

Welcome

• Christine Akinc
Chief Corporate Communications Officer

Overview

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

Commercial Highlights

Tolga Tanguler
 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, Alnylam's confidence in the long-term strength and sustainability of its TTR franchise, and the prospects for RNAi therapeutics to become the standard of care in TTR amyloidosis; Alnylam's ability to sustain profitability going forward; Alnylam's confidence in the launch of AMVUTTRA in ATTR-CM and the performance of its other commercial products for the remainder of 2025; the expectation that Alnylam will launch AMVUTTRA in ATTR-CM in jurisdictions outside the U.S. in 2026, that the majority of ex-U.S. launches will begin in 2026, and that additional AMVUTTRA markets will come online in ATTR-CM in the years ahead; Alnylam's ability to achieve the "Alnylam P⁵x25" goals and to evolve into a top-tier biotech company; Alnylam's ability to establish AMVUTTRA as the first-line treatment for ATTR-CM; the belief that ATTR-CM is a growing and underserved category; Alnylam's ability to achieve significant revenue growth going forward; Alnylam's ability to build a pipeline that has the potential to drive sustainable growth and long-term value creation; the potential multi-billion dollar opportunities within Alnylam's pipeline and the ability of Alnylam's R&D engine to deliver sustainable innovation and value creation for many years to come; the potential for Alnylam to successfully advance its research and development programs; the timing of the initiation and readout of clinical trials of any of Alnylam's product candidates; the potential product profiles and benefits of Alnylam's product candidates, including zilebesiran

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; the possibility of unfavorable new clinical data and further analyses of existing clinical data; interim and preliminary data; the possibility that clinical data are subject to differing interpretations and assessments by regulatory agencies; 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

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



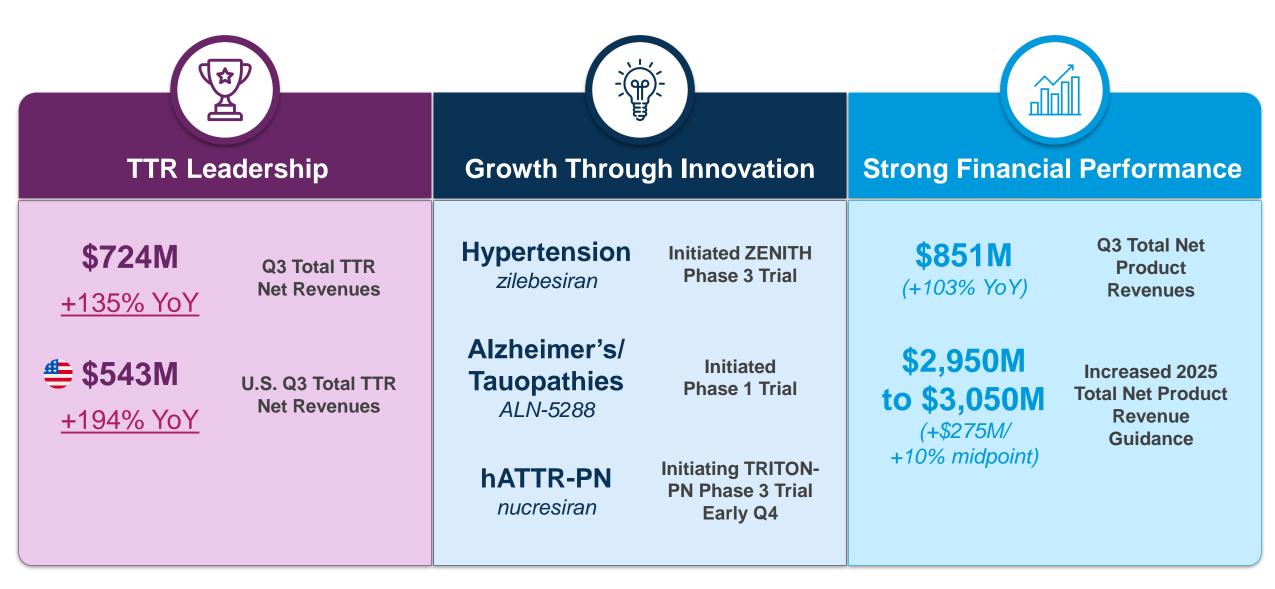
Positioned for Success Through 2025 and Beyond



