- Type 2 diabetes
- Cardiovascular diseases
- PCOS

Reduced visceral fat is associated with multiple health benefits

Visceral fat decrease



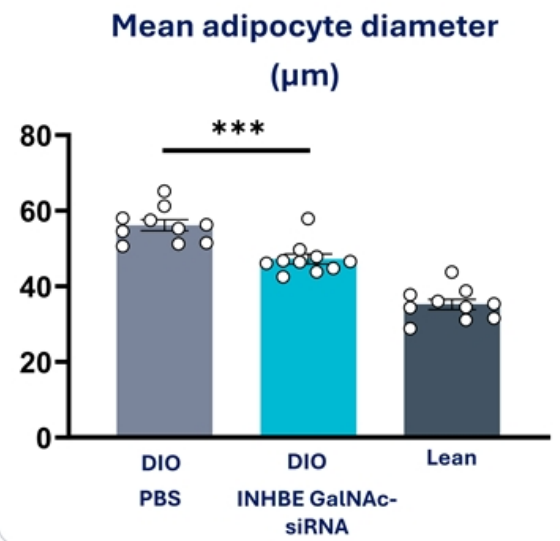
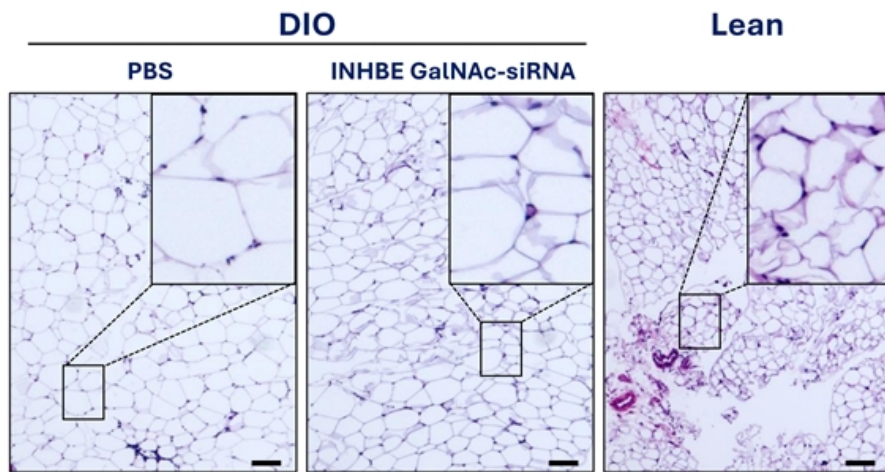
**WVE-007 aims to address a key limitation of current standard of care:
up to 40% of weight loss is driven by muscle loss**



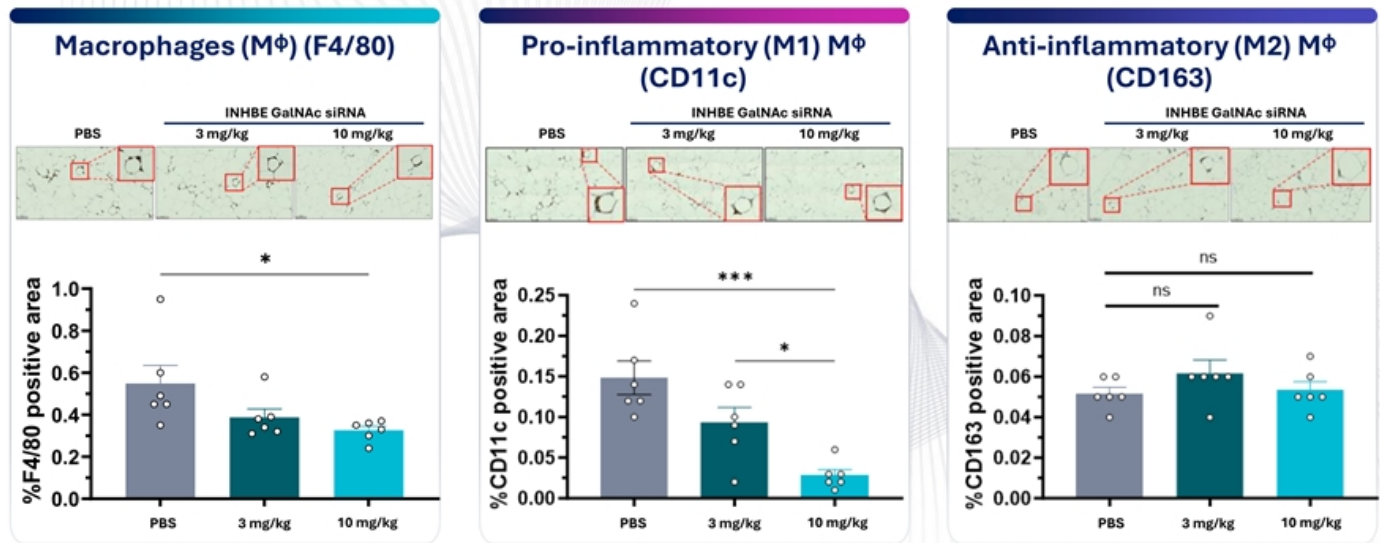
Preservation of muscle mass is linked to many health benefits

- Higher basal metabolic rate (BMR)¹
- Improved insulin sensitivity^{2,3}
- Increased caloric expenditure post-exercise¹
- Preserve muscle strength and function⁴
- Reduced visceral fat^{5,6}
- Prevent weight regain^{7,8}
- Improved glucose homeostasis^{2,3}
- Increased bone density, strength, function, and longevity^{9,10}

A single dose of INHBE GalNAc-siRNA led to shrinkage of adipocytes in DIO mice

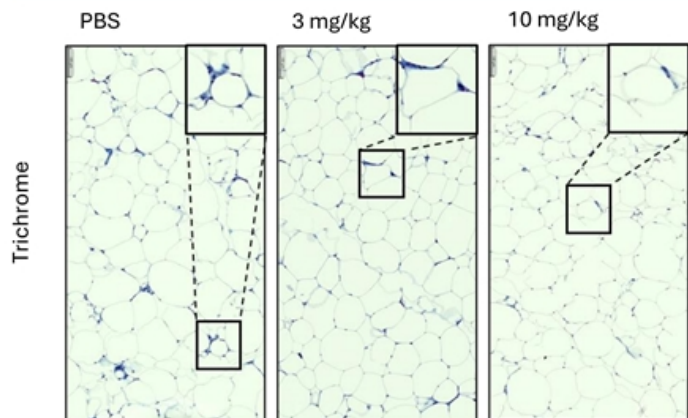


A single dose of INHBE siRNA led to a lower inflammatory state of visceral adipose tissues in DIO mice, with strong suppression of pro-inflammatory M1 macrophages in visceral fat

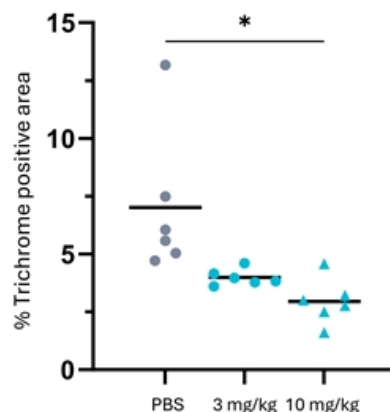


Lowering of inflammatory state of epiWAT visceral fat induced by single dose of INHBE siRNA resulted in 58% reduction of adipose fibrosis

