



Power of RNAi for ATTR-CM

August 30, 2026

Agenda



01 Leadership in TTR

Yvonne Greenstreet, M.D.
Chief Executive Officer

02 TRITON-CM: Designed for Success

Pushkal Garg, M.D.
Chief R&D Officer

03 Q&A Session



Alnylam Forward-Looking Statements

This presentation contains forward-looking statements. Forward looking statements include statements regarding Alnylam's expectations, beliefs, goals, plans or prospects including, without limitation, statements regarding: Alnylam's ability to achieve durable TTR leadership; the potential for AMVUTTRA to be a first-line treatment of choice, and a foundational treatment, in ATTR-CM; the potential for future growth in the ATTR-CM category, including potential growth in the number of diagnosed and treated ATTR-CM patients; Alnylam's ability to maintain broad access to AMVUTTRA in the future; the potential for AMVUTTRA to achieve future growth, including through growth in the breadth of prescribers who prescribe AMVUTTRA; Alnylam's ability to achieve the goals in its Alnylam 2030 strategy, including to achieve global TTR leadership, grow through sustainable innovation, and scale with discipline and agility; the potential for any of Alnylam's clinical trials to readout successfully and to unlock the next wave of transformative, RNAi-powered medicines; the potential for the TRITON-CM clinical trial of nuresiran in ATTR-CM to achieve positive results, including the potential for nuresiran to show a benefit on top of background stabilizer use; and the potential for Alnylam's TTR efficacy model to accurately predict the outcome of the TRITON-CM clinical trial or any other clinical trial.

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 2030 strategy; Alnylam's ability to successfully launch, market and sell Alnylam's approved products globally, including AMVUTTRA; 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; delays, interruptions or failures in the manufacture and supply of Alnylam's marketed products or its product candidates; obtaining, maintaining and protecting intellectual property; Alnylam's ability to manage its growth and operating expenses through disciplined investment in operations; Alnylam's ability to maintain strategic business collaborations; Alnylam's dependence on third parties for the development and commercialization of certain products; the outcome of litigation and government investigations; the risk of future litigation and government investigations; and unexpected expenditures; as well as those risks and uncertainties more fully discussed in the "Risk Factors" filed with Alnylam's most recent periodic report (Quarterly Report on Form 10-Q or Annual Report on Form 10-K) filed with the SEC and in its other SEC filings. Alnylam explicitly disclaims any obligation, except to the extent required by law, to update any forward-looking statements.

Leadership in TTR

Yvonne Greenstreet, M.D.

Chief Executive Officer



Strongly Positioned for Durable TTR Leadership

AMVUTTRA

HELIOS-B Data Support AMVUTTRA as the First-Line Treatment of Choice in ATTR-CM

Consistency in effect across endpoints and subgroups reinforces our conviction in AMVUTTRA as a foundational treatment in ATTR-CM.

NUCRESIRAN

Learnings from CARDIO-TTRansform Strengthen Our Conviction in TRITON-CM

TRITON-CM combines the depth of TTR knockdown, patient population and study design required to maximize the probability of success.

AMVUTTRA's Differentiated Clinical Profile Supports its Role as a Foundational, First-Line Therapy in ATTR-CM

amvuttra
(vutrisiran) injection
25 mg/0.5 mL

tafamidis

acoramidis

eplontersen

Approved for the treatment of ATTR-CM in adults in the U.S.



Approved for the treatment of hATTR-PN in adults in the U.S.



Consistency in treatment effect with or without background stabilizer



Dosing frequency

**Quarterly
(HCP-administered
prefilled syringe)**

Daily
(1 capsule)

Daily
(2 capsules,
twice a day)

Monthly
(self-administered
autoinjector)

Compelling profile driving >50% share of new starts amongst AMVUTTRA-experienced HCPs

Strong U.S. Fundamentals to Drive Future Growth of AMVUTTRA

Robust Category Growth

~80%

ATTR-CM patients remain untreated

~15K+

New to treatment ATTR-CM patients annually

~75K

Anticipated treated ATTR-CM patients by 2030

Emerging HCP Preference with Experience

>1,700

New AMVUTTRA prescribers since ATTR-CM launch

>50%

New patient starts among AMVUTTRA-experienced prescribers

~1/3

Active ATTR-CM treaters prescribing AMVUTTRA

Continued Broad Access

~99%

Overall coverage

>90%

first-line access with no step

\$0

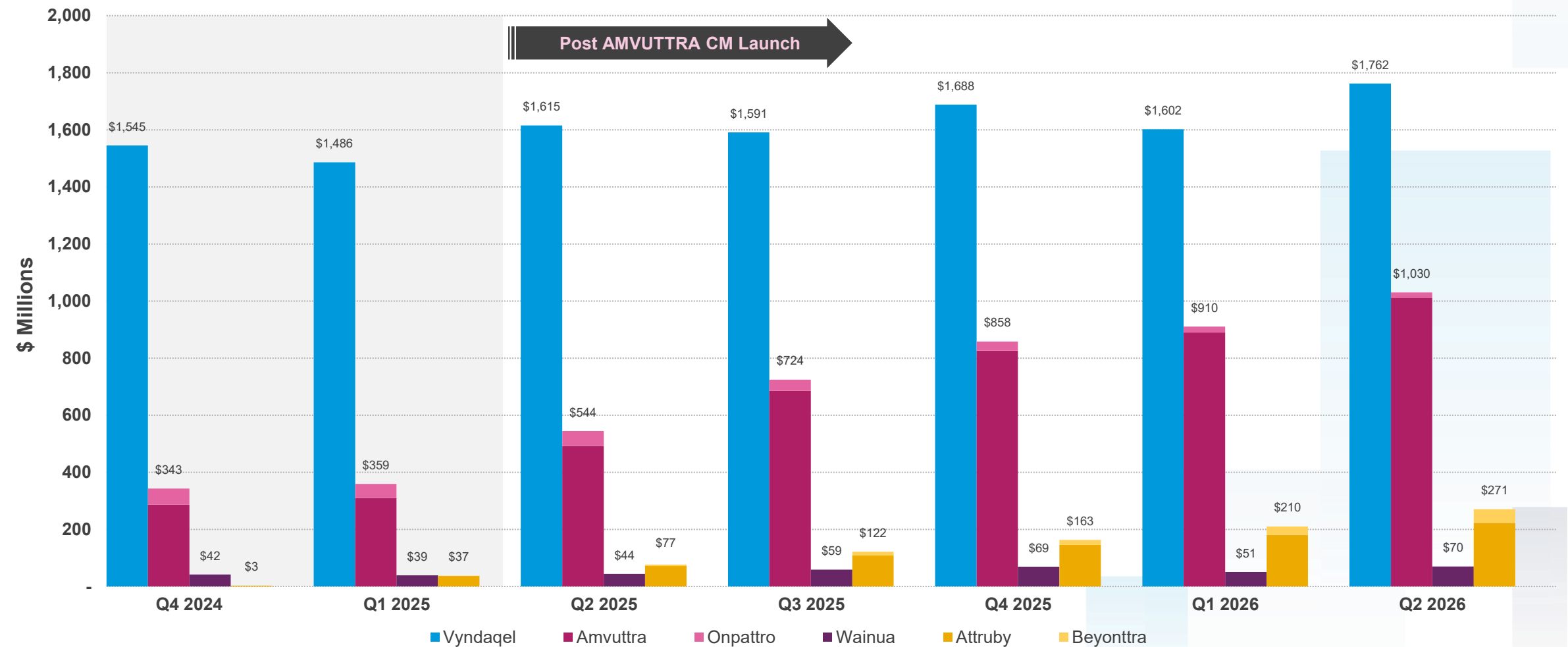
Out-of-pocket cost for most patients

Driving breadth of prescribers is key to unlocking AMVUTTRA's next wave of growth

Progressing Toward TTR Leadership

On the Path to Realizing *Alnylam* 2030 Ambitions

Quarterly Sales by Product



Source: Evaluate. ATTRUBY+BEYONTTTRA Revenues = ATTRUBY US reported revenues + BBIO royalty revenue/32%. PFE Q2 2026 earnings PR for VYNDA Q2'26 data. ATTRUBY Q2'26 revenues are estimated using visible alpha consensus as of 8.6.26 for ACO and BBIO consensus royalty revenue/32% for Beyontra

2H26 Readouts Unlocking the Next Wave of Transformative, RNAi-Powered Medicines



ALN-HTT02

Huntington's Disease

Phase 1 Data



EHDN
October 23
Krakow, Poland



ALN-6400

Bleeding Disorders

Ph 1 Data in
Healthy Volunteers

Ph 2 HHT Results



ALN-2232

Obesity & Weight Management

Phase 1 Data

Alnylam 2030

Accelerating Innovation. Scaling Impact.



2030



Achieve Global TTR Leadership

BUILD A DURABLE TTR FRANCHISE

- Lead TTR market in revenue by 2030 and cumulatively across 5-year period
- Launch best-in-class, next-gen silencer, nudesiran, in PN by 2028 and CM by 2030



Grow Through Sustainable Innovation

DELIVER THERAPIES THAT PREVENT, HALT, OR REVERSE DISEASE

- Deliver 2+ new transformative medicines beyond TTR with blockbuster potential
- Expand to 10 tissue types and > 40 clinical programs
- Invest ~30% of revenues in non-GAAP R&D, including select external innovation



Scale with Discipline & Agility

DRIVE SUSTAINED, PROFITABLE GROWTH

- Achieve 25%+ total revenue CAGR through YE 2030
- Deliver ~30% non-GAAP operating margin

TRITON-CM: Designed for Success

Pushkal Garg, M.D.

Chief Research & Development Officer

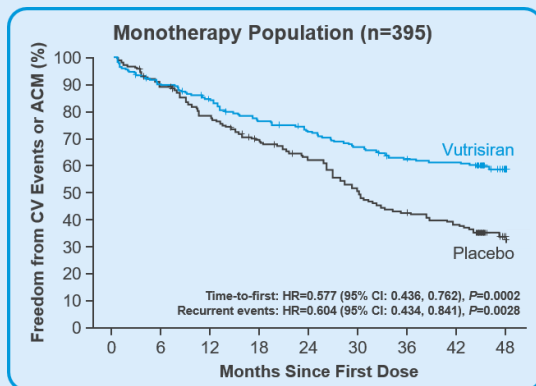


Overview

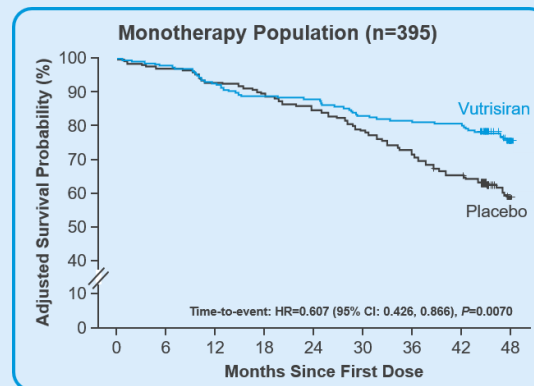
- Data from a variety of amyloidotic diseases – AL, AA and hATTR-PN – all demonstrate that **deep lowering** of the pathogenic protein is **essential to improving patient outcomes**
- Similarly, outcomes in these diseases further improve if therapies to reduce protein production are **initiated early in disease** before irreversible organ damage occurs
- Analyses of HELIOS-B, **now corroborated by learnings** from CARDIO-TTRansform, highlight that these principles are likewise critical to delivering an effective therapy for ATTR-CM
- TRITON-CM was designed with these insights in mind to **maximize clinical benefit and the probability of success**
 - Treatment with nuresiran, which provides the deepest knockdown ever evaluated
 - Focus on patients early in disease course
 - Event-driven design with an endpoint that captures overall disease burden

AMVUTTRA: Powerful Efficacy from HELIOS-B Supports First-Line Use

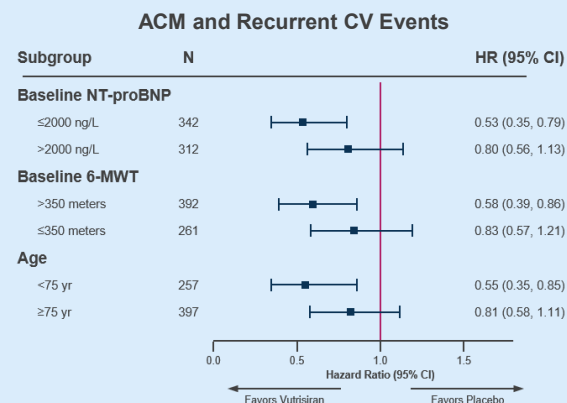
Time-to-First CV Event or ACM¹



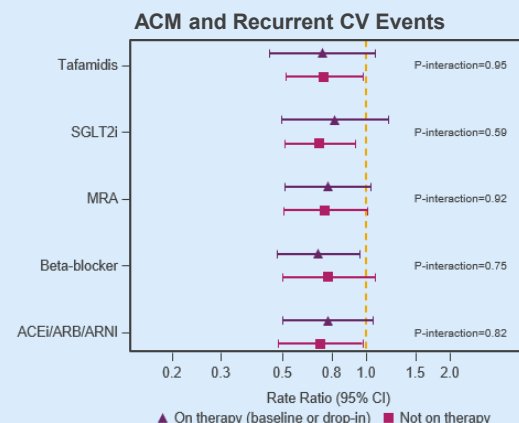
Time to ACM¹



Early Patients Realize Greatest Benefit²



Consistent Effect Across Background Meds²



Large reductions in all-cause mortality and cardiovascular events

Benefits greatest when initiated early in disease

Consistent effect on top of background medications, including stabilizers

Quarterly dosing that supports adherence

¹ Garcia-Pavia, et al. ESC 2025; ² NEJM 2024 (BNP and Age)/Data on file (6-MWT); ³ Abovich, et al. ESC Heart Failure 2026.

All-cause mortality (ACM) includes heart transplantation and left ventricular assist device placement, and CV events include CV-related hospitalizations and urgent heart failure visits.

TRITON-CM: Optimized for Success & Broad Patient Impact



*Targeting Launch
by 2030*

- Randomized, double-blind, event-driven outcomes study of nuresiran versus placebo
- N ~1,750
- Includes patients on monotherapy and background stabilizer
- Primary endpoint of all-cause mortality and recurrent CV events

Largest Study in ATTR-CM

***Enriched Patient Population
for Greatest Benefit***

Rapid and Deep TTR knockdown

***Event Driven Endpoint of All-Cause Mortality &
Recurrent CV Events***

Key Cardio-TT Ransform Questions Going Into ESC

Patient characteristics

disease severity across subgroups; background meds

TTR knockdown

depth and time to achieve; variability

Safety & tolerability

adherence to study drug; competing risks

Study execution

completeness of follow-up

Outcomes

impact on endpoint components (CVM, CV events) as well as ACM; accrual of events over time;
treatment effect over time; across subgroups (e.g., disease severity)

What Have We Learned at ESC?

Potential Explanations for CARDIO-TTRansform Failure

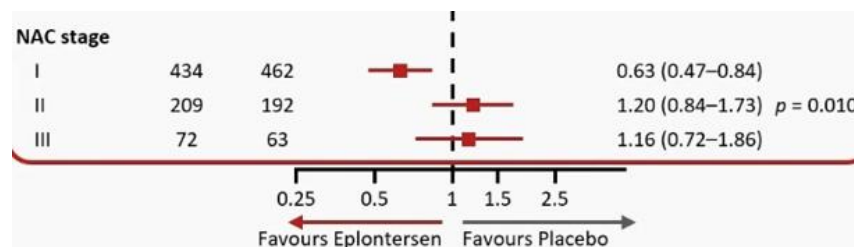
LESS TTR KNOCKDOWN

	Eplontersen ¹	Vutrisiran ²	Δ
Mean	69.7%	81.0%	~11%
Median	76.2%	86.8%	~11%

MORE ADVANCED POPULATION

Baseline characteristic	CARDIO-TTRansform	HELIOS-B
NYHA class III	17%	9%
NAC stage 3	9%	5%
NT-proBNP, median pg/mL	2,025	1,920
BNP >8500 pg/mL	4.5%	0.5%
eGFR <45	16%	11%

CARDIO-TTRansform primary composite endpoint by NAC stage



ENDPOINT SELECTION

Cardiovascular mortality



No clear mortality signal

Up to 140 wks: HR 0.88 (95% CI 0.65–1.18), P=0.39
Up to 160 wks: HR 0.86 (95% CI 0.65–1.14), P=0.29

All-cause mortality



Apparent survival benefit

Up to 140 wks: HR 0.77 (95% CI 0.60–0.99), P=0.043
Up to 160 wks: HR 0.78 (95% CI 0.61–0.99), P=0.039

¹ CARDIO-TTRansform; ² HELIOS-B (steady state values)

Note: For illustrative purposes only. Data are derived from different clinical trials conducted at different times, with differences in trial design and patient populations. As a result, cross-trial comparisons cannot be made, and no head-to-head clinical trials have been conducted

Continued High Confidence in TRITON-CM Based on Data & Experience



Our Molecule

- ✓ *RNAi*
- ✓ *>95% TTR knockdown²*
- ✓ *2 prior studies showing effect on top of stabilizers¹*



Our Study

- ✓ *~1,750 patients*
- ✓ *Event driven*
- ✓ *Enriched for patients most likely to benefit*



Our Track Record

- ✓ *>15 years in TTR drug development*
- ✓ *Deep patient-level insights from prior studies*
- ✓ *Meticulous study execution driving successful results (e.g., HELIOS-B)*

¹ HELIOS-B and APOLLO-B ² Phase 1 data (300 mg Q6M).