Best-in-Class Team + Award-Winning Culture



□ TTR Leadership Drove Q3 Results and Increase to FY25 Guidance





☐ Tremendous Progress on Alnylam P⁵x25 Goals



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



Unit Commercial Highlights

Tolga Tanguler

Chief Commercial Officer



□ Robust Performance in Q3 2025

Strong Growth Achieved Across Franchises and Regions

Q3 2025 Overall Portfolio

\$851M

Combined Net Product Revenues

+103%

YoY growth¹ vs. Q3'24

+27%

QoQ growth¹ vs. Q2'25

TTR Franchise



Rare Franchise



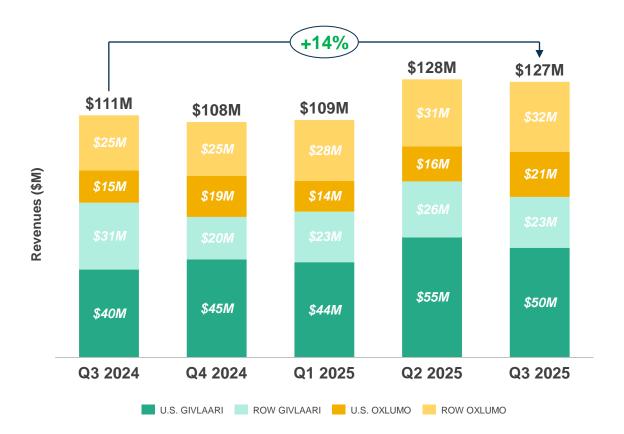




Q3 2025: Sustained Rare Franchise Performance

\$127M

Total Rare Global Q3 2025 Net Product Revenues







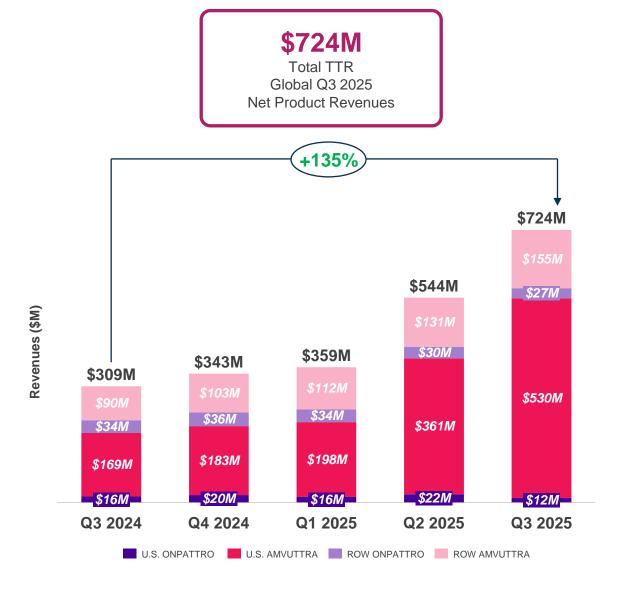
Q3 2025 Rare Franchise Highlights

	QoQ % Growth	YoY % Growth
GIVLAARI	-9%	4%
OXLUMO	13%	31%
TOTAL Rare	-1%	14%

- GIVLAARI YoY +4% growth highlights:
 - ~17% YoY increase in global patients on therapy
 - Reported YoY growth in product sales less than growth in patients primarily due to timing of orders in partner markets
- OXLUMO YoY +31% growth highlights:
 - ~15% YoY increase in global patients on therapy
 - Reported YoY growth in product sales higher than growth in patients primarily due to U.S. inventory build, gross-to-net favorability, and timing of orders in partner markets
- Modest FX tailwind +3% (YoY CER¹ growth = 11%)



| | AMVUTTRA ATTR-CM Launch Momentum Continues in Q3 2025







Q3 2025 TTR Franchise Highlights

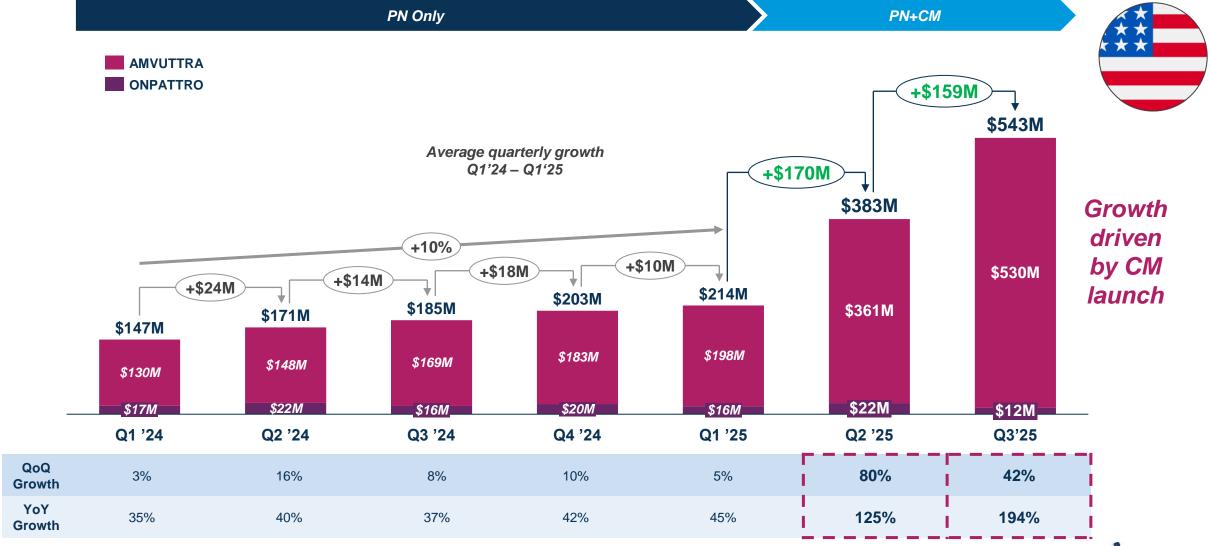
	QoQ % Growth	YoY % Growth
U.S.	42%	194%
ROW	13%	46%
Global	33%	135%

- U.S. Q3'25 vs. Q2'25 (QoQ) +42% growth highlights:
 - Continued substantial demand growth (+47%) driven by ATTR-CM launch, estimated ~\$300M ATTR-CM Q3 revenue²
 - Demand driven inventory channel build more than fully offset by increase in gross-to-net deductions
- U.S. Q3'25 vs. Q3'24 (YoY) +194% growth highlights:
 - ~200% demand growth driven primarily by ATTR-CM launch
 - Partially offset by increase in gross-to-net deductions, in line with our expectations of a mid-single digit decrease in net price YoY
- ROW YoY +46% growth primarily driven by continued ATTR-PN patient growth and initial uptake in ATTR-CM sales in Japan and Germany
- Modest FX tailwind +4% (YoY CER¹ growth = 131%)



I ■ AMVUTTRA ATTR-CM Launch Momentum Continues in Q3 2025

Total TTR Growth in U.S. Driven by Estimated ~\$300 Million in ATTR-CM Revenue



| | ATTR-CM U.S. Launch Momentum Continues

✓ Nearly all priority health systems using AMVUTTRA in ATTR-CM

√ ~90% of patients can receive AMVUTTRA within ~10 miles of home

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Health System Setup ([-]

