

AMERICAN HEART ASSOCIATION'S
ATTR-CM WEBINAR SERIES:
WEBINAR #1

Understanding Amyloidosis & Emerging Therapeutic Frontiers

JUNE 18, 2025



Meeting Reminders

Please Note:

- This webinar is being recorded.
- All participants will be muted upon entry.
- Recordings of today's sessions will be enduring resources in a few weeks on www.heart.org

Questions?

- We encourage an open, conversational discussion, so please engage and share your thoughts!
- Q&A is scheduled at the end of the webinar.
- Submit your questions in the chat anytime—they will be addressed during the designated Q&A.

If you are having issue with audio, please call in using the appropriate number below.

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Meeting ID: 813 5849 3759

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Welcome & Introductions

Devin Marie Keating

Director of Operations, Clinical Studies

American Heart Association



Thank you to
Intellia Therapeutics
for being a proud supporter of the
American Heart Association's
ATTR-CM Awareness and Education



AHA Science Advisory - November 2024 Gene Therapy in Cardiovascular Disease

“Gene therapy holds immense promise as a paradigm-shifting approach in the management of CVD [Cