

Second Quarter 2025 Financial Results

July 31, 2025



Agenda

Welcome

- **Christine Akinc**
Chief Corporate Communications Officer

Overview

- **Yvonne Greenstreet, M.D., MBA**
Chief Executive Officer

Commercial Highlights

- **Tolga Tanguer**
Chief Commercial Officer

Pipeline

- **Pushkal Garg, M.D.**
Chief Research & Development Officer

Financial Summary and Upcoming Milestones

- **Jeff Poulton**
Chief Financial Officer

Q&A Session

Alnylam Forward Looking Statements

This presentation contains forward-looking statements within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934. All statements other than historical statements of fact regarding Alnylam's expectations, beliefs, goals, plans or prospects including, without limitation, statements regarding the potential for Alnylam to drive sustainable growth and value creation for years to come; Alnylam's ability to be a long-term leader in TTR amyloidosis; the ability of Alnylam's R&D engine to deliver sustainable innovation and value creation; Alnylam's ability to achieve sustainable profitability; AMVUTTRA's position as a flagship commercial franchise with robust and durable long-term growth potential; the expectation that international markets will contribute to the launch of AMVUTTRA in ATTR-CM in the second half of 2025; Alnylam's ability to achieve the "*Alnylam P⁵x25*" goals by the end of 2025; Alnylam's ability to make AMVUTTRA the first-line treatment of choice for ATTR-CM; Alnylam's ability to achieve significant revenue growth going forward; Alnylam's ability to establish itself as a unique, top-tier biotech company delivering sustainable innovation for many years to come; Alnylam's ability to deliver long-term, innovation-driven growth; the potential for Alnylam to advance its research and development programs, and the timing of the initiation and readout of clinical trials of any of Alnylam's product candidates and of any approval and launch of any of Alnylam's product candidates; the expectation that the grant of Fast Track Designation to nuresiran will enable a more streamlined review process; the potential of Alnylam's pipeline to deliver multiple blockbuster opportunities and meaningful impact to patients for many years to come; and Alnylam's projected commercial and financial performance, including the revised expected range of TTR, Rare and combined net product revenues, net revenues from collaboration and royalties, combined Non-GAAP R&D and SG&A expenses and non-GAAP operating income for 2025, should be considered forward-looking statements.

Actual results and future plans may differ materially from those indicated by these forward looking statements as a result of various important risks, uncertainties and other factors, including, without limitation, risks and uncertainties relating to Alnylam's ability to successfully execute on its "*Alnylam P⁵x25*" goals; Alnylam's ability to discover and develop novel drug candidates and delivery approaches and successfully demonstrate the efficacy and safety of its product candidates; the pre-clinical and clinical results for Alnylam's product candidates; actions or advice of regulatory agencies and Alnylam's ability to obtain and maintain regulatory approval for its product candidates, as well as favorable pricing and reimbursement; successfully launching, marketing and selling Alnylam's approved products globally; delays, interruptions or failures in the manufacture and supply of Alnylam's product candidates or its marketed products; obtaining, maintaining and protecting intellectual property; Alnylam's ability to manage its growth and operating expenses through disciplined investment in operations and its ability to achieve sustainable profitability; Alnylam's ability to maintain strategic business collaborations; Alnylam's dependence on third parties for the development and commercialization of certain products, including Roche, Novartis, Sanofi, Regeneron and Vir; the outcome of litigation; the potential risk of future government investigations; and unexpected expenditures; as well as those risks more fully discussed in the "Risk Factors" filed with Alnylam's 2024 Annual Report on Form 10-K filed with the SEC and in its other SEC filings. In addition, any forward-looking statements represent Alnylam's views only as of the date of this presentation and should not be relied upon as representing Alnylam's views as of any subsequent date. Alnylam explicitly disclaims any obligation, except to the extent required by law, to update any forward-looking statements.

This presentation references non-GAAP financial measures. These measures are not in accordance with, or an alternative to, GAAP, and may be different from non-GAAP financial measures used by other companies. Percentage changes in revenue growth at Constant Exchange Rates, or CER, is a non-GAAP financial measure which is presented excluding the impact of changes in foreign currency exchange rates for investors to understand the underlying business performance. CER represents growth calculated as if the exchange rates had remained unchanged from those used during the prior fiscal year.

| || Overview

Yvonne Greenstreet, M.D., MBA

Chief Executive Officer

Positioned for Success Through 2025 and Beyond



Best-in-Class Team + Award-Winning Culture

A wide, rounded rectangular box with a magenta background. The text "Best-in-Class Team + Award-Winning Culture" is written in white, bold, sans-serif font.

Durable TTR Leadership Drove Q2 Performance

Innovative Pipeline Advancing



TTR Leadership

\$544M
(+77% YoY)

Q2 Total TTR
Net Revenues

~1,400

ATTR-CM Patients
Receiving AMVUTTRA
(as of June 30, 2025)



Growth Through Innovation

ATTR-CM
nucesiran

Initiated TRITON-CM
Phase 3 Study

**Alzheimer's
Disease**
mivelsiran

Announced Phase 1
Multidose Results

**Type 2
Diabetes**
ALN-4324

Initiated Phase 1
Study



Strong Financial Performance

\$672M
(+64% YoY)