Access & Affordability

✓ Large majority of U.S. patients covered for AMVUTTRA in 1L

Most patients pay \$0 in out-ofpocket costs

✓ Doubled demand QoQ

✓ Broad & balanced utilization across all patient segments

Expanded prescriber base



2AInylam

Treatment Choice



☐ Strong Launch Progress Expected to Drive Sustainable Growth



✓ Well positioned for TTR leadership



✓ Growing & underserved category



✓ Adding global markets in 2026+



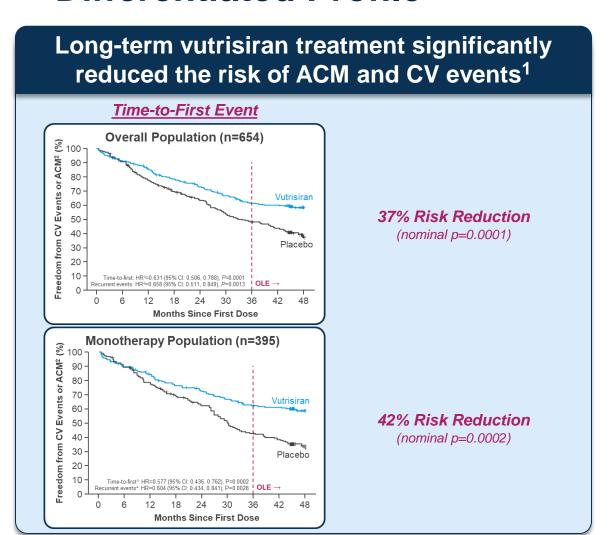
□ Pipeline

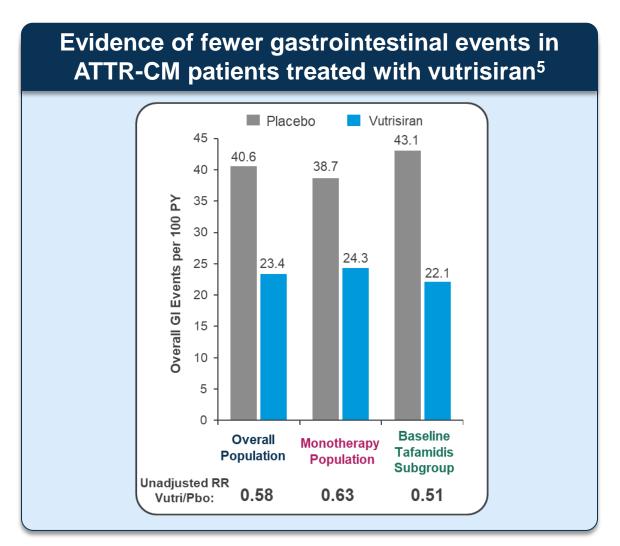
Pushkal Garg, M.D.

Chief Research & Development Officer



| | HELIOS-B Data Continue to Support AMVUTTRA's Clinically Differentiated Profile





¹ Garcia-Pavia, et al. ESC 2025; ² All-cause mortality includes heart transplantation and left ventricular assist device placement, and CV events include CV-related hospitalizations and urgent heart failure visits; ³ Survival probability based on IPTW-adjusted Kaplan-Meier curves. The HR is derived from Cox proportional hazards model; ⁴ Recurrent events analysis based on the modified Andersen-Gill model, also known as LWYY; ⁵ Urey, et al. HFSA 2025 (Adverse Events classified under GI disorders system organ class during the double-blind period of HELIOS-B were compared between the vutrisiran and placebo arms of the overall population, monotherapy population, and baseline tafamidis subgroup)



I Nucresiran TRITON Phase 3 Program

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



Targeting Launch ~2030

- Randomized, double-blind, event-driven outcomes study of nucresiran versus placebo (N ~ 1200)
- Primary endpoint of all-cause mortality and recurrent CV events
- Initiated

