



# Corporate Presentation

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May 2026

Nasdaq: IONS

# Forward-Looking Statements

This presentation includes forward-looking statements regarding our business, financial guidance and the therapeutic and commercial potential of our commercial medicines, additional medicines in development and technologies and our expectations regarding development and regulatory milestones. Any statement describing Ionis' goals, expectations, financial or other projections, intentions or beliefs is a forward-looking statement and should be considered an at-risk statement. Such statements are subject to certain risks and uncertainties including but not limited to those related to our commercial products and the medicines in our pipeline, and particularly those inherent in the process of discovering, developing and commercializing medicines that are safe and effective for use as human therapeutics, and in the endeavor of building a business around such medicines. Ionis' forward-looking statements also involve assumptions that, if they never materialize or prove correct, could cause its results to differ materially from those expressed or implied by such forward-looking statements. Although Ionis' forward-looking statements reflect the good faith judgment of its management, these statements are based only on facts and factors currently known by Ionis. Except as required by law, we undertake no obligation to update any forward-looking statements for any reason. As a result, you are cautioned not to rely on these forward-looking statements. These and other risks concerning Ionis' programs are described in additional detail in Ionis' annual report on our Form 10-K for the year ended December 31, 2025, and our most recent Form 10-Q quarterly filing, which are on file with the SEC. Copies of these and other documents are available at [www.ionis.com](http://www.ionis.com).

In this presentation, unless the context requires otherwise, "Ionis," "Company," "we," "our," and "us" refers to Ionis Pharmaceuticals and its subsidiaries.

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# Ionis: Pioneered the Field of Oligonucleotide Therapeutics

A Rich History  
**Discovering**  
and **Developing**  
Transformational  
RNA-Targeted  
**Medicines**



Created **Industry Leading Medicinal Chemistry** and **Manufacturing Capabilities**



**Optimized** and **Validated Delivery** to Liver and CNS for Human Therapeutics



**Optimized** and **Validated** Multiple Mechanisms of Action Including RNase H and Splicing



Led the Way in **Discovering** and **Developing First-in-Class Medicines** for Serious Diseases

# Well Positioned for Accelerating Growth



**Fully integrated**, commercial-stage biotechnology company



**Groundbreaking technology** fueling **high-value innovative pipeline**



**Consistently delivering breakthrough clinical results** enabling **highly successful commercial launches**<sup>1,2</sup>



Clear path to **accelerating revenue growth, sustained positive cash flow** and **substantial value creation**<sup>2</sup>



Eli (with family member)  
living with FCS

1. Assuming approval. 2. Based on current timing assumptions, subject to change.

# Delivering Transformational Medicines in Focused Therapeutic Areas



## Cardiometabolic

First- or best-in-class medicines that target cardiometabolic diseases, the leading causes of death globally

Rare and prevalent  
patient populations  
in focused disease  
areas



## Neurology

First- or best-in-class medicines to address a broad range of diseases with high unmet need

Potential for Multiple Blockbusters<sup>1</sup>

# Strong Track Record of Industry-Leading Success<sup>1-4</sup>

## Key Recent Achievements

6

Positive Phase 3  
Data Readouts



4

Approved  
Medicines

 Tryngolza®  
(olezarsen) 80 mg  
injection

 DAWNZERA™  
(donidalorsen) 80 mg/0.8 mL  
injection

 WAINUA®  
(eplintersen) 45 mg  
injection for subcutaneous use

 QALSODY.  
(tofersen) 100 mg/15 mL  
injection

2

Independent  
Launches

 Tryngolza®  
(olezarsen) 80 mg  
injection

 DAWNZERA™  
(donidalorsen) 80 mg/0.8 mL  
injection

11

Medicines in  
Late-Stage Development

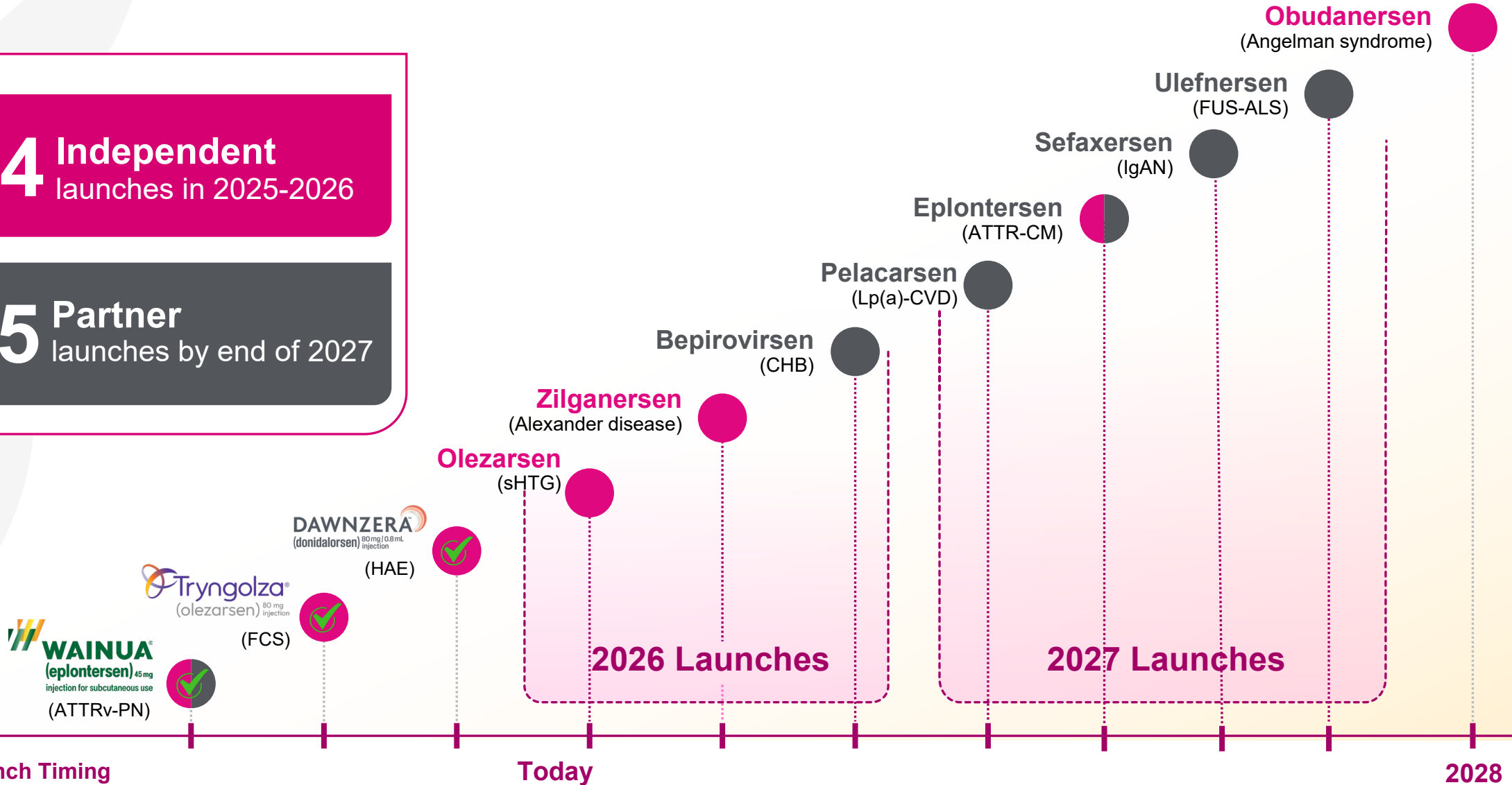


1. TRYNGOLZA is approved in the U.S. for Familial Chylomicronemia Syndrome (FCS) in adults as an adjunct to diet; see [Full Prescribing Information](#); Approved in the EU as an adjunct to diet in adult patients for the treatment of genetically confirmed FCS. 2. DAWNZERA is approved in the U.S. for hereditary angioedema in adults and pediatric patients 12 years of age and older; see [Full Prescribing Information](#). 3. QALSODY.com. 4. WAINUA.com.

# Delivering a Steady Cadence of New Medicines<sup>1,2</sup>

4 Independent launches in 2025-2026

5 Partner launches by end of 2027



1. Assuming approval. 2. Based on current timing assumptions, subject to change.

# 2026 Key Value-Driving Events<sup>1</sup>

## Clinical Events

### Phase 3

✓ **Bepirovirsen**  
B-Well data  
(CHB)

**Pelacarsen**  
Lp(a) HORIZON data  
(Lp(a)-CVD)

**Eplontersen**  
CARDIO-TTRansform data  
(ATTR-CM)

**Ulefnersen**  
FUSION data  
(FUS-ALS)

**Sefaxersen**  
IMAGINATION data  
(IgAN)

**Sapablursen**  
Phase 3 initiation  
(PV)

**Obudanersen**  
Enrollment completion  
(Angelman syndrome)

✓ **Salanersen**  
Phase 3 initiation  
(SMA)

### Phase 2

**IONIS-MAPT<sub>Rx</sub>**  
CELIA data  
(Alzheimer's disease)

**Tominersen**  
GENERATION HD2 data  
(Huntington's disease)

✓ **Tonlamarsen**  
Phase 2 data  
(Uncontrolled hypertension)

## Regulatory Actions

**Donidalorsen**  
✓ EU approval  
(HAE)

**Olezarsen**  
U.S. approval  
✓ EU submission  
(sHTG)

✓ **Zilganersen**  
U.S. submission  
U.S. approval  
(AxD)

### High Dose Nusinersen

✓ U.S. approval  
✓ EU approval  
(SMA)

**Bepirovirsen**  
✓ Submission  
Approval  
(CHB)

**Pelacarsen**  
U.S. submission  
(Lp(a)-CVD)

**Eplontersen**  
U.S. submission  
(ATTR-CM)

## Product Launches

✓ **DAWNZERA**  
EU  
(HAE)

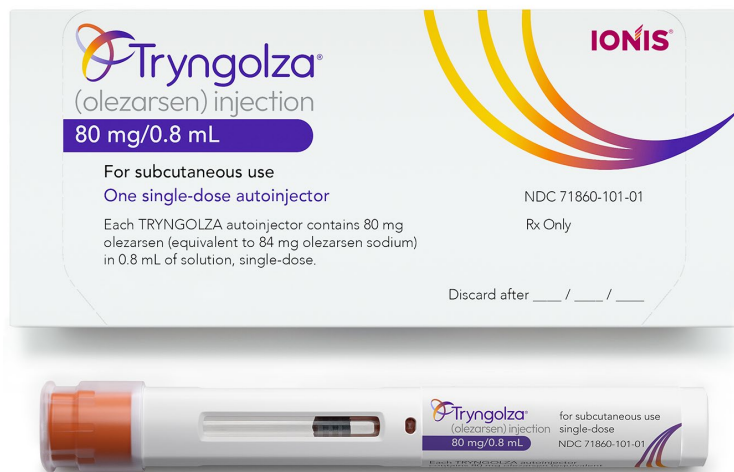
**Olezarsen**  
U.S.  
(sHTG)

**Zilganersen**  
U.S.  
(Alexander disease)

**Bepirovirsen**  
U.S. & Japan  
(CHB)

1. Timing expectations are based on current assumptions and are subject to change, timing of partnered program catalysts based on partners' most recent publicly available disclosures. Green checkmark indicates event was achieved.