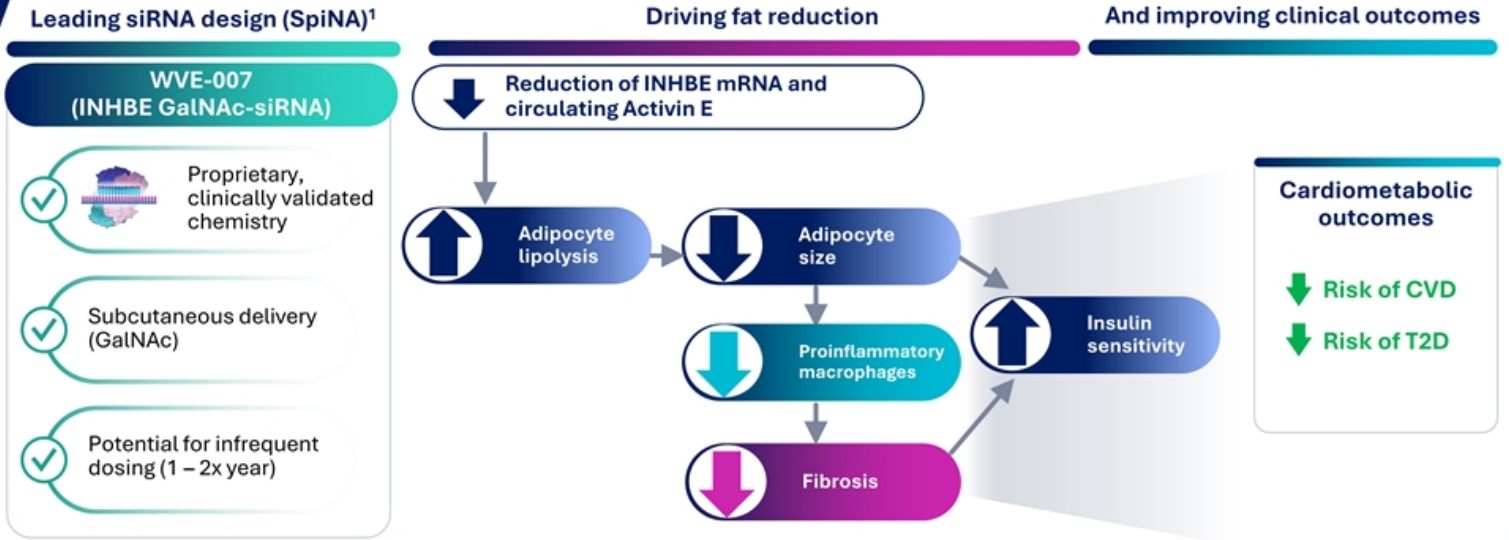
Reduced staining illustrates decreased tissue fibrosis



Fibrosis in mouse adipose (Day 56)



Treatment with WVE-007 (investigational INHBE GalNAc-siRNA) is expected to drive fat reduction and improve key measures of cardiometabolic health

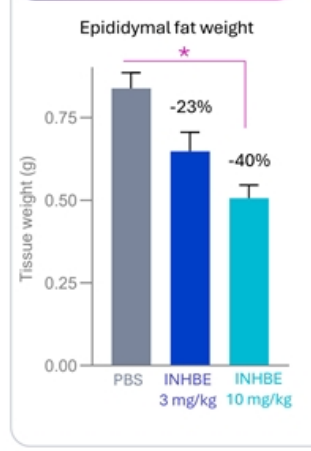


Single dose of INHBE GalNac-siRNA led to durable Activin E reductions, and sustained improvements in body composition in DIO mice

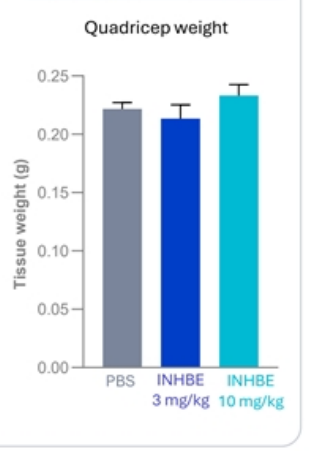
✓ Durable Activin E reduction



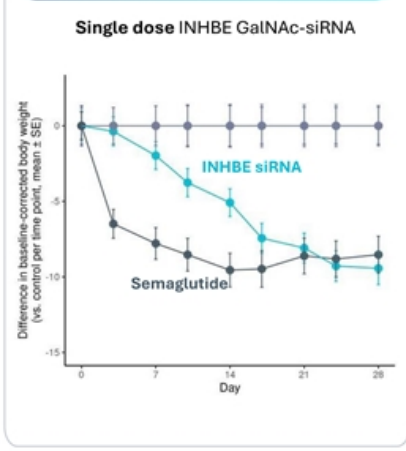
✓ Reduction in fat



✓ Muscle preservation



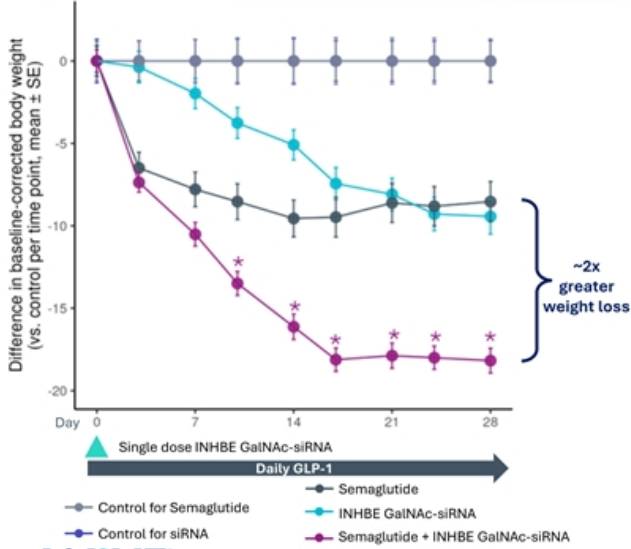
✓ Reduction in body weight



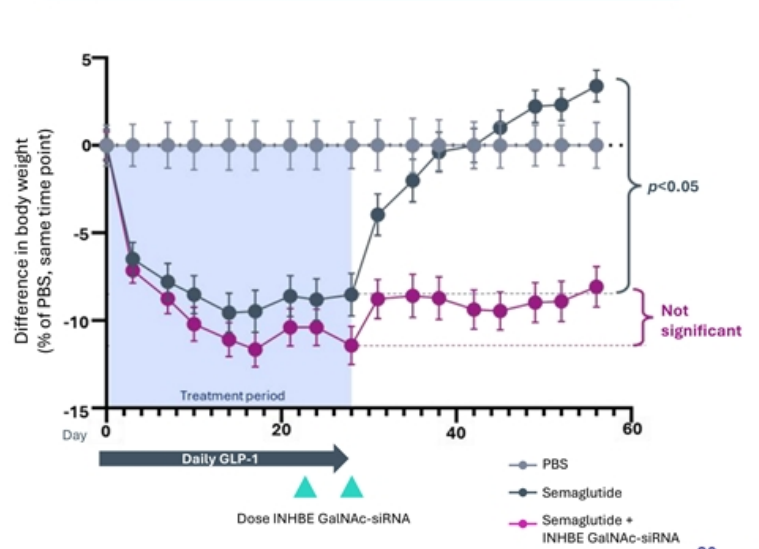
Left and right panels: Semaglutide 10 nmol/kg daily SC in mouse is equivalent to therapeutic dose of 2.4mg weekly SC in human; INHBE GalNac-siRNA 10 mg/kg dose. All data from preclinical studies were conducted in mice fed with 60% high fat diet. Linear Mixed Effects ANOVA with post hoc comparisons of marginal treatment effects vs. PBS per tissue. * p < 0.05

WVE-007 has potential for use synergistically with GLP-1s or to curtail weight regain after the cessation of treatment with GLP-1, based on preclinical data