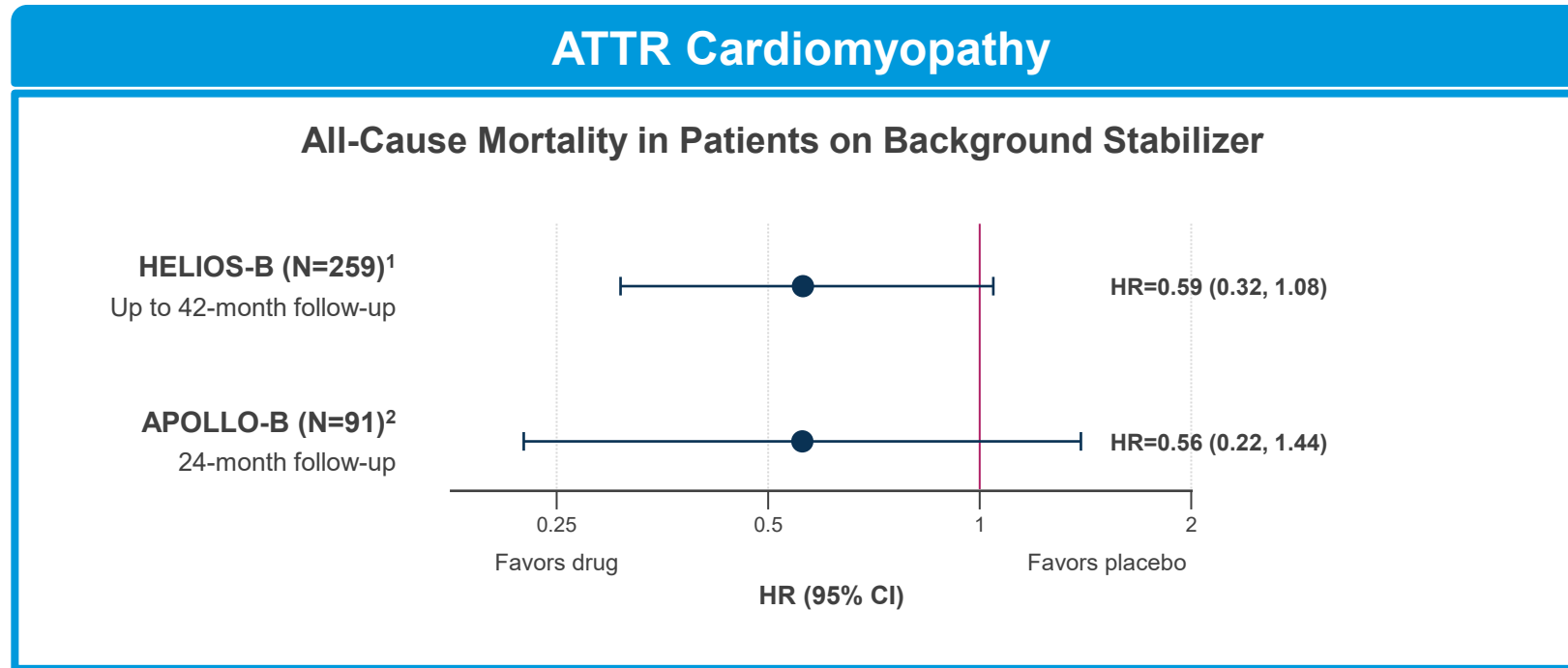
Recent Datasets Suggest Advantages of RNAi Silencing

Target & Molecule	Mechanism	Dosing Regimen	Target KD	Key Trial Result	
AGT SBP					ASO development shifted to a follow-on asset, currently in development for a narrower, more severe population
Zilebesiran ¹ (monotherapy)	RNAi	300 mg Q6M	-93% @M6	-14.5 mmHg @M6	
IONIS-AGT-L _{RX} ² (monotherapy)	ASO	80 mg QW x 6	-54% @D43	-8 mmHg @D43	
APOC3 TG					ASO has Warnings & Precautions for hypersensitivity and liver enzyme elevations
Plozasiran ³	RNAi	25 mg Q3M	-91% @M10	-80% @M10	
Olezarsen ⁴	ASO	80 mg QM	-72% @M6	-30% @M6	
PCSK9 LDL-C					ASO development discontinued due to failure to meet prespecified efficacy criteria
Inclisiran ⁵	RNAi	284 mg Q6M	-69% @M6	-53% @M6	
ION449 (AZD8233) ⁶	ASO	60 mg QM	-78% @W28	-57% @ W28	

Note: For illustrative purposes only. Data are derived from different clinical trials conducted at different times, with differences in trial design and patient populations. As a result, cross-trial comparisons cannot be made, and no head-to-head clinical trials have been conducted

¹ KARDIA-1, [AHA 2023](#); ² Morgan, et al. [JACC 2021](#); ³ REDEMPLO [U.S. Prescribing Information](#); ⁴ TRYNGOLZA [U.S. Prescribing Information](#); ⁵ LEQVIO [U.S. Prescribing Information](#); ⁶ Koren, et al. [JACC 2022](#)

