

### Leadership Here Today



Yvonne Greenstreet, MBChB
Chief Executive Officer



Pushkal Garg, M.D. Chief Medical Officer



**Jeff Poulton**Chief Financial Officer



**Tolga Tanguler**Chief Commercial Officer



John Vest, M.D.
Senior Vice President,
TTR Global
Development Lead



John P. Kennedy
Vice President,
TTR Franchise
Commercialization Lead



Mark Soued
Senior Vice President,
Head of U.S. & TTR Lead



Jason Gidelson Vice President, U.S. Market Access



Christine Lindenboom
Chief Corporate
Communications Officer

### | | | TTR Investor Day Agenda

8:30-8:45 AM	Alnylam: A Leading Global Biotech	Yvonne Greenstreet	15 min
8:45-9:05 AM	ATTR-CM Disease & Unmet Needs	Dr. Ahmad Masri	20 min
9:05-9:30AM	The Promise of Vutrisiran for TTR Patients	John Vest	25 min
9:30-9:50 AM	Q&A	Pushkal Garg (moderator)	20 min
9:50-10:15 AM	Break		25 min
10:15-10:30 AM	Building a Flagship Franchise in ATTR-CM	Tolga Tanguler	15 min
10:30-10:45 AM	Driven by Patient Needs	John Kennedy	15 min
10:45-11:10AM	Unlocking the US Opportunity in ATTR-CM	Mark Soued Jason Gidelson	25 min
11:10-11:40 AM	Q&A	Tolga Tanguler (moderator)	30 min
11:40-11:50 AM	Our Innovative Pipeline in TTR and Beyond	Yvonne Greenstreet	10 min



#### |||Event Logistics



Event scheduled to end at ~12:00 p.m. ET



Two moderated **Q&A sessions** during the meeting



Replay will be available on Investors Page of our website later today

#### | | | 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, Alnylam's expectations regarding the safety and efficacy of vutrisiran for the treatment of ATTR amyloidosis with cardiomyopathy (ATTR-CM), including its potential to be first-line standard of care in ATTR-CM; the potential for vutrisiran to halt disease progression that patients experience with ATTR-CM, including across key measures of disease burden; Alnylam's estimations regarding the size of the potential patient population; the potential for Alnylam's TTR franchise to drive robust and sustained growth; the potential for vutrisiran to obtain regulatory approval for the treatment of ATTR amyloidosis with cardiomyopathy; Alnylam's belief that vutrisiran is well positioned to address unmet medical need as the first and only RNAi therapeutic for both polyneuropathy and cardiomyopathy manifestations of ATTR amyloidosis; the potential for vutrisiran's clinical profile to support first-line positioning in newly diagnosed patients and in those patients who continue to experience disease progression with stabilizers; Alnylam's expectations regarding favorable market access dynamics in ATTR-CM; the potential for vutrisiran to have a market-leading profile, positioning Alnylam to win in ATTR-CM; the potential for vutrisiran to unlock future growth and value creation; Alnylam's expectations regarding its ability to increase the number of clinical programs in its pipeline by the end of 2025, and Alnylam's expectations regarding its ability to achieve its "Alnylam P<sup>5</sup>x25" strategy 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 P<sup>5</sup>x25" strategy; Alnylam's ability to successfully demonstrate the efficacy and safety of its product candidates; the pre-clinical and clinical results for Alnylam's product candidates, including vutrisiran; actions or advice of regulatory agencies and Alnylam's ability to obtain regulatory approval for its product candidates, as well as favorable pricing and reimbursement, including vutrisiran; successfully launching, marketing and selling Alnylam's approved products globally, including vutrisiran; and any delays, interruptions or failures in the manufacture and supply of Alnylam's product candidates or its marketed products, including vutrisiran; as well as those risks more fully discussed in the "Risk Factors" section including within Alnylam's 2023 Annual Report on Form 10-K filed with the Securities and Exchange Commission (SEC), as may be updated from time to time by Alnylam's subsequent Quarterly Reports on Form 10-Q and in its other SEC filings. In addition, any forward-looking statements represent Alnylam's views only as of today and should not be relied upon as representing its views as of any subsequent date. Alnylam explicitly disclaims any obligation, except to the extent required by law, to update any forward-looking statements.



# III Alnylam: A Leading Global Biotech

Yvonne Greenstreet, MBChB
Chief Executive Officer



#### **III Key Themes You'll Hear Today**

**Alnylam is at a Major Inflection Point** 



#### **High Unmet Need in ATTR-CM**

A devastating, progressive disease with a large, addressable, and growing market



#### AMVUTTRA Poised to Be the Standard of Care for 1L Patients in ATTR-CM

Strong clinical evidence in a population reflective of today's TTR patients supports treatment as early as possible



#### **Well-Positioned for TTR Leadership**

Demonstrated and durable TTR capabilities



#### Flagship Franchise Will Drive Our Robust and Sustained Growth

Anticipated inflection in revenues to support reinvestment in our innovative pipeline



#### | | Leading Biotech Profile



Outstanding R&D Productivity

Validated **RNAi class** of medicines

5
medicines approved
in <4 years



Robust and High-Yielding Pipeline

15 clinical programs

Up to 15
additional programs
expected in clinic by
end of 2025



Leading Commercial Capabilities

>60

countries with commercial presence through direct or distributor sales

33% YoY

growth in net product revenue through 1H 2024



Strong Financial Position

>\$2.6B

cash balance, based on performance through Q2 2024

Increased 2024 net product revenue guidance range to

\$1.575B to \$1.650B

On track towards *Alnylam P⁵x25* 





### Vutrisiran sNDA for ATTR-CM Submitted to FDA



Priority Review Voucher to accelerate FDA review period



Additional global regulatory submissions – late 2024





#### | | Flagship Franchises & Category Leadership Catalyze Growth















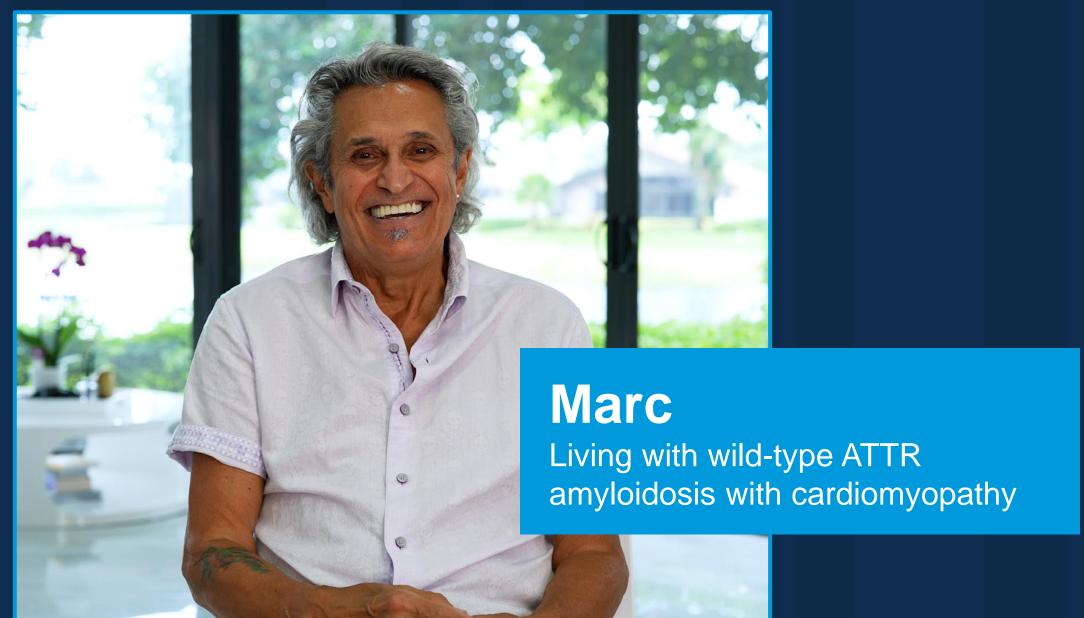


**Poised for Leadership in TTR** 









# **ATTR-CM Disease**& Unmet Needs



#### | | | Guest Speaker



#### Dr. Ahmad Masri, M.D., M.S.

Associate Professor of Medicine, Division of Cardiovascular Medicine, Oregon Health & Science University

Dr. Masri heads the Cardiomyopathy Section, the Cardiac Amyloidosis Program, and the Hypertrophic Cardiomyopathy Center at the Oregon Health & Science University in Portland, Oregon, where he is also an Associate Professor of Medicine.

Dr. Masri obtained his medical degree from Jordan University of Science and Technology in Jordan prior to joining the Cleveland Clinic where he completed Internal Medicine Residency training. He later joined the University of Pittsburgh where he completed Cardiology and Cardiac Imaging fellowships, a T32 post-doctoral fellowship, and obtained a graduate degree in Epidemiology and Statistics. Dr. Masri leads a multidisciplinary translational, imaging, and clinical research program which focuses on cardiomyopathies.





# ATTR-CM

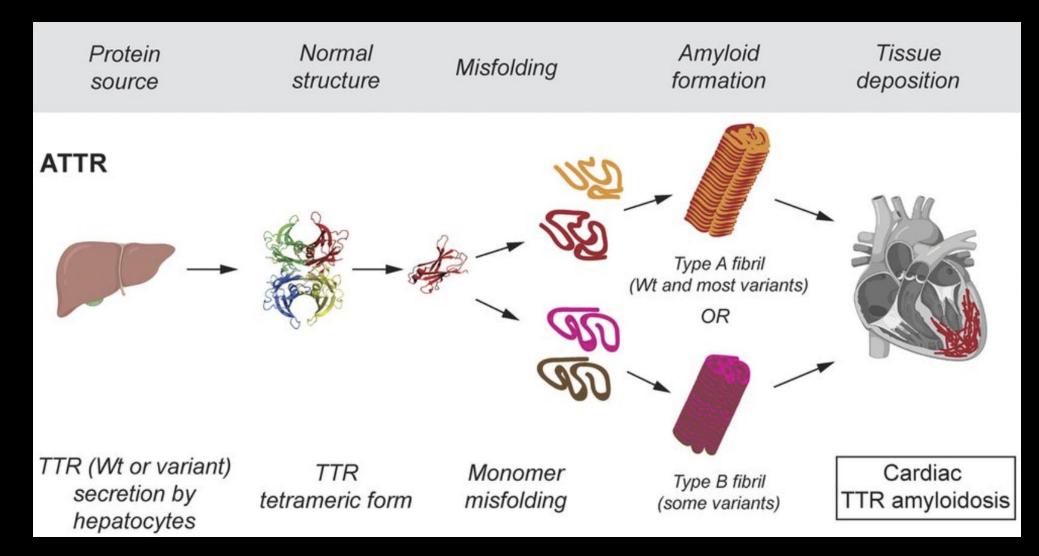
#### **Ahmad Masri, MD MS**

Cardiomyopathy Section Head
Director, Cardiac Amyloidosis Program
Director, Hypertrophic Cardiomyopathy Center
Associate Professor of Medicine
Oregon Health & Science University

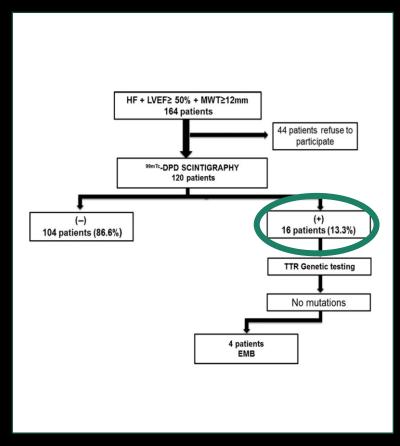
#### **Disclosures**

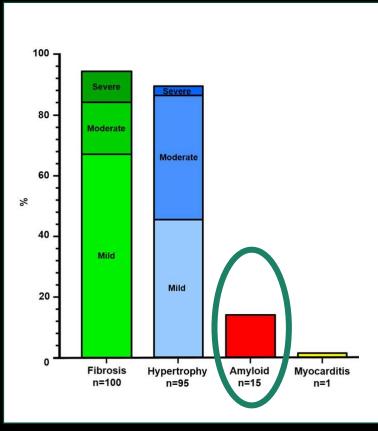
- Research Grants from Pfizer, Ionis, Attralus, and Cytokinetics.
- Fees from Cytokinetics, BMS, Eidos/BridgeBio, Pfizer, Ionis, Lexicon, Attralus, Alnylam, Haya, Alexion, Akros, Lexeo, Prothena, BioMarin, AstraZeneca, and Tenaya.

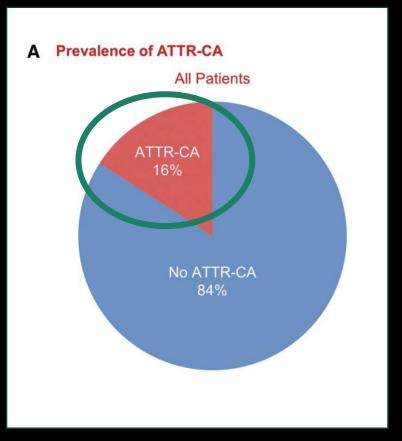
### Transthyretin Amyloid Cardiomyopathy



# **ATTR-CM** is Prevalent in Heart Failure and in Aortic Stenosis





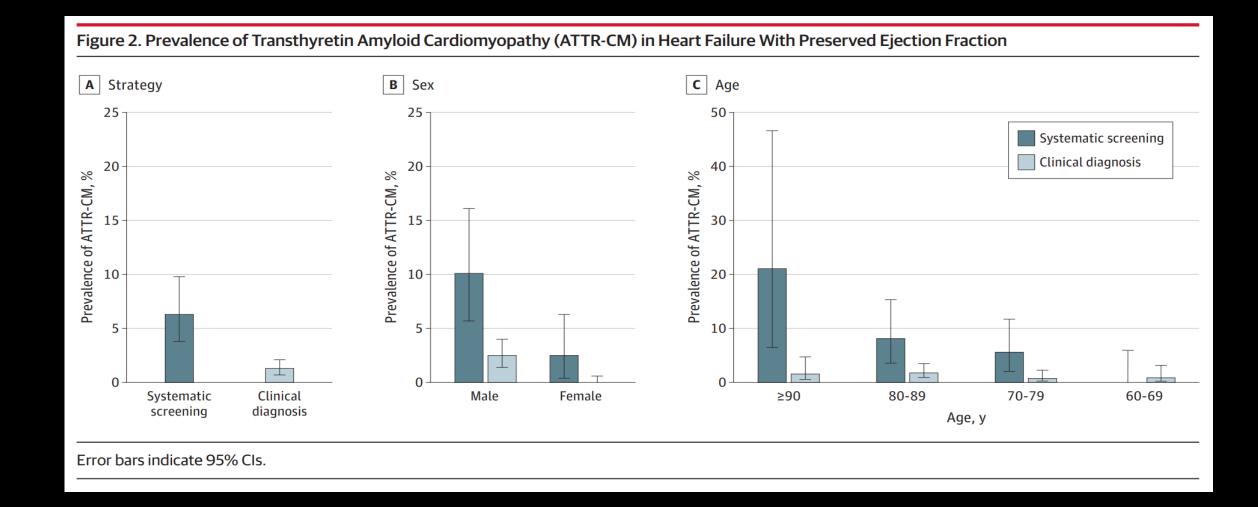


Gonzalez-Lopez E et al. Eur Heart J. 2015;36:2585-94

Hahn VS et al. JACC HF. 2020:8:712-724.

Castano A et al. Eur Heart J. 2017;38:2879-2887..

# Systematic Screening Strategy is Better Than Clinical Evaluation



#### Tenosynovial and Cardiac Amyloidosis in Patients Undergoing Carpal Tunnel Release



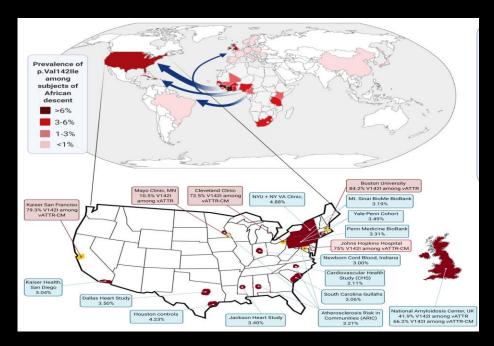
Brett W. Sperry, MD, \*\*b Bryan A. Reyes, MD, \* Asad Ikram, MBBS, \* Joseph P. Donnelly, MD, \*
Dermot Phelan, MD, PnD, \* Wael A. Jaber, MD, \* David Shapiro, MD, \* Peter J. Evans, MD, PnD, \* Steven Maschke, MD, \*
Scott E. Kilpatrick, MD, \* Carmela D. Tan, MD, \* E. Rene Rodriguez, MD, \* Cecilia Monteiro, MD, \*
W.H. Wilson Tang, MD, \* Jeffery W. Kelly, PnD, \* William H. Seitz, Jr, MD, \* Mazen Hanna, MD\*

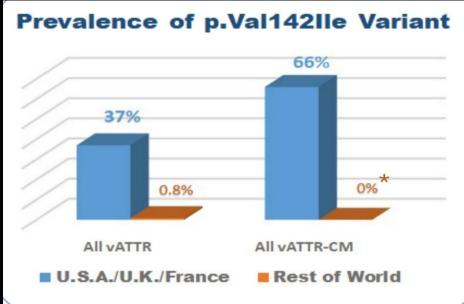
**RESULTS** Of 98 patients enrolled (median age 68 years, 51% male), 10 (10.2%) had a positive biopsy for amyloid (7 ATTR, 2 light chain [AL], 1 untyped). Two patients were diagnosed with hereditary ATTR (Leu58His and Ala81Thr), 2 were found to have cardiac involvement (1 AL, 1 ATTR wild-type), and 3 were initiated on therapy. In those patients who had biopsy-diagnosed ATTR, there was no difference in plasma TTR concentration or tetramer kinetic stability.

- 10% of biopsies from carpal tunnel release surgery had amyloid deposits
- 2% had hereditary ATTR
- 2% had cardiac disease
- 3% were initiated on therapy

### V122I (p.V142I)

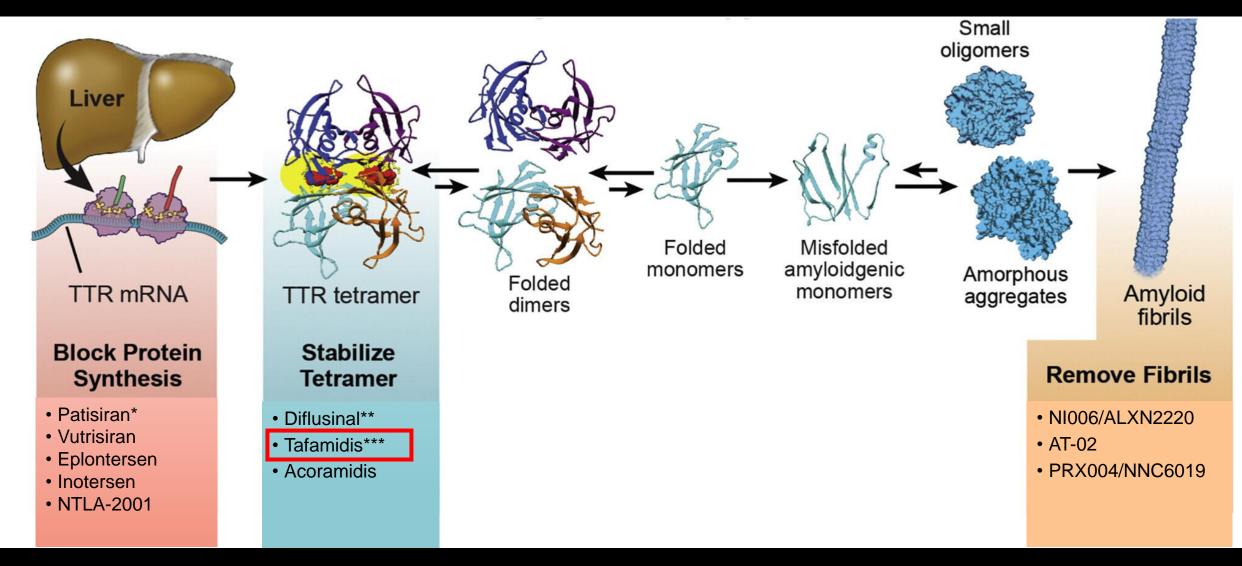
- First described in 1988 in an African-American man
- Unique predominantly in patients with African descent
- Age-dependent autosomal dominant
- Prevalence of ~3.4% of African Americans
  - 1.6 Million carriers\*
  - ~150,000, aged ≥65 years\*



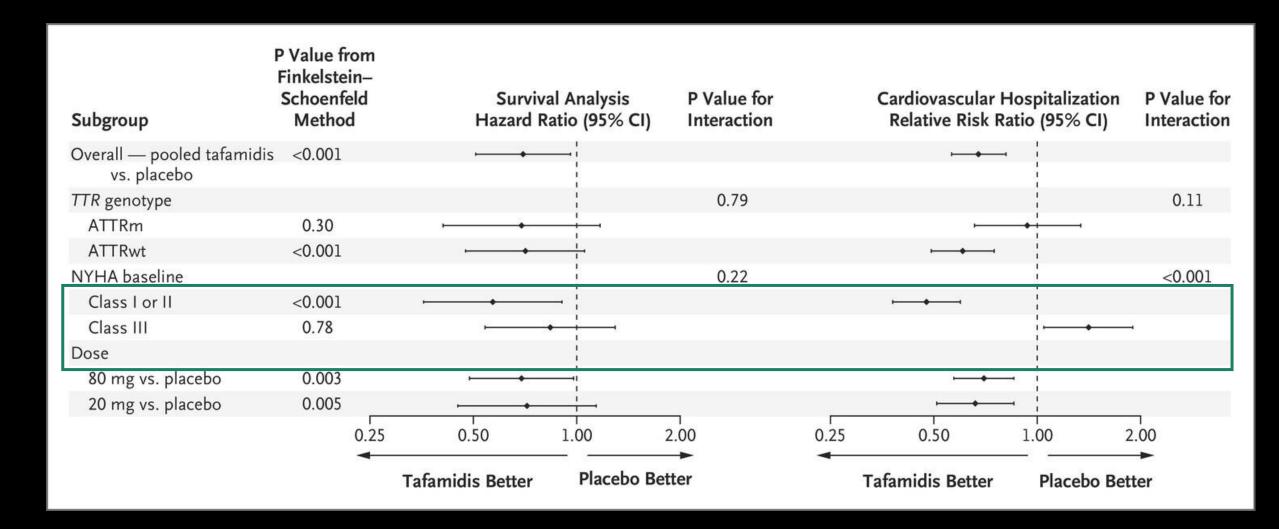


<sup>\*</sup>Estimation based on US Census.

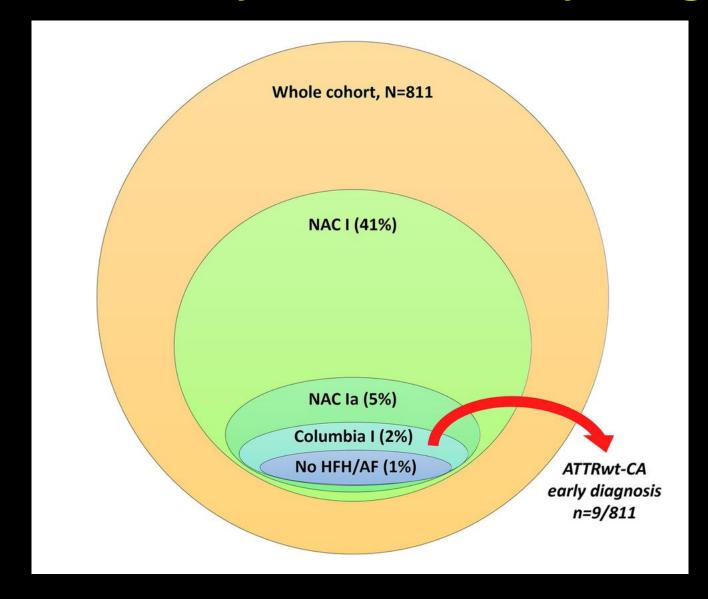
### TTR Targets of Therapy



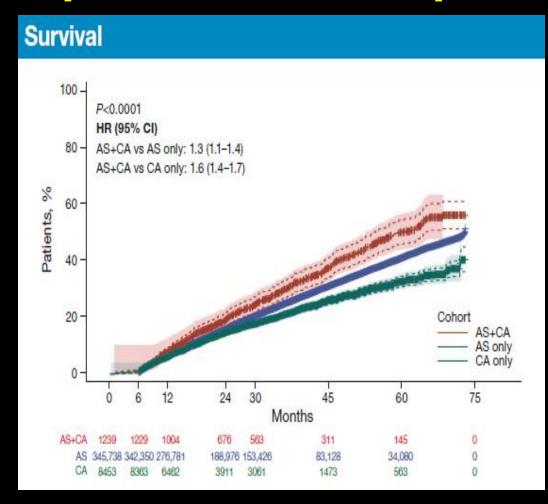
### **Early Diagnosis is Essential**

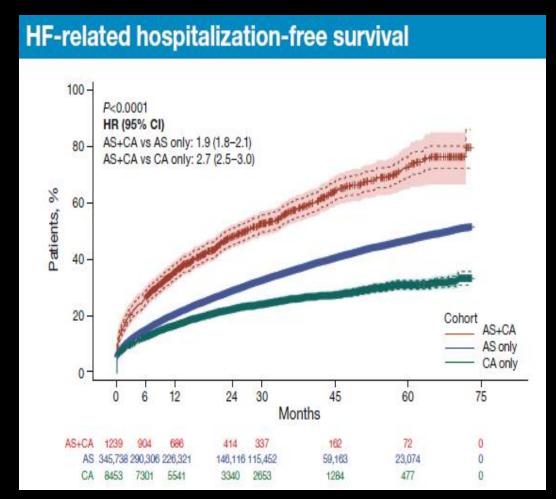


### **Unmet Need to Truly Achieve Early Diagnosis**

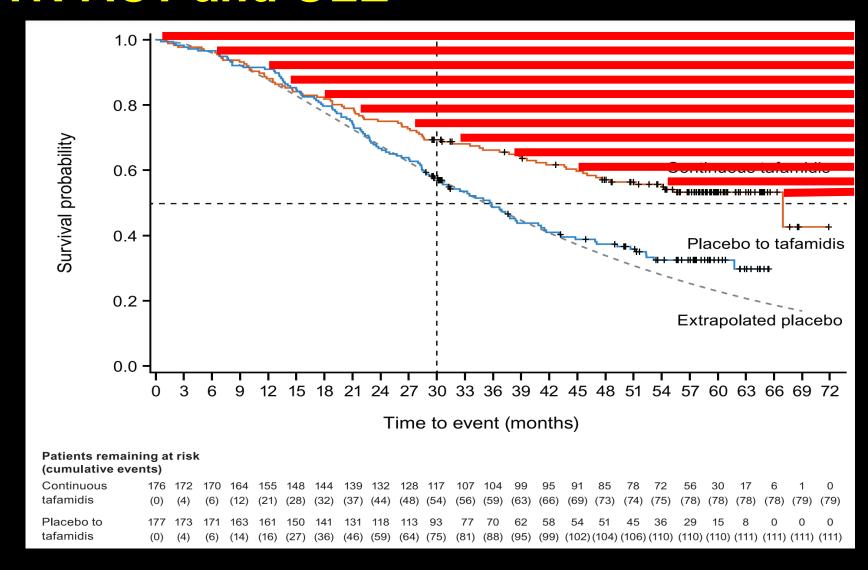


# Concurrent AS+CA Was Associated with An Increased Risk of Death and HF-related Hospitalization Compared with AS Alone

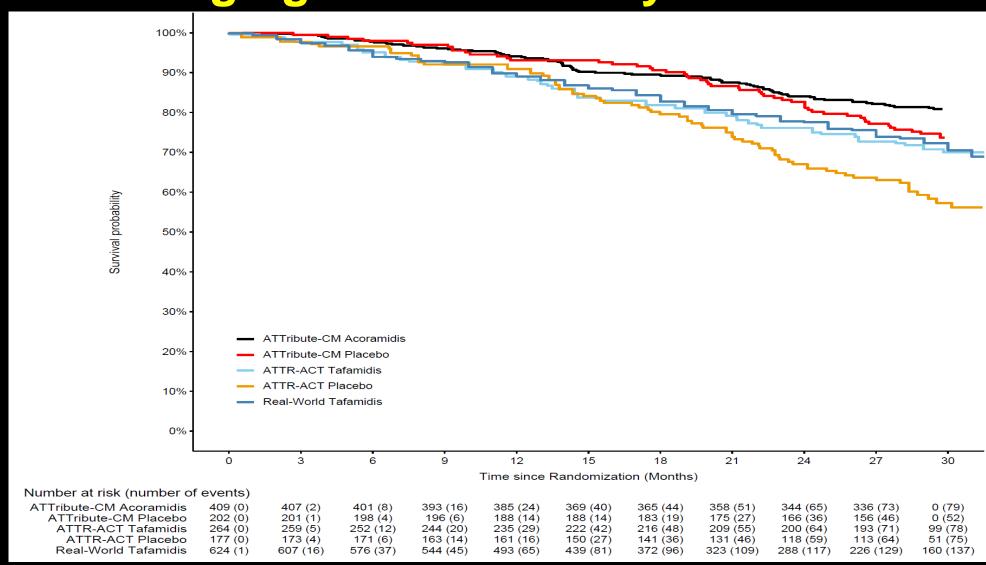




# **Significant Unmet Need on Tafamidis** in ATTR-ACT and OLE



# Real World Experience with Tafamidis and the Changing Natural History



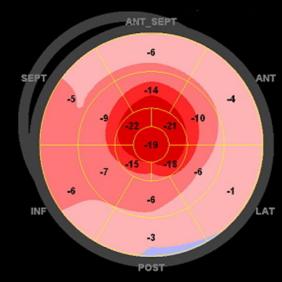
### **Monitoring ATTR-CM Progression**

Mortality
CV Hospitalizations
Urgent visits
Diuretics
Intensification

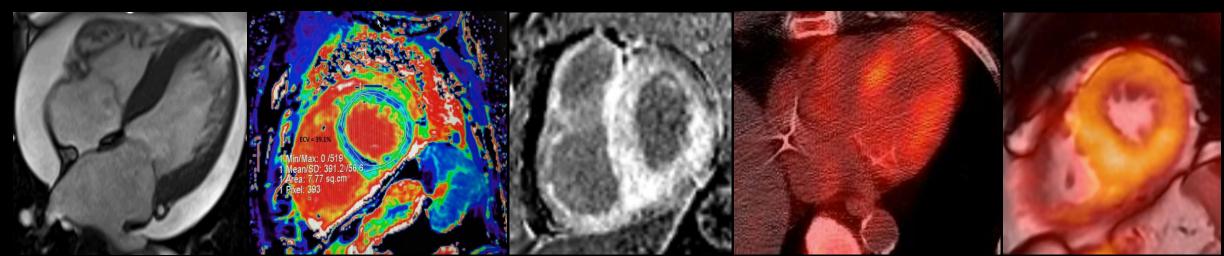


NT-proBNP Troponin TTR level





KCCQ NYHA class 6MWT



#### **Future Goals in ATTR-CM**

- Better disease control
- Improved survival and decreased hospitalizations
- Improved function and quality of life
- Addressing unintentional weight loss
- Disease regression
- Ongoing need for longer term studies

#### Conclusions

- While ATTR-CM is being transformed through earlier recognition, better overall management, and targeted therapy such as tafamidis, there remains a significant unmet need.
- New diagnostic approaches and new therapies open the door to further improving patients' outcomes.

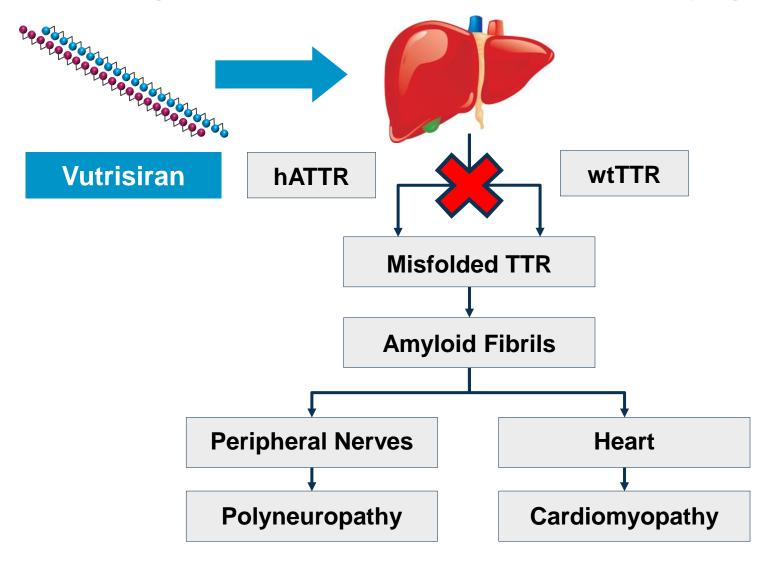
# III The Promise of Vutrisiran for TTR Patients

John Vest, M.D.
SVP, TTR Global Development Lead



#### | | | RNAi Therapeutic Hypothesis in ATTR Amyloidosis

Silencing TTR Gene Expression to Address Underlying Cause of Disease



Vutrisiran is a RNAi therapeutic targeting hepatic TTR production; dosing 25 mg once every 3 months

Characterized by rapid knockdown

Approved for the treatment of hATTR with polyneuropathy

HELIOS-B evaluated efficacy and safety of vutrisiran in ATTR (wt or hereditary) with cardiomyopathy



# Profile of RNAi Therapeutics in Hereditary ATTR Amyloidosis with Polyneuropathy

**Transformational Profile in hATTR-PN** 

Consistent results observed with both vutrisiran (HELIOS-A) and patisiran (APOLLO)

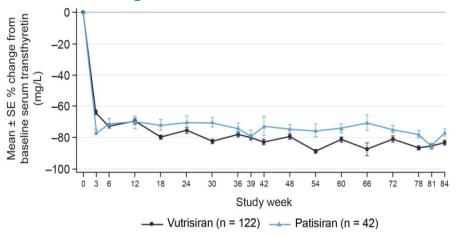
Stabilization or improvement in **neuropathy** 

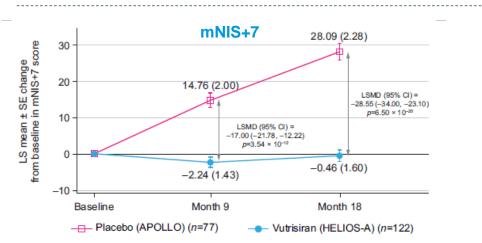
Stabilization or improvement in quality of life

Beneficial effects on functional and nutritional status

#### **HELIOS·A**

#### **Percent Change from Baseline in Serum TTR Levels**

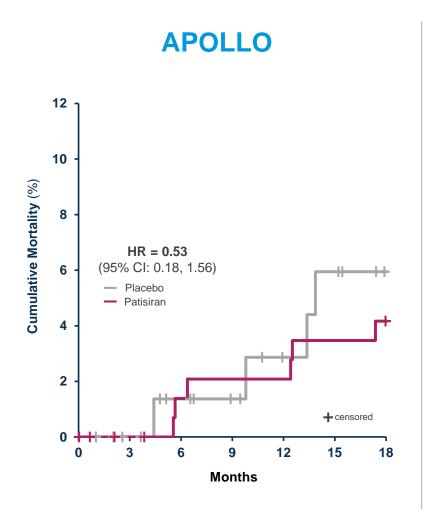


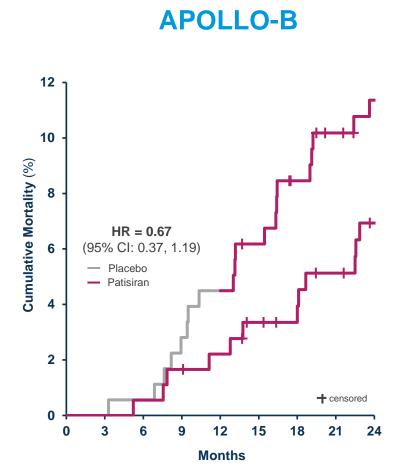


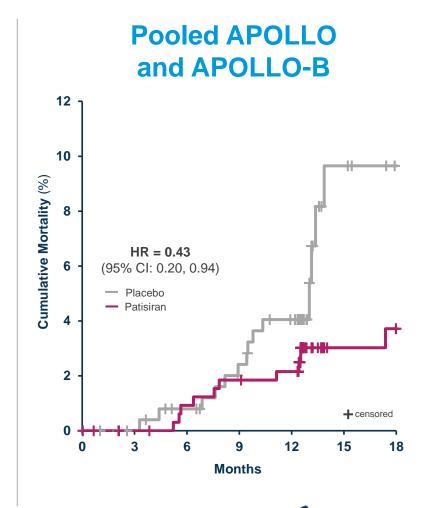


# | | Exploratory Analyses of All-Cause Mortality from APOLLO and APOLLO-B

Previous Data From Patisiran Supported Potential for RNAi to Reduce Mortality



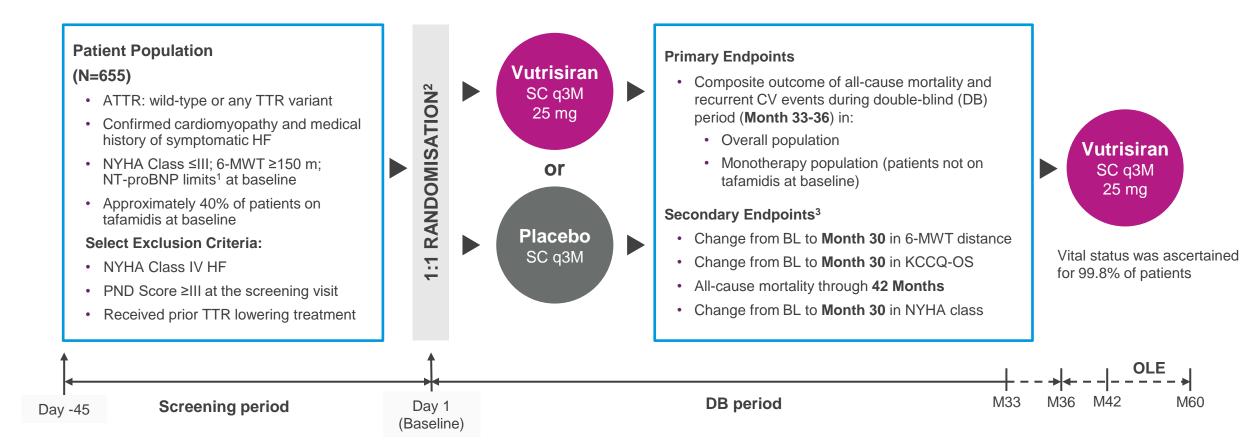




#### | | | Vutrisiran HELIOS · B Phase 3 Study



## Randomized, Double-Blind Outcomes Study in ATTR Amyloidosis Patients with Cardiomyopathy



NT-proBNP levels of >300 pg/mL and <8500 pg/mL (or >600 pg/mL and <8500 pg/mL for patients with atrial fibrillation).



<sup>&</sup>lt;sup>2</sup>Randomisation was stratified according to the use of tafamidis at baseline (yes versus no), ATTR disease type (hATTR or wtATTR), and NYHA class and age at baseline (NYHA class I or II and age <75 years versus all others).

<sup>&</sup>lt;sup>3</sup>Assessed in the overall population and monotherapy population as separate endpoints.

#### | | | HELIOS-B Enrolled Population Reflective of Today's Patient

Ш

missing

8 (22.9)

5 (14.3)



Milder Patients on Substantial Background Therapy; Underscores Magnitude of Treatment Effect and Relevance of Data to Real World

#### **Use of Substantial Background Medications**

~50%

of patients were on tafamidis at baseline or during the DB period

~30%

of patients started SGLT2 inhibitors during the DB period

~80%

on diuretics at baseline and ~50% of patients had intensification or initiation of diuretics after first dose

Patient Characteristics						
	Real World Data*			HELIOS-B		
	2002-2006 (n=35)	2012-2016 (n=704)	2017-2021 (n=968)	Overall (n=654)		
NT-proBNP (ng/L), median	4466	3040	2505	1920		
NYHA Class, n (%)						
I	0 (0.0)	83 (11.8)	136 (14.0)	84 (12.8)		
II	6 (17.1)	444 (63.1)	657 (67.9)	508 (77.7)		
III	10 (28.6)	153 (21.7)	134 (13.8)	62 (9.5)		
IV	6 (17.1)	17 (2.4)	5 (0.5)	-		
missing	13 (37.1)	7 (1.0)	36 (3.7)	-		
NAC Stage, n (%)						
I	12 (34.3)	309 (43.9)	516 (53.3)	437 (66.8)		
II	10 (28.6)	265 (37.7)	302 (31.2)	187 (28.6)		

126 (17.9)

4 (0.5)



30 (4.6)

106 (11.0)

44 (4.9)

#### III HELIOS-B Enrolled Population Reflective of Today's Patient



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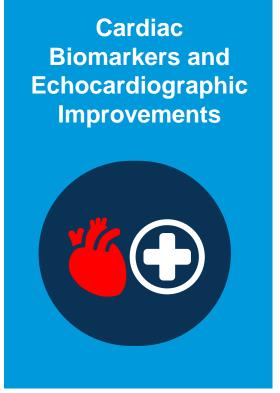
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II	10 (28.6)	265 (37.7)	302 (31.2)	187 (28.6)		
III	8 (22.9)	126 (17.9)	106 (11.0)	30 (4.6)		
missing	5 (14.3)	4 (0.5)	44 (4.9)	. )		



# | | | Favorable Impact Across Sequential Parameters in ATTR Amyloidosis with Cardiomyopathy

Observed Clinical Benefit Occurs Early and Cascades in a Biologically Rational Manner





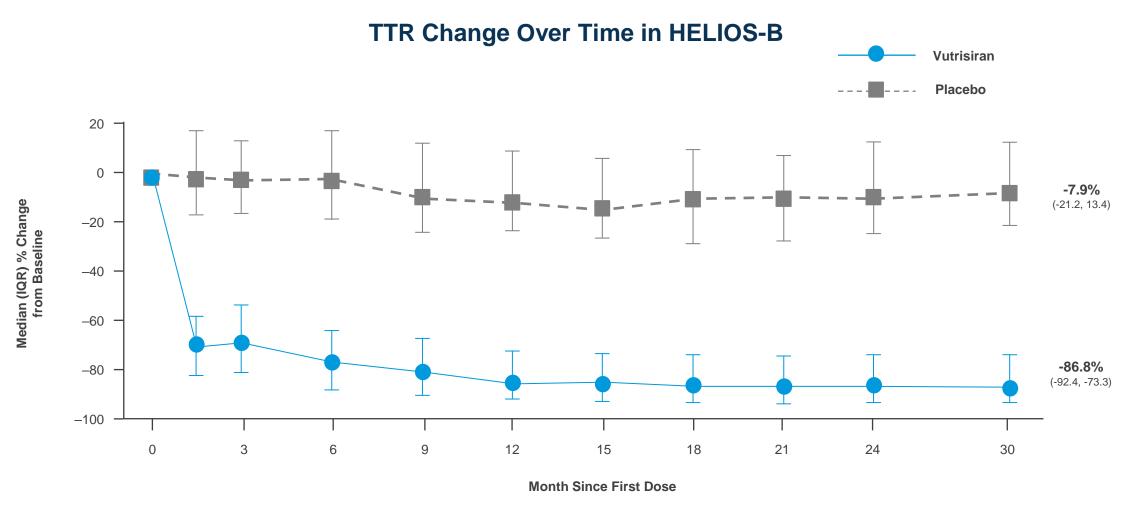






## | | | Rapid TTR Knockdown and Durable Impact





TTR % change at Month 30: Mean (SD): placebo -1.98 (35.4); vutrisiran -80.98 (16.1)

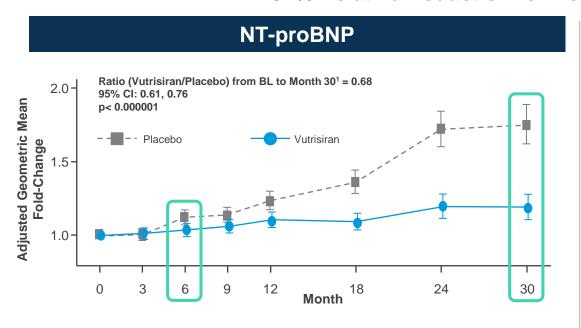


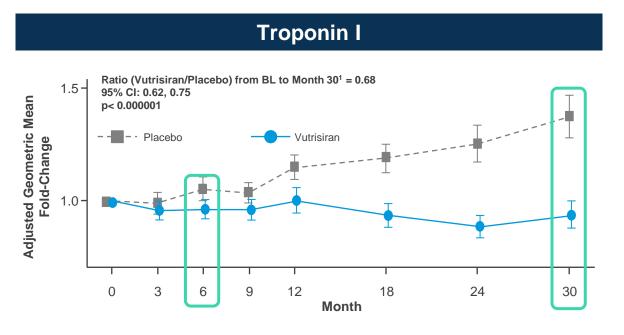




Favorable Treatment Effect Observed as Early as 6 Months on Exploratory Endpoints, and Grew Over Time

32% Relative Reduction for Both Biomarkers at Month 30





NT-proBNP and Troponin I are well established biomarkers predictive of mortality in ATTR-CM both in published data and within HELIOS-B<sup>2</sup>

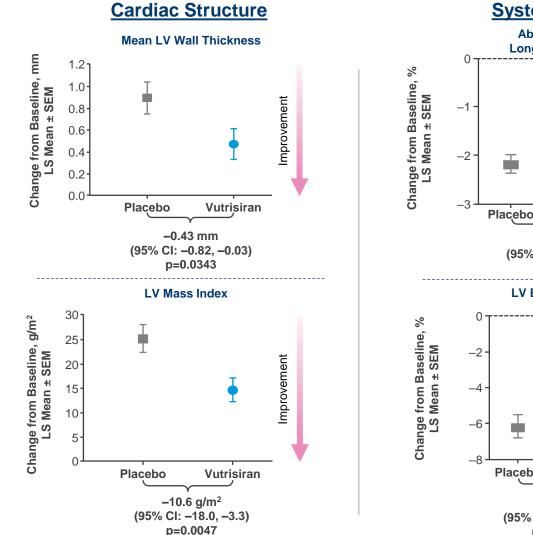
<sup>&</sup>lt;sup>1</sup>Adjusted geometric mean fold-change and 95% CIs obtained by exponentially back-transforming the LS mean of log-transformed NT-proBNP or troponin I and the corresponding 95% CI. In the MMRM model, the outcome variable is change from baseline in log-transformed NT-proBNP or troponin I. The model includes log-transformed baseline value as a covariate and fixed effect terms including treatment group, visit, treatment-by-visit interaction, baseline tafamidis use, treatment-by-baseline tafamidis use interaction, type of ATTR, and age group. <sup>2</sup>Maurer, Annual Scientific Meeting of the Heart Failure Society of America 2024. Abbreviations: BL, baseline; CI, confidence interval; LS, least squares; M, Month; MMRM, mixed models for repeated measures.

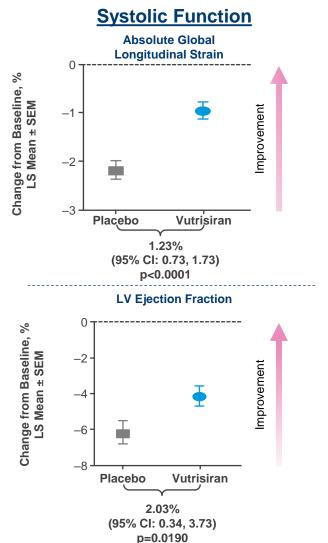


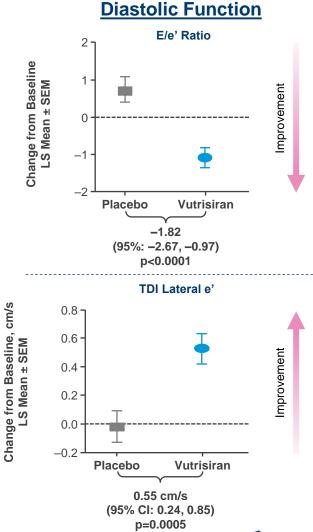
#### | | Vutrisiran Improved Cardiac Structure and Function



Exploratory Echocardiographic Assessments at M30 Provide Supportive Evidence of Disease-Modifying Effect









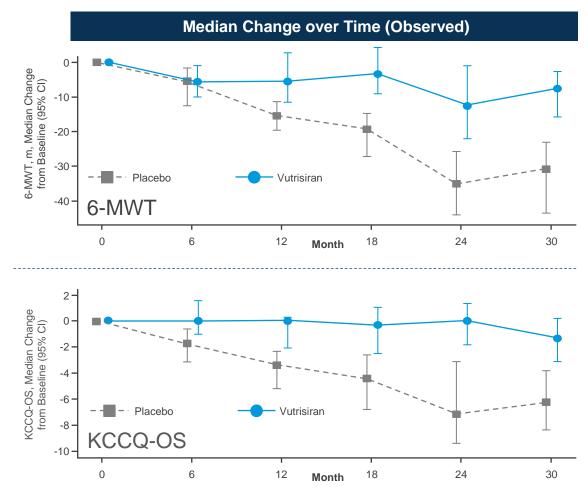




Preserved Functional Capacity, Health Status, and Quality of Life over 30 Months; Statistically Significant Impact Relative to Placebo

Change from Baseline at Month 30	Overall Population	
	Placebo (N=328)	Vutrisiran (N=326)
6-MWT, n	285	294
Median	-30.65	-7.50
LS mean (SEM)	-71.88 (4.79)	-45.42 (4.62)
LS mean difference (95% CI)	_	26.46 (13.38, 39.55)
p-value	_	0.00008
KCCQ-OS, n	298	306
Median	-6.25	-1.30
LS mean (SEM)	-15.49 (1.26)	-9.68 (1.19)
LS mean difference (95% CI)	_	5.80 (2.40, 9.20)
p-value	_	0.0008
NYHA Class, n	328	326
Stable or improved %	61	68
Difference in % patients stable or improved (95% CI)	<u> </u>	8.7 (1.3, 16.1)
p-value	_	0.0217

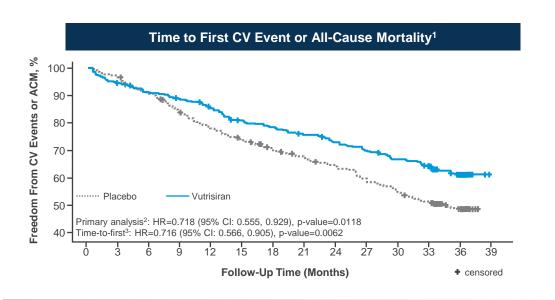
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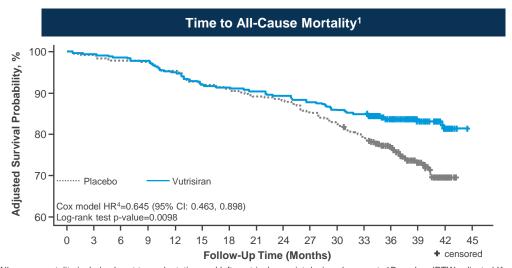


### | | Reduction in All-Cause Mortality and Recurrent CV Events





	Overall population (N = 654)
Primary endpoint: all-cause mortality (LWYY)	and recurrent CV events up to month 36
HR (95% CI)	<b>0.718</b> (0.555, 0.929)
p-value	0.0118
Components	<b>UU</b>
Components	<b>50</b>
Components	<b>0.694</b> (0.490, 0.982)
Components All-cause mortality (DB period)	
Components  All-cause mortality (DB period)  HR (95% CI)	<b>0.694</b> (0.490, 0.982)
Components  All-cause mortality (DB period)  HR (95% CI)  Log-rank p-value	<b>0.694</b> (0.490, 0.982)



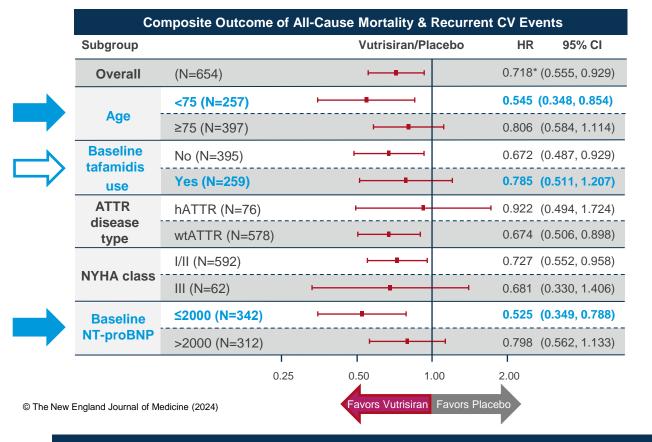
	Overall population (N = 654)	
Secondary endpoint: all-cause mortality up to 42 months (Cox PH model)		
HR (95% CI)	<b>0.645</b> (0.463, 0.898)	
p-value	0.0098	

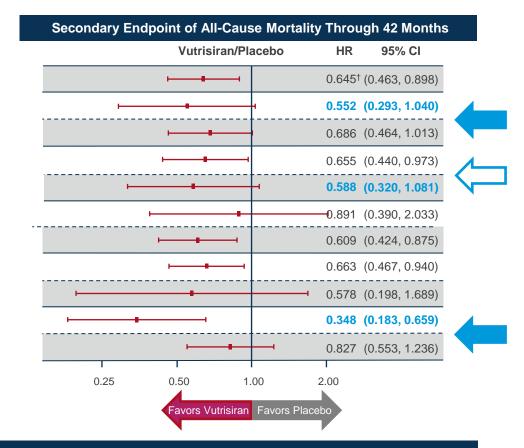


## | | Consistent Efficacy Across All Prespecified Subgroups



Magnitude of Treatment Effect and Outsized Benefit in Key Subgroups Highlight Relevance to Today's Patients and Supports First-Line Positioning



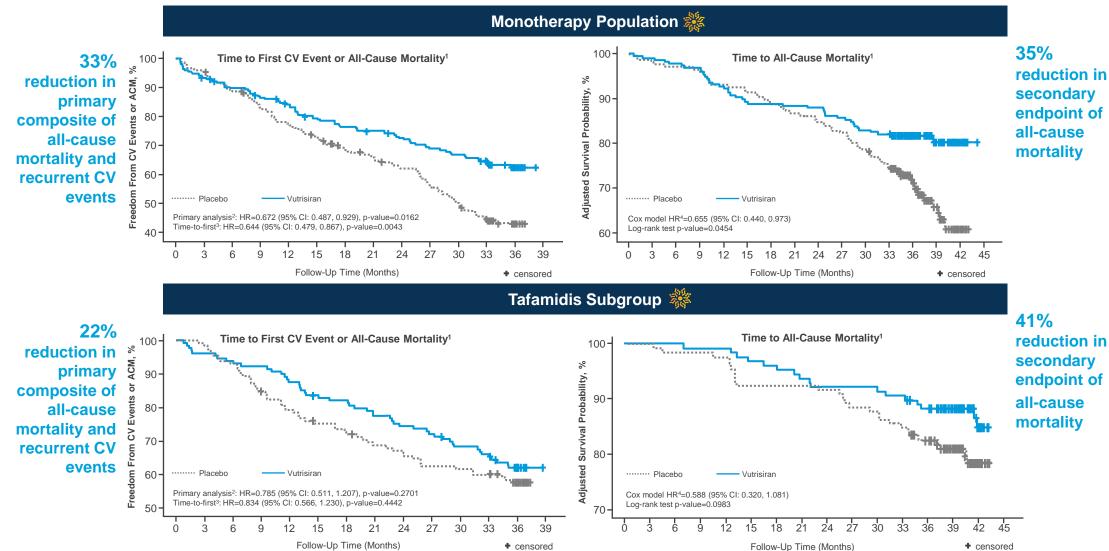


- Trends toward greater efficacy seen in patients with earlier disease (i.e, age <75 and NT-proBNP ≤2000), with 46% and 48% reduction, respectively, in primary composite, and 45% and 65% reduction, respectively, in all-cause mortality
- Consistent benefit in patients with or without baseline tafamidis



## | | | Significant Outcomes Benefit with Vutrisiran Monotherapy and Favorable Trends in Baseline Tafamidis Subgroup







## **III Key Takeaways From HELIOS-B**



In a population reflective of today's patients, on substantial background therapy, HELIOS-B demonstrated profound benefit on outcomes

Clinical effect seen early, starting with effects on well-established biomarkers predictive of outcomes in real world and within HELIOS-B

Improvements compared to placebo were seen in cardiac structure, as well as systolic and diastolic function; all important elements of underlying pathophysiology

Early benefit on functional status and quality of life, which was preserved over 30 months

Treatment effect was consistent across all subgroups, including patients on background tafamidis

Particularly profound effects on outcomes were observed for patients with evidence of early disease

Acceptable safety and tolerability profile, as previously established



## | | | Putting It All Together; Vutrisiran Well-Positioned for 1L Use

HELIOS-B results were observed in a population reflective of today's patients on substantial background therapy

Magnitude of benefit was profound

Trends of substantial benefit observed in patients on background tafamidis, highlighting unmet need in this patient population despite currently available therapies

Outsized benefit on patients with milder disease, demonstrating importance of early treatment

Preserved functional status and quality of life based on key measures of disease progression, critical in a disease marked by irreversible decline

Collectively, data indicate it is imperative to identify patients early and initiate treatment with effective therapy



## **Q&A Chat With Clinical Leadership and ATTR-CM Expert**



Pushkal Garg, M.D.

Executive Vice President,
Chief Medical Officer

**MODERATOR** 

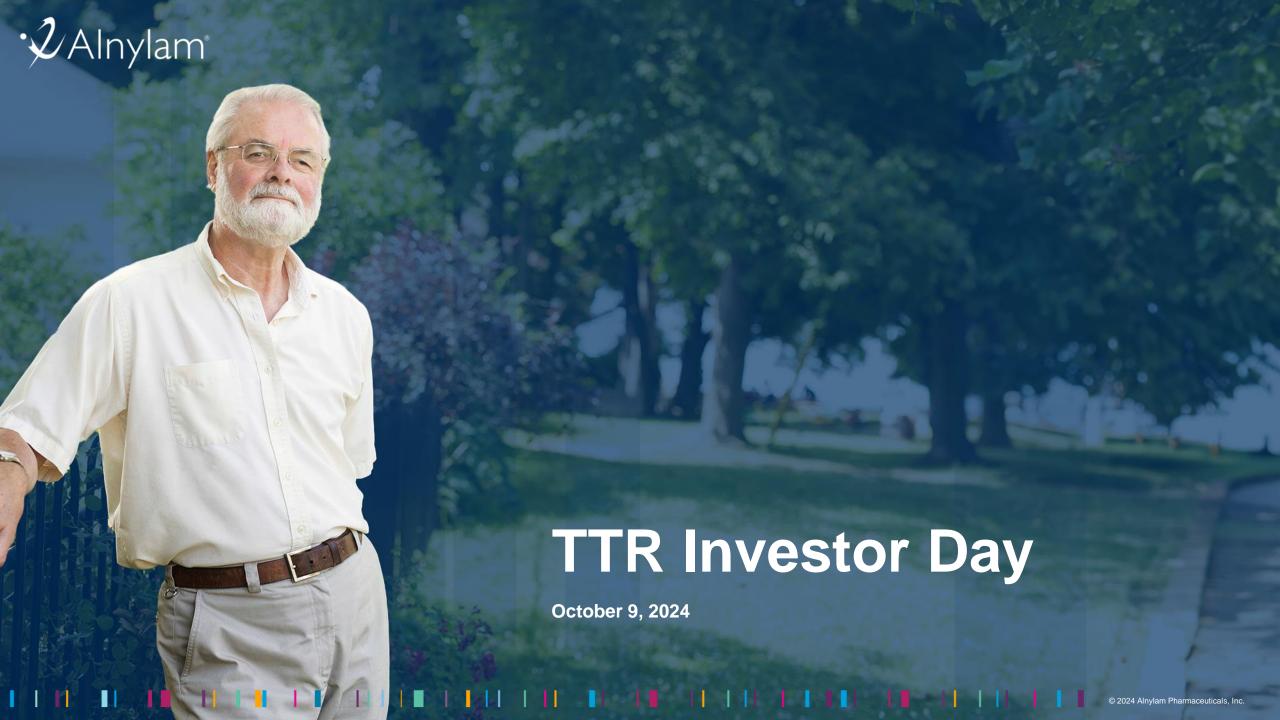


Dr. Ahmad Masri,
M.D., M.S.
Oregon Health & Science
University



John Vest, M.D.
Senior Vice President,
TTR Global
Development Lead





## III Building a Flagship Franchise in ATTR-CM

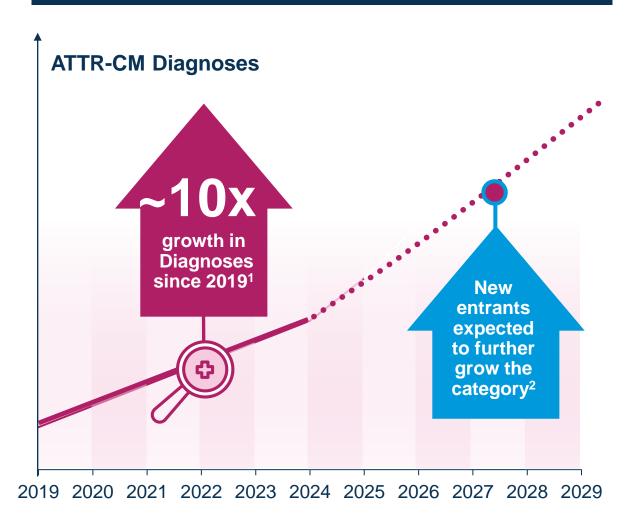
**Tolga Tanguler**EVP, Chief Commercial Officer