✓ Combined with GLP-1: Greater weight loss

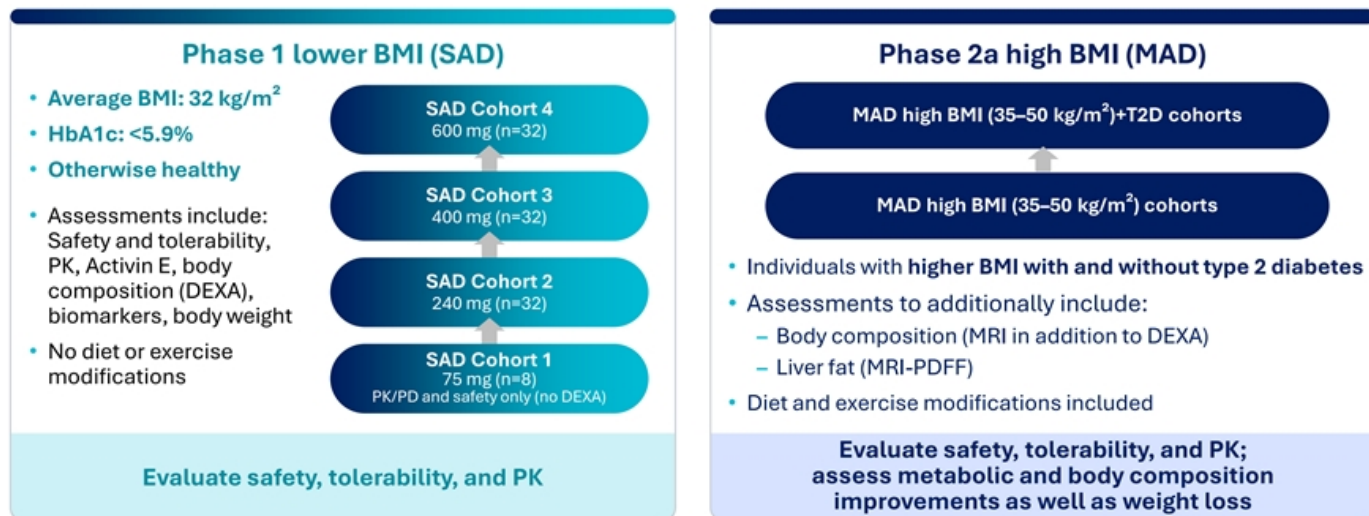


✓ After cessation of GLP-1: Curtails weight regain



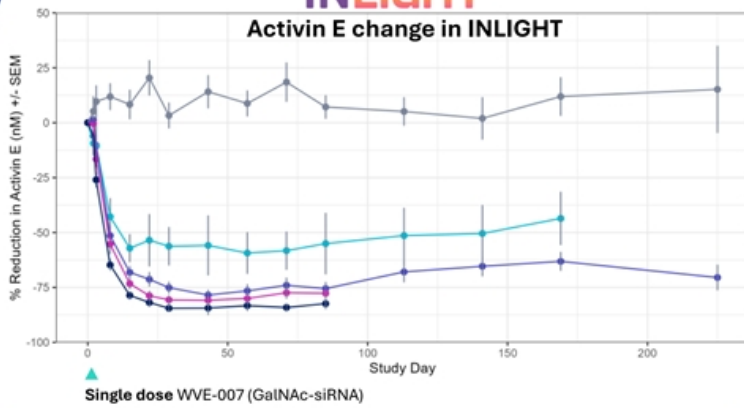
Data from preclinical studies conducted in mice fed with 60% high fat diet; Left: semaglutide 10 nmol/kg daily SC in mouse is equivalent to therapeutic dose of 2.4mg weekly SC in human. Left Stats: Linear Mixed Effects ANOVA with post hoc comparisons of marginal treatment effects of Semaglutide vs. Semaglutide + INHBE GalNAc-siRNA per time point * $p < 0.05$; Right Stats: Linear Mixed Effects ANOVA with post hoc comparison of Day 28 vs. Day 56 marginal effects per treatment

Phase 1 portion of INLIGHT trial is investigating WVE-007 in individuals living with overweight or obesity, otherwise healthy



SAD: single-ascending dose; MAD: multi-ascending dose; PK: pharmacokinetics. Average BMI of 75 mg, 240 mg, and 400 mg cohorts.

Clinically meaningful improvements in body composition at six months following a single dose of WVE-007



Phase 1 otherwise healthy (SAD)
Lower BMI of ~32 kg/m²

Improved body composition six months following single 240 mg dose:

- Significant reduction in **visceral fat** (-14%*)
 - Reduction in **waist circumference** (-3%)
 - Reduction in **total fat** (-5%)
 - Stabilization of **lean mass** (+2%)
 - Reduction in **body weight** (-1%)
- 400 mg three-month data emphasize impact of baseline body composition on therapeutic effect
 - **Durable and dose-dependent** suppression of Activin E sustained through at least 7 months continues to support **1-2x yearly dosing**
 - **Generally safe and well tolerated**

Durability of suppression continues to support dosing WVE-007 once or twice per year



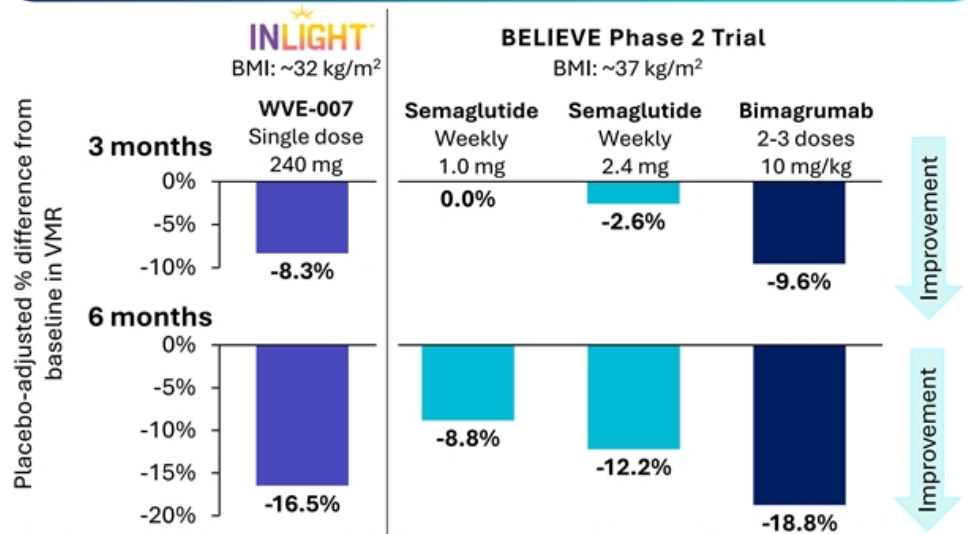
INLIGHT Interim Phase 1 data reported March 26, 2026; Left: figure shows sample means and SEMs. All MMRM baseline and placebo comparisons from Day 8 onwards are p<0.003. Right: *p<0.05. All reductions are placebo-adjusted % change from baseline were estimated using an MMRM model with fixed effects for treatment group, visit, treatment-by-visit interaction, and baseline as a covariate; estimates were based on geometric mean ratios.

Single dose of WVE-007 in a lower BMI population led to greater improvement in body composition by VMR versus semaglutide

Visceral Fat-to-Muscle Ratio (VMR)

- Established measure of body composition integrating harmful visceral fat and beneficial lean mass in a single index
- Lower VMR is associated with decreased risk of MASH / MAFLD,^{1,2} type 2 diabetes,³ and cardiometabolic disorders (e.g., dyslipidemia, hypertension)^{1,3}

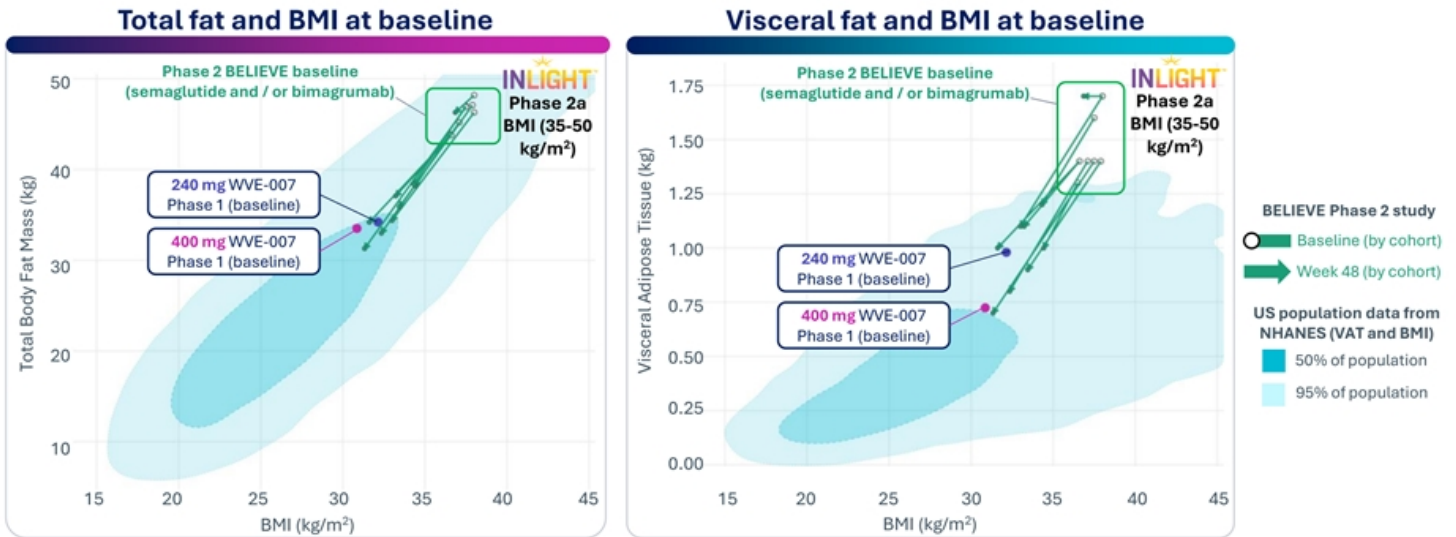
Improvement in body composition by VMR at 3 months and 6 months⁴



1. Zhang S, et al. 2023 *Diabetes Metab Res Rev.* 39(2):e3597; 2. Liu C, et al. 2024 *Lipids Health Dis.* 23(1):104; 3. Wang Q, et al. 2019 *Diabetes Metab Syndr Obes.* 12:1399-1407. 4. Placebo-corrected VMR calculated based on changes from baseline in visceral fat and lean mass at 3 and 6 mo. For BELIEVE, values are from Heymsfield SB, et al. 2026 *Nat Med* 32, 869-882.

Note: The data presented above are derived from different clinical trials with differences in trial design and patient population, including with respect to BMI. As a result, cross-trial comparisons cannot be made and no head-to-head clinical trials have been conducted.

INLIGHT Phase 2a: higher BMI population aligns with Phase 2 and 3 obesity trials, potential for continued improvements in body composition

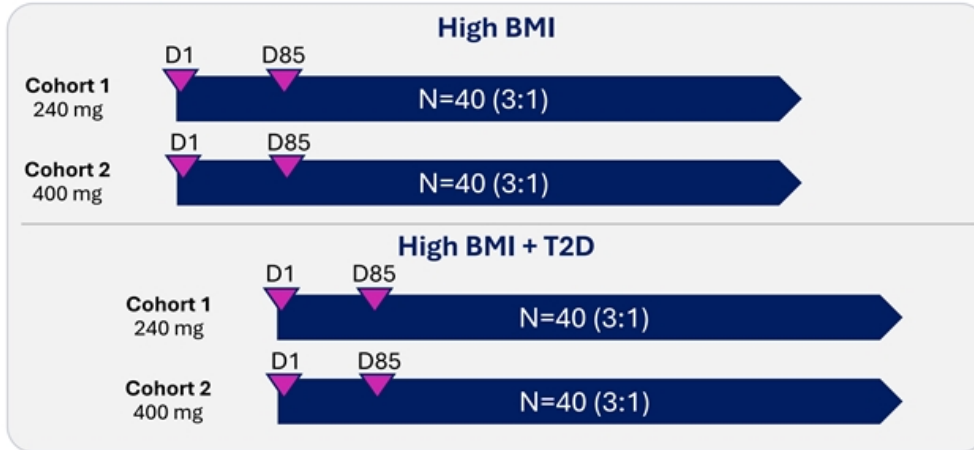


Expect greater fat loss in INLIGHT Phase 2a in participants with more excess fat



NHANES population reference: Adults aged 20–59 with valid DXA-derived visceral adipose tissue measurements, pooled across 2011–2018 survey cycles (n = 11,934). VAT mass (kg) estimated from DXA (Hologic); BMI from measured height and weight. Contours represent 2D kernel density estimates of the cross-sectional population distribution. Clinical trial data overlaid as change from baseline within the NHANES VAT–BMI coordinate space. BELIEVE data points from Heymsfield SB, et al. 2026 *Nat Med* 32, 869–882.

High BMI Phase 2a (MAD) global, placebo-controlled study will inform further development in obesity, as well as MASH, type 2 diabetes, and CVD



- Individuals with **higher BMI** (35–50 kg/m²) and **comorbidities**
- Assessments include:
 - Body weight
 - Body composition (MRI in addition to DEXA)
 - Liver fat (MRI-PDFF)
 - HbA1c, lipid levels, CRP
 - Muscle function
- Diet and exercise modifications included
- 12-month study duration
 - First assessment Day 85 (3 months)

Expect to initiate high BMI Phase 2a (MAD) portion of INLIGHT in 2Q 2026



SAD: single-ascending dose; MAD: multi-ascending dose; PK: pharmacokinetics; MASH: metabolic dysfunction-associated steatohepatitis; CVD: cardiovascular disease

On track to initiate the Phase 2a portion of INLIGHT in 2Q 2026; combination and maintenance studies of WVE-007 expected to initiate in 2026

Monotherapy

Single agent in individuals living with obesity



- To induce fat loss with muscle preservation and favorable safety and tolerability

Combination

Add-on to incretin treatments

- To leverage an orthogonal mechanism to incretins for enhanced efficacy

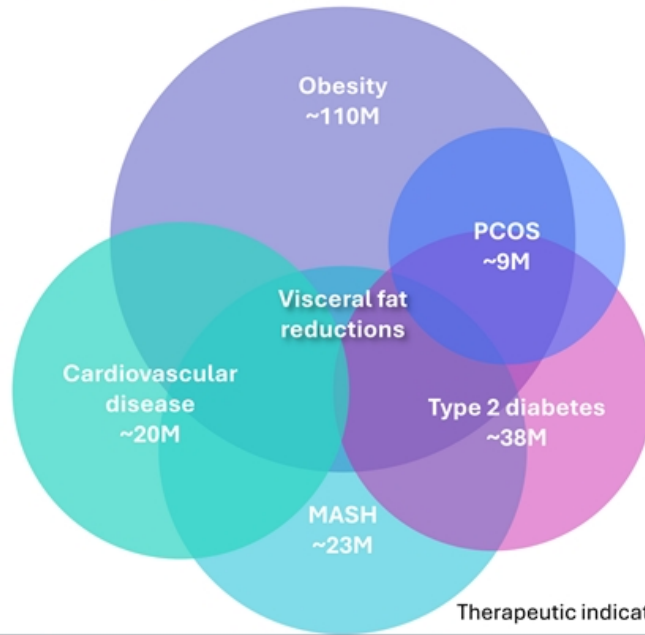
Maintenance

An off-ramp post-incretin treatments

- To prevent weight regain and maintain metabolic improvements upon incretin cessation

Potential to address more than one billion individuals with obesity globally

INHBE silencing provides opportunity to address additional significant indications through lowering of visceral fat



WVE-006
RNA editing (AIMer)