RNAi Benefit on Top of Stabilizers Supported by Strong Clinical Data

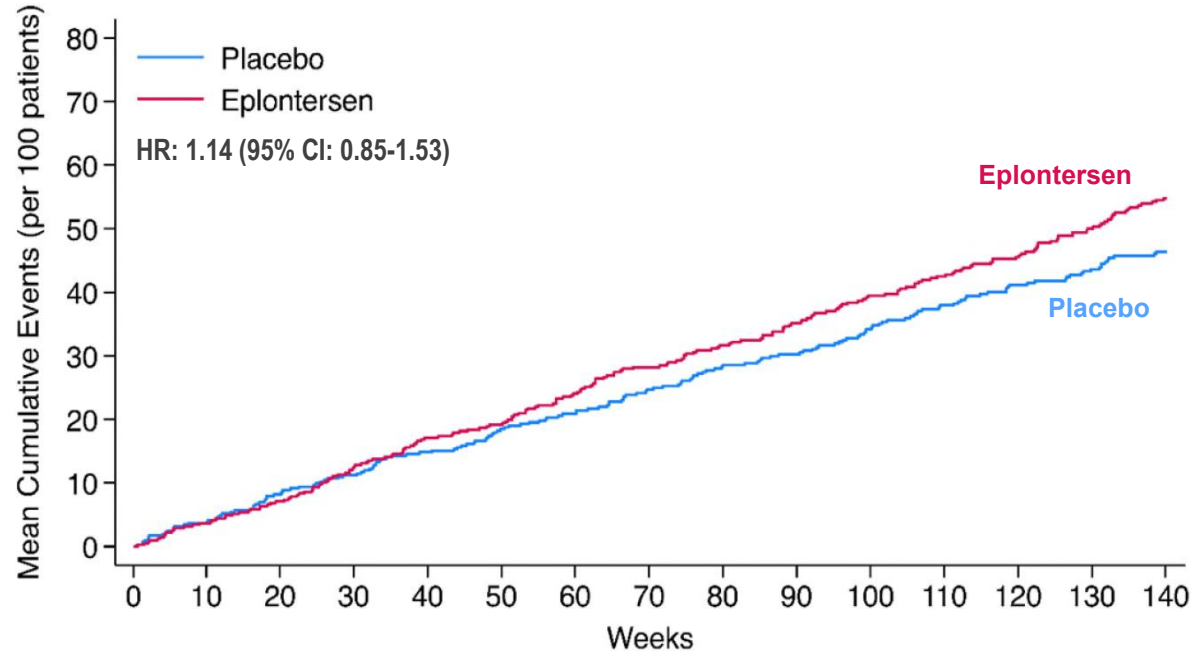


Two independent studies with different RNAi therapeutics demonstrated reduction of ACM on top of background stabilizers

HELIOS-B Demonstrated Additive Benefit of Vutrisiran on Top of Stabilizer Therapy Using CARDIO-TTRansform Primary Endpoint

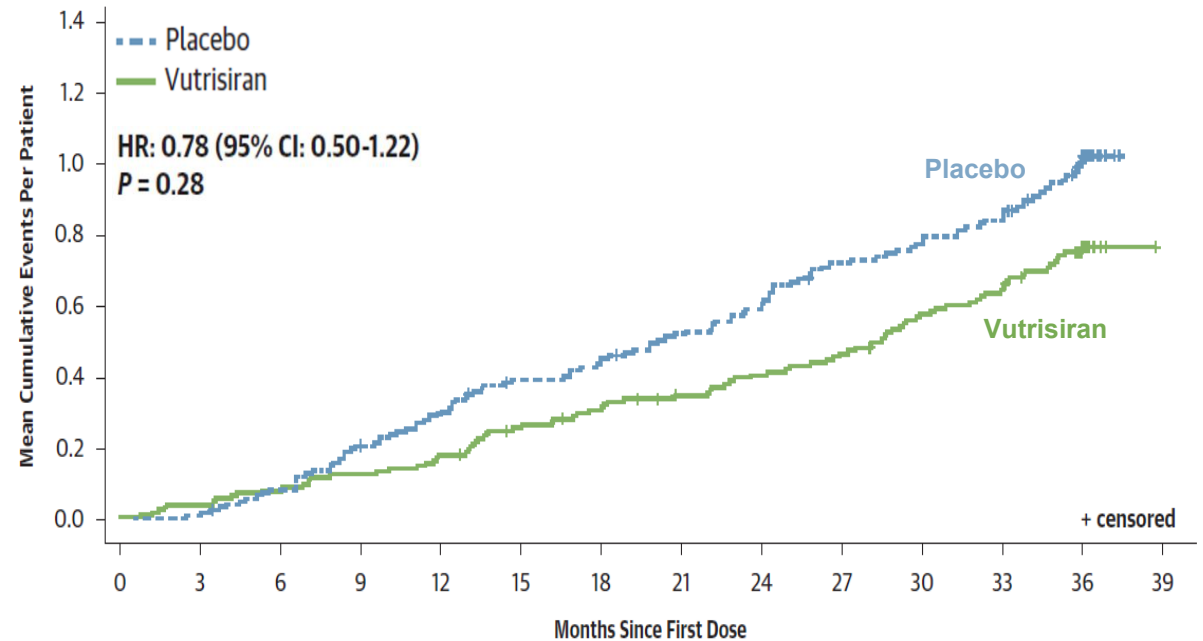
CARDIO-TTRansform¹

Composite of Cardiovascular Death and Recurrent Cardiovascular Events up to Week 140 in Patients Receiving TTR Stabilizers at Baseline



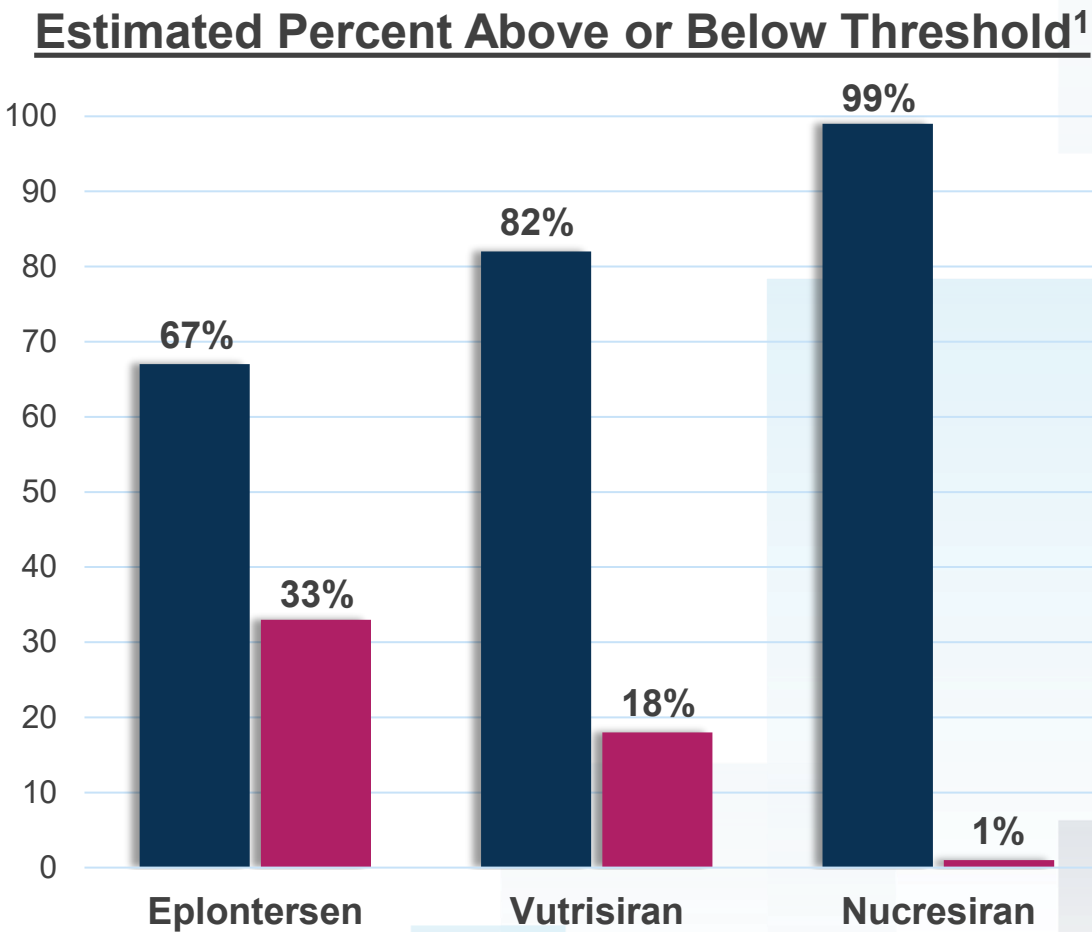
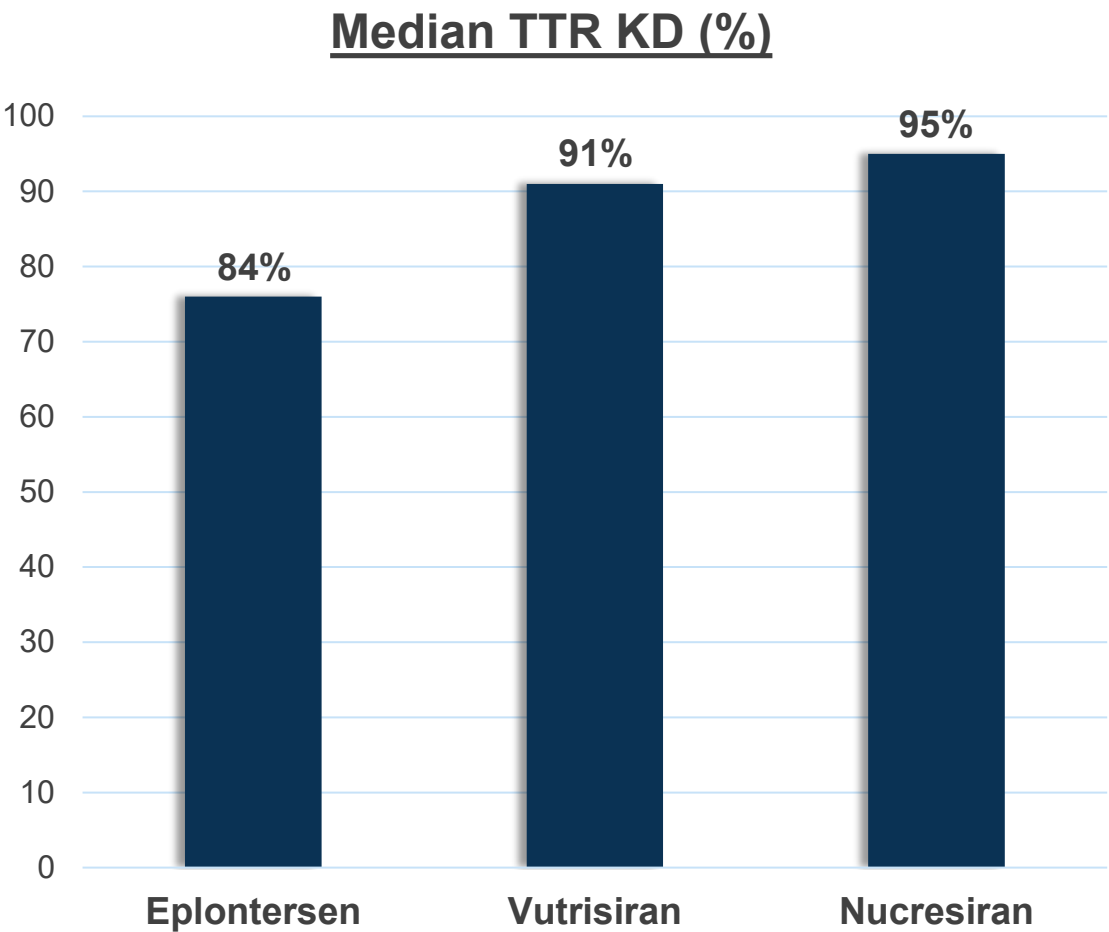
HELIOS-B²

Mean Cumulative Cardiovascular Mortality and Cardiovascular Events by Treatment During the Double-Blind Period in the Baseline Tafamidis Subgroup



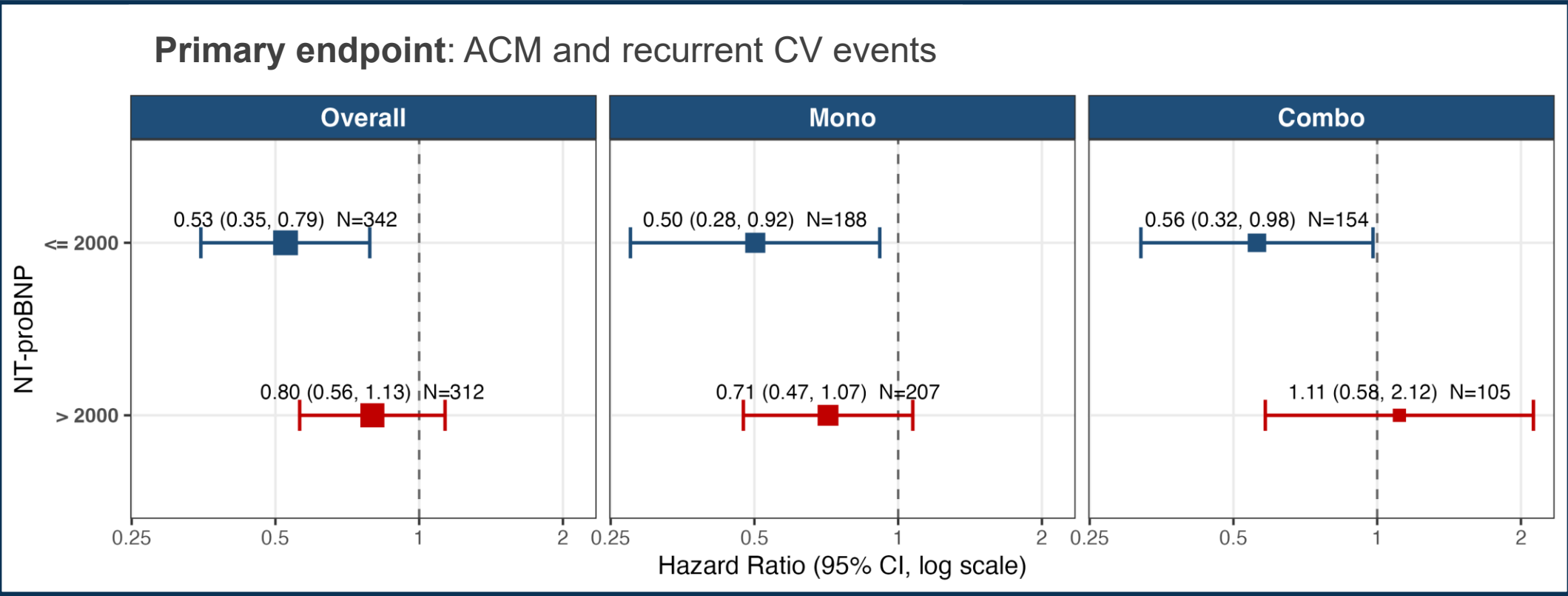
RNAi Drives Deep, Consistent Knockdown of TTR

Vutrisiran and Eplontersen Values Derived from hATTR-PN Studies



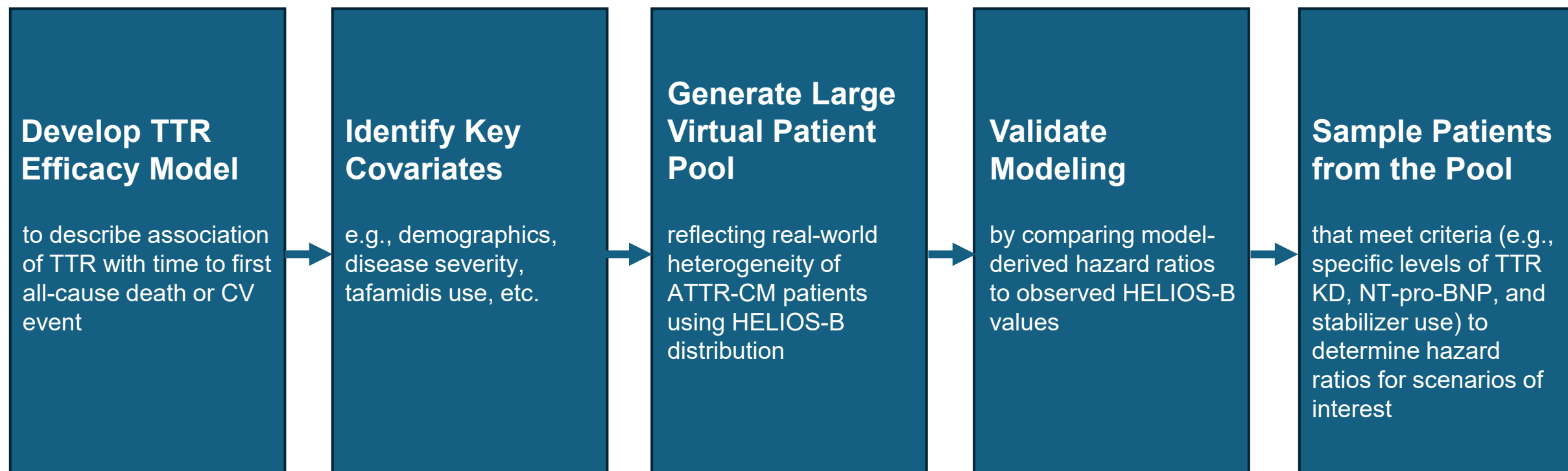
Eplontersen data: NEURO-TTRansform; Vutrisiran data: HELIOS-A; Nucleosiran data: model predicted using Phase 1 data (300 mg Q6M). Steady state KD numbers are based on week 35 data for eplontersen and M18 data for vutrisiran and nucleosiran; The proportion of patients are model-based approximate estimates and calculated using observed (eplontersen and vutrisiran) or predicted (nucleosiran) median & IQR and lognormal distribution assumption. ¹ Polydefkis, et al. ISA 2018