Q2 Total Net
Product Revenues

**\$2,650M
to \$2,800M**
(+\$575M/
+27% midpoint)

Increased 2025
Total Net Product
Revenue Guidance

Continued Progress Against Fulfillment of Ambitious Goals



P5  25

PATIENTS: Over 0.5 million on Alnylam RNAi therapeutics globally

PRODUCTS: 6+ marketed products in rare and prevalent diseases

PIPELINE: Over 20 clinical programs; 10+ in late stages; 4+ INDs per year

PERFORMANCE: ≥40% revenue CAGR through YE 2025

PROFITABILITY: Achieve sustainable non-GAAP profitability within period

I II Commercial Highlights

Tolga Tanguler

Chief Commercial Officer

Accelerating Performance in Q2 2025

Strong Growth Achieved Across Franchises and Regions

Q2 2025 Overall Portfolio

\$672M

Total Net Product Revenues

+64%

YoY growth¹
vs. Q2'24

+43%

QoQ growth¹
vs. Q1'25

TTR Franchise

amvuttra
(vutrisiran) injection
25 mg/0.5 mL

onpattro
(patisiran) lipid complex injection
10 mg/5 mL

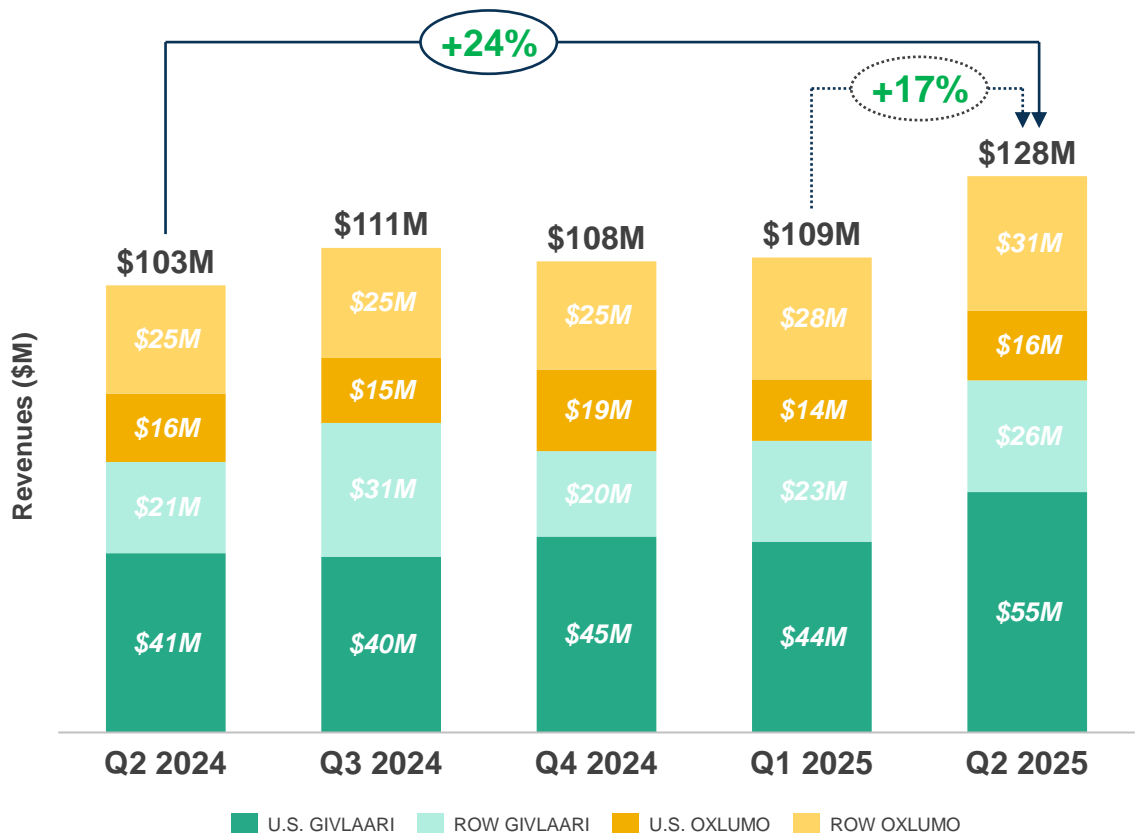
Rare Franchise

GIVLAARI[®]
(givosiran) injection for subcutaneous use
189 mg/mL

OXLUMO[®]
(lumasiran) for injection
94.5 mg/0.5 mL

Q2 2025: Driving Consistent Rare Franchise Growth

\$128M
Total Rare
Global Q2 2025
Net Product Revenues



Q2 2025 Rare Franchise Highlights

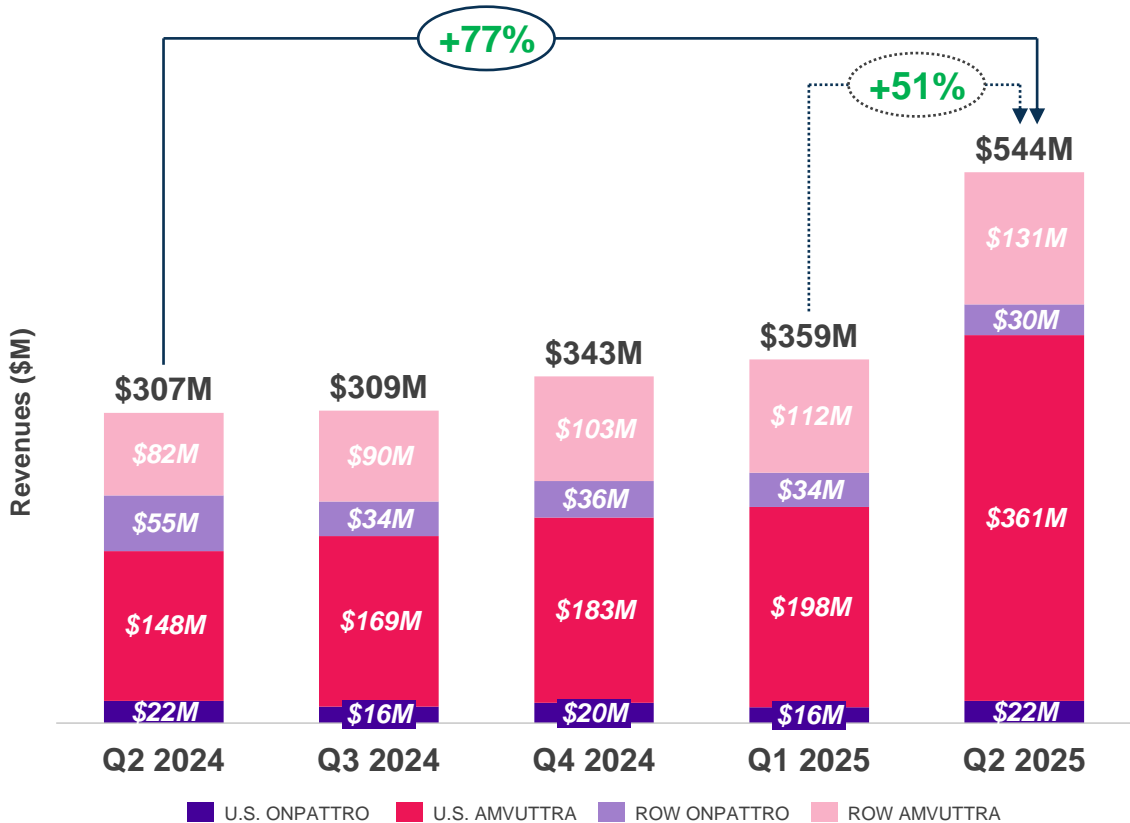
	YoY % Growth	QoQ % Growth
GIVLAARI	30%	21%
OXLUMO	15%	11%
TOTAL Rare	24%	17%

- GIVLAARI YoY +30% growth highlights:
 - ~18% YoY increase in global patients on therapy
 - U.S. growth favorably impacted by a gross-to-net adjustment in Q2
- OXLUMO YoY +15% growth highlights:
 - ~16% YoY increase in global patients on therapy
- Modest FX tailwind -1% (YoY CER¹ growth = 23%)

Q2 2025: Growth Inflection Driven by U.S. ATTR-CM Launch



\$544M
Total TTR
Global Q2 2025
Net Product Revenues

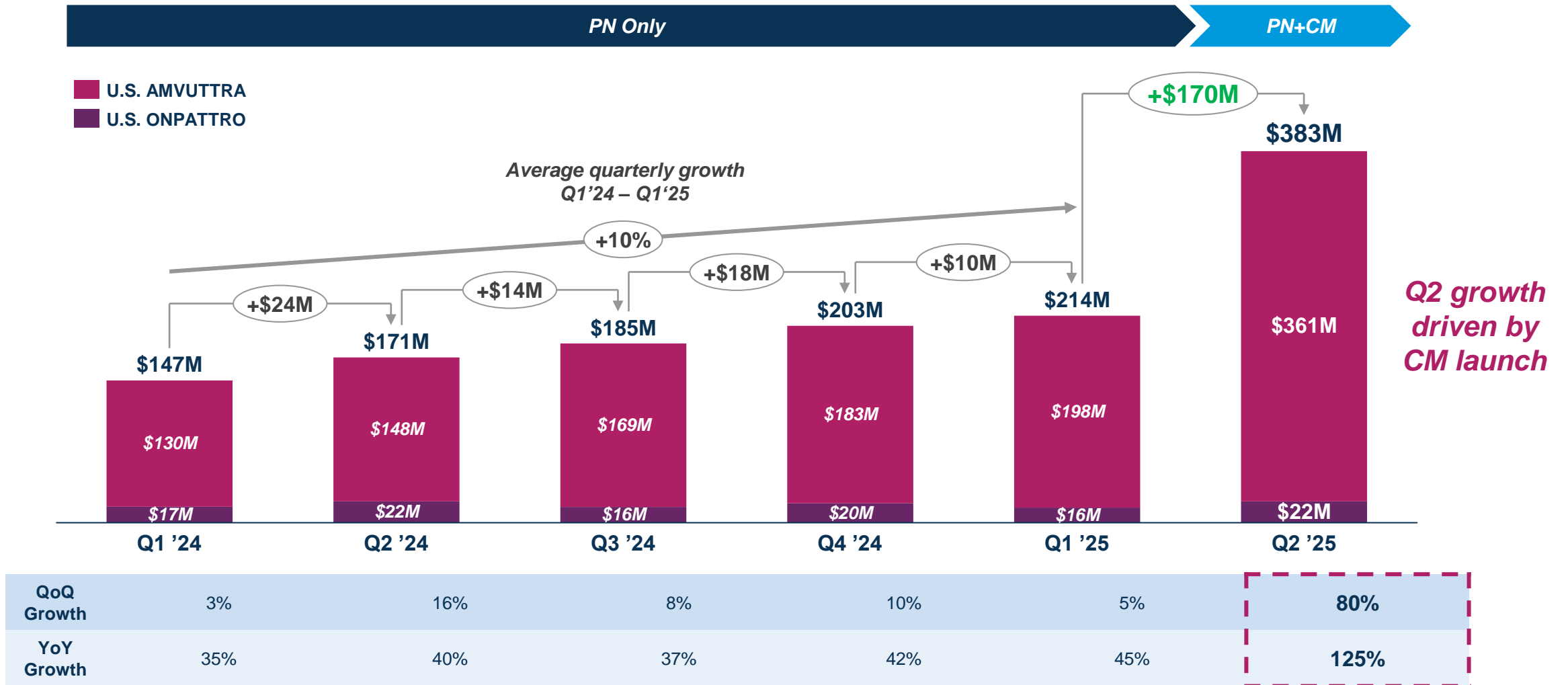


Q2 2025 TTR Franchise Highlights

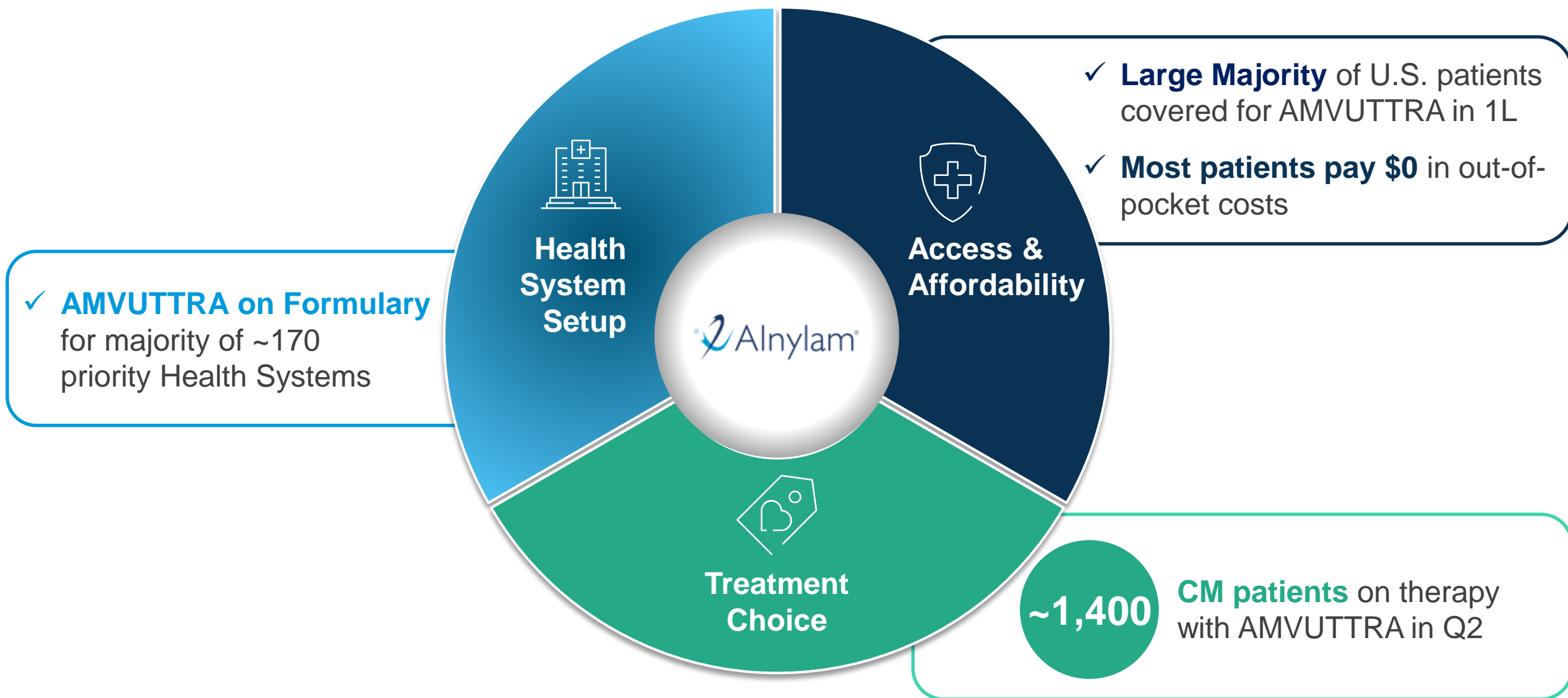
	YoY % Growth	QoQ % Growth
U.S.	125%	80%
ROW	18%	10%
Global	77%	51%