Alpha-1 antitrypsin deficiency (AATD)

AATD impacts multiple organ systems and has limited treatment options

- AATD is a rare, inherited genetic disorder that is commonly caused by a G-to-A point mutation in the SERPINA1 gene
- Pi*ZZ genotype is leading cause of severe AATD, predisposing to progressive lung damage, liver damage or both
- Aggregation of mutant Z-AAT protein in hepatocytes and a lack of functional, wild-type M-AAT drives liver and lung disease, respectively

AATD Lung Disease

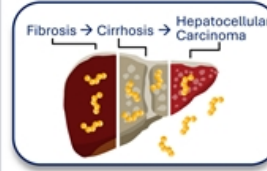


- **Treatment goal:** Minimize episodic exacerbations and associated damage
- Lung damage occurs during exacerbations that induce an inflammatory acute phase response, when more AAT protein is needed for protection

- **Weekly IV augmentation therapy is only treatment option**

- No protective increase in AAT protein levels during acute phase response without additional IV infusions

AATD Liver Disease



- **Treatment goal:** Decrease Z-AAT protein
- Progressive liver disease results from Z-AAT-induced proteotoxic stress

- **No approved therapies**

~200K people in the US and Europe are homozygous for the Z allele (Pi*ZZ genotype)

WVE-006: Potential first-in-class, convenient therapy for AATD that addresses both liver and lung manifestations of the disease



WVE-006 (RNA editing)

- ✓ Proprietary chemistry
- ✓ Highly specific (no bystanders)
- ✓ Subcutaneous delivery (GalNAc)
- ✓ Infrequent dosing



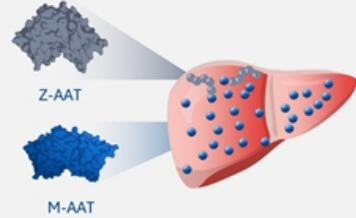
Restore circulating M-AAT and physiological AAT protein production



M-AAT reaches lungs to protect from proteases and **reduce risk of lung pathology**



Reduce Z-AAT protein aggregation in liver



RNA correction replaces mutant Z-AAT protein with wild-type M-AAT protein to **reduce risk of liver pathology**

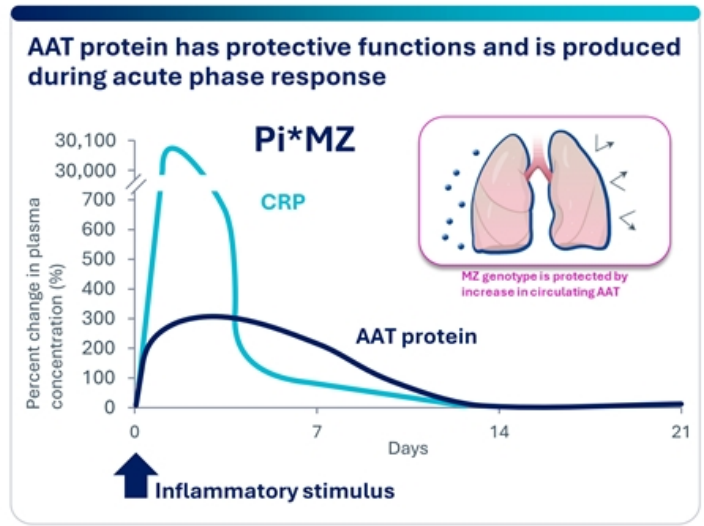
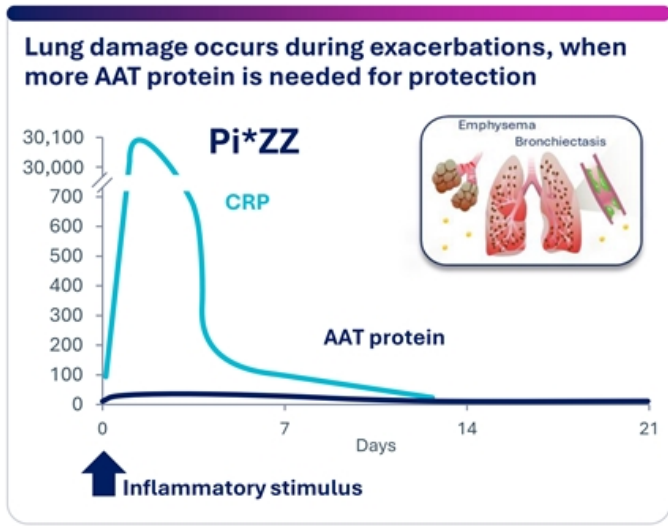
RNA editing aims to increase M-AAT and restore physiological AAT production during acute phase response

Genotype	Null No AAT protein	Pi*ZZ 100% Z-AAT	Pi*MZ Z-AAT and M-AAT	Pi*MM 100% M-AAT
AAT levels increase during acute phase response	No	No	Yes	Yes
Risk of lung disease	Very high	High	Low	Normal
Risk of liver disease	None	High	Low	Normal

>50% RNA editing
>11 μM AAT

Goal: Shift Pi*ZZ individuals to AAT biomarker profile consistent with Pi*MZ genotype

RNA editing aims to restore production of dynamic and therapeutically relevant levels of AAT protein in Pi*ZZ individuals during acute phase response

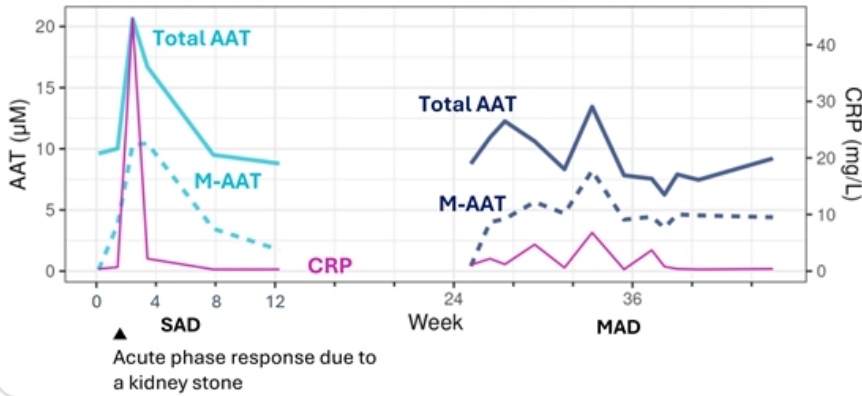


RNA editing has potential to restore dynamic AAT response to inflammation

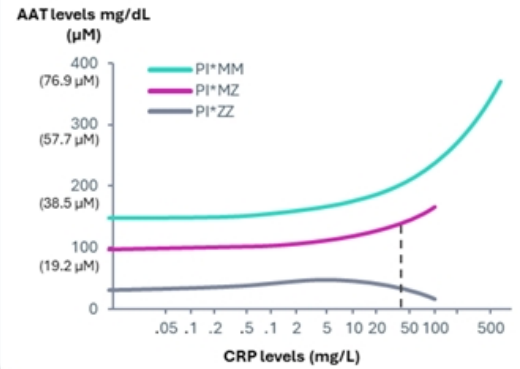
First-ever demonstration of ability to restore physiological serum AAT production; total AAT reached 20.6 μM during acute phase response

Pi*ZZ patients have a reduced capacity to produce AAT protein during an acute phase response

Following WVE-006 200 mg single dose, total AAT and M-AAT increased significantly in one patient during an acute phase response