# Focused Commercial Execution Building Sustainable TRYNGOLZA Demand<sup>1</sup>



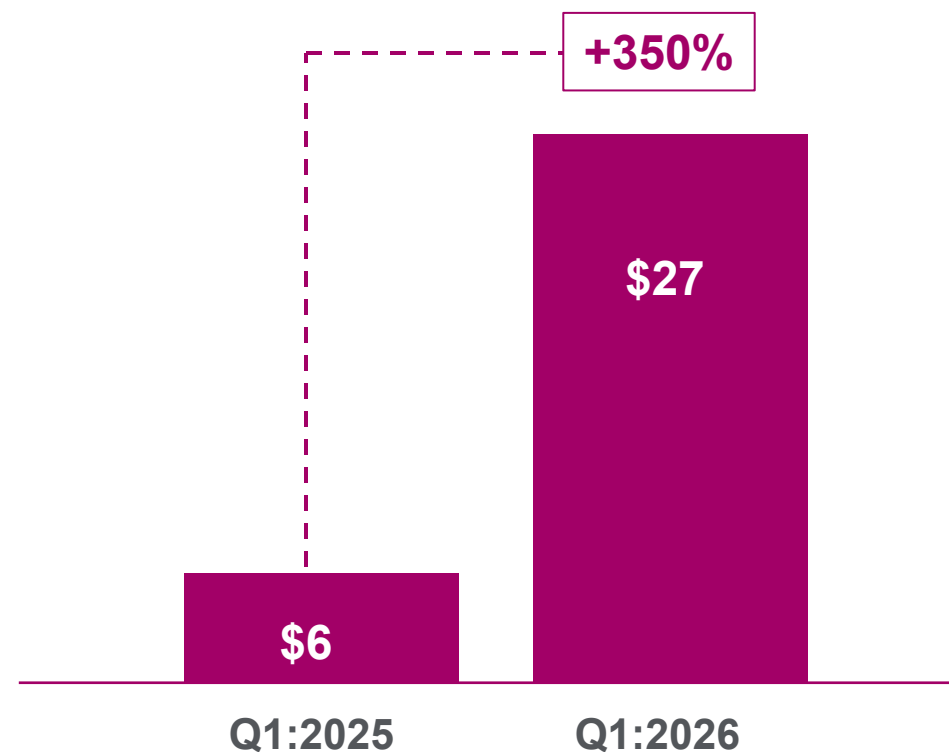
## Robust efficacy and safety

- Significant and sustained triglyceride reductions
- Substantial reduction in acute pancreatitis events

**Convenience of once-monthly self-administration with an autoinjector**

**EU launch underway<sup>2</sup>**

**Generated \$27 million in Q1:2026**



*TRYNGOLZA, U.S. Product Sales, net (millions)*

1. TRYNGOLZA is approved in the U.S. for Familial Chylomicronemia Syndrome in adults as an adjunct to diet; see [Full Prescribing Information](#). 2. Approved in the EU as an adjunct to diet in adult patients for the treatment of genetically confirmed familial chylomicronemia syndrome (FCS).

# Strong Commercial Execution and Compelling Product Profile Driving Increasing TRYNGOLZA Demand<sup>1,2</sup>



## Strong Uptake

Effective patient identification efforts; strong patient growth

No meaningful impact on cancellations or discontinuation rates following new market entrant

Breadth and depth of unique physicians prescribing TRYNGOLZA growing



## Robust Physician Engagement

Targeting ~20k physicians with expanded field team

Leveraging omnichannel capabilities to reach >30k HCPs

TRYNGOLZA awareness gaining traction

High satisfaction with prescribing experience and overall TRYNGOLZA profile



## Broad Patient Access

Broad FCS access and coverage

Effectively managed evolving pricing dynamics in Q1

Coverage split: ~60% commercial, ~40% government

>90% of patients had \$0 out-of-pocket costs in commercial setting

# Olezarsen: Poised to Become Ionis' First Multi-Billion Dollar Medicine



## >3 million people with sHTG in the U.S.<sup>1</sup>

- Includes >1 million people with high-risk sHTG<sup>1</sup>
- Early launch focus on high-risk sHTG with >880 mg/dL or ≥500 mg/dL + AP history and/or comorbidities



- **Highly statistically significant** and **clinically meaningful** reductions in fasting **triglycerides**<sup>2</sup>
- **First and only** investigational treatment to **significantly reduce acute pancreatitis** events in **people with sHTG**<sup>2</sup>



**Simplicity** of **monthly self-administration** with a patient-friendly **autoinjector**



- **First mover** advantage
- Full field team **deployed**
- **Granted Priority Review**; PDUFA June 30, 2026

## Annual Peak Product Revenue Opportunity<sup>3</sup>

Increased to

**>\$3B**

—  
(Previous: >\$2B)

**Vast Majority  
of Patients  
Treated with  
Olezarsen  
Achieved  
Triglyceride  
Levels Below  
Risk Threshold  
for Acute  
Pancreatitis<sup>2</sup>**

**Achieved Highly Statistically  
Significant Reductions in Fasting  
Triglycerides at 6 Months**

Up to a **72%**

placebo-adjusted mean reduction in fasting triglycerides<sup>1</sup>

( $p < 0.0001$ )

**86%**

achieved TG  
levels **below**  
500 mg/dL<sup>2</sup>

Up to  
**54%**

achieved  
**normal TG**  
levels  
( $\leq 150$  mg/dL)<sup>2</sup>

1. *The New England Journal of Medicine*, "Olezarsen for Managing Severe Hypertriglyceridemia and Pancreatitis Risk." Marston, et al. 2. Achievement of triglyceride levels  $< 150$  mg/dL,  $< 500$  mg/dL and  $< 880$  mg/dL at 12 months among patients with baseline levels above these thresholds and available triglyceride levels at month 12 in CORE and CORE2 pooled.

# Olezarsen: The First & Only Investigational Treatment to Significantly Reduce Acute Pancreatitis Events in People with sHTG<sup>1</sup>

Achieved Highly Statistically Significant Reduction in Adjudicated Acute Pancreatitis Events

# 85%

Reduction in acute pancreatitis events compared to placebo at 12 months<sup>1</sup>

( $p=0.0002$ )

Number Needed to Treat (NNT) over *Just 1 Year*

# 20

in the **overall** treatment population<sup>2</sup>

# 4

for those with baseline TGs **≥880 mg/dL** and **history of AP<sup>2</sup>**

1. *The New England Journal of Medicine*, "Olezarsen for Managing Severe Hypertriglyceridemia and Pancreatitis Risk." Marston, et al. 2. Using the mean rates from the binomial regression model, the number of patients needed to treat over one year to prevent one episode of acute pancreatitis was 25 in the overall treatment population (pooled analysis across both doses and studies).

# Olezarsen in sHTG: Launch Readiness and a Larger Opportunity



## Groundbreaking Pivotal sHTG Results<sup>1</sup>

Highly statistically significant and clinically meaningful reductions in fasting triglycerides

First and only investigational treatment to significantly reduce acute pancreatitis events in people with sHTG



## Robust HCP Demand

Strong enthusiasm for olezarsen and its potential to address the unmet needs of people with sHTG



## Payer Engagement

Educating on clinical and economic burden of disease and associated budget impact

Maximizing value with broad access

Updated WAC price effective April 1, 2026

# Building a Leading Cardiometabolic Pipeline<sup>1,2</sup>

2

Wholly Owned Medicines in Clinical Development



4

Partnered Medicines in Clinical Development

6

Medicines in Clinical Development

## Wholly Owned Medicines

	Indication	Preclinical	Ph1	Ph2	Ph3
<b>Olezarsen</b> (ApoC-III)	sHTG	sNDA accepted with Priority Review			
<b>ION775</b> (ApoC-III)	sHTG				
<b>ION501</b> (undisclosed)	Myocardial disease	(TfR1-Targeting)			
<b>ION924</b> (Apo(a))	Cardiovascular disease				
<b>ION573</b> (undisclosed)	Cardiovascular disease				

## Partnered Medicines

<b>Eplontersen</b> (TTR) <sup>3</sup>	ATTR-CM				
<b>Pelacarsen</b> (Apo(a))	Cardiovascular disease				
<b>Tonlamarsen</b> (Angiotensinogen)	Acute severe hypertension				
<b>ION826/AZD4063</b> (PLN) <sup>4</sup>	Myocardial disease	(TfR1-Targeting)			

1. Timing and expectations based on current assumptions and subject to change. 2. Assuming approval. 3. Co-developing and commercializing WAINUA for ATTRv-PN and ATTR-CM in U.S. with AstraZeneca. 4. In-licensed by AstraZeneca in 2023.

# DAWNZERA Launch Gaining Significant Momentum<sup>1</sup>

Delivering on What HAE Patients Need Most

First and Only RNA-Targeted Treatment to Prevent HAE Attacks



*Indicated for prophylaxis to prevent attacks of HAE in adult and pediatric patients ≥12 years old*

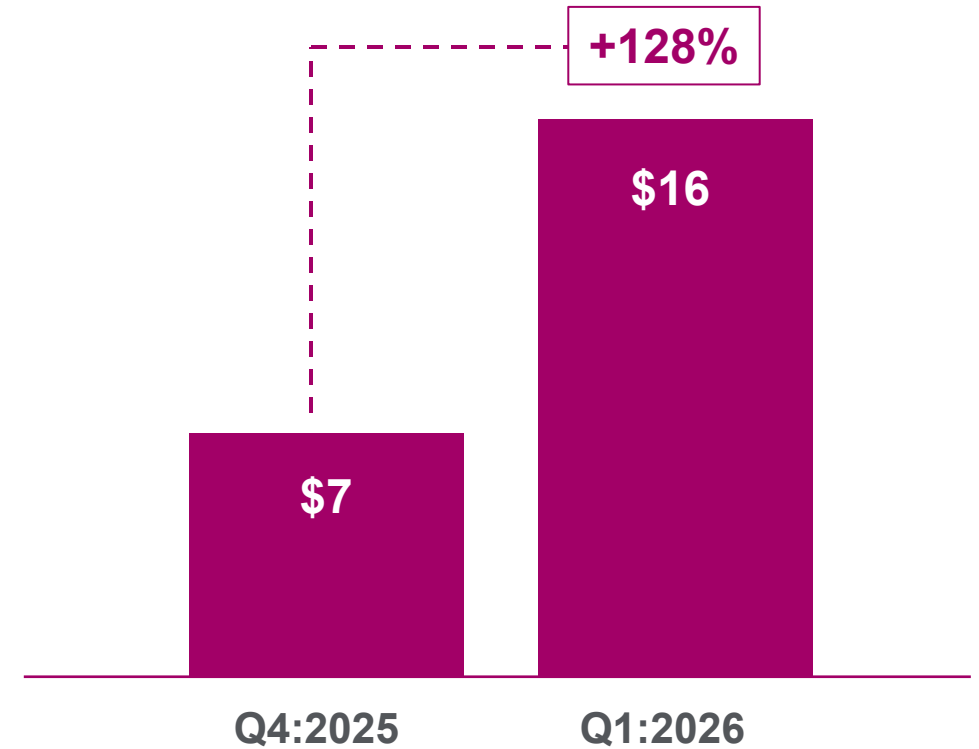
Prescriptions written for all patient segments:

- Switches from other long-term prophylactic treatments
- Previously on-demand treatment only
- Treatment naïve

Growing number of repeat prescribers

Approved in U.S. and EU<sup>2</sup>

Generated \$16 million in Q1:2026



DAWNZERA, U.S. Product Sales, net (millions)

1. DAWNZERA is approved in the U.S. for hereditary angioedema in adults and pediatric patients 12 years of age and older; see [Full Prescribing Information](#). 2. Otsuka is responsible for commercializing DAWNZERA in the EU.

# U.S. HAE Market Dynamics Underscore DAWNZERA's Potential<sup>1,2</sup>



~**7,000** people with HAE in the U.S.<sup>3</sup>



~**75%** of people with HAE in the U.S. are on LTPs



~**1,000** allergists/ immunologists treat **90%** of HAE patients



~**20%** of people with HAE have historically switched treatments annually

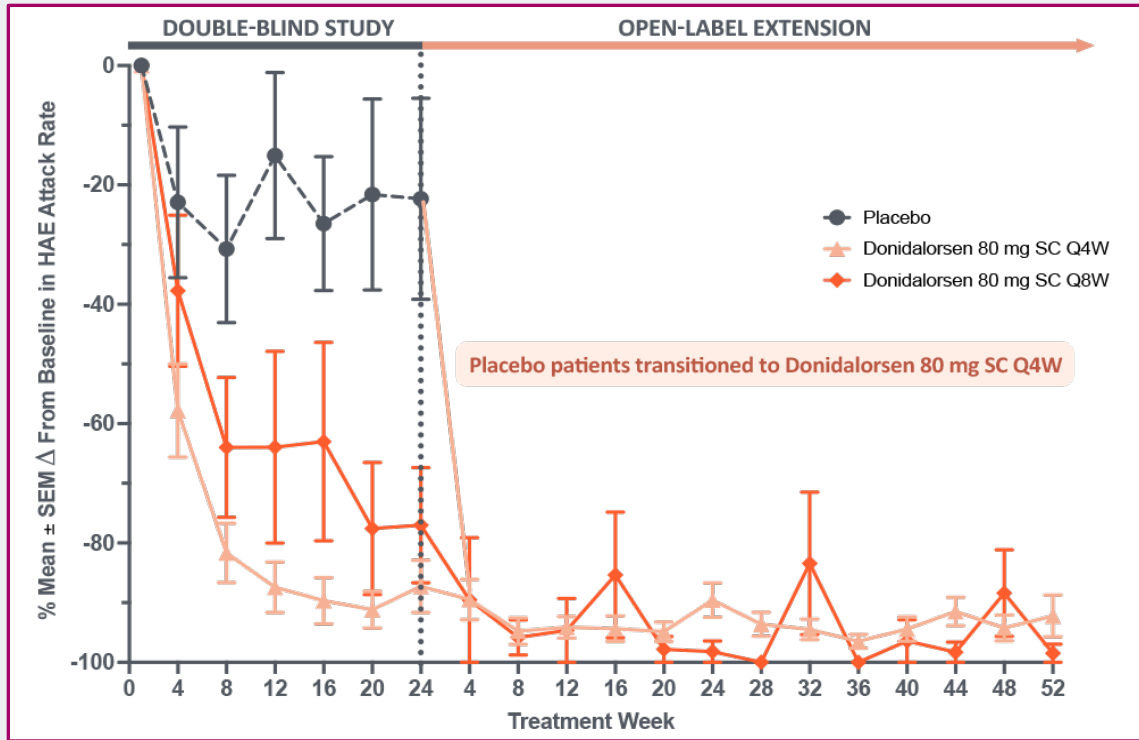


**>90%** of people with HAE are interested in trying a new prophylactic therapy<sup>4</sup>

**DAWNZERA Peak Sales Potential: >\$500M<sup>5</sup>**

1. DAWNZERA is approved in the U.S. for hereditary angioedema in adults and pediatric patients 12 years of age and older; see [Full Prescribing Information](#). 2. Market data on file. 3. Riedl et al. 2023 *J ALLERGY CLIN IMMUNOL PRACT* VOLUME 11, NUMBER 8; Sylvestre et al 2021 *J ALLERGY CLIN IMMUNOL PRACT* VOLUME 9, NUMBER 12; Nieto et al 2023 World Allergy Organization Journal. 4. Ionis-sponsored Harris Poll results. 5. Based on current estimates.