- U.S. Q2 '25 vs. Q1 '25 (QoQ) +80% growth highlights:
 - Substantial demand growth driven by ATTR-CM launch: ~1,400 CM patients on therapy at end of Q2, and ~\$150M ATTR-CM Q2 revenue
 - Demand driven inventory channel build (~\$25M benefit vs. Q1) offset by increase in gross-to-net deductions
- U.S. Q2 '25 vs. Q2 '24 (YoY) +125% growth highlights:
 - 115% demand growth driven primarily by ATTR-CM launch
 - Additional 10% growth due to demand driven inventory channel build
- ROW YoY +18% growth primarily driven by continued hATTR-PN patient growth with no ATTR-CM sales occurring in Q2 '25
- Modest FX tailwind -2% (YoY CER¹ growth = 75%)

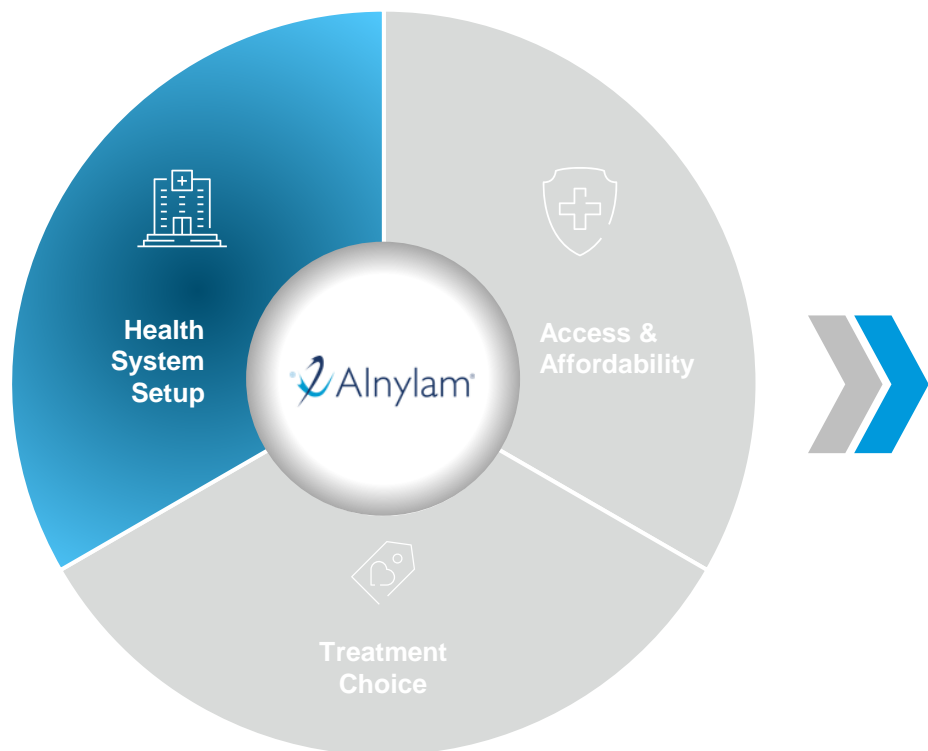
Q2 2025: Step Change in Growth Indicates ~\$150 Million in U.S. ATTR-CM Launch Revenue




ATTR-CM U.S. Launch Focused on 3 Key Enablers



ATTR-CM | Rapid Progress on Health System Setup



✓



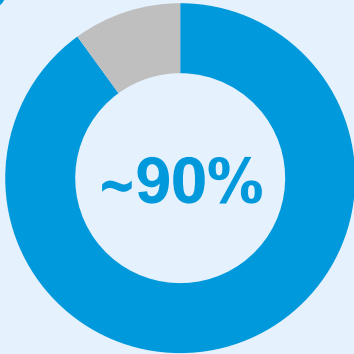
AMVUTTRA on formulary for **majority of ~170** priority Health Systems

✓

>2,000

Alternate Sites of Care enabled

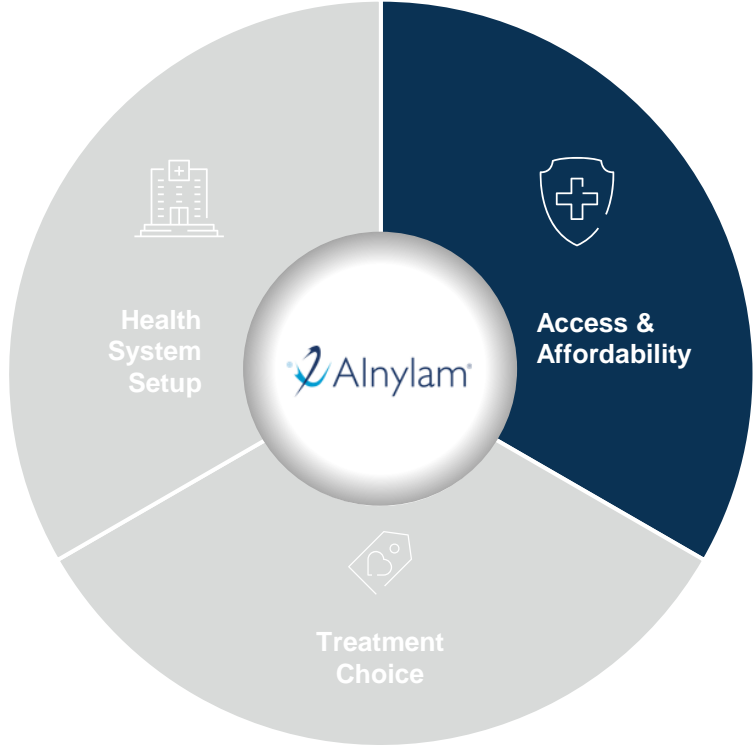
✓



~90%

U.S. patients able to receive AMVUTTRA within ~10 miles of home

ATTR-CM | Patients Are Accessing AMVUTTRA in First Line



Large majority of U.S. patients
have first-line payer coverage
(no step through required)

Most patients have paid

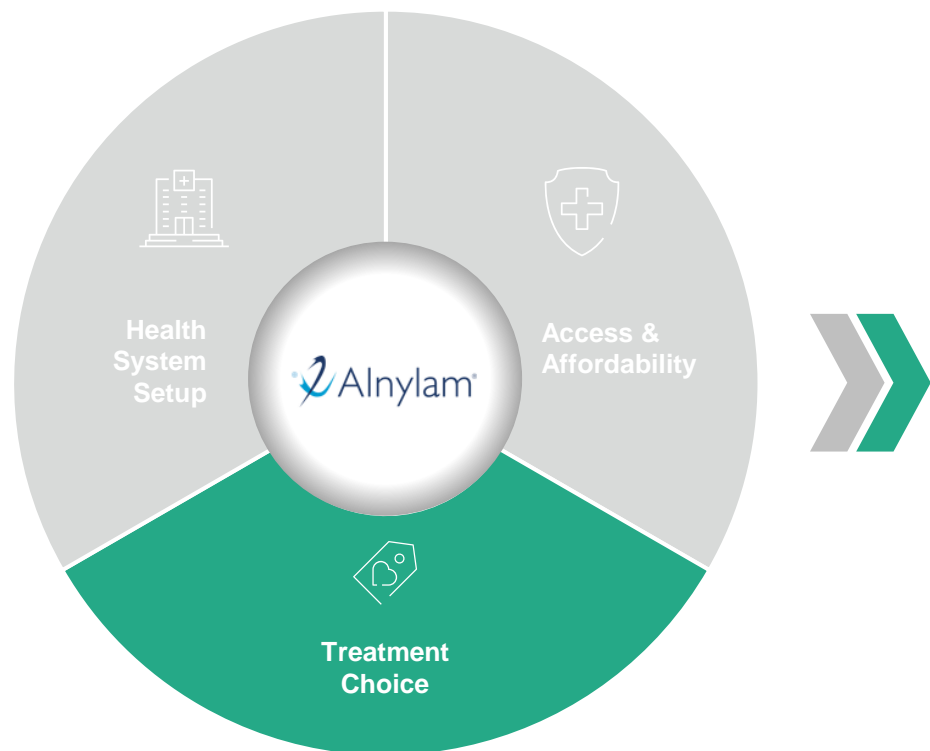
\$0

out of pocket



Confirmed utilization
across **all payer segments**

ATTR-CM | HCPs & Patients Are Choosing AMVUTTRA



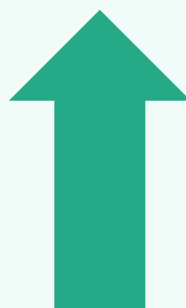
~1,400

CM patients on therapy with AMVUTTRA in Q2



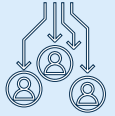
Broad & balanced utilization

(i.e., New To Treatment & Stabilizer Progressor; Academic & Community)

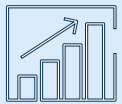


3X increase in total AMVUTTRA prescribers QoQ

Strong Launch Progress Expected to Drive Sustainable Growth



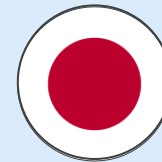
✓ Well positioned for TTR leadership



✓ Growing & underserved category



✓ Expanding impact with ROW ATTR-CM launches



I II Pipeline

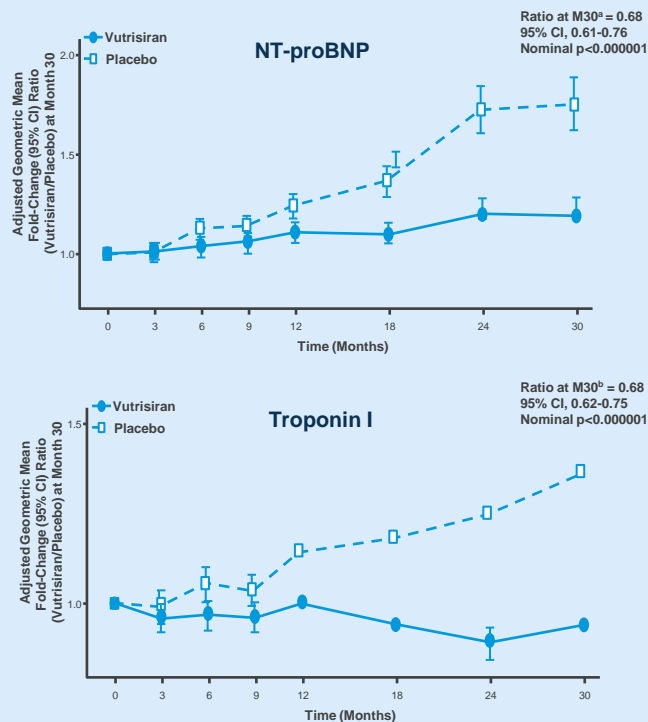
Pushkal Garg, M.D.

Chief Research & Development Officer

Additional Data from HELIOS-B Continue to Drive Confidence in AMVUTTRA's Clinically Differentiated Profile

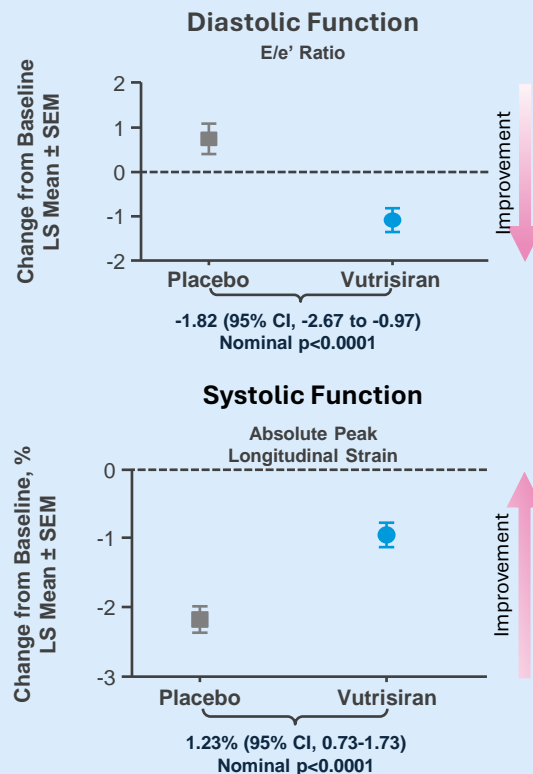
Biomarkers¹

Vutrisiran improved NT-proBNP and Troponin I levels vs. placebo



Cardiac Structure & Function²

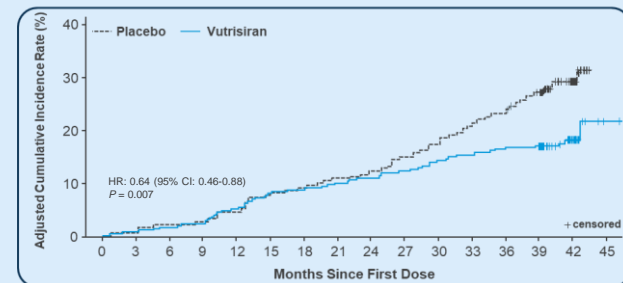
Vutrisiran was associated with improvements in echocardiographic assessments at month 30



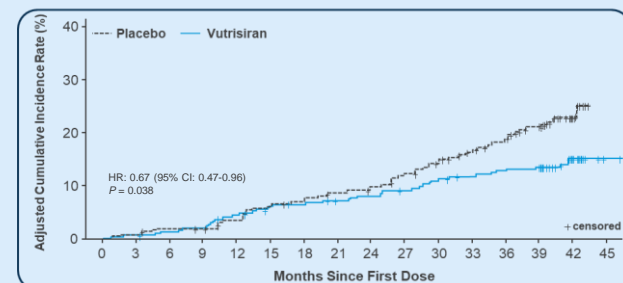
Survival³

Vutrisiran reduced all-cause & cardiovascular mortality through month 42

ACM Risk Reduction of 36% Through 42 Months in the Overall Population



CVM Risk Reduction of 33% Through 42 Months in the Overall Population



Nucresiran TRITON Phase 3 Program

Next-generation silencer with potential for greater TTR knockdown, improved efficacy, and biannual dosing