Published data¹ on CRP levels and AAT levels across different genotypes



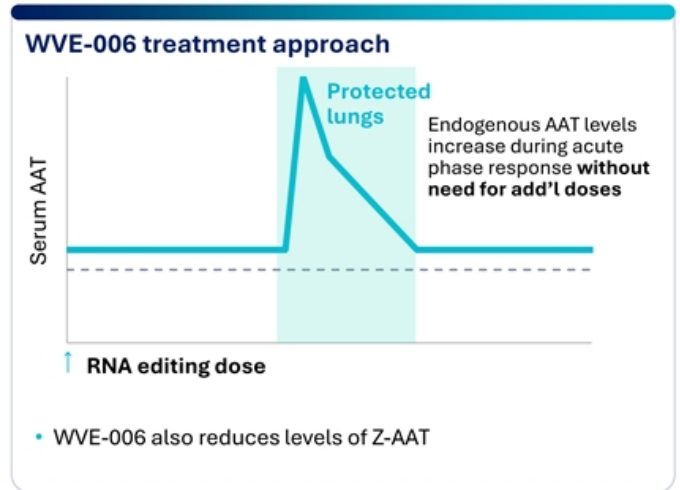
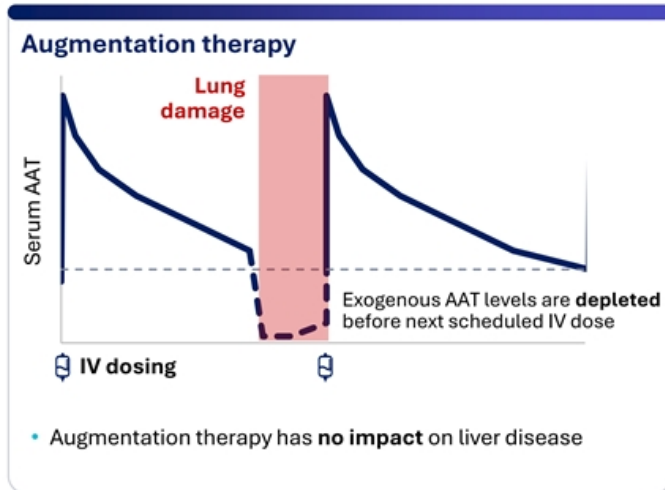
AAT response in Pi*ZZ participant treated with WVE-006 mirrors Pi*MZ phenotype



1 - Sanders et al., J COPD, 2018 CRP: C-reactive protein
Circulating M-AAT, Z-AAT, and total (M + Z) AAT protein in the serum were measured by highly selective and sensitive LC-MS/MS assays (LLOQ: 0.096 μM (M), 0.029 μM (Z)) and reported as mean participant SAD and MAD maximums

WVE-006 enables endogenous AAT production during an acute phase response while augmentation therapy may leave patients at risk

Illustrative model of impact of acute phase response



WVE-006 therapeutic goal is to restore dynamic AAT physiology; augmentation therapy goal is to maximize AAT levels as dynamic response is not enabled

WVE-006 achieved key treatment goals of restoring MZ phenotype

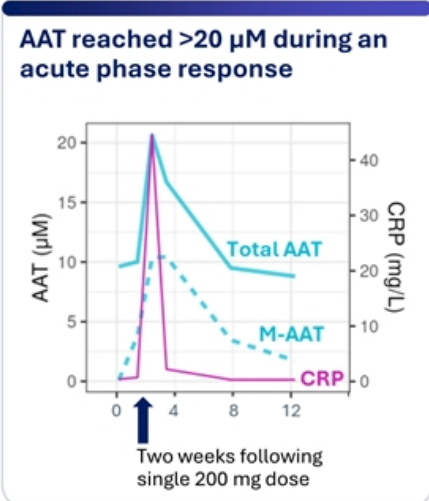
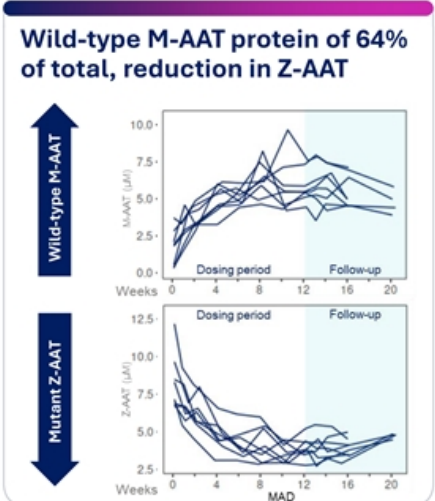
Total AAT levels exceeded 11 μM , production of wild-type M-AAT of greater than 50%, restored physiological AAT production

Plasma AAT of ~13 μM

- Protein levels associated with lower risk of AATD liver and lung diseases

400 mg single dose
12.8 μM total AAT

200 mg bi-weekly
11.9 μM total AAT



400 mg monthly and 600 mg single dose data expected in May 2026



Circulating M-AAT, Z-AAT, and total (M + Z) AAT protein in the serum were measured by highly selective and sensitive LC-MS/MS assays (LLOQ: 0.096 μM (M), 0.029 μM (Z)) and reported as mean participant SAD and MAD maximums. Middle: from 200 mg MAD cohort; Right: from 200 mg SAD cohort.

RestorAATion-2 clinical trial ongoing



SAD → MAD Multi-dosing complete



Study key objectives		
Safety and tolerability	Pharmacokinetics	Serum M-AAT levels



HV: healthy volunteer; SAD: single-ascending dose; MAD: multi-ascending dose

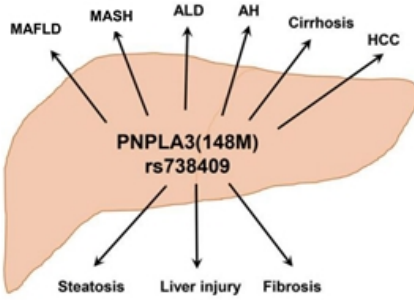
WVE-008
RNA editing (AIMer)

PNPLA3 I148M liver disease

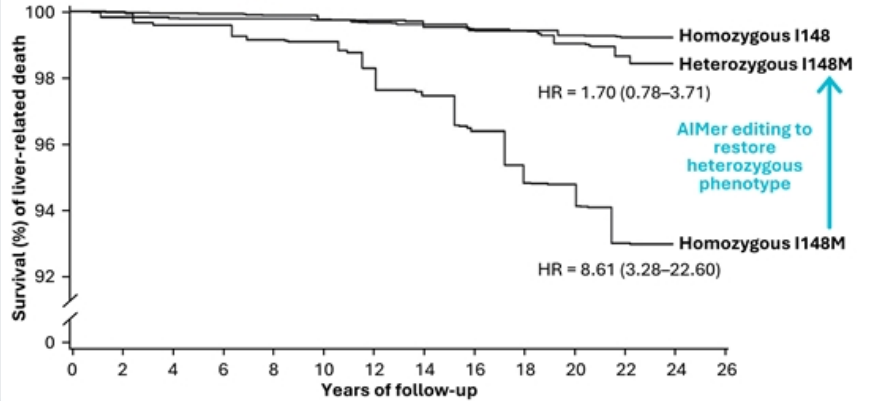
WVE-008 for PNPLA3 I148M liver disease

GalNAc-RNA editing approach uniquely aims to restore PNPLA3 function to fully address disease

Homozygous PNPLA3 I148M carriers have significantly higher risk of multiple liver diseases



Heterozygous carriers have 80% lower risk of liver-related death as compared to homozygous carriers



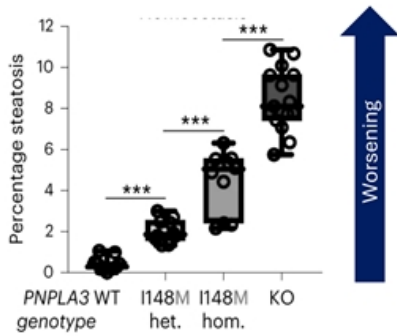
Over nine million homozygous PNPLA3 I148M patients with liver disease in US and Europe