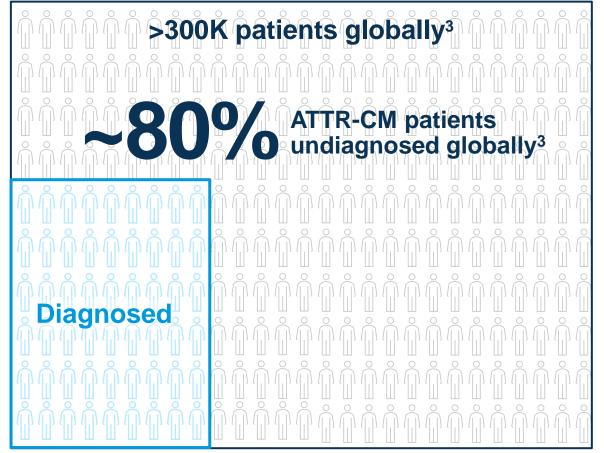


## | | Large and Growing Category with Significant Unmet Need

**Growing Category with Rapidly Improving Dx** 

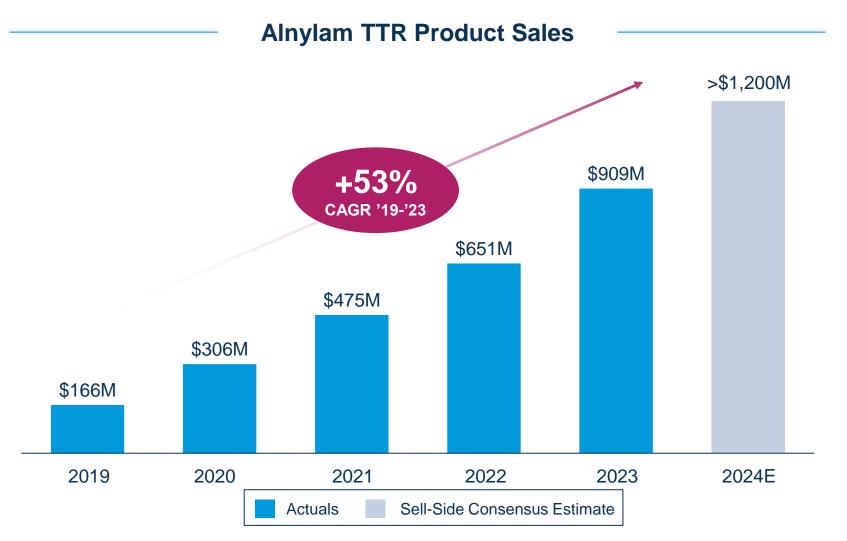
**Large and Untapped Opportunity** 

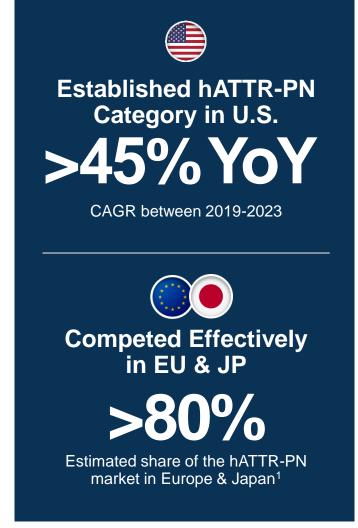






### | | Demonstrated Market Leadership in hATTR-PN







#### We Know What it Takes to Succeed







### We Have Built a World-Class Leadership Team



#### Joining us here today:



John Kennedy TTR Franchise Commercialization Lead



Mark Soued
Head of U.S. & TTR Lead



Jason Gidelson U.S. Market Access



## We Are On a Path to Leadership



Large, untapped and growing category with significant unmet need



AMVUTTRA is poised to become the standard of care for first line patients in ATTR-CM<sup>1</sup>



Our success and strong leadership in hATTR-PN position us to be highly competitive in ATTR-CM



We have a deep focus on ATTR and have scaled for a successful launch

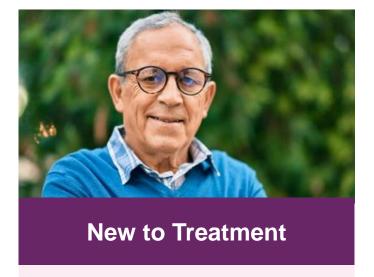


## **III** Driven by Patient Needs

John Kennedy
TTR Franchise
Commercialization Lead



# | | ATTR-CM Market is Large, Growing and Underserved with Unmet Needs Across Three Patient Segments





~80%

Global Est. Size<sup>1</sup>

~18K

New to Treatment, Annually (and Growing)

Establish AMVUTTRA

as first-line choice

Canture switch / add-o

Treatment Progressors

~20K

**Stabilizer Progressors** 

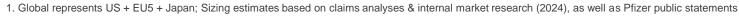
Undiagnosed Patients
(Diagnosis/Treatment Rate Improving)

Goal

Capture switch / add-on opportunity

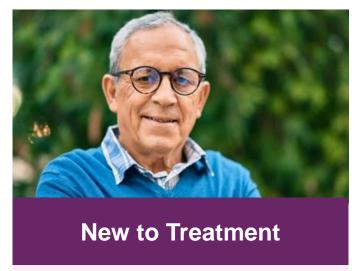
**Drive earlier diagnosis** across ATTR-CM patients

We've Developed Robust Strategy to Grow our TTR Franchise Over Time





## | Establish AMVUTTRA as First-Line Choice in ATTR-CM for Patients New to Treatment



illustrative



New to Treatment, Annually (and Growing)



#### What We Know

- >50% YoY growth in volume of ATTR-CM patients treated with approved therapy today<sup>1</sup>
- Largest & fastest growing patient segment aligned with HELIOS-B profile (milder disease)<sup>2</sup>
- ~20-30% mixed phenotype patients<sup>3</sup>

#### What It Will Take

Drive brand awareness, access & preference



#### | | HELIOS-B Delivers First-Line Potential for AMVUTTRA

#### **Clinical Considerations**



#### **Compelling HELIOS-B Dataset**

Patients with milder symptoms on substantial background therapy underscore magnitude of treatment effect and relevance of data to real world

Magnitude & consistency of impact on cardiovascular events and mortality outcomes

**Disrupted disease progression** as assessed by biomarkers, imaging, function and QoL

Impact optimized when vutrisiran treatment started early

#### **Practical Considerations**

#### **Patient Experience**

4x
dosing
per year

~95% adherence as demonstrated

#### **Access & Affordability**

>99%

of U.S. insured lives have confirmed coverage<sup>2</sup>

~70%

in hATTR-PN1

of patients have

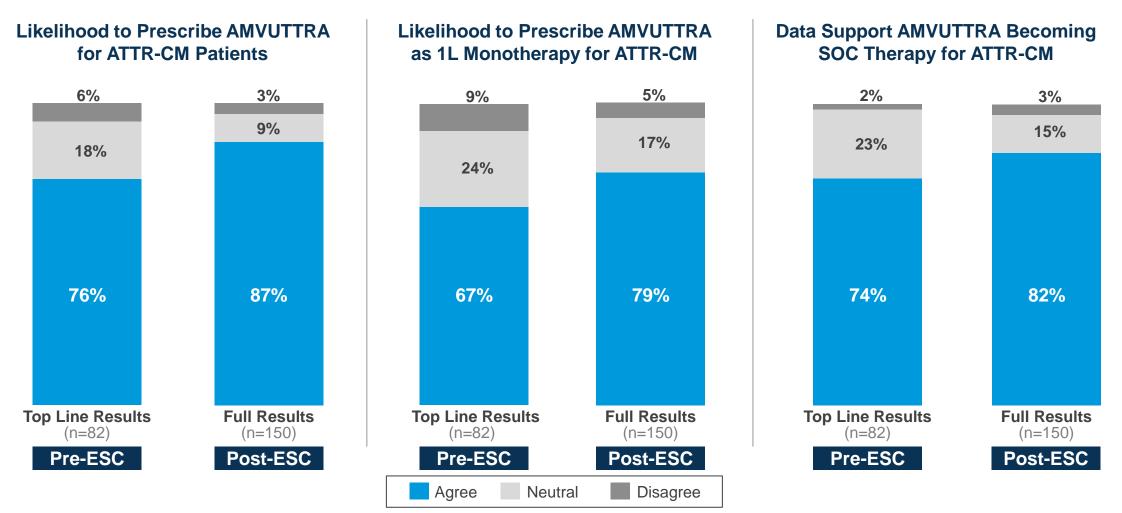
\$0 copay\*

<sup>2</sup> Alnylam

### | | Encouraging Cardiologist Response to HELIOS-B







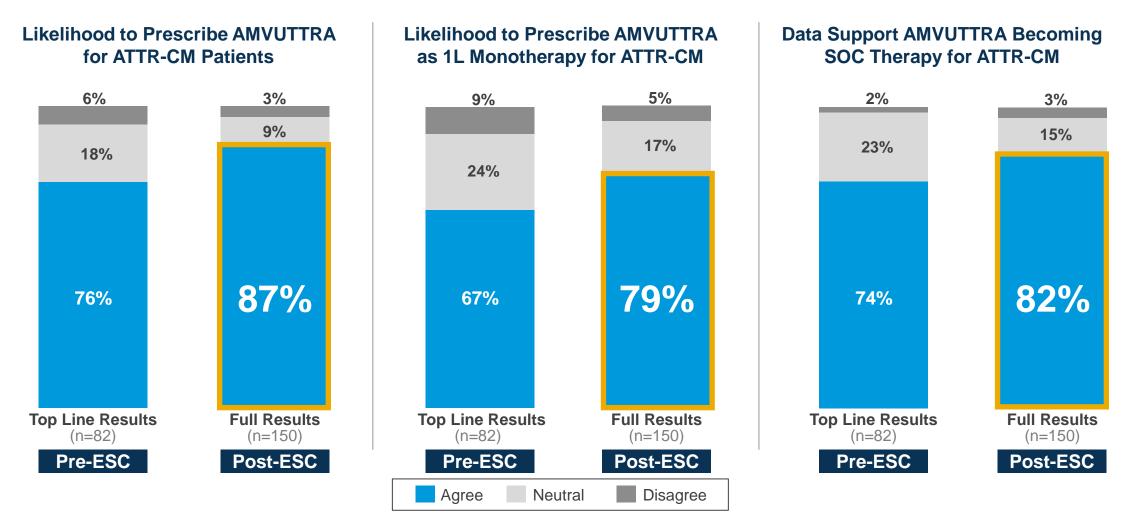
Medefield Medepoll survey conducted on behalf of IPSOS: Online short-form questionnaire collected during July 2024 and Sept 2024 consisting of cardiologists across US, France, Germany, Italy, Spain and UK. Data copyright by Medefield, and analysis/interpretation attributed to Ipsos.

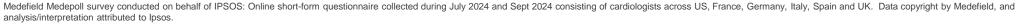


### | | Encouraging Cardiologist Response to HELIOS-B











# | | Capture Stabilizer Progressors for Switch / Add-On Opportunity



**Stabilizer Progressors** 

illustrative



**Stabilizer Progressors** 



#### What We Know

- ~50% of stabilizer treated patients experienced cardiac worsening\* over ~12 mos (median), in recent US claims/EHR analysis (n > 800)¹
- Progressor enrollment in APOLLO-B / Patisiran EAP illustrate the unmet need
- Treatment persistence gaps with daily oral Rx's evident in claims data, in ATTR-CM<sup>2</sup> & analogous therapeutic areas<sup>3,4</sup>

#### What It Will Take

- Urgency to optimize (what's lost cannot be regained)
- Clinical decision-support (e.g., progression red flags)

<sup>\*</sup>Cardiac worsening is defined as the occurrence of any of the following events: myocardial infarction (MI), deep venous thrombosis (DVT), pulmonary embolism (PE), stroke, New York Heart Association (NYHA) Class change to a more severe class, CVD-related hospitalization, aortic valve replacement, aortic stenosis, revascularization, arrhythmia, or progression in ATTR staging



## | | Drive Earlier Diagnosis Across All Addressable ATTR-CM Patients



**Undiagnosed** 

illustrative

~80%

Undiagnosed Patients (Diagnosis/Treatment Rates Improving)



#### What We Know

- ~ 10x growth in Diagnosis in US, 2019 2023<sup>1</sup>
- Competition accelerates category growth as seen in analogous, under-served specialty treatment categories<sup>2</sup>
- Alnylam track record driving sustained growth 53% CAGR (2019-2023) in hATTR-PN<sup>3</sup>

#### What It Will Take

- Advanced analytics / Al-assisted diagnosis
- Broad community (HCP/Patient) activation



## | | To Achieve Our Goals, We Must Be Ready to Scale

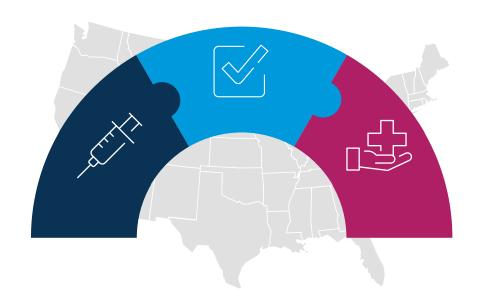
#### **Opportunity**

**Establish AMVUTTRA** as first-line choice

- Capture switch / add-on opportunity
- **Drive earlier diagnosis** across ATTR-CM patients

#### **How We'll Get There**

Successful first launch in U.S. is key enabler of early momentum





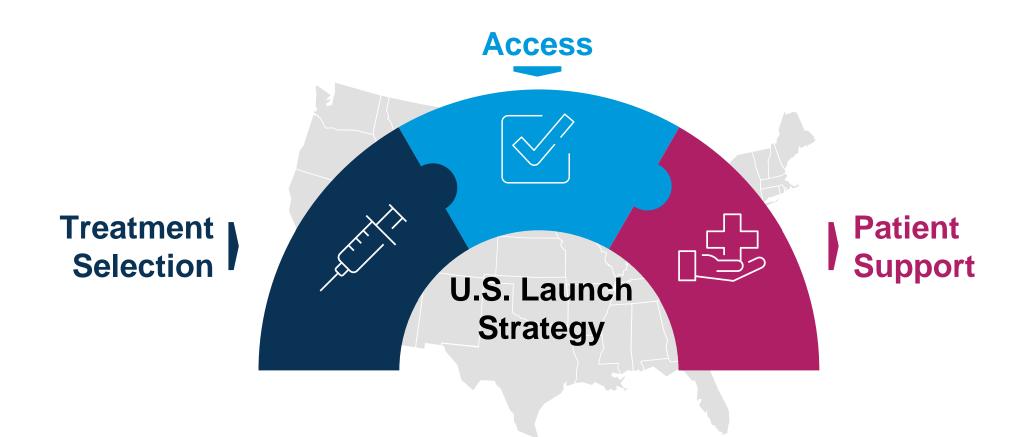
# III Unlocking the U.S. Opportunity in ATTR-CM

Mark Soued SVP, Head of U.S. & TTR Lead

Jason Gidelson VP, U.S. Market Access



#### | | Three Foundations For a Successful Launch In ATTR-CM



Entering ATTR-CM represents a step-up, NOT a giant leap



# | | Expanded Field Teams Ready to Establish AMVUTTRA as Preferred 1L Treatment Across Three Patient Segments





## | | AMVUTTRA Opportunity Spans Three Key Segments

#### ~150K Prevalent Patients in the U.S.

- New To
  Treatment
- ~5-10K ATTR-CM patients initiating treatment annually at increasing rate
- AMVUTTRA well positioned to compete as 1L choice
- Fastest segment to unlock

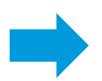
- 2 Stabilizer Progressor
- ~15-25K patients currently on stabilizers
- ~8-13K patients who may benefit from add-on or switching
- Add-on will be more common after tafamidis LOE
- Establishing AMVUTTRA in 1L will help facilitate switching

- 3 Undiagnosed
- ~75-95K patients currently undiagnosed
- With increased disease awareness/education, diagnosis rate expected to accelerate



## | | Field Teams Expanded to Deliver 100% Coverage At Launch

FROM Today (PN)



TO
At Launch



~3,700

HCPs treating ~95% of patient population

~65%
ALNY Coverage
(due to hATTR-PN diagnostic pathways)

100% ALNY Coverage



~170

Health systems accounting for ~80% of potential Rx volume (e.g., Ascension, Mayo Clinic, Stanford)

~45%
ALNY Coverage

100% ALNY Coverage

Entering ATTR-CM represents a step-up, NOT a giant leap



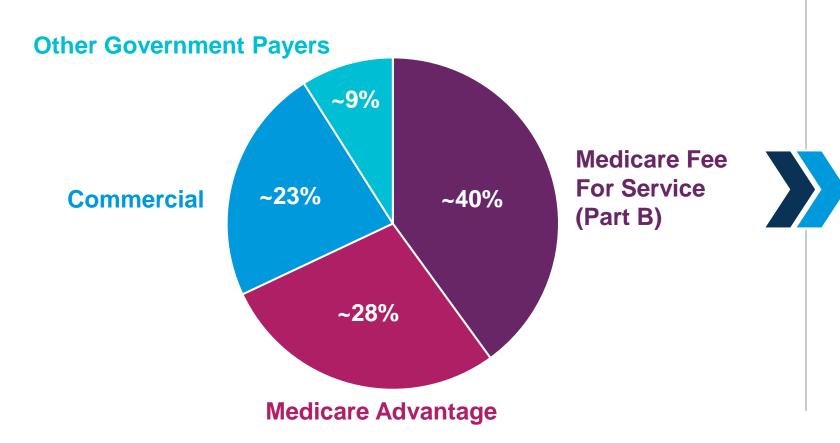
## 





## IIIn hATTR-PN, AMVUTTRA Maintains Broad Access





AMVUTTRA has maintained favorable coverage since launch

~70% of AMVUTTRA patients today pay \$0 OOP



## IIIn ATTR-CM, HELIOS-B Provides Compelling Clinical Data

## Payers First Consider Clinical Data and Then Cost in Coverage Policies<sup>1</sup>

Higher Importance

Lower Importance

Clinical Efficacy

Safety

**Net Price** 

**Unmet Need** 

Treatment Cost vs. Standard of Care

**Total Direct Treatment Cost Offset** 

Therapeutic Area Treatment Algorithm

Durability

Indirect Treatment Cost Offset

#### **HELIOS-B Clinical Benefits**

There is an unmet need in ATTR-CM given limited treatment options

HELIOS-B demonstrated that treatment can be optimized by delivering:

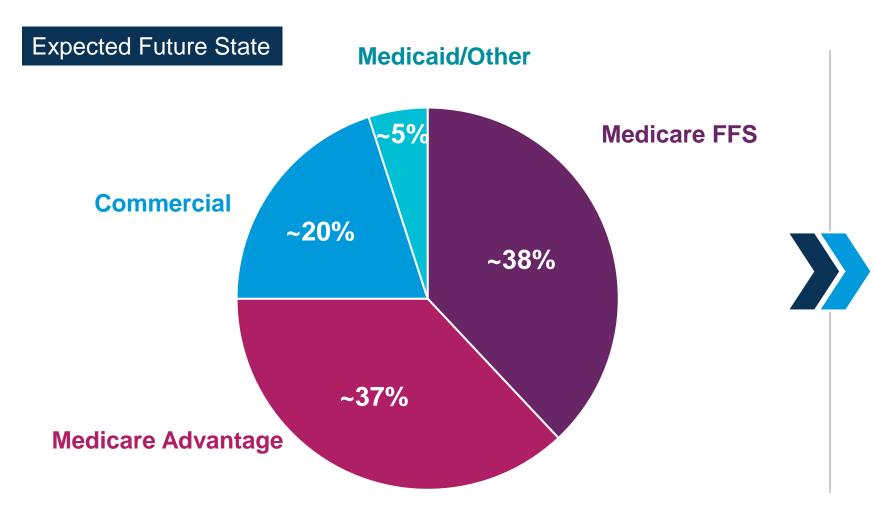
- Robust cardiovascular outcomes including mortality benefit
- Reduction in hospitalizations
- Preservation of function and quality of life

...in today's patient population

AMVUTTRA delivered consistent benefit even on backdrop of substantial background therapies (including tafamidis)



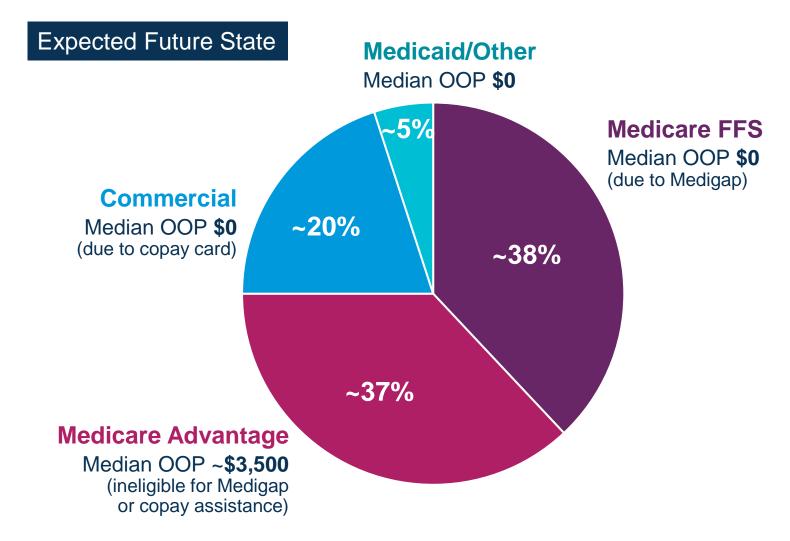
# In ATTR-CM, AMVUTTRA Expected to Have Widespread Coverage



Payer mix in
ATTR-CM expected
to be similar to
hATTR-PN, and
consistent with
current ATTR-CM
dynamics

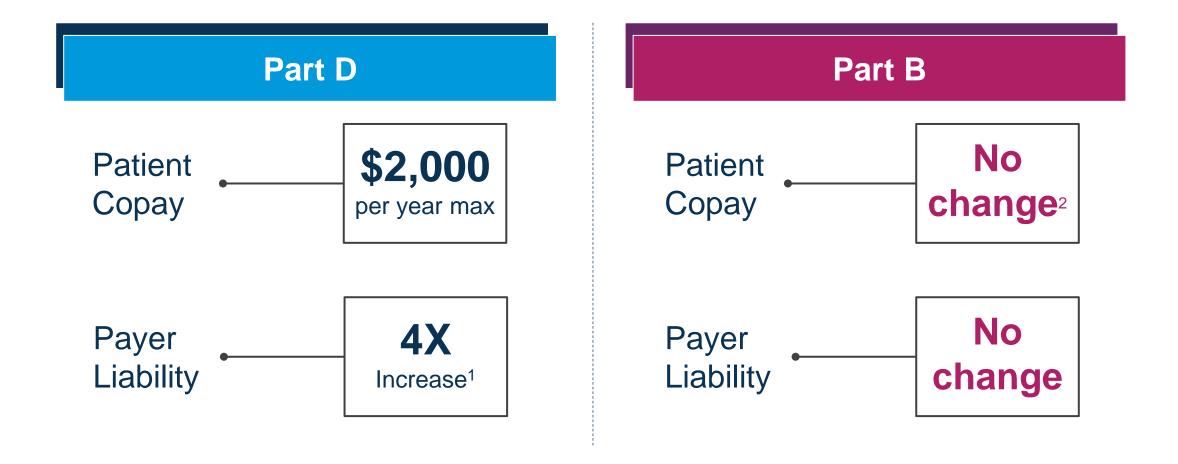


# IIIn ATTR-CM, Most AMVUTTRA Patients Expected to Pay \$0 Out of Pocket<sup>1,2</sup>





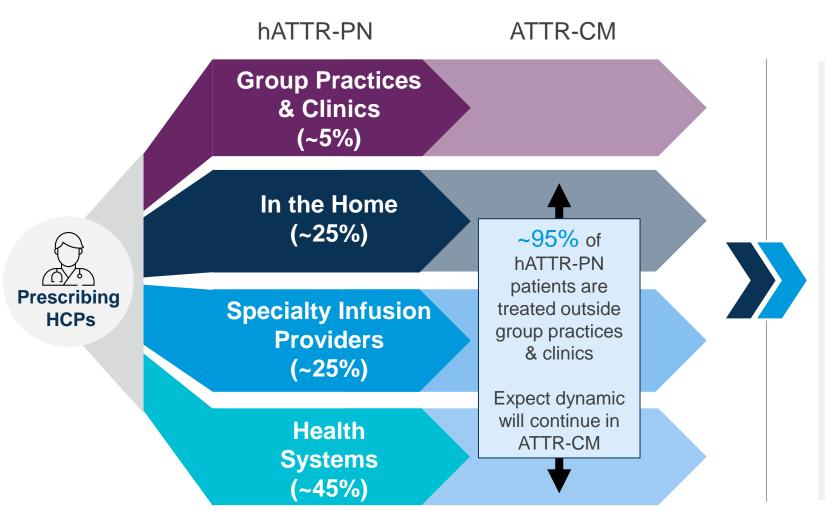
### | Inflation Reduction Act Has Important Implications For Part D





# || Existing Buy & Bill Network For AMVUTTRA in hATTR-PN Will Be Leveraged to Scale In ATTR-CM<sup>1</sup>





Most prescribers are affiliated with, or referring to, treatment sites that buy and bill AMVUTTRA

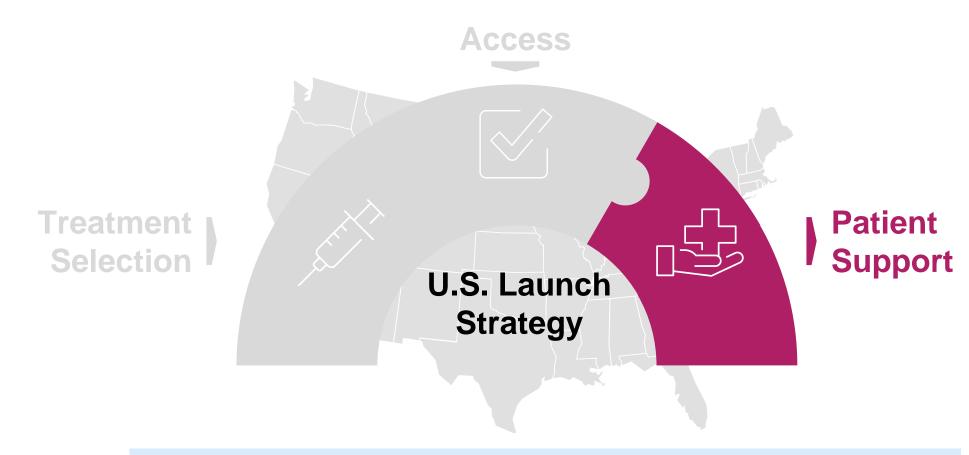
~900 Specialty Infusion Provider sites

~90% of Treated Patients live within 20 miles of a treatment site

Existing AMVUTTRA J-Code will continue to be used for reimbursement



# | | Our Robust Patient Support Is Essential to Ensure Patients Can Access Therapy and Stay on It



Entering ATTR-CM represents a step-up, NOT a giant leap



## 









Serving ~2,000 U.S. patients today

Entering ATTR-CM represents a step-up, NOT a giant leap



### We Are On a Path to Leadership



Large, untapped and growing category with significant unmet need



AMVUTTRA is poised to become the standard of care for first line patients in ATTR-CM<sup>1</sup>



Our success and strong leadership in hATTR-PN position us to be highly competitive in ATTR-CM



We have a deep focus on ATTR and have scaled for a successful launch



## **Q&A Chat With Our Commercial Leadership**



**Tolga Tanguler**Executive Vice President,
Chief Commercial Officer

**MODERATOR** 



John P. Kennedy
TTR Franchise
Commercialization Lead



Mark Soued
Senior Vice President,
Head Of U.S. & TTR Lead



Jason Gidelson
Vice President,
U.S. Market Access



| | Our Innovative Pipeline in TTR and Beyond

Yvonne Greenstreet, MBChB Chief Executive Officer



## | | | We Are Uniquely Positioned for Long-Term TTR Leadership



AMVUTTRA
offers a market
leading profile,
well-positioned
as a 1L
treatment<sup>1</sup>



Strong
commercial
performance with
proven successful
track record
in hATTR-PN



Positioned to win in ATTR-CM



TTR franchise is built for longevity



# Innovation in TTR



An Approved RNAi Therapeutic for Treatment of Polyneuropathy of hATTR Amyloidosis<sup>1</sup>

- Based on APOLLO data, commercially available in >30 countries for hATTR amyloidosis with polyneuropathy
- Positive results from APOLLO-B<sup>3</sup>
- IV administration, 1x every 3 weeks



An Approved RNAi Therapeutic for Treatment of Polyneuropathy of hATTR Amyloidosis<sup>2</sup>

- Based on HELIOS-A data, approved in US, EU, UK, JP, and BR
- Positive HELIOS-B data in ATTR amyloidosis with CM<sup>4</sup>
- Subcutaneous administration, once quarterly

#### **ALN-TTRsc04**

An Investigational RNAi
Therapeutic for Potential
Treatment of ATTR Amyloidosis

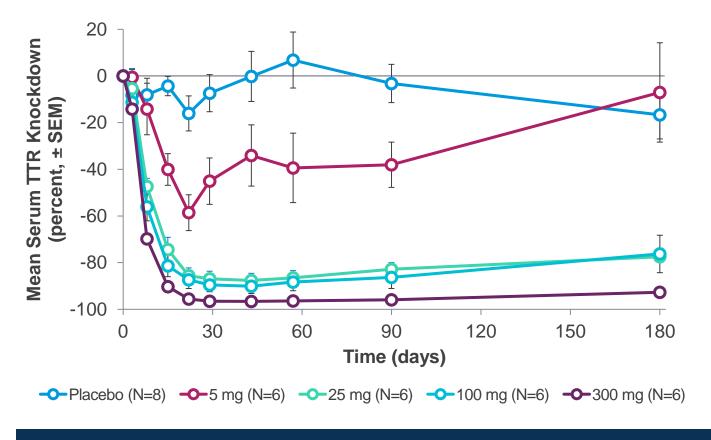
- Phase 1 study ongoing
- Potential for annual or biannual dosing and >90% serum TTR reduction
- No third-party royalties; exclusivity expected beyond 2040

<sup>1.</sup> ONPATTRO is approved in the U.S. and Canada for the polyneuropathy of hATTR amyloidosis in adults, in the EU, Switzerland and Brazil for the treatment of hATTR amyloidosis in adults with stage 1 or stage 2 polyneuropathy, and in Japan for the treatment of transthyretin (TTR) type familial amyloidosis with polyneuropathy; see Full Prescribing Information; 2. AMVUTTRA is approved in the U.S. for the treatment of the PN of hATTR amyloidosis in adults, in the EU for the treatment of hereditary transthyretin-mediated amyloidosis) in adult patients with stage 1 or stage 2 polyneuropathy; in Japan for transthyretin (TTR) type familial amyloidosis with polyneuropathy and in Brazil for the treatment of hereditary transthyretin-mediated amyloidosis (hATTR amyloidosis) in adults see Full Prescribing Information; 3. Patisiran has not been approved by the FDA, EMA, or any other regulatory agency for cardiac manifestations of amyloidosis. No conclusions can or should be drawn regarding its safety or effectiveness in this population



### | | Expanding TTR Leadership with ALN-TTRsc04

#### **Initial Phase 1 Results Support Best-in-Class Profile**



- Single 300 mg dose resulted in rapid, deep, and durable knockdown of serum TTR:
  - >90% at Day 15
  - **97**% at Day 29
  - 93% at Day 180
- All doses of ALN-TTRsc04
   well tolerated to date; no adverse
   events considered related to study
   drug by investigator
- Data support potential for annual or biannual subcutaneous dosing

Q4 2024: Share additional findings from ongoing Phase 1 study

Q1 2025: Share Phase 3 Development Plan in ATTR-CM



#### | | Advancing a Robust and High-Yielding Pipeline of RNAi Therapeutics

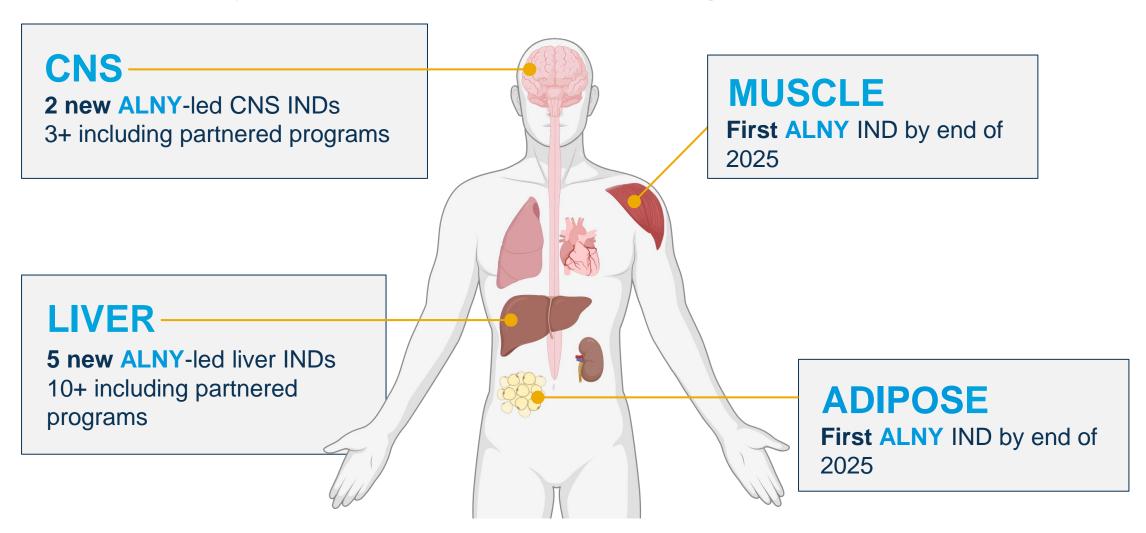
Positioned to Deliver Strong Growth and Innovation Across Multiple Disease Areas and Indications

		IND-ENABLING	PHASE 1	PHASE 2	PHASE 3	APPROVED
TTR	ONPATTRO® (patisiran)	hATTR Amyloidosis with Polyneuropathy				
	AMVUTTRA® (vutrisiran)	hATTR Amyloidosis with Polyneuropathy				
	Vutrisiran	ATTR Amyloidosis with Cardiomyopathy				
	ALN-TTRsc04	ATTR Amyloidosis				
RARE	GIVLAARI® (givosiran)	Acute Hepatic Porphyria				
	OXLUMO® (lumasiran)	Primary Hyperoxaluria Type 1				
	Fitusiran <sup>1</sup>	Hemophilia				
	Cemdisiran <sup>1</sup>	Myasthenia Gravis				
	Cemdisiran <sup>1</sup>	Paroxysmal Nocturnal Hemoglobinuria				
	ALN-Gene A	Bleeding Disorders				
CARDIOVASCULAR	LEQVIO® (inclisiran)¹	Hypercholesterolemia				
	Zilebesiran <sup>2</sup>	Hypertension			,	
METABOLIC	ALN-HSD1	NASH				
	ALN-PNP <sup>3</sup>	NASH				
	ALN-KHK	Type 2 Diabetes Mellitus				
	ALN-Gene Y	Type 2 Diabetes Mellitus				
NEUROLOGIC	Mivelsiran	Cerebral Amyloid Angiopathy				
	Mivelsiran	Alzheimer's Disease				
	ALN-SOD <sup>3</sup>	SOD1 Amyotrophic Lateral Sclerosi	s			
	ALN-HTT02 <sup>2</sup>	Huntington's Disease				
OTHER	Elebsiran <sup>4</sup>	Hepatitis B Virus Infection				
	Elebsiran <sup>4</sup>	Hepatitis D Virus Infection				
	ALN-BCAT	Hepatocellular Carcinoma				
	ALN-ANG3 <sup>1</sup>	Healthy Volunteers				

<sup>1</sup> Out-licensed with milestones and/or royalties; 2 Partnered, Alnylam-led development with U.S. profit split and milestones/royalties; 3 Partner-led with profit split; 4 Partner-led with Alnylam option for profit split

## | | Driving a Large Multi-Organ Pipeline to Clinic by End of 2025

From Liver Delivery to CNS Human PoC; Now Advancing to Adipose, Muscle, and More





### We Have the Key Components for Success

# Established Leadership in hATTR-PN

- >80% share in markets with an approved competitor
- **\$307M** global TTR net product revenue in 2Q24

## **Durable Flagship** Franchise

- Growing ATTR-CM market
- Focused TTR team built for execution and agility
- Next-gen candidate with potential best-in-class profile

## Best-in-Class Team

- Demonstrated success delivering global blockbuster products to patients
- Deep experience and dedicated focus
- Pioneers in RNAi

# Track Record of Commercial Excellence

- Delivered \$410M in global net product revenue in 2Q24
- Global footprint, with presence in >60 countries

# Robust Clinical Pipeline

- Up to 30 clinical programs anticipated by end of 2025
- 5 approved medicines

#### Sustainable Innovation Engine

- Novel extrahepatic delivery systems
- Fueling pipeline of novel RNAi therapeutics