# DAWNZERA's Robust Efficacy Profile<sup>1,2</sup>



**94%**  
Total Mean  
Reduction in HAE  
Attack Rates  
across Q4W and  
Q8W over  
1 year in OLE<sup>2</sup>

**Met all Q4W primary and secondary endpoints<sup>3</sup>**

81% reduction ( $p < 0.001$ ) in mean HAE attack rate compared to placebo, increased to an 87% reduction ( $p < 0.001$ ) when measured from the second dose

**Improved quality-of-life measures<sup>3</sup>**

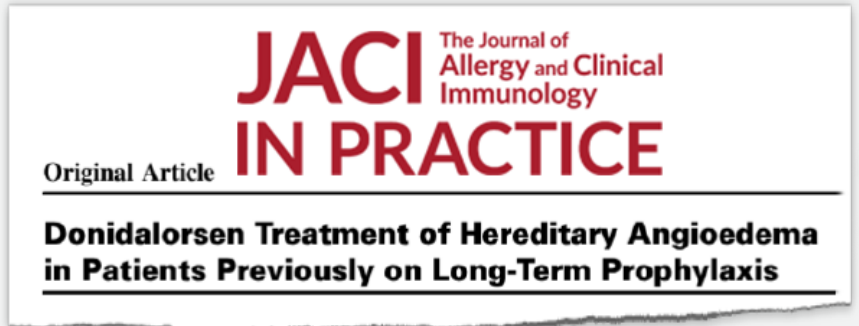
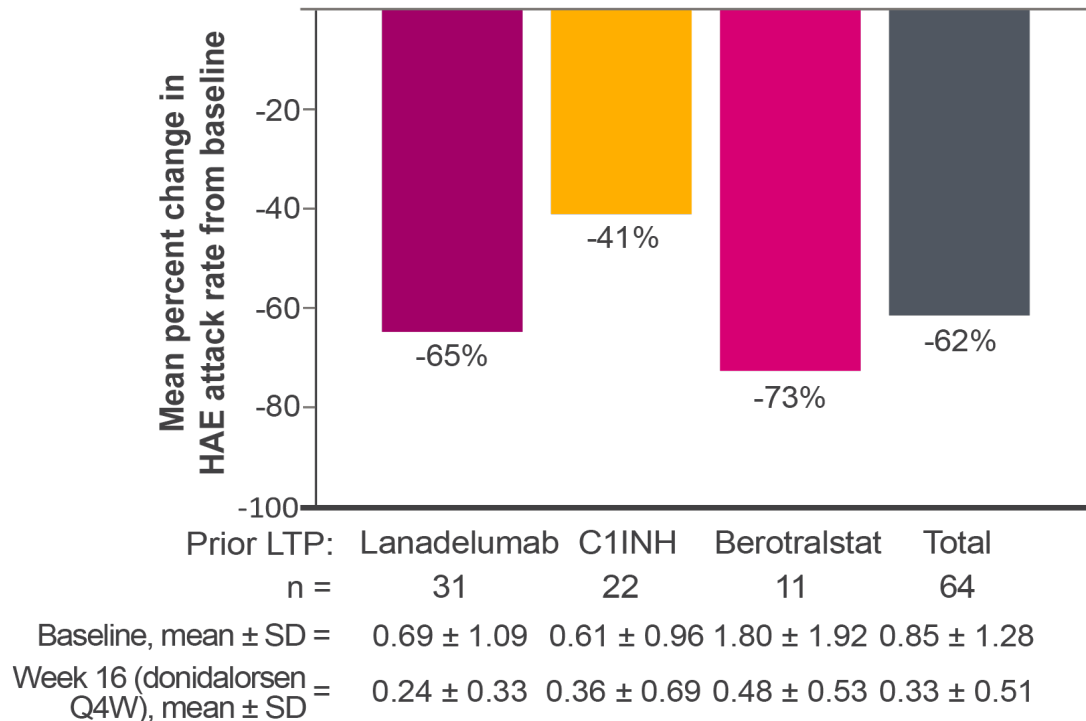
**High levels of disease control<sup>4,5</sup>**

1. DAWNZERA is approved in the U.S. for hereditary angioedema in adults and pediatric patients 12 years of age and older; see [Full Prescribing Information](#). 2. Data on file; HAE attack rate reduction as of data cut-off of January 27, 2025. 3. *N Engl J Med* 2024;391:21-31 DOI: 10.1056/NEJMoa2402478 VOL. 391 NO. 1. 4. Riedl MA, Yarlus A, Bordone L, et al. Patient-reported outcomes in the Phase III OASIS-HAE Study of Donidalorsen for Hereditary Angioedema. *Allergy*. Published online April 19, 2025. doi:10.1111/all.16563. 5. Weller K, Donoso T, Magerl M, et al. Validation of the Angioedema Control Test (AECT)—a patient-reported outcome instrument for assessing angioedema control. *J Allergy Clin Immunol Pract*. 2020;8(6):2050-2057.e4. doi:10.1016/j.jaip.2020.02.038.

# DAWNZERA Substantially Reduced HAE Attack Rates After Switching from Prior Prophylactic Treatment<sup>1,2</sup>

## OASIS-Plus Switch Cohort Results

### % Reduction in HAE Attack Rate After Switching to DAWNZERA



# Switch Data Confirm DAWNZERA's Compelling Profile Resonated with Study Participants<sup>1,2</sup>



of switch patients  
surveyed **preferred**  
**DAWNZERA**

## Reasons participants chose for preferring DAWNZERA:

Efficacy

**63%**

chose  
“it works better to  
control my HAE”

Tolerability

**50%**

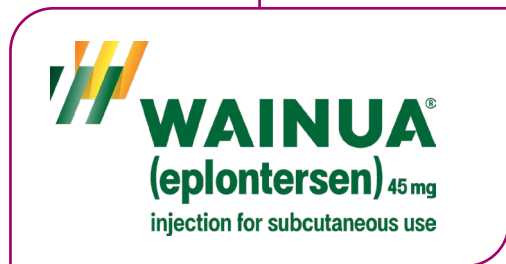
chose  
“less injection-site  
pain or reaction”

Convenience

**65%**

chose  
“less time for  
administration”

### 3 Approved Medicines<sup>1</sup>



## Leading Neurology Portfolio Positioned to Deliver Accelerating Value



Strong track record in delivering **first-in-class** neurology medicines



Well-positioned to deliver a **steady cadence of medicines**<sup>2</sup>

- **First independent neurology launch** expected in **2026** with **zilganersen** for Alexander disease
- **Strong pipeline** of wholly owned and partnered medicines in clinical development



**Focused strategy** for expanding our wholly owned neurology portfolio



Focused on continuous **innovation** and **advancing proven technology**

# Leading the Way in the Treatment of Neurological Diseases

6

Wholly Owned Medicines in Clinical Development



6

Partnered Medicines in Clinical Development

12

Medicines in Clinical Development

Approved Medicines<sup>1-3</sup>



## Wholly Owned Medicines

	Indication	Preclinical	Ph1	Ph2	Ph3
Zilganersen (GFAP)	Alexander disease	NDA accepted with Priority Review			
Obudanersen (UBE3A-ATS)	Angelman syndrome				
ION464 (SNCA)	Multiple System Atrophy				
ION717 (PRNP)	Prion disease				
ION356 (PLP1)	Pelizaeus-Merzbacher disease				
ION440 (MECP2)	MECP2 Duplication syndrome				
ION337 (SCN1A)	Dravet syndrome				

## Partnered Medicines

Ulefnersen (FUS)	Amyotrophic Lateral Sclerosis (ALS)				
Tofersen (SOD1)	ALS (Presymptomatic SOD1)				
Salanersen (SMN2)	Spinal Muscular Atrophy				
IONIS-MAPT <sub>Rx</sub> (TAU)	Alzheimer's disease				
Tominersen (HTT)	Huntington's disease				
RG6496 (HTT SNP)	Huntington's disease				

1. SPINRAZA.com 2. QALSODY.com. 3. WAINUA.com.

# Zilganersen: Preparations on Track for First Independent Neurology Launch<sup>1</sup>

## Zilganersen for the Treatment of Alexander Disease

**First and only** investigational medicine to demonstrate clinically meaningful disease-modifying impact

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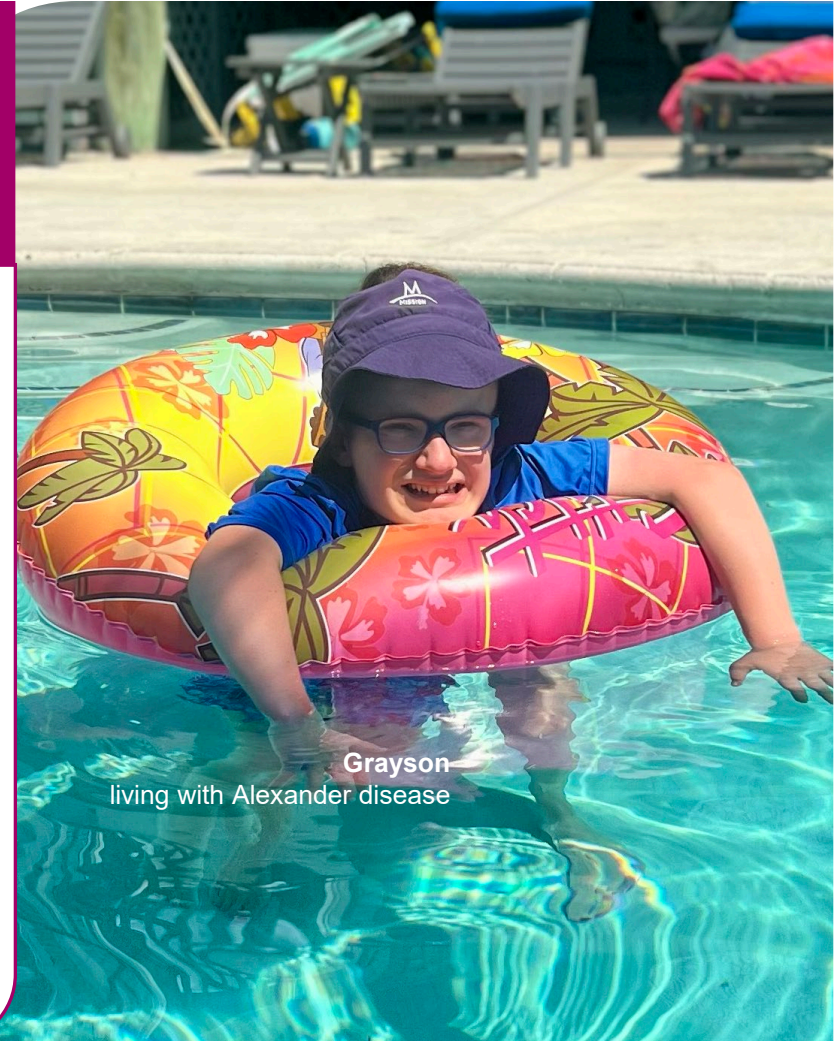
Prevalence: ~1 in 1-3 million; accounts for ~2-8% of leukodystrophies, potentially underestimated<sup>2</sup>

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U.S. and EU Orphan designation; U.S. Fast Track designation

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**Granted Priority Review**; PDUFA September 22, 2026



Grayson  
living with Alexander disease

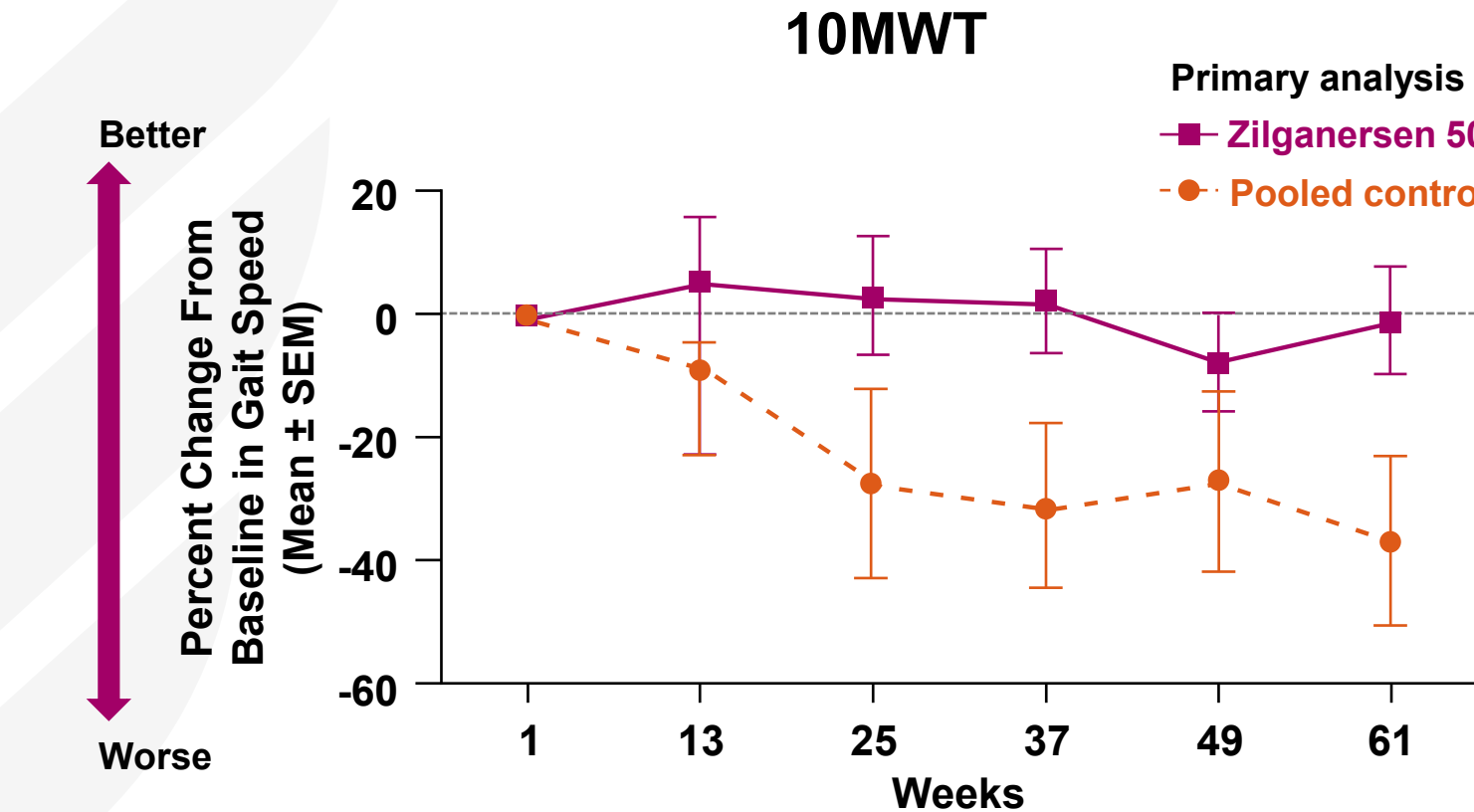
# Baseline Demographics and Clinical Characteristics Were Generally Comparable Between Treatment Groups

- A total of 49 participants were randomized in the double-blind treatment period:
  - Zilganersen 50 mg (n = 24)
  - Zilganersen 25 mg (n = 8)
  - Control (n = 17)
- The primary analysis set includes<sup>a</sup>
  - Zilganersen 50 mg (n = 17)
  - Control (n = 13)
- **Enrolled patients who are representative of the broad AxD population**
- **All eligible patients who completed the double-blind treatment period enrolled into the OLE**

All participants n (%)	Zilganersen 25 mg or 50 mg n = 32	Pooled control n = 17
<b>Age, years, median (range)</b>	11.0 (2.0–53.7)	10.3 (3.0–53.0)
2–18 years	29 (90.6)	15 (88.2)
19–65 years	3 (9.4)	2 (11.8)
<b>Sex</b>		
Female	22 (68.8)	10 (58.8)
Male	10 (31.3)	7 (41.2)
<b>Race</b>		
Asian	2 (6.3)	1 (5.9)
Multiple	1 (3.1)	1 (5.9)
Other	2 (6.3)	0
White	27 (84.4)	15 (88.2)
<b>10MWT, m/s, ≥5 years, mean ± SD (primary analysis set)<sup>a</sup></b>	1.20 ± 0.63	1.05 ± 0.52

<sup>a</sup>The primary analysis set includes all participants in stratum 1 ([i] ≥5 years of age; and [ii] if ≥18 years of age, had onset of AxD motor symptoms/signs within 5 years of screening; and [iii] demonstrate an abnormality in gross motor skills) who were randomized, received at least 1 dose of the study drug (zilganersen or control), and have at least 1 postbaseline primary efficacy assessment. The cohort D open-label substudy in participants <2 years of age is not shown. 10MWT, 10-Meter Walk Test; AxD, Alexander disease; SD, standard deviation.

# Zilganersen Resulted in Significant and Clinically Meaningful Stabilization of Gait Speed vs Control (Primary Endpoint)



Zilganersen 50 mg: n =	17	17	17	17	17	17
Pooled control: n =	13	13	13	13	13	13

- There was a **statistically significant 33.3% LSM difference** at Week 61 between zilganersen 50 mg and control ( $P = 0.041$ )
- The positive treatment effect of zilganersen exceeded the threshold of a **clinically meaningful difference**<sup>\*1-4</sup>

The primary analysis set includes all participants in stratum 1 ([i]  $\geq 5$  years of age; and [ii] if  $\geq 18$  years of age, had onset of AxD motor symptoms/signs within 5 years of screening; and [iii] demonstrate an abnormality in gross motor skills) who were randomized, received at least 1 dose of the study drug (zilganersen or control), and have at least 1 postbaseline primary efficacy assessment.

\*Due to lack of sufficient literature in AxD, MCID was based on multiple sclerosis literature.

10MWT, 10-Meter Walk Test; AxD, Alexander disease; LSM, least square mean; MCID, minimal clinically important difference; SEM, standard error of the mean.

1. Kaufman M, et al. *Mult Scler.* 2000;6(4):286-90. 2. Hobart J, et al. *Neurology.* 2013;80:1509-17. 3. Cohen JA, et al. *JAMA Neurol.* 2014;71:1386-93. 4. Kragt J, et al. *Mult Scler.* 2006;12:594-8.

# Key Secondary Endpoints Capturing Disease Severity and Global Health Status Favored Zilganersen at Week 61

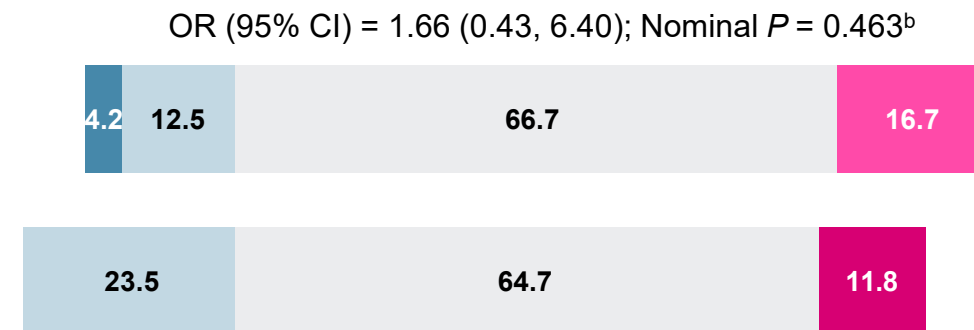
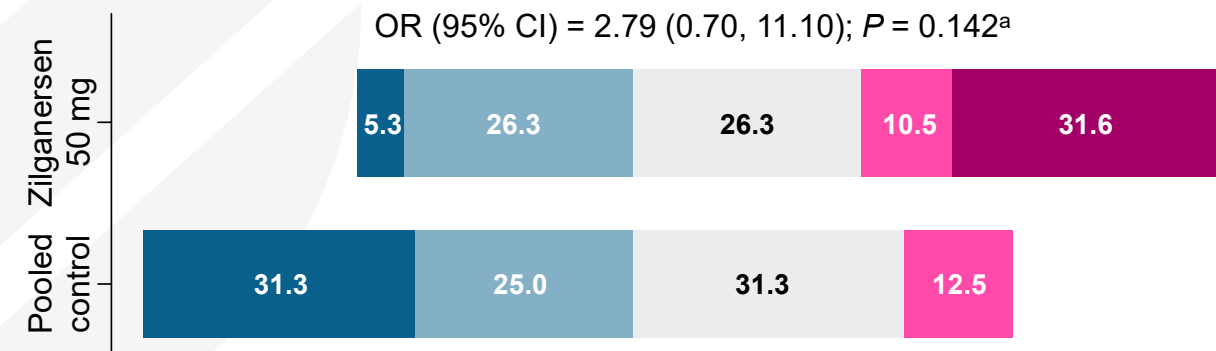
Worse ←  Better

**MBS**

OR (95% CI) = 2.79 (0.70, 11.10);  $P = 0.142^a$

**PGIS**

OR (95% CI) = 1.66 (0.43, 6.40); Nominal  $P = 0.463^b$

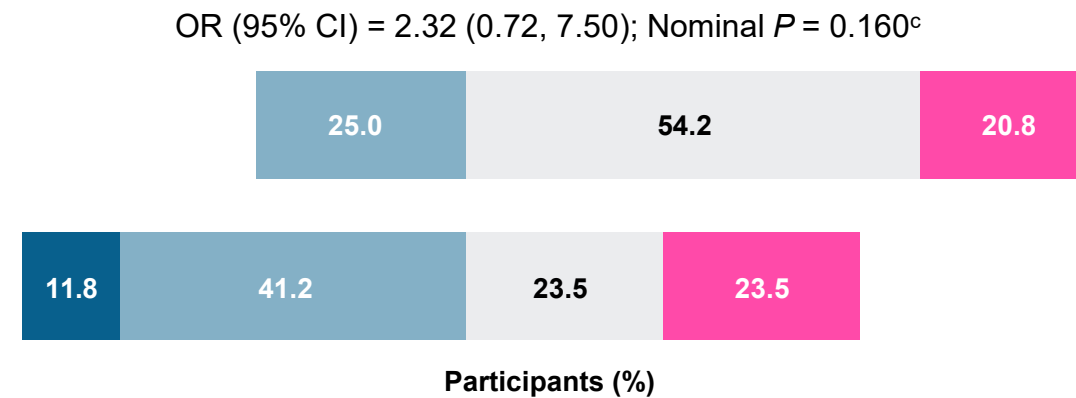
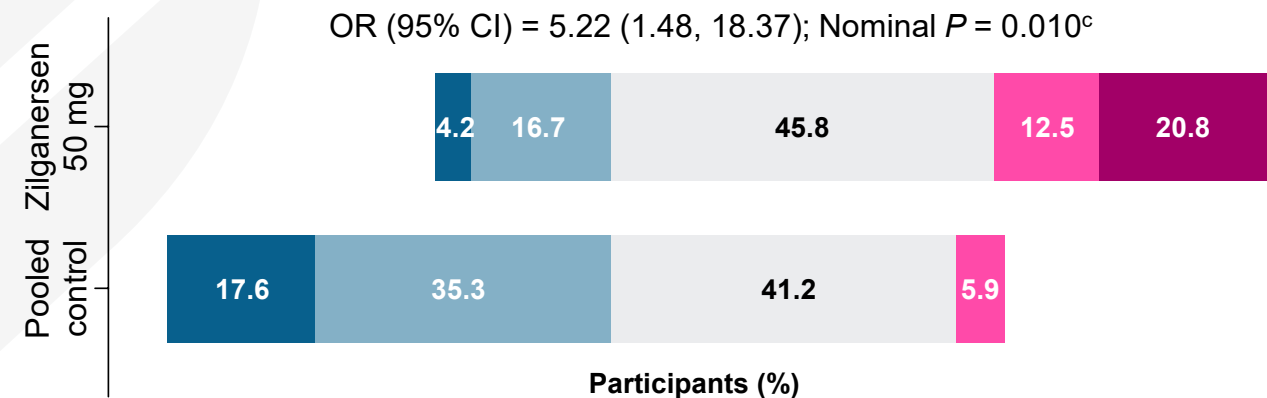


**PGIC**

OR (95% CI) = 5.22 (1.48, 18.37); Nominal  $P = 0.010^c$

**CGIC**

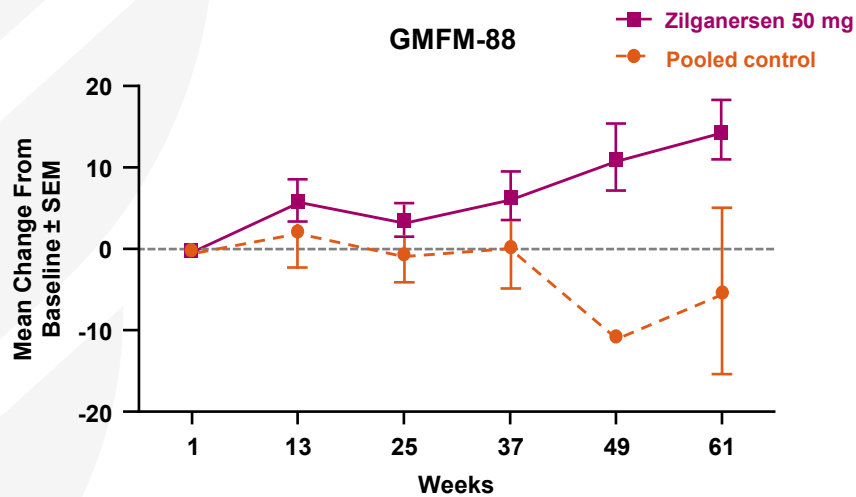
OR (95% CI) = 2.32 (0.72, 7.50); Nominal  $P = 0.160^c$



<sup>a</sup> $P$ -values were from a chi-square test. If any cell from the 2-by-2 table was <5, then Fisher's exact test was used. <sup>b</sup>Proportional odds model with treatment group and baseline as covariates. <sup>c</sup>Proportional odds model with treatment group as a factor. Key secondary endpoints were assessed in the full analysis set (all participants who were randomized, received at least 1 dose of the study drug [zilganersen or control], and had at least 1 postbaseline efficacy assessment in the double-blind treatment period). MBS was measured on a 5-point scale from 5 (much worse) to 1 (much better). Change from baseline at Week 61 in PGIS was measured on a scale from 4 (worse) to -4 (better). PGIC and CGIC were measured on a 5-point scale from 4 (much worse) to 0 (much better). CGIC, Clinical Global Impression of Change; CI, confidence interval; MBS, Most Bothersome Symptom; OR, odds ratio; PGIC, Patient Global Impression of Change; PGIS, Patient Global Impression of Severity.

# Most Efficacy Endpoints, Evaluating Motor, Adaptive Function, Gastrointestinal, and Autonomic Symptoms, Favored Zilganersen

## Motor

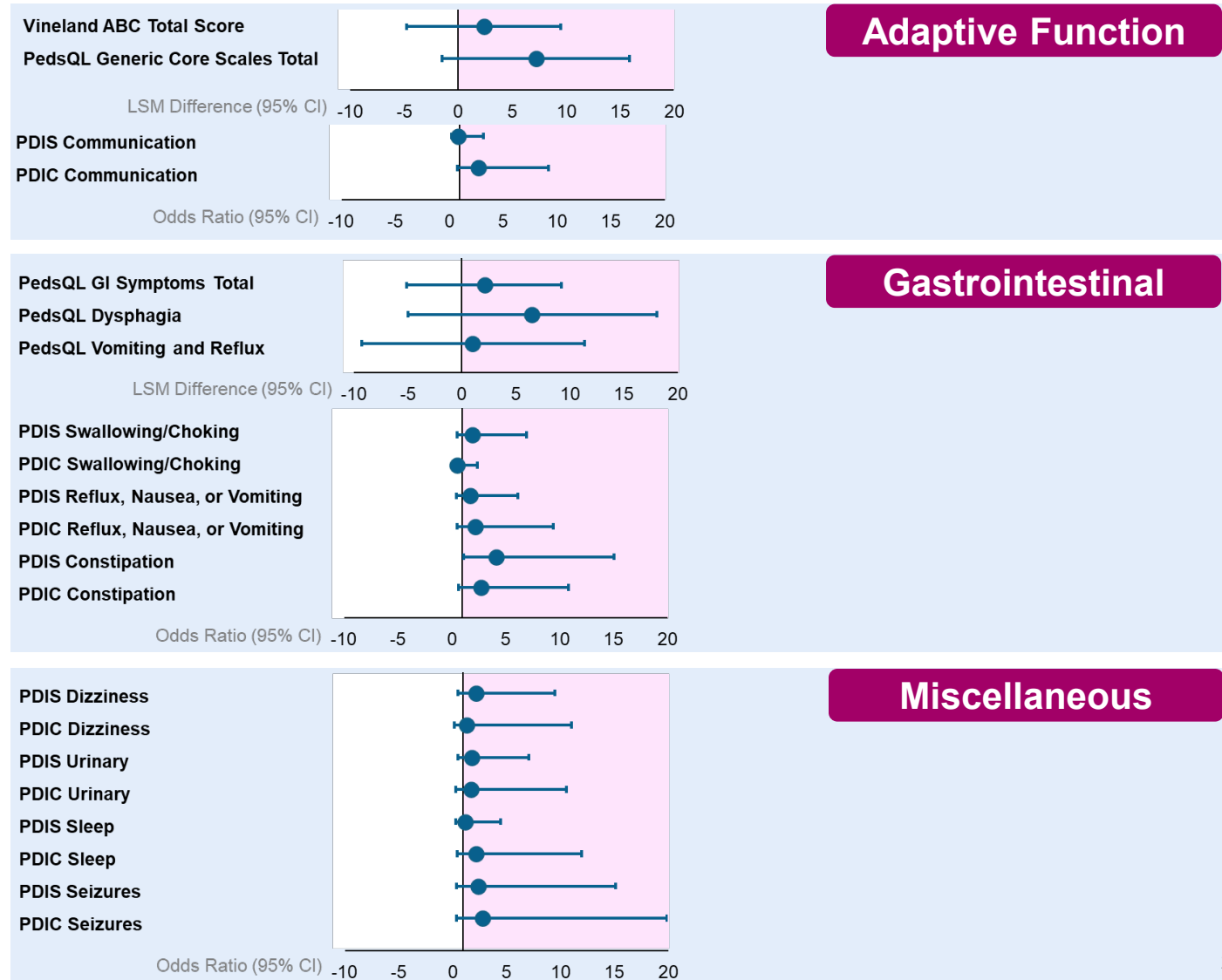


Zilganersen 50 mg: n = 4    4    4    4    4    4  
 Pooled control: n = 3    3    3    3    1    3

**22.9 least square mean difference** at Week 61 between zilganersen 50 mg and control (nominal  $P = 0.034$ )

CI, confidence interval; GI, gastrointestinal; GMFM-88, Gross Motor Function Measure-88; LSM, least square mean; PDIC, Patient Domain Impression of Change; PDIS, Patient Domain Impression of Severity; PedsQL, Pediatric Quality of Life Inventory; SEM, standard error of the mean; Vineland ABC, Vineland Adaptive Behavior Composite.

Favors Control    Favors Zilganersen



# Zilganersen Demonstrated Acceptable Safety and Tolerability at Week 61

- Most TEAEs were mild or moderate in severity
- No TEAEs led to study drug discontinuation
- No effects of zilganersen on platelet counts or renal or liver function were identified
- One participant had TEAEs<sup>a</sup> consistent with potential aseptic meningitis that required interruption of treatment during the OL period without leading to permanent discontinuation
- One participant (zilganersen 25 mg) experienced a serious TEAE of disease progression (onset in the double-blind period) resulting in death during the OL period

All participants n (%)	Zilganersen 25 mg or 50 mg n = 32	Pooled control n = 17
<b>Any TEAE</b>	32 (100)	17 (100)
Mild	7 (21.9)	3 (17.6)
Moderate	18 (56.3)	11 (64.7)
Severe	7 (21.9)	3 (17.6)
<b>TEAEs leading to</b>		
Treatment discontinuation	0	0
Treatment interruption	4 (12.5)	4 (23.5)
<b>Any serious TEAE</b>	12 (37.5)	8 (47.1)
Seizure	2 (6.3)	2 (11.8)
Vomiting <sup>a</sup>	1 (3.1)	2 (11.8)
Influenza	2 (6.3)	0
Scoliosis	2 (6.3)	0
<b>Increased ICP<sup>b</sup></b>	1 (3.1)	3 (17.6)
<b>CSF protein &gt;ULN<sup>c</sup></b>	6 (18.8)	5 (29.4)

The table includes all participants who were randomized and received ≥1 dose of the study drug. <sup>a</sup>A single participant presented with serious vomiting accompanied by headache, elevated CSF protein, and CSF WBC count >ULN. <sup>b</sup>Increased ICP includes TEAEs with preferred terms within a predefined MedDRA search strategy (CSF pressure increased, intracranial pressure increased, brain herniation, hydrocephalus, idiopathic intracranial hypertension, papilloedema, and vomiting projectile). In addition, Cushing's triad, defined as hypertension, bradycardia, and irregular breathing or dyspnea reported simultaneously, was included. <sup>c</sup>CSF protein >ULN (or >45 mg/dL when ULN was not provided). CSF, cerebrospinal fluid; ICP, intracranial pressure; MedDRA, Medical Dictionary for Regulatory Activities; OL, open-label; TEAE, treatment-emergent adverse event; ULN, upper limit of normal; WBC, white blood cell.

# Zilganersen: Ionis' First Anticipated Neurology Launch<sup>1,2</sup>

## Granted Priority Review

### Substantial Unmet Need

**Alexander disease** is a **rare, progressive** and **often fatal** neurological condition

**No approved disease-modifying treatments**

### Groundbreaking Phase 3 Data

**First time** an investigational **medicine** has shown a **positive disease-modifying impact in Alexander disease**

Demonstrated **statistically significant** and **clinically meaningful stabilization** on the **primary endpoint**

### Well-Established Patient Community

**Strong partnership** with the Alexander disease **patient community**

### Strategy to Reach Patients

**Evaluation** and **diagnosis**

**Treatment management**

**Access** and **adherence**

# Obudanersen: A Promising Investigational Medicine for Angelman Syndrome



## The Opportunity

- **>100k people** in major geographies with **Angelman syndrome**, a severe, rare neurodevelopmental disorder<sup>1</sup>
- **Significant unmet need** with **no approved disease-modifying treatments**