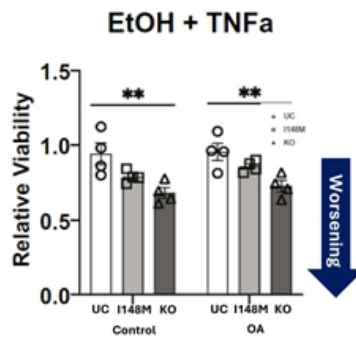
1. Carlsson, B., et al. 2020 *Aliment Pharmacol Ther.*; 2. Unalp-Arida and Ruhl 2020 *Hepatology*; 3. Dong, XC, 2019 *Front. Med.* 4. *Liver International*, 2025; 45:e16133
MAFLD, Metabolic dysfunction-associated fatty liver disease; MASH, Metabolic dysfunction-associated steatohepatitis; ALD, alcoholic liver disease; AH, Alcohol-associated hepatitis; HCC, hepatocellular carcinoma

Silencing of PNPLA3 in normal liver may worsen basal physiological functions

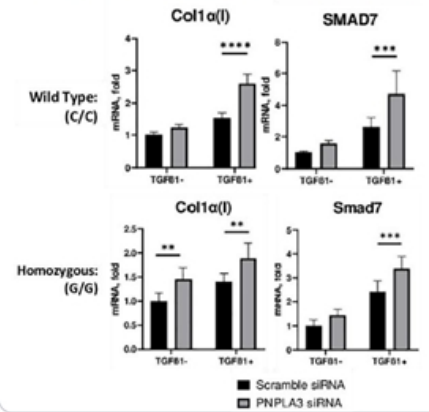
Silencing PNPLA3 worsens steatosis in iPSC-derived human liver organoids²



Silencing PNPLA3 increases inflammation-induced liver cell death in human primary hepatocytes³



PNPLA3 siRNA exacerbates the fibrotic response in hepatic stellate cells¹

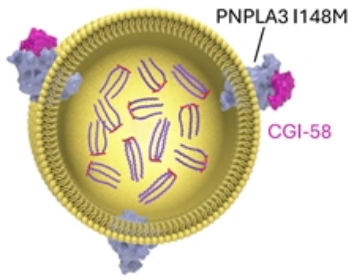


Functional PNPLA3 is imperative for liver health beyond improvements in steatosis

RNA editing is expected to restore PNPLA3 function to treat across the stages of liver diseases

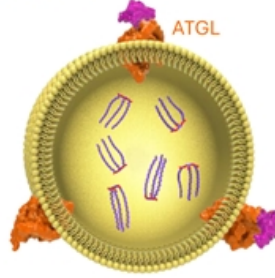
✓ RNA editing approach

PNPLA3 I148M aggravates steatosis and fibrosis through gain-of-function



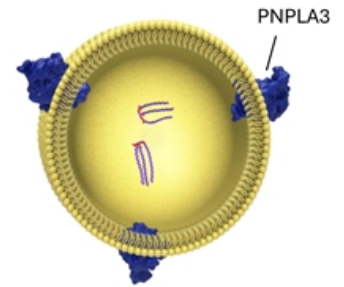
- PNPLA3 I148M accumulates on LDs, sequesters CGI-58, inhibits ATGL's lipase activity and lipid mobilization from ER
- Suppresses retinol metabolism in liver and worsens inflammation and fibrosis
- Promotes liver fat accumulation and fibrosis through activation of stellate cells

Silencing PNPLA3 may only partially address disease



- Creates PNPLA3 loss of function
- ATGL partial rescue for loss PNPLA3
- Silencing will not restore retinol metabolism
- **Fibrosis, ballooning, and inflammation persist**

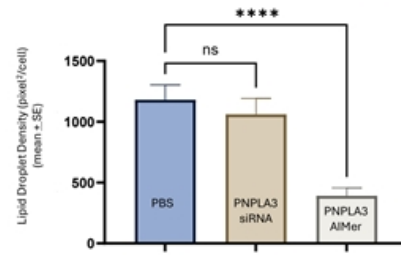
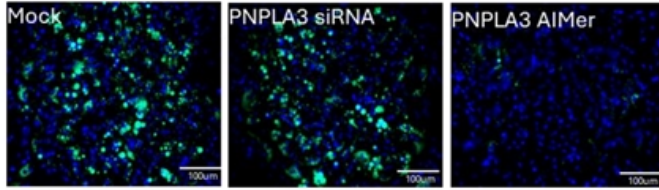
PNPLA3 correction expected to restore function, counter liver disease



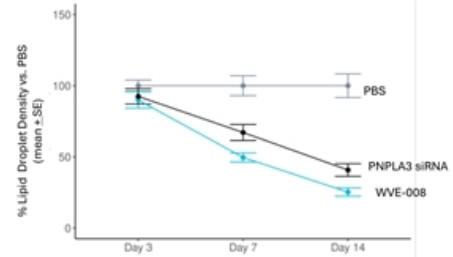
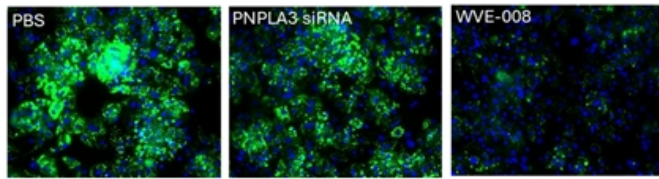
- Restores full PNPLA3 activity
- **Restores lipid mobilization, reverses steatosis, fibrosis, ballooning, and inflammation**

AIMers achieve efficient editing of PNPLA3, leading to reduction of liver fat

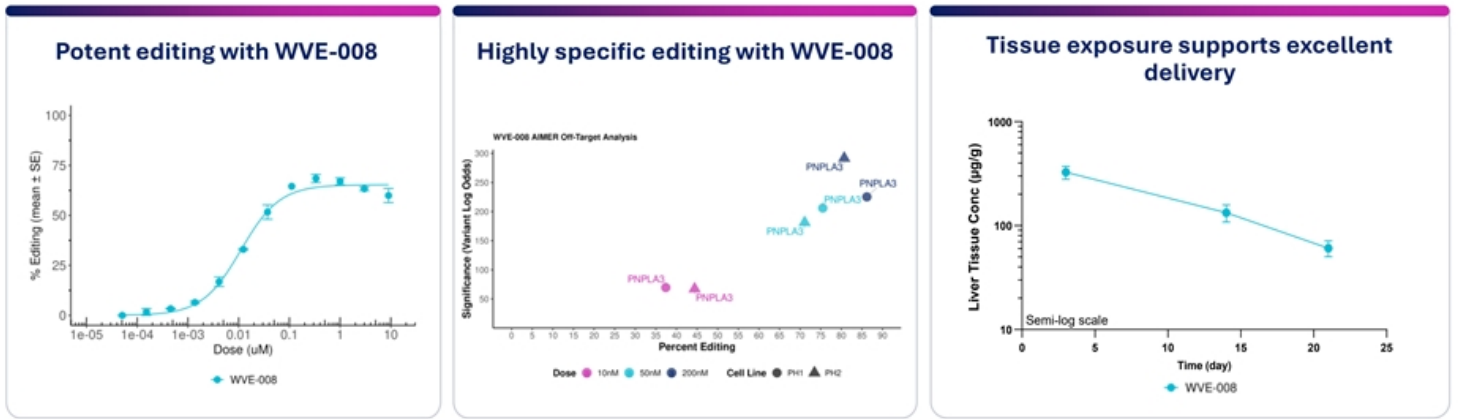
Significant decrease in liver fat with PNPLA3 editing in human HEPATOPAC® model with homozygous I148M



Decrease in liver fat with WVE-008 in monolayer model



Preclinical data support WVE-008 as potential first-in-class, disease modifying therapy, for treatment of PNPLA3 I148M liver disease