CVO primary endpoint
(event driven)

- Randomized, double-blind, event-driven outcomes study
- Initiated



**U.S. FDA
Fast Track Designation**

**Targeting Launch
~2030**



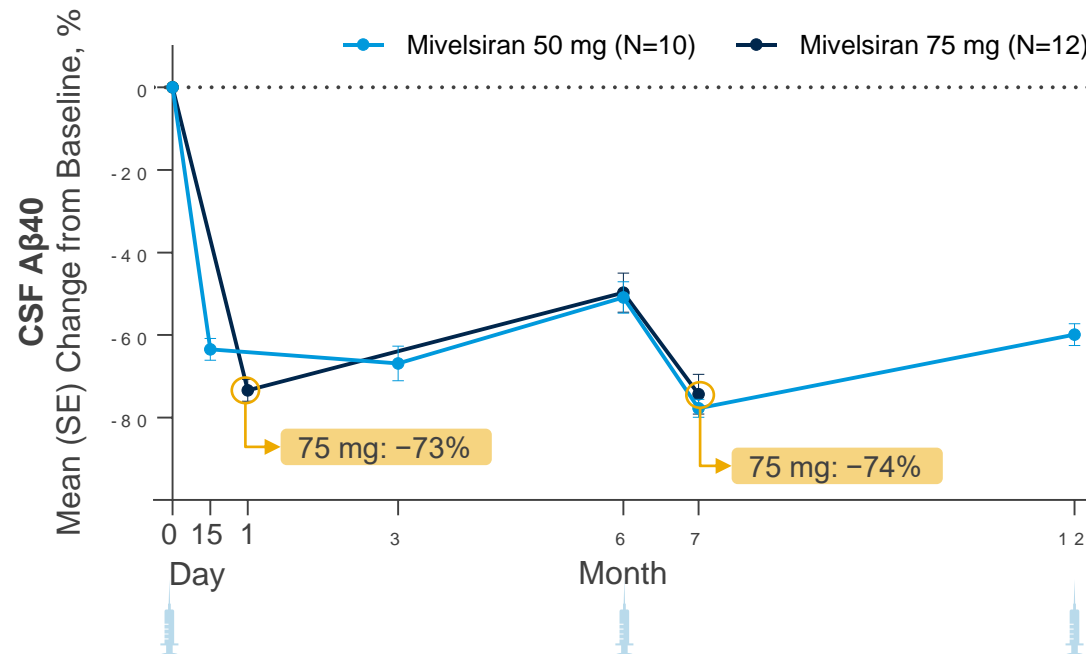
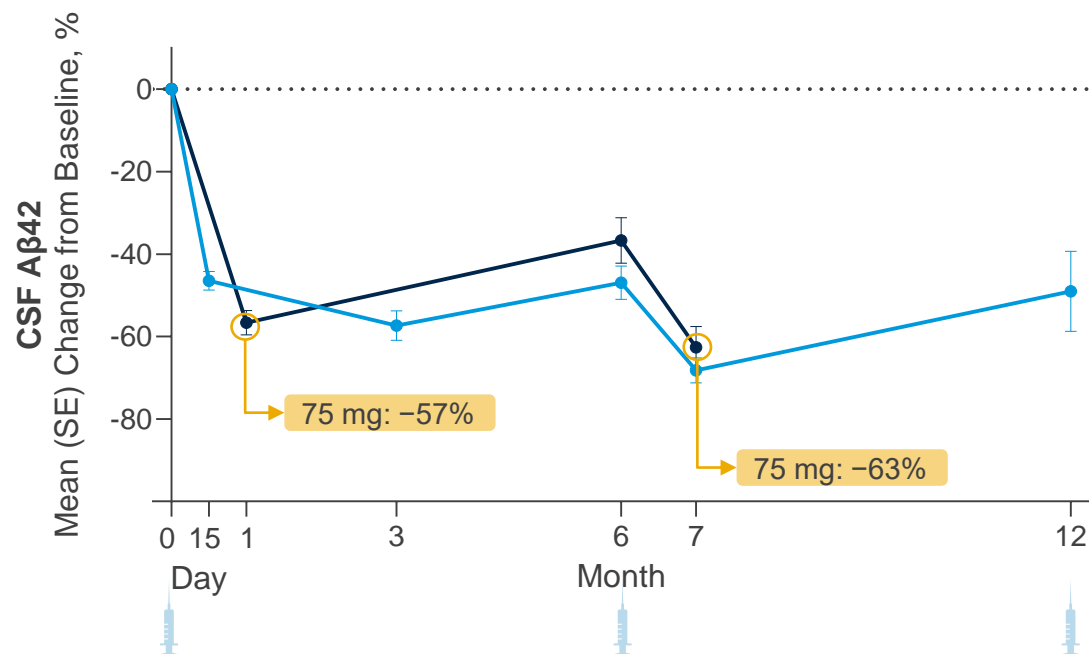
mNIS+7 primary
endpoint

- Exploring efficient designs; history of innovative designs with HELIOS-A FPI to top line in ~2 years
- Initiation expected late 2025

**Targeting Launch
several years earlier**

Mivelsiran: Durable Knockdown and Tolerability Observed >1 Year

Multiple Doses of Mivelsiran Provided Additional Reductions in CSF A β 42 and A β 40 Levels



Encouraging Safety and Tolerability Profile

- Majority of AEs were nonserious, mild or moderate, and deemed unrelated to the study drug
- No serious or severe AEs were deemed related to study drug
- The two most common AEs were procedural pain and procedural headache
- No notable increases in CSF WBCs, protein or NfL

Robust and High-Value Pipeline of RNAi Therapeutics

		PHASE 1	PHASE 2	PHASE 3	APPROVED
TTR	ONPATTRO® (patisiran)	hATTR Amyloidosis with Polyneuropathy			
	AMVUTTRA® (vutrisiran)	ATTR Amyloidosis with Cardiomyopathy and hATTR Amyloidosis with Polyneuropathy			
	Nucresiran (ALN-TTRsc04)	ATTR Amyloidosis with Cardiomyopathy			
RARE	GIVLAARI® (givosiran)	Acute Hepatic Porphyria			
	OXLUMO® (lumasiran)	Primary Hyperoxaluria Type 1			
	Qfitlia™ (fitusiran) ¹	Hemophilia A or B			
	Cemdisiran ¹	Myasthenia Gravis			
	Cemdisiran ¹	Paroxysmal Nocturnal Hemoglobinuria			
	ALN-6400	Bleeding Disorders			
	AG-236 (ALN-TMP) ¹	Polycythemia Vera			
CARDIOVASCULAR	Leqvio® (inclisiran) ¹	Hypercholesterolemia			
	Zilebesiran ²	Hypertension			
	Zilebesiran + REVERSIR ²	Hypertension			
METABOLIC	Rapirosiran (ALN-HSD) ¹	Metabolic Dysfunction-Associated Steatohepatitis (MASH)			
	ALN-4324	Type 2 Diabetes Mellitus			
	ALN-PNP ³	Non-Alcoholic Fatty Liver Disease (NAFLD)			
	ALN-APOC3 ¹	Dyslipidemia			
	ALN-CIDEB ¹	MASH			
NEUROLOGIC	Mivelsiran ⁴	Cerebral Amyloid Angiopathy			
	Mivelsiran ⁴	Alzheimer's Disease			
	ALN-HTT02 ⁵	Huntington's Disease			
	ALN-SOD ³	SOD1 Amyotrophic Lateral Sclerosis			
OTHER	Cemdisiran ¹	Geographic Atrophy			
	Elebsiran ¹	Hepatitis D Virus Infection			
	Elebsiran ¹	Hepatitis B Virus Infection			
	ALN-BCAT	Hepatocellular Carcinoma			
	ALN-ANG3 ¹	Healthy Volunteers			
	ALN-F1202 ¹	Healthy Volunteers			