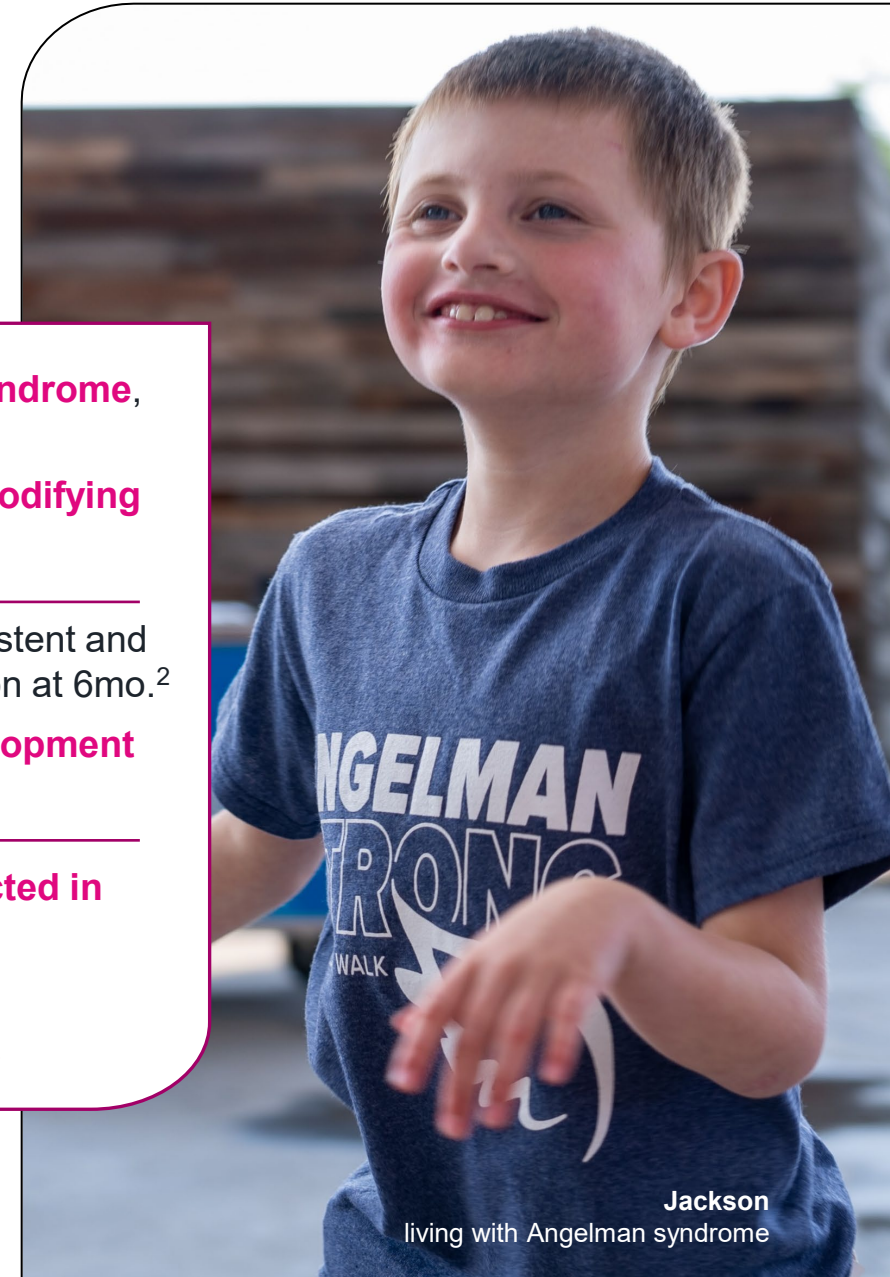
## Key Clinical Highlights

- **Positive results seen in the HALOS study**, with consistent and meaningful improvements in key areas of clinical function at 6mo.<sup>2</sup>
- **Long-term extension data** continues to **support development**
- **Granted Breakthrough Therapy designation**



## Next Steps

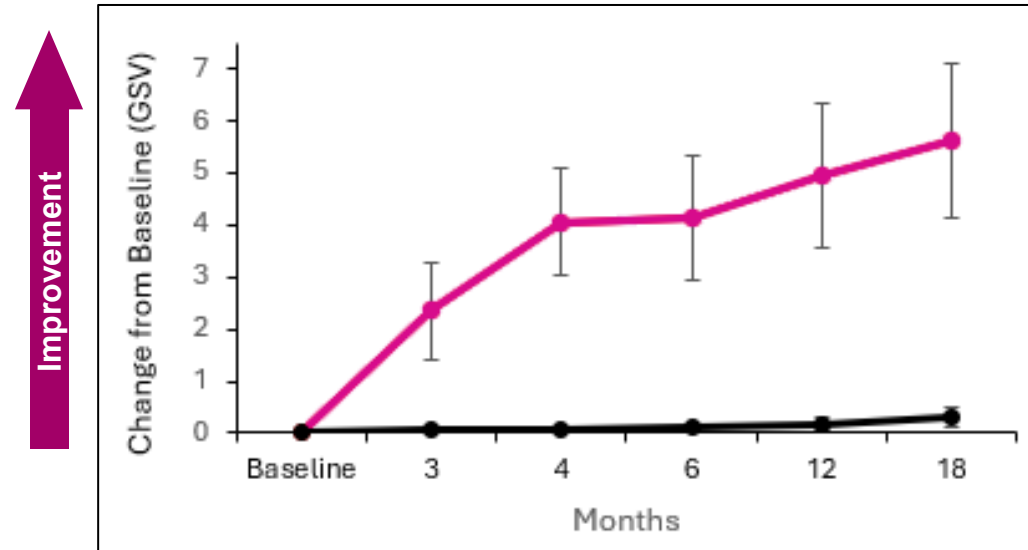
- Full enrollment of pivotal Phase 3 REVEAL study **expected in 2026<sup>3</sup>**
- Phase 3 **data expected in 2027<sup>3</sup>**
- UPD/ID CHAMPION **study initiation expected in 2026**



**Jackson**  
living with Angelman syndrome

# Expressive Communication: Continued Improvement Observed on Bayley-4 at 18 Months<sup>1</sup>

## Change on Bayley-4 Expressive Communication Obudanersen vs. Natural History



● Obudanersen ● Natural History<sup>2</sup>

Improvements on Bayley-4 measure of expressive communication exceed natural history<sup>2</sup>

Consistent improvements across additional assessment tools measuring expressive communication



# Responder Analysis: Continued Benefit in Multiple Domains Assessed in the HALOS Study<sup>1-3</sup>

	Responders on Bayley-4 Expressive Communication	Responders on ≥ 1 Bayley-4 Domains	Responders on ≥ 2 Bayley-4 Domains	Responders on ≥ 3 Bayley-4 Domains
6 months	61%	95%	84%	68%
12 months	64%	97%	89%	75%
18 months	71%	97%	83%	71%

Responders are defined as having a change from baseline of >20% the standard deviation plus the expected change for growth from natural history<sup>4</sup>

**Nearly All Study Participants Responded to Obudanersen Treatment on ≥ 1 Bayley-4 Domains through 18 Months**

1. Medium and high dose groups, ≥2 years of age, n=35-38. Excludes patients who dose escalated or had a gap in dosing between MAD and LTE. 2. Bayley N. Aylward GP. *Bayley Scales of Infant and Toddler Development-Fourth Edition*. NCS Pearson. (2019). 3. Analysis reflects data from participants in the obudanersen HALOS study aged 2-34 years old who received either 40mg or 80mg obudanersen for the entirety of the study. Participant data for those who dose-escalated during the study and with data from out-of-window visits are excluded. 4. Natural history studies: [www.clinicaltrials.gov/study/NCT04507997](http://www.clinicaltrials.gov/study/NCT04507997) and [www.clinicaltrials.gov/study/NCT00296764](http://www.clinicaltrials.gov/study/NCT00296764) and includes Bayley-3 to Bayley-4 conversion by Pearson.4.

# Extending the SMA Franchise



## Nusinersen High Dose

- Now approved in U.S., EU and Japan



## Salanersen

- Designed with a novel Ionis chemistry to achieve strong efficacy & once-yearly dosing
- Interim Phase 1 data showed that once-yearly dosing with both doses tested was well tolerated and led to substantial slowing of neurodegeneration
- Improved economics over SPINRAZA<sup>2</sup>

## Salanersen Phase 3 program underway

- First patient dosed in STELLAR-1 in presymptomatic infants genetically diagnosed with SMA

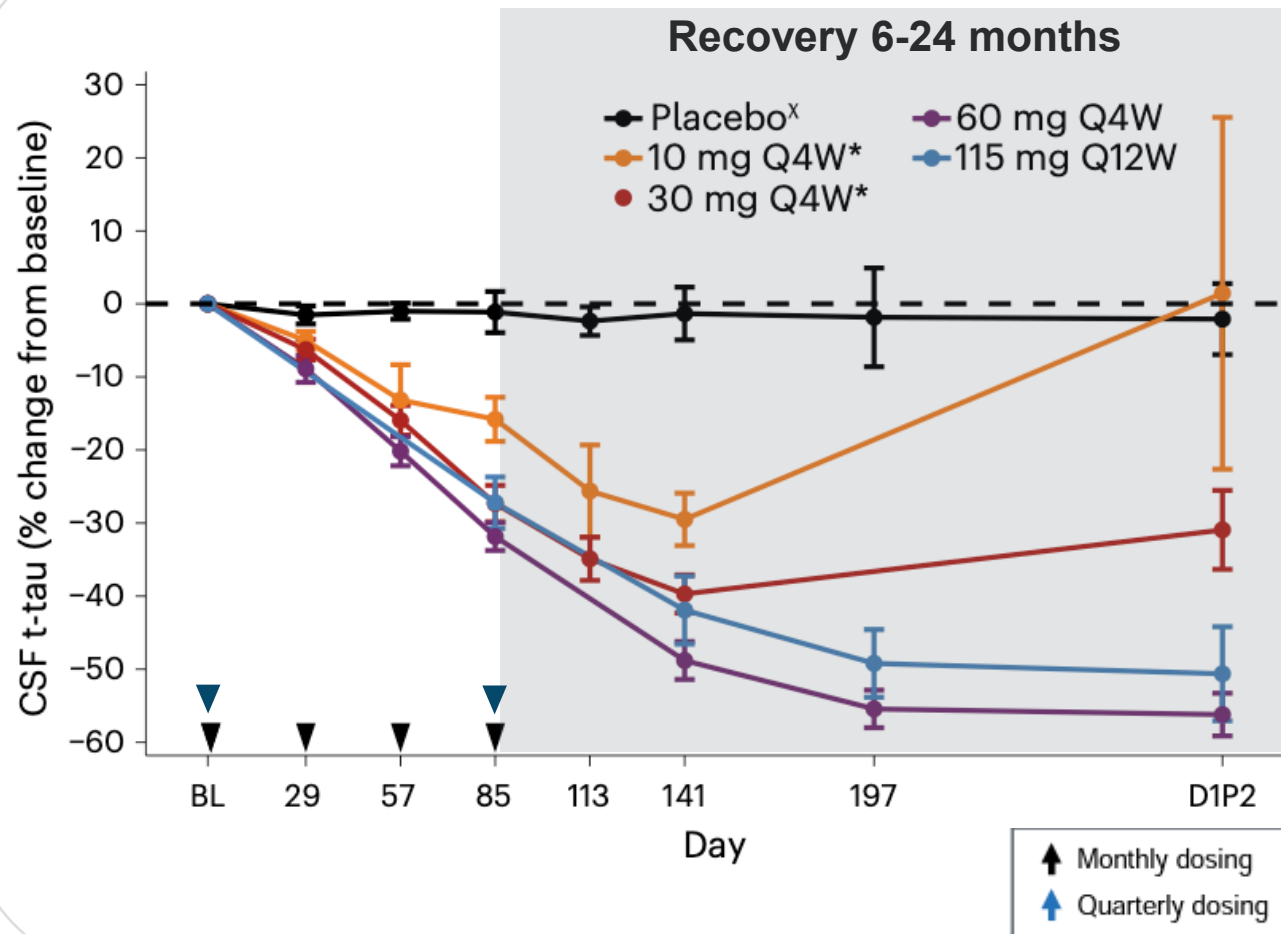


# IONIS-MAPT<sub>Rx</sub>: Rapid, Substantial and Sustained Reduction in Tau in CSF in Phase 1b Study<sup>1</sup>

MAPT<sub>Rx</sub> (BIIB80) is designed to **reduce production and thus aggregation of tau protein** associated with disease in Alzheimer's disease

Total tau in the CSF **continued to decline 16 weeks post-last dose** of BIIB080 in 4- and 12-week cohorts

**Generally well-tolerated** at all doses and dose frequencies

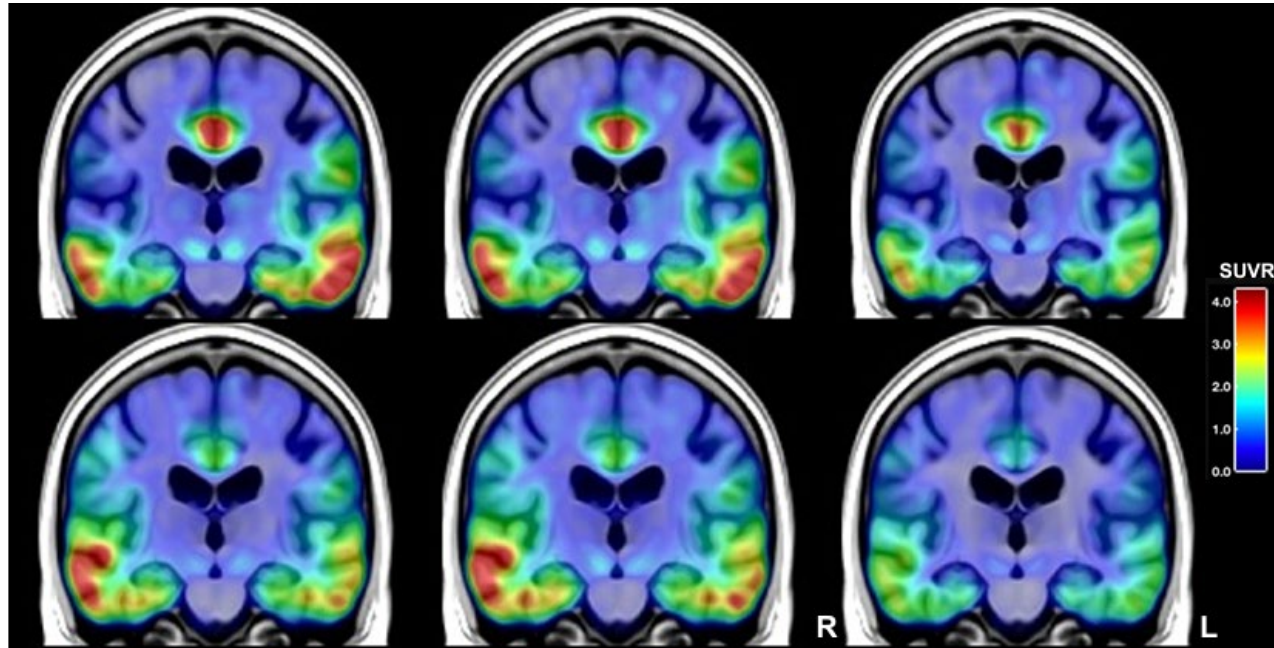


1. Mummery et al., Nat Med, 2023; AD = Alzheimer's disease; CSF = cerebrospinal fluid; Q4W = every 4-week dosing; Q12W = every 12-week dosing; t-tau = total tau

# IONIS-MAPT<sub>Rx</sub>: Consistent Reduction in Tau Burden Across All Brain Regions

Screening → Placebo → Week 25 → 115mg Q12W → Week 100

2380-4011  
67 y/o  
Male  
CDR= 0.5  
MMSE= 26



2176-4009  
71 y/o  
Male  
CDR= 0.5  
MMSE= 26

CELIA Phase 2 Study in patients with early AD fully enrolled;  
Data expected mid-2026<sup>2,3</sup>

## Phase 1b Tau PET Results<sup>1</sup>

Patients initially on placebo then MAPT<sub>Rx</sub> (BIIB080) showed **reduced tau burden following treatment**

**Reduced tau burden at all doses and dose frequencies** in the long-term extension study

Generally **well-tolerated at all doses and dose frequencies**

1. Collins et al., AD/PD 2023 CDR Clinical Dementia Rating scale; MMSE Mini Mental State Examination; SUVR standard uptake valueratio; CELIA Study (Biogen conducting): [Clinicaltrials.gov/NCT05399888](https://clinicaltrials.gov/NCT05399888) 2. Timing based on current estimates and subject to change. 3. Biogen disclosed CELIA trial update reducing number of patients in August 2024.

# Accelerating Innovation to Strengthen Leadership in RNA-Targeted Medicines

## Expanding Technology Platform

### Broad Range of Technologies

ASO | siRNA | MsPA  
NMA | DNA Editing

Optimized  
Potency and Durability

Systemic and Local  
Applications

## Advancing Targeted Delivery

Cardiac Muscle

Skeletal Muscle

Blood Brain Barrier

## Expanding Therapeutic Opportunities

### Established Franchises

Cardiometabolic

Neurology

### New Therapeutic Areas

Pulmonary | Renal

# Partnered Medicines Amplify Our Opportunities

Multiple Phase 3 Readouts in 2026<sup>1</sup>



Addressable  
Population<sup>2</sup>



Value  
Proposition

## ✓ Bepirovirsen (HBV) H1:26

~300M patients  
worldwide

**1<sup>st</sup> and only  
investigational  
medicine** shown  
potential to achieve  
clinically meaningful  
functional cure<sup>3</sup>

**Granted Priority  
Review;** PDUFA  
October 26, 2026

## Pelacarsen (Lp(a)-CVD) H2:26

>8M patients  
with CVD and  
elevated Lp(a)  
worldwide

**First-in-class  
potential** to address  
a major independent  
risk factor for CVD

## Eplontersen (ATTR-CM) H2:26

~300-500k patients  
worldwide

Potential to be the  
**treatment of choice**  
for people with  
ATTR

On track to **deliver  
the richest data set**  
in growing ATTR  
market

## Sefaxersen (IgAN) 2026

>400k patients  
worldwide

**1<sup>st</sup> investigational  
RNA-targeted  
medicine** to treat  
IgAN by addressing  
the underlying  
pathophysiology of  
alternative  
complement  
pathway activation<sup>4</sup>

# Pelacarsen: Addressing a Major Independent Risk Factor for CVD<sup>1</sup>

## Lp(a) Driven Cardiovascular Disease

- Lp(a): independent, genetic, causal risk factor for CVD, mediating MI, stroke and peripheral artery disease
- Lp(a) levels determined genetically, not influenced by diet or lifestyle
- 1 in 5 people worldwide have elevated Lp(a)
- Currently no approved therapies to treat elevated Lp(a)

## Target: Lp(a)

- The root cause of Lp(a)-driven CVD

**>8 million**

Patients with CVD & elevated Lp(a) worldwide<sup>2</sup>

## Phase 3 Lp(a) HORIZON Study

- >8,000 patients with high Lp(a) and established CVD
- Study enrolled high-risk, high Lp(a) population with significant CV risk despite stable lipid-lowering treatment<sup>3</sup>
- Baseline demographics support potential for robust data<sup>3</sup>
- **Data expected mid-2026; regulatory filing H2:2026<sup>4</sup>**



Eligible for:

**Additional milestone payments**

**Royalties in the mid-teens to low 20% on net sales<sup>5</sup>**

1. Novartis licensed pelacarsen in 2019 and as a result is responsible for development and commercialization, assuming approval. 2. Market data on file. 3. Lp(a) HORIZON study design and baseline demographics published *American Heart Journal*. 4. Timing expectations based on current assumptions and subject to change. 5. Royalty Pharma to receive 25% of any future royalty payments on pelacarsen.

# WAINUA for ATTR-CM: Global Phase 3 Development Program Designed to Deliver Robust Results



## Robust Development Program



Most comprehensive study to date in ATTR-CM, a fatal disease

Positioned to deliver the richest data in broad patient population

Largest study conducted in ATTR-CM now fully enrolled with >1,400 patients

MRI and scintigraphy sub-studies underway to assess the effects on cardiac structure and function



## Next Steps

Data  
Expected in  
H2:2026<sup>1</sup>

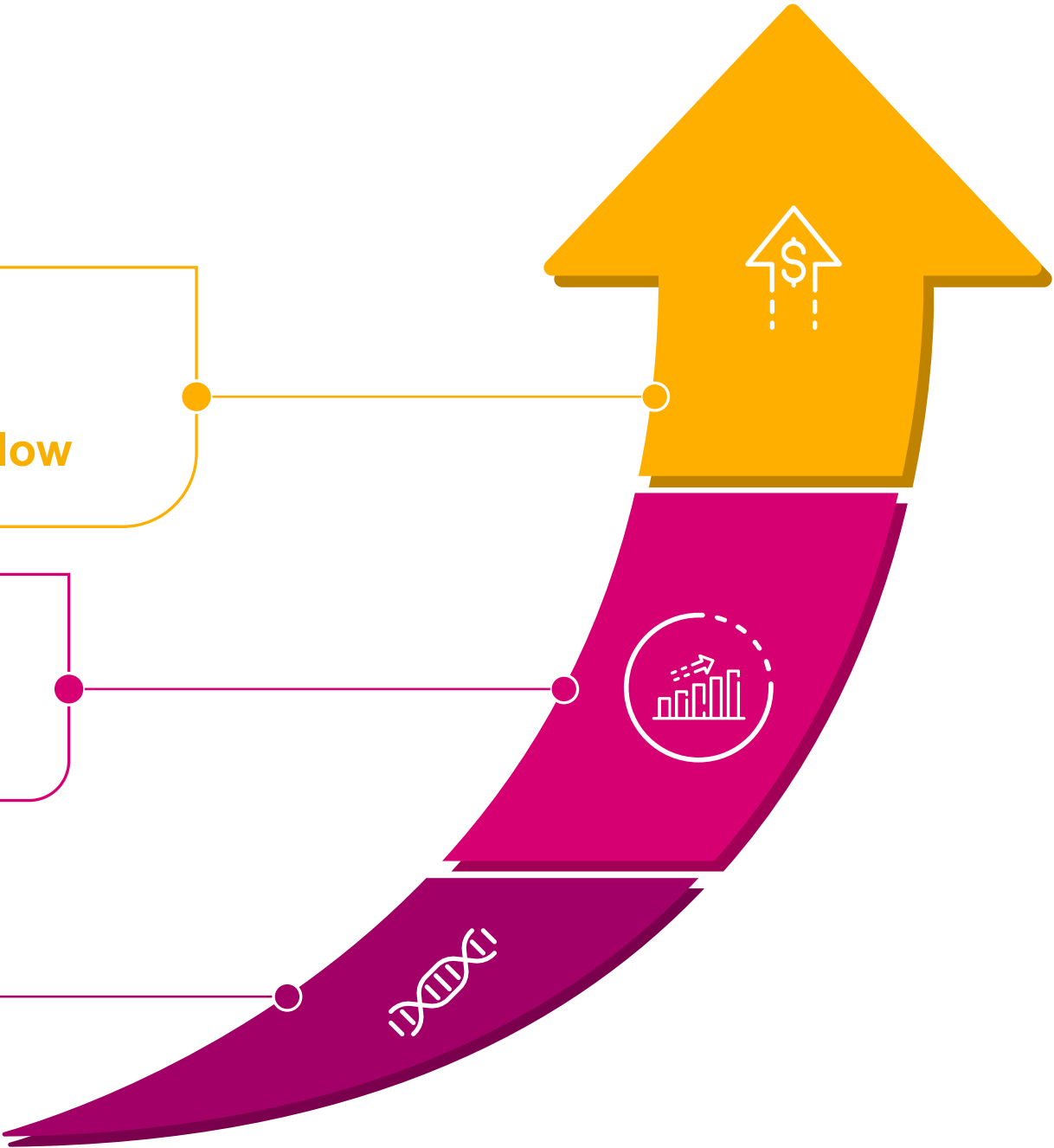
1. Timing expectations based on current assumptions and subject to change.

# Driving Accelerating Growth<sup>1,2</sup>

**2028 Cash Flow Breakeven**  
**Clear Path to Sustained Positive Cash Flow**

**Accelerating Revenue Growth**

**Building a Leading  
Cardiometabolic Disease Portfolio**  
**Leading the Way in the Treatment of  
Neurological Diseases**



1. Based on current estimates, subject to change. 2. Assuming approvals.

# Q1:2026 Financial Highlights<sup>1</sup>

**Revenues**  
**\$246M**

## **Commercial Revenue: \$108M**

- \$27M in TRYNGOLZA product sales
- \$16M in DAWNZERA product sales
- Total commercial revenues ~42%**↑**YoY

## **R&D Revenue: \$138M**

- Includes approximately \$95M of milestone payments from multiple partnerships

**Operating Expenses<sup>2</sup>**  
**\$321M**

## **R&D Expenses<sup>2</sup>: \$185M**

- Large majority funding late-stage programs

## **SG&A Expenses<sup>2</sup>: \$133M**

- YoY increase fueling ongoing and planned launches

**Operating Loss<sup>2</sup>**  
**(\$75M)**

- Reflects strong revenue generation from multiple sources and disciplined expense management

**Cash & Short-term Investments**  
**\$1.9B**

- The change in cash and short-term investments from year-end 2025 was primarily related to the \$633 million the Company used for the maturity of the 0% convertible notes due on April 1, 2026

# Improved 2026 Financial Guidance Reflects Growing Contribution from Ionis Launches<sup>1-3</sup>

**Revenue**  
**\$875-\$900M**  
*>30% vs 2025<sup>3</sup>*  
*Previous: \$800-825M*

**Increase of \$75M**  
**versus prior guidance**

**TRYNGOLZA net product sales**  
**\$100-110M**

**DAWZERA net product sales**  
**\$110-120M**

**Operating Loss**  
**\$425-475M<sup>4</sup>**  
*Similar to 2025<sup>3</sup>*  
*Previous: \$500-550M*

**Improved by \$75M**  
**versus prior guidance**

**Investing in multiple launches,**  
**including broad sHTG**  
**indication**

**Improved operating leverage**

**Cash**  
**>\$1.6B**  
*No Change*

**Supports investments for launches,**  
**pipeline and technology**

**On track to achieve**  
**2028 cashflow breakeven**

1. Based on current assumptions, subject to change. 2. Assumes priority and approval in late June 2026. 3. Excluding the \$280 million license fee for sapablursen in 2025. 4. Non-GAAP – please see reconciliation to GAAP in Q1:2026 press release.