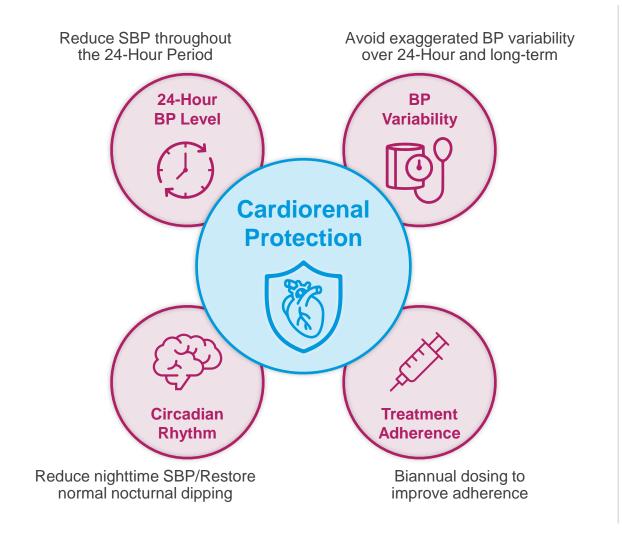


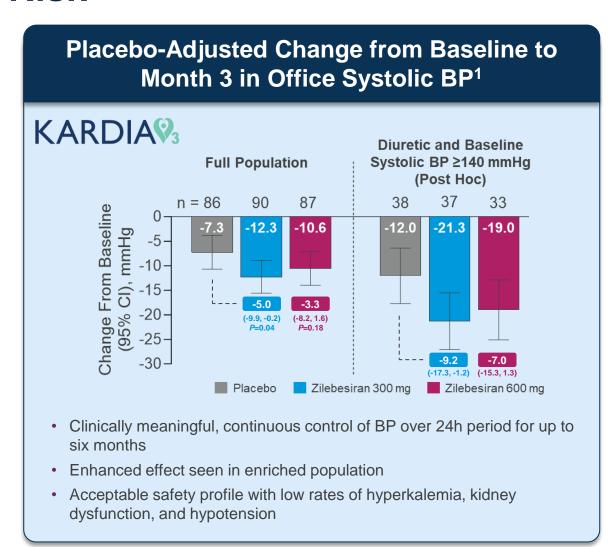
Topline results expected in 2028

- Randomized, open-label study of nucresiran versus vutrisiran internal reference (N ~ 125)
- Primary endpoint of mNIS+7 at Month 9 in nucresiran versus APOLLO placebo (similar to HELIOS-A);
 continued data collection through Month 18
- Initiating Q4 2025



| | Zilebesiran: Targeting Continuous Blood Pressure Control to Reduce Cardiovascular & Renal Risk







| | Zenith Phase 3 Cardiovascular Outcomes Trial Design

Randomized, Double-Blind, Event-Driven Study in High CV Risk Patients with Uncontrolled Hypertension

Study Population

- Adult patients with uncontrolled hypertension and established CV disease or at high risk
- Office systolic BP ≥140 mmHg on stable treatment
 (≥2 antihypertensive medications, one of which is a diuretic)
- Excluded: eGFR <30 mL/min/1.73m², potassium >4.8 mEq/L



Randomize 1:1 (n≈11,000)

Zilebesiran SC 300 mg Q6M + standard of care

Placebo SC Q6M + standard of care

Minimum follow-up: 2 years



Primary Outcome: CV death, nonfatal MI, nonfatal stroke, or HF event



ALN-6400: Potential Universal Hemostatic Agent

Therapeutic Hypothesis: Lowering Plasminogen to Reduce Bleeding

Hereditary Hemorrhagic Telangiectasia (HHT):