I II **Financial Summary and Upcoming Milestones**

Jeff Poulton

Chief Financial Officer

Q2 2025 Financial Summary

(\$ in millions except where noted as percentages)	Q2 2024	Q2 2025	Q2 2025 vs Q2 2024 (Reported)	Q2 2025 vs Q2 2024 (CER ²)
<u>Total Net Product Revenues</u>	\$410	\$672	64%	62%
<u>Net Revenues from Collaborations & Royalties</u>	249	101	(59%)	
Collaboration Revenue	227	61	(73%)	
Royalty Revenue	22	40	78%	
<u>Total Revenues</u>	660	774	17%	
<u>Total Cost of Goods Sold, Collaborations & Royalties</u>	69	143		
Gross Margin on Product Revenues	84%	79%		
Gross Margin on Total Revenues	90%	82%		
<u>Non-GAAP Combined R&D and SG&A Expenses</u>¹	453	535	18%	
R&D	246	274	11%	
SG&A	207	261	26%	
<u>Non-GAAP Operating Income</u>	138	95		
Non-GAAP Operating Margin	21%	12%		
<u>Non-GAAP Net Income</u>	74	44		

(\$ in millions)	Q4 2024	Q2 2025
Cash, Cash Equivalents & Marketable Securities (period end)	2,695	2,858

¹ Non-GAAP R&D expenses, Non-GAAP SG&A expenses and Non-GAAP operating income / (loss) are non-GAAP financial measures that exclude from the corresponding GAAP measures costs related to stock-based compensation expense. A reconciliation of these non-GAAP financial measures to the comparable GAAP measures, as well as additional information regarding our use of non-GAAP financial measures, are included in the Appendix to this presentation and in our press release dated July 31, 2025, which is accessible in the Investors section of our website at www.alnylam.com.

² CER growth rates represent growth at Constant Exchange Rates, a non-GAAP financial measure determined by comparing Q2 2025 performance (restated using Q2 2024 exchange rates) to actual Q2 2024 reported performance.

2025 Full-Year Guidance Upgraded

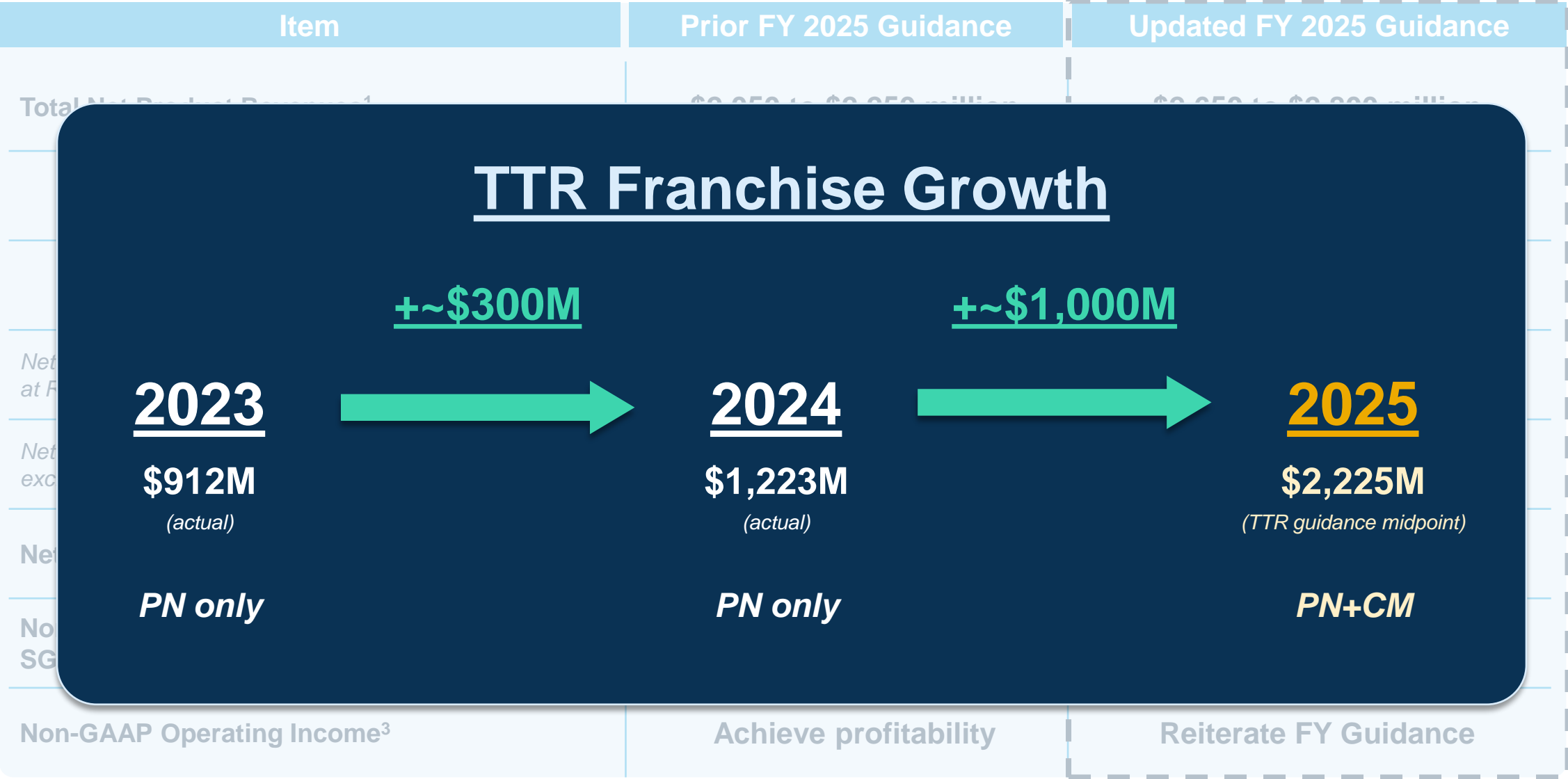
Item	Prior FY 2025 Guidance	Updated FY 2025 Guidance
Total Net Product Revenues¹	\$2,050 to \$2,250 million	\$2,650 to \$2,800 million
<ul style="list-style-type: none"> Total Rare Net Product Revenues (GIVLAARI, OXLUMO) 	\$450 to \$525 million	\$475 to \$525 million
<ul style="list-style-type: none"> Total TTR Net Product Revenues (PN & CM) (AMVUTTRA, ONPATTRO) 	\$1,600 to \$1,725 million	\$2,175 to \$2,275 million
<i>Net Product Revenues Growth vs. 2024 at Reported FX Rates¹</i>	25% to 37%	61% to 70%
<i>Net Product Revenues Growth vs. 2024 at constant exchange rates (i.e., operational growth)²</i>	26% to 39%	59% to 68%
Net Revenues from Collaborations & Royalties	\$650 to \$750 million	Reiterate FY Guidance
Non-GAAP Combined R&D and SG&A Expenses³	\$2,100 to \$2,200 million	Reiterate FY Guidance
Non-GAAP Operating Income³	Achieve profitability	Reiterate FY Guidance