# Well Positioned to Continue Driving Accelerating Growth

Key Catalysts in 2026<sup>1</sup>

5

Phase 3  
Data  
Readouts

✓ Bepirovirsen  
Pelacarsen  
Eplontersen  
Sefaxersen  
Ulefnersen

4

NDA  
Submissions

✓ Zilganersen  
✓ Bepirovirsen  
Pelacarsen  
Eplontersen

3

Launches

Olezarsen  
Zilganersen  
Bepirovirsen

2

Phase 3  
Study Starts

✓ Salanersen  
Sapablursen

Multiple

Phase 2 Data  
Readouts

Alzheimer's Disease (TAU)  
Huntington's Disease (HTT)  
✓ Uncontrolled Hypertension (AGT)

1. Based on current assumptions, subject to change.

# Strengthening Our Commercial Foundation

Providing multi-billion-dollar revenue potential for Ionis<sup>1</sup>

## First Independent Launch Generating Strong Patient Demand

 **Tryngolza**<sup>®</sup>  
(olezarsen) 80 mg injection

First FDA-approved treatment for FCS

Q1:26 U.S. net sales of \$27M

EU Launch underway<sup>2</sup>

## Second Independent Launch Underway

 **DAWNZERA**<sup>™</sup>  
(donidalorsen) 80 mg/0.8 mL injection

Positioned to transform the HAE Treatment Paradigm

Q1:26 U.S. net sales of \$16M

Recently approved in the EU<sup>3</sup>

## Preparations on Track for First Broad Patient Population Launch

**Olezarsen in sHTG**

Groundbreaking Phase 3 results position olezarsen to be the new standard of care for sHTG

Granted Priority Review

PDUFA June 30, 2026

## Preparations on Track for First Independent Neurology Launch

**Zilganersen in Ax<sup>D</sup>**<sup>4</sup>

First ever investigational medicine to show a disease-modifying effect in Alexander disease

Granted Priority Review

PDUFA September 22, 2026

1. Timing expectations and peak sales estimates based on current assumptions and subject to change. 2. Sobi is responsible for commercializing TRYNGOLZA in the EU. 3. Otsuka is responsible for commercializing DAWNZERA in the EU. 4. Alexander Disease

# Marketed Products and Planned Launches Provide Substantial Revenue Growth Opportunity<sup>1</sup>

## Ionis-Owned Medicines

**>\$5B**

in Potential Annual Peak Product Revenue<sup>2</sup>



**>\$7B**

## Partner Medicines

**>\$2B**

in Potential Annual Peak Royalties<sup>2</sup>

1. Assumes additional approvals through 2028. Estimated timing of potential U.S. approval based on current assumptions and subject to change. 2. Peak sales estimates based on current estimates and subject to change. Partnered royalties based on public disclosure made by the respective partner and Ionis' contractual royalty rates for each medicine.

# Accelerating Revenue from Steady Cadence of Independent Launches<sup>1,2</sup>

**>\$5B**

in Potential Annual Peak Product Revenue from Recent Launches and Late-Stage Medicines

**Tryngolza<sup>®</sup>**  
(olezarsen) 80 mg injection

**DAWNZERA<sup>®</sup>**  
(donidalorsen) 80 mg/0.8 mL injection

**>\$500M**

**Olezarsen**  
(sHTG)

**>\$3B**

**Zilganersen**  
(Alexander disease)

**>\$100M**

**Obudanersen**  
(Angelman syndrome)

**>\$1B**

**5 Additional medicines**  
*in mid-stage development*

**Multi-Billion-Dollar**

**Multiple**  
Blockbuster Opportunities  
in our Pipeline Today

2026 Launches

Launch Timing

Today

2028+

# Royalty Growth Opportunities from Approved and Late-Stage Partnered Medicines<sup>1,2</sup>

**>\$2B**

in Potential Annual Peak Royalties<sup>2</sup>

**SPINRAZA<sup>®</sup>**  
(nusinersen) injection  
12 mg/5 mL

**QALSODY<sup>®</sup>**  
(tofersen) injection  
100 mg/15 mL

**>\$225M**

**WAINUA<sup>®</sup>**  
(eplontersen) 45 mg  
injection for subcutaneous use

**Bepirovirsen**  
(HBV)

**>\$275M**

**2026  
Launch**

**Pelacarsen**  
(Lp(a)-CVD)

**>\$550M**

**Eplontersen**  
(ATTR-CM)

**>\$800M**

**2027  
Launches**

**Sefaxersen**  
(IgAN)

**>\$100M**

**Salanersen**  
(SMA)

**>\$230M**

**Sapablursen**  
(PV)

**>\$150M**

Launch Timing

Today

2028+

1. Assuming approval. Estimated timing of potential U.S. approval based on current assumptions and subject to change. 2. Peak sales estimates based on current estimates and subject to change. Partnered royalties based on public disclosure made by the respective partner and Ionis' contractual royalty rates for each medicine.

# Significant Upside Potential from Late-Stage Partnered Programs

**>\$6B**

in Remaining  
Partner Payments

>50% anticipated to  
be earned by 2030<sup>1</sup>



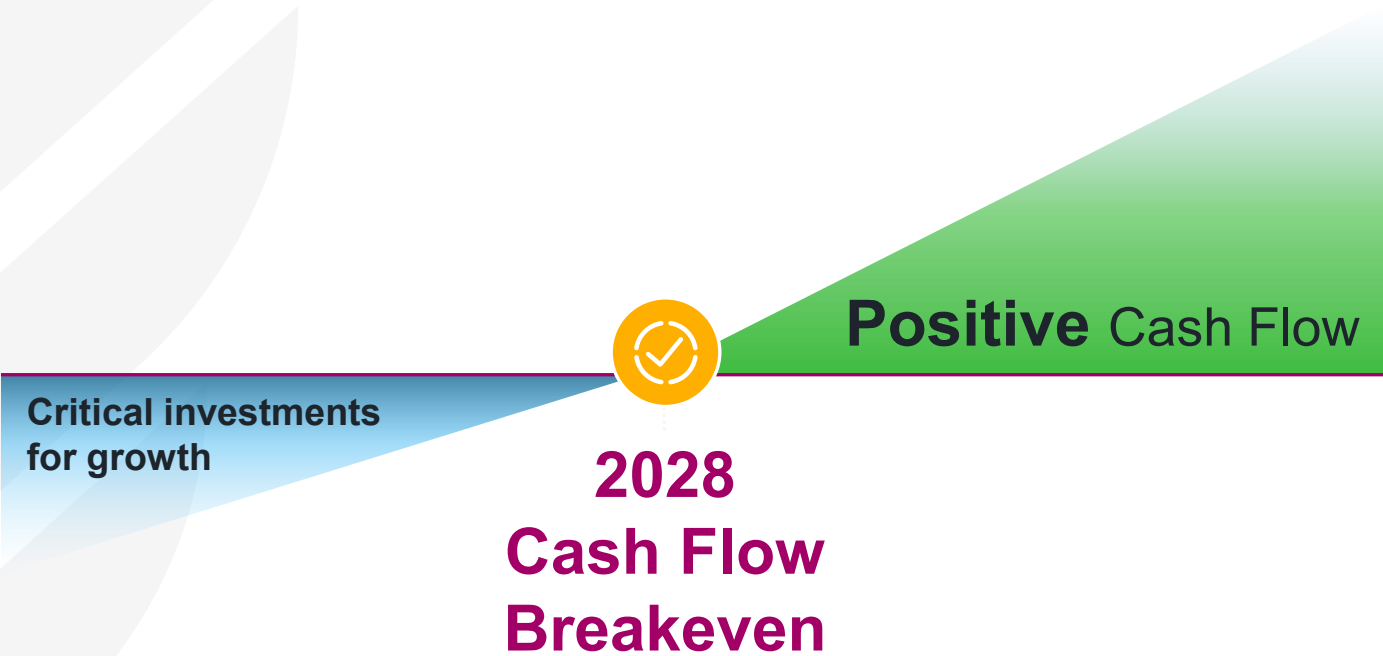
**Royalties**

Nearly All Partner Revenue  
Drops to the  
Bottom Line as Profit

	Total Remaining Milestone Payments <sup>4</sup>	Royalties
<b>Bepirovirsen</b> HBV	<b>&gt;\$200M</b>	Tiered, 10-12% on net sales
<b>Pelacarsen</b> <sup>2,3</sup> Lp(a)-CVD	<b>\$1.3B</b>	Tiered, mid-teens to low 20%
<b>WAINUA</b> ATTRv-PN ATTR-CM	<b>\$3.3B</b>	US: mid-20% OUS: Tiered up to high teens
<b>Sefaxersen</b> IgAN	<b>&gt;\$390M</b>	Tiered, high-teens to 20%
<b>Salanersen</b> SMA	<b>&gt;\$500M</b>	Tiered, mid-teens to mid-20%
<b>Sapablursen</b> PV	<b>\$660M</b>	Mid-teens

1. Based on current timing assumptions, subject to change. 2. Under Royalty Pharma agreement, 25% of pelacarsen royalties payable to Royalty Pharma. 3. Total payments include \$900M from Novartis and \$625M in milestone payments from Royalty Pharma. 4. As reported in Q1 2026 Form 10-Q.

# Clear Path to Sustained Positive Cash Flow<sup>1</sup>



## Key Drivers

-  **New product launches**
-  **Growing royalty revenue**
-  **Strong financial foundation**
-  **Disciplined expense management**

1. Based on current assumptions, subject to change.

# Ionis Corporate Responsibility Strategy Supports Long-term Value Creation

## Ionis Corporate Responsibility Strategic Pillars



**Innovate to improve the lives of people with serious disease**

We innovate across the business and work tirelessly to discover, develop and deliver important new medicines for people with serious diseases.



**Empower our people and communities**

We are committed to fostering an inclusive culture that drives excellence, embraces diversity and supports our communities.



**Operate responsibly and sustainably**

We operate with integrity to help create a better, more sustainable future for all through environmental stewardship and responsible business practices and stakeholder interactions.

# Focused High-Value Pipeline to Drive Continued Growth

## Cardiometabolic

	Indication	Preclinical	Ph1	Ph2	Ph3
<b>Olezarsen (ApoC-III)</b>	Severe hypertriglyceridemia	sNDA accepted with Priority Review			
<b>ION775 (ApoC-III)</b>	Severe hypertriglyceridemia				
<b>ION501 (Undisclosed)</b>	Myocardial disease				
<b>ION924 (Apo(a))</b>	Cardiovascular disease				
<b>ION573 (Undisclosed)</b>	Cardiovascular disease				
<b>Eplontersen (TTR)<sup>1</sup></b>	ATTR-CM				
<b>Pelacarsen (Apo(a))</b>	Cardiovascular disease				
<b>Tonlamarsen (Angiotensinogen)</b>	Acute severe hypertension				
<b>ION826 (PLN)</b>	Myocardial disease				

## Neurology

<b>Zilganersen (GFAP)</b>	Alexander disease	NDA accepted with Priority Review			
<b>Obudanersen (UBE3A-ATS)</b>	Angelman syndrome				
<b>ION464 (SNCA)</b>	Multiple System Atrophy				
<b>ION717 (PRNP)</b>	Prion disease				
<b>ION356 (PLP1)</b>	Pelizaeus-Merzbacher disease				
<b>ION440 (MECP2)</b>	MECP2 Duplication syndrome				
<b>ION337 (SCN1A)</b>	Dravet syndrome				
<b>Ulefnersen (FUS)</b>	Amyotrophic Lateral Sclerosis (ALS)				
<b>Tofersen (SOD1)</b>	ALS (Presymptomatic SOD1)				
<b>Salanersen (SMN2)</b>	Spinal Muscular Atrophy				
<b>IONIS-MAPT<sub>Rx</sub> (TAU)</b>	Alzheimer's disease				
<b>Tominersen (HTT)</b>	Huntington's disease				
<b>RG6496 (HTT SNP)</b>	Huntington's disease				

## Other Medicines

<b>Bepirovirsen (HBV)</b>	Chronic Hepatitis B	Global regulatory filings under review			
<b>Sefaxersen (Complement Factor B)</b>	IgA Nephropathy (IgAN)				
<b>Sapablursen (TMPRSS6)</b>	Polycythemia vera (PV)				

1. Co-developing and commercializing WAINUA for ATTRv-PN and ATTR-CM in U.S. with AstraZeneca

● Wholly Owned

● Partnered

● Co-Commercialized



The IONIS logo is centered at the top of the image. It features the word "IONIS" in a bold, magenta, sans-serif font. A stylized graphic element, consisting of three parallel diagonal lines in shades of orange and red, is positioned above the letter "N". A registered trademark symbol (®) is located to the upper right of the "S".

**IONIS<sup>®</sup>**

The background of the image is a black and white photograph of several hands stacked together in a circle. Each hand is holding a pill. The pills are of various shapes: some are round and some are heart-shaped. The word "HOPE" is embossed on the round pills, and "Hope" is written on the heart-shaped pill. The overall composition is centered and conveys a sense of unity and support.

**Accelerating Growth through  
Life-Changing Medicines**