Second most common inherited bleeding disorder

90% live with recurrent nosebleeds

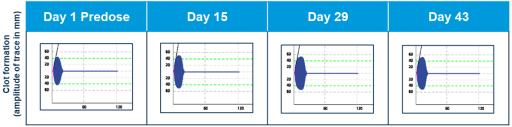
>50% experience iron deficiency anemia

Targeting plasminogen: genetic validation

- ★ Circulating PLG protein levels
 - GI and nose bleeding
 - Heavy menstrual bleeding
- PLG loss of function
 - GI and nose bleeding
 - Heavy menstrual bleeding
 - No increase in risk of thrombosis

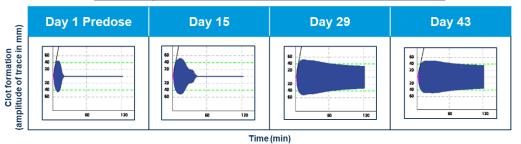
Initial Clinical Proof-of-Mechanism¹

Healthy Volunteer Dosed with Placebo



Time (mir

Healthy Volunteer Dosed with ALN-6400



Phase 2 HHT Trial Initiated²



Robust and High-Value Pipeline of RNAi Therapeutics

		PHASE 1	PHASE 2	PHASE 3	APPROVED			
	ONPATTRO® (patisiran)	hATTR Amyloidosis with Polyneuropathy						
TTD	AMVUTTRA® (vutrisiran)	ATTR Amyloidosis with Cardiomyopathy and hATTR Amyloidosis with Polyneuropathy						
TTR	Nucresiran	ATTR Amyloidosis with Cardiomyopathy						
	Nucresiran	hATTR Amyloidosis with Polyneuropathy						
	GIVLAARI® (givosiran)	Acute Hepatic Porphyria						
	OXLUMO® (lumasiran)	Primary Hyperoxaluria Type 1						
	Qfitlia™ (fitusiran)¹	Hemophilia A or B						
RARE	Cemdisiran ¹	Myasthenia Gravis	Myasthenia Gravis					
KAKE	Cemdisiran ¹	Paroxysmal Nocturnal Hemoglobinuria						
	ALN-6400 (PLG ⁶)	Bleeding Disorders						
	AG-236 (ALN-TMP) ¹	Polycythemia Vera						
	ALN-CFB ¹	Paroxysmal Nocturnal Hemoglobinuria						
	Leqvio® (inclisiran)¹	Hypercholesterolemia						
CARDIOVASCULAR	Zilebesiran²	Hypertension						
	Zilebesiran + REVERSIR²	Hypertension						
	Rapirosiran (ALN-HSD)¹	Metabolic Dysfunction-Associated Steatohepa	atitis (MASH)					
	ALN-4324 (GRB14 ⁶)	Type 2 Diabetes Mellitus						
METABOLIC	ALN-PNP ³	Non-Alcoholic Fatty Liver Disease (NAFLD)						
	ALN-APOC31	Dyslipidemia						
	ALN-CIDEB1	MASH						
	Mivelsiran⁴	Cerebral Amyloid Angiopathy						
	Mivelsiran ⁴	Alzheimer's Disease						
NEUROLOGIC	ALN-HTT02 ⁵	Huntington's Disease						
	ALN-SOD ³	SOD1 Amyotrophic Lateral Sclerosis						
	ALN-5288 (MAPT ⁶) ⁵	Alzheimer's Disease						
	Cemdisiran ¹	Geographic Atrophy						
	Elebsiran¹	Hepatitis D Virus Infection						
OTHER	ALN-BCAT	Hepatocellular Carcinoma						
	ALN-ANG3 ¹	Healthy Volunteers						
	ALN-F1202 ¹	Healthy Volunteers						

a with profit split;

¹ Out-licensed with milestones and/or royalties; ² Partnered, Alnylam-led development with U.S. profit split and milestones/royalties ex-U.S.; ³ Partner-led with profit split; ⁴ Product developed as part of collaboration with Regeneron; ⁵ Partnered, Alnylam-led with profit split; ⁶ Gene target