Expect to file Clinical Trial Application (CTA) for WVE-008 in 2026

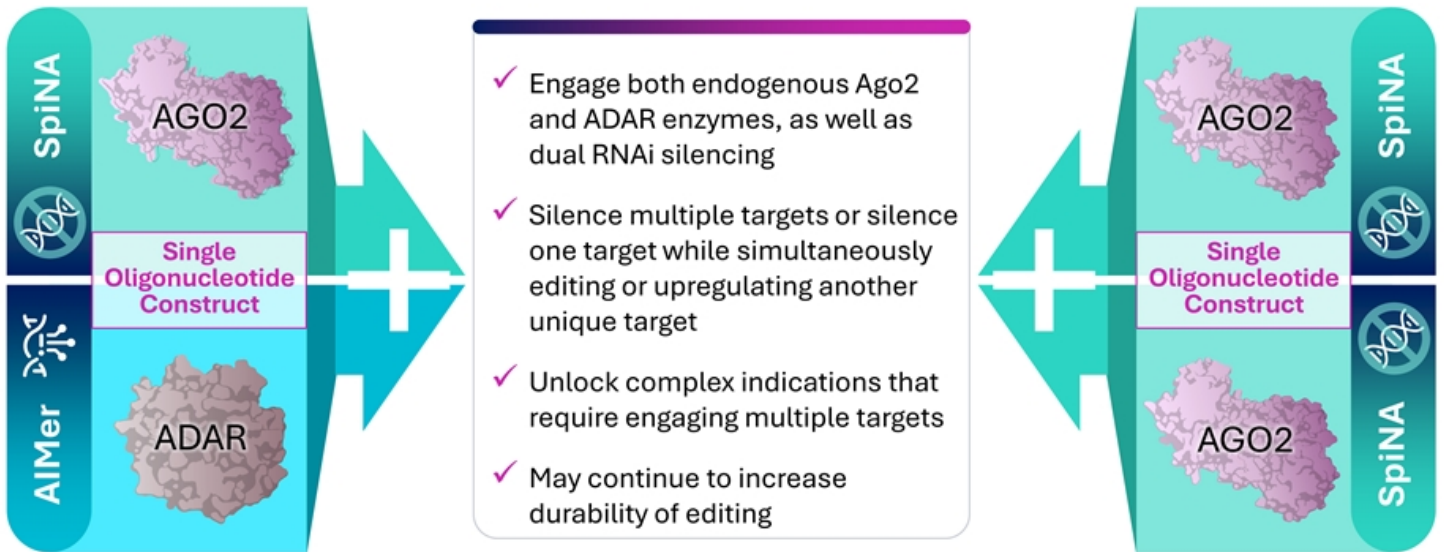


Left: 4-parameter log-logistic dose response curve; Middle: Analysis utilized RNA-sequencing with two separate primary human hepatocyte cell lines (PH1/2). Variant calling utilized GATK best practices for RNA variant calling using Mutect2 and display A->G evidence found when filtering for variants found in both cell lines and all doses.

Bifunctional modalities

Single oligonucleotide constructs

Reimagining RNA medicines: Bifunctional modalities



Other clinical programs

Duchenne muscular dystrophy

Advancing WVE-N531 in exon 53 amenable DMD

WVE-N531: exon skipping oligonucleotide designed to induce production of endogenous, functional dystrophin protein

- High unmet need for therapies delivering **more consistent dystrophin expression**, as few patients today achieve dystrophin >5% of normal
- **Opportunity to extend dosing intervals** beyond weekly standard of care to alleviate burden for patients and caregivers
- **Need to reach stem cells and distribute broadly to muscle tissues** to potentially enable muscle regeneration and impact respiratory and cardiac function
- WVE-N531 has Rare Pediatric Disease Designation and Orphan Drug Designation from FDA

DMD impacts ~1 / 5,000 newborn boys annually; ~20,000 new cases annually worldwide



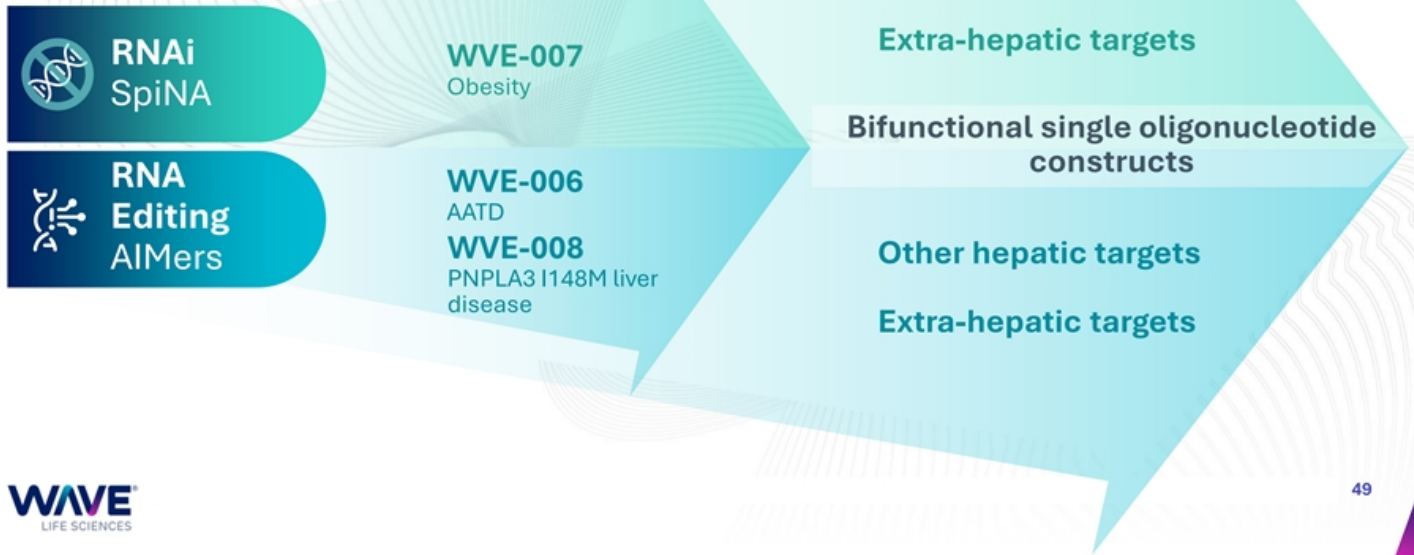
FORWARD-53 48-week clinical trial results: WVE-N531's potential best-in-class profile for boys amenable to exon 53 skipping

- ✓ Statistically significant and clinically meaningful improvement (3.8s) in Time-to-Rise vs. natural history; functional benefits on other measures including NSAA
- ✓ Statistically significant reductions in muscle fibrosis and CK; driven by decreases in inflammation and necrosis; transition from regenerative to mature muscle
- ✓ Consistent dystrophin expression averaged 7.8% between 24 and 48 weeks, with 88% of boys above 5% dystrophin; delivery to both myofibers and muscle stem cells
- ✓ WVE-N531 remains generally safe and well-tolerated with no Serious Adverse Events

NDA filing for accelerated approval with monthly dosing planned for 2026

Reimagining RNA medicines

Poised for significant and sustained growth driven by RNAi and RNA editing



Anticipated upcoming milestones

WVE-007 (INHBE) Obesity

- Deliver additional data from INLIGHT, including data from the 600 mg SAD cohort in 2026
- Initiate Phase 2a multidose portion of INLIGHT in individuals living with obesity with higher BMI with and without type 2 diabetes in 2Q 2026
- Combination and maintenance studies of WVE-007 expected to initiate in 2026



WVE-006 (SERPINA1) AATD

- Deliver data from 400 mg MAD cohort and 600 mg SAD cohort in May 2026
- Deliver multidose data from 600 mg cohort in 2H 2026
- Regulatory feedback on potential accelerated approval pathway expected mid-2026



WVE-008 PNPLA3 I148M liver disease

- File CTA for WVE-008 in 2026

WVE-N531 (exon 53) DMD

- Submit NDA to support accelerated approval of WVE-N531 with monthly dosing in 2026



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