¹ Our 2025 FY Guidance is based upon June 30, 2025 FX rates including 1 EUR = 1.17 USD and 1 USD = 144 JPY

² CER = constant exchange rate, representing growth calculated as if exchange rates had remained unchanged from those used in 2024. CER is a non-GAAP financial measure

³ 2025 Non-GAAP Combined R&D and SG&A Expenses and Non-GAAP Operating Income guidance are non-GAAP financial measures that exclude from the corresponding GAAP measures stock-based compensation expense estimated at \$270M - \$330M in the Prior FY 2025 Guidance, and \$345M - \$375M in the Updated FY 2025 Guidance.

2025 Full-Year Guidance Upgraded







¹ Our 2025 FY Guidance is based upon June 30, 2025 FX rates including 1 EUR = 1.17 USD and 1 USD = 144 JPY

² CER = constant exchange rate, representing growth calculated as if exchange rates had remained unchanged from those used in 2024. CER is a non-GAAP financial measure

³ 2025 Non-GAAP Combined R&D and SG&A Expenses and Non-GAAP Operating Income guidance are non-GAAP financial measures that exclude from the corresponding GAAP measures stock-based compensation expense estimated at \$270M - \$330M in the Prior FY 2025 Guidance, and \$345M - \$375M in the Updated FY 2025 Guidance.

A Inylam 2025 Goals

   		Combined Net Product Revenue Guidance \$2,650M – \$2,800M	2025
VUTRISIRAN	ATTR Amyloidosis	U.S. FDA Approval	March 20, 2025 ✓
		Additional Global Approvals (Japan, EU)	Q2, Q3 ✓
NUCRESIRAN* (ALN-TTRsc04)	ATTR Amyloidosis	Initiate Phase 3 Study in ATTR-CM	H1 ✓
		Initiate Phase 3 Study in hATTR-PN	H2
ZILEBESIRAN*	Hypertension	KARDIA-3 Phase 2 Results	H2
		Initiate Phase 3 CVOT	H2
MIVELSIRAN*	Cerebral Amyloid Angiopathy and Alzheimer's Disease	Interim Phase 1 Part B Data in EOAD	H2 ✓
		Initiate Phase 2 Study in AD	H2
ALN-6400*	Bleeding Disorders	Initiate Phase 2 Study	H2
ADDITIONAL PROGRAMS		File ≥4 New INDs	2025
KEY PARTNER-LED PROGRAM MILESTONES			
FITUSIRAN (Sanofi)	Hemophilia	U.S. FDA Approval	March 28, 2025 ✓
ELEBSIRAN* (Vir)	Chronic HBV/HDV	Initiate Phase 3 study in HDV	H1 ✓
		Phase 2 HBV Functional Cure Results	Q2 ✓
CEMDISIRAN* (Regeneron)	Complement-Mediated Diseases	Phase 3 MG Results	H2

| || Q&A Session

Q2 2025 Financial Results

A man and a young boy are sitting on a boat, fishing. The man is wearing a light blue shirt, a tan hat, and sunglasses. The boy is wearing a striped shirt and jeans. They are both smiling and looking at the fishing rod. The background is a sunset over water with mountains in the distance. The text "Silence disease" is overlaid on the left side of the image.

Silence disease

Amplify life™

A row of colorful vertical bars in various colors including blue, green, yellow, orange, red, and purple.

 Alnylam®

| || Appendix

Q2 2025 Financial Results



Alnylam Pharmaceuticals, Inc.

Reconciliation of Selected GAAP Measures to Non-GAAP Measures (In thousands)

	Three Months Ended	
	June 30, 2025	June 30, 2024
Reconciliation of GAAP to Non-GAAP Research and development expenses:		
GAAP Research and development expenses	\$ 323,621	\$ 294,142
Less: Stock-based compensation expenses	(49,552)	(48,115)
Non-GAAP Research and development expenses	<u>\$ 274,069</u>	<u>\$ 246,027</u>
Reconciliation of GAAP to Non-GAAP Selling, general and administrative expenses:		
GAAP Selling, general and administrative expenses	\$ 323,314	\$ 248,397
Less: Stock-based compensation expenses	(62,128)	(41,173)
Non-GAAP Selling, general and administrative expenses	<u>\$ 261,186</u>	<u>\$ 207,224</u>
Reconciliation of GAAP to Non-GAAP Income (loss) from operations:		
GAAP (Loss) income from operations	\$ (16,199)	\$ 48,614
Add: Stock-based compensation expenses	111,680	89,288
Non-GAAP Operating income	<u>\$ 95,481</u>	<u>\$ 137,902</u>
Reconciliation of GAAP to Non-GAAP Net income (loss):		
GAAP Net loss	\$ (66,277)	\$ (16,889)
Add: Stock-based compensation expenses	111,680	89,288
Add: Realized and unrealized loss on marketable equity securities	1,350	1,367
Less: Income tax effect of GAAP to non-GAAP reconciling items	(2,631)	—
Non-GAAP Net income	<u>\$ 44,122</u>	<u>\$ 73,766</u>



Alnylam Pharmaceuticals, Inc.

Reconciliation of Product Revenue and Growth at Constant Currency

	June 30, 2025
	Three Months Ended
Total TTR net product revenue growth, as reported	77 %
Add: Impact of foreign currency translation	(2)
Total TTR net product revenue growth at constant currency	75 %
Total Rare net product revenue growth, as reported	24 %
Add: Impact of foreign currency translation	(1)
Total Rare net product revenue growth at constant currency	23 %
Total net product revenue growth, as reported	64 %
Add: Impact of foreign currency translation	(2)
Total net product revenue growth at constant currency	62 %
Total revenue growth, as reported	17 %
Add: Impact of foreign currency translation	(1)
Total revenue growth at constant currency	16 %