Financial Summary and Upcoming Milestones

Jeff Poulton

Chief Financial Officer



III Q3 2025 Financial Summary

n millions except where noted as percentages)	Q3 2024	Q3 2025	Q3 2025 vs Q3 2024 (Reported)	Q3 2025 vs Q3 2024 (CER ²)
Total Net Product Revenues	<u>\$420</u>	\$8 <u>51</u>	<u>103%</u>	<u>99%</u>
Net Revenues from Collaborations & Royalties	<u>81</u>	<u>398</u>	<u>393%</u>	
Collaboration Revenue	57	352	513%	
Royalty Revenue	23	46	98%	
<u>Total Revenues</u>	<u>501</u>	<u>1,249</u>	<u>149%</u>	<u>147%</u>
Total Cost of Goods Sold, Collaborations & Royalties	<u>86</u>	<u>200</u>		
Gross Margin on Product Revenues	80%	77%		
Gross Margin on Total Revenues	83%	84%		
Non-GAAP Combined R&D and SG&A Expenses ¹	<u>446</u>	<u>573</u>	<u>28%</u>	
R&D	251	310	23%	
SG&A	195	263	35%	
Non-GAAP Operating Income / (Loss) 1	<u>(31)</u>	<u>476</u>		
Non-GAAP Operating Margin ¹	(6%)	38%		
Non-GAAP Net Income / (Loss) ¹	<u>(64)</u>	396		

(\$ in millions)	Q4 2024	Q3 2025
Cash, Cash Equivalents & Marketable Securities (period end)	2,695	2,725

¹ Non-GAAP R&D expenses, Non-GAAP SG&A expenses, Non-GAAP operating income / (loss), Non-GAAP Operating Margin, and Non-GAAP Net Income are non-GAAP financial measures that exclude from the corresponding GAAP measures costs related to stock-based compensation expense, loss related to convertible debt, and realized and unrealized gains or losses on marketable equity securities. 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 October 30, 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 Q3 2025 performance (restated using Q3 2024 exchange rates) to actual Q3 2024 reported performance.



| | 2025 Full-Year Guidance

ltem	Prior FY 2025 Guidance	Updated FY 2025 Guidance
Total Net Product Revenues ¹	\$2,650 to \$2,800 million	\$2,950 to \$3,050 million
Total Rare Net Product Revenues (GIVLAARI, OXLUMO)	\$475 to \$525 million	Reiterate FY Guidance
 Total TTR Net Product Revenues (PN & CM) (AMVUTTRA, ONPATTRO) 	\$2,175 to \$2,275 million	\$2,475 to \$2,525 million
Net Product Revenues Growth vs. 2024 at Reported FX Rates ¹	61% to 70%	79% to 85%
Net Product Revenues Growth vs. 2024 at constant exchange rates (i.e., operational growth) ²	59% to 68%	78% to 84%
Net Revenues from Collaborations & Royalties	\$650 to \$750 million	Reiterate FY Guidance
Non-GAAP Combined R&D and SG&A Expenses ³	\$2,100 to \$2,200 million	\$2,150 to \$2,200 million
Non-GAAP Operating Income ³	Achieve profitability	Reiterate FY Guidance

¹ Our 2025 FY Guidance is based upon September 30, 2025 FX rates including 1 EUR = 1.17 USD and 1 USD = 148 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 \$345M - \$375M in both the Prior FY 2025 Guidance and the Updated FY 2025 Guidance