HELIOS-B Demonstrated Silencing Early Drives Greatest Benefit, Irrespective of Background Stabilizer Use





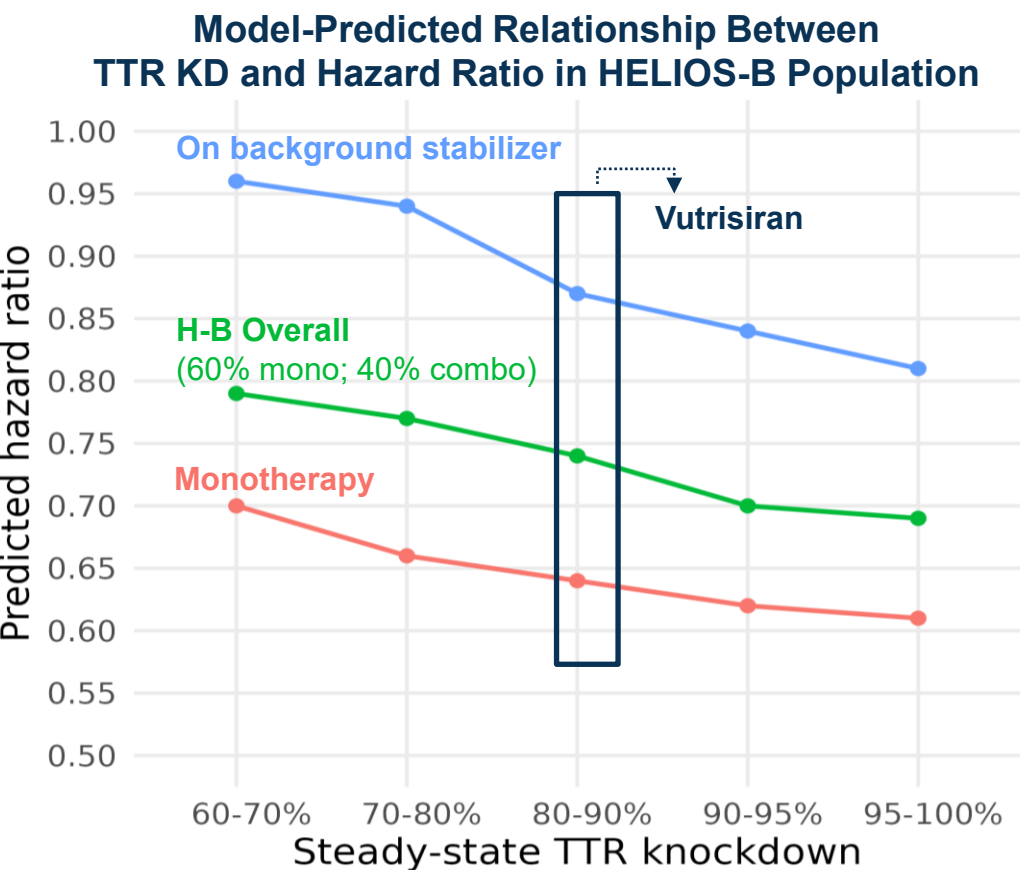
Modeling Relationship Between TTR and Outcomes in ATTR-CM Using HELIOS-B Data



Key limitation: Model built on individual patient-level data from HELIOS-B and assumes covariate relationships observed in that study can be appropriately extrapolated to other ATTR-CM patient populations and settings

Model Illustrates Deeper TTR Knockdown Associated with Better Outcomes in ATTR-CM

Modeling Time to ACM or First CV Event



Steady State TTR KD (Median)

Vutrisiran HELIOS-B	Eplontersen CARDIO- TTRansform	Nucresiran ¹
87%	76%	95%

- Deep TTR KD drove HELIOS-B success
- Lower TTR KD and more advanced patient population may offer explanations for CARDIO-TTRansform failure
- Even deeper TTR KD and earlier patient population suggest nucresiran is positioned for success in TRITON-CM

¹ Model predicted using Phase 1 data

Nucresiran Designed for Success in TRITON-CM

Deep TTR knockdown, early treatment and endpoint selection are critical to demonstrating outcomes benefits of TTR silencing in ATTR-CM, and point to potential reasons for CARDIO-TTRansform failure

TRITON-CM optimized to demonstrate outcomes benefit

- Built upon learnings from two successful RNAi therapeutics that have already shown efficacy in monotherapy setting and on top of stabilizers
- Highest-ever knockdown; associated with greatest potential for efficacy
- Study enriched for less advanced patients who accrue greatest benefit
- Event-driven design with an endpoint that captures overall disease burden

Will continue to review CARDIO-TTRansform data and assess any implications for TRITON-CM

Q&A Session

A photograph of two women sitting at a table in a dimly lit room, laughing heartily. The woman on the left has short grey hair and is wearing a white crocheted cardigan with colorful floral patterns. The woman on the right has dark hair and is wearing a green and white patterned top. They are both smiling broadly, showing their teeth. The background is dark and out of focus, showing some kitchen items on a counter. A warm light source is visible behind them, creating a soft glow.

Silence disease

Amplify life™

 Alnylam®