| | Alnylam 2025 Goals

amvuttra (vutrisiran) prina anu	Onpottro	(givosiran) seem to a distince a let	(lumasiran) % Sapasac	Combined Net Product Revenue Guidance \$2,950M – \$3,050M	2025			
VIITDIE	VUTRISIRAN		o doidooio	U.S. FDA Approval	March 20, 2025			
VUIRIS			nyloidosis	Additional Global Approvals (Japan, EU)	Q2, Q3	\		
NUCRES	IRAN*	ATTP Am	ovloidosis	Initiate Phase 3 Study in ATTR-CM	H1	\		
(ALN-TTR	sc04)	ATTR Amyloidosis		Initiate Phase 3 Study in hATTR-PN	H2			
711 EDES	ZILEBESIRAN*		ESIRAN* Hypertension		toncion	KARDIA-3 Phase 2 Results	H2	\
ZILLBLS			le i sioi i	Initiate Phase 3 CVOT	H2			
MIVELSIRAN*		Cerebral Amyloid Angiopathy		Interim Phase 1 Part B Data in EOAD	H2			
WIIVELSI	WIIVELSIKAN		er's Disease	Initiate Phase 2 Study in AD	H2			
ALN-6400* Bleeding Disorde		Disorders	Initiate Phase 2 Study	H2	\			
ADDITIONAL PROGRAMS		GRAMS		File ≥4 New INDs	2025			
		KE	Y PARTNER-LED	PROGRAM MILESTONES				
FITUSIRAN	FITUSIRAN (Sanofi) Hemophilia		U.S. FDA Approval March					
FI FRSIDA	ELEBSIRAN* (Vir)		HBV/HDV	Initiate Phase 3 study in HDV	H1			
LLLBSIKA				Phase 2 HBV Functional Cure Results	Q2	\		
CEMDISIRAN*	(Regeneron)	Complement-Me	ediated Diseases	Phase 3 MG Results	H2	\		



□ Q&A Session

Q3 2025 Financial Results





| | Appendix

Q3 2025 Financial Results



Alnylam Pharmaceuticals, Inc.

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

	Three Months Ended			nded	
	Sep	September 30, 2025		September 30, 2024	
Reconciliation of GAAP to Non-GAAP Research and development expenses:					
GAAP Research and development expenses	\$	358,814	\$	270,926	
Less: Stock-based compensation expenses		(48,725)		(19,794)	
Non-GAAP Research and development expenses	\$	310,089	\$	251,132	
Reconciliation of GAAP to Non-GAAP Selling, general and administrative expenses:					
GAAP Selling, general and administrative expenses	\$	322,076	\$	220,993	
Less: Stock-based compensation expenses		(59,486)		(26,010)	
Non-GAAP Selling, general and administrative expenses	\$	262,590	\$	194,983	
Reconciliation of GAAP to Non-GAAP Income (loss) from operations:					
GAAP Income (loss) from operations	\$	367,982	\$	(76,905)	
Add: Stock-based compensation expenses		108,211		45,804	
Non-GAAP Operating income (loss)	\$	476,193	\$	(31,101)	
Reconciliation of GAAP to Non-GAAP Net income (loss):					
GAAP Net income (loss)	S	251,084	\$	(111,570)	
Add: Stock-based compensation expenses		108,211		45,804	
Add: Realized and unrealized loss on marketable equity securities		_		1,567	
Add: Loss related to convertible debt		39,146		_	
Less: Income tax effect of GAAP to non-GAAP reconciling items		(2,261)		_	
Non-GAAP Net income (loss)	\$	396,180	\$	(64,199)	



Alnylam Pharmaceuticals, Inc.

Reconciliation of Product Revenue and Growth at Constant Currency

	September 30, 2025
	Three Months Ended
Total TTR net product revenue growth, as reported	135 %
Add: Impact of foreign currency translation	(4)
Total TTR net product revenue growth at constant currency	131 %
Total Rare net product revenue growth, as reported	14 %
Add: Impact of foreign currency translation	(3)
Total Rare net product revenue growth at constant currency	11 %
Total net product revenue growth, as reported	103 %
Add: Impact of foreign currency translation	(4)
Total net product revenue growth at constant currency	99 %
Total revenue growth, as reported	149 %
Add: Impact of foreign currency translation	(2)
Total revenue growth at constant currency	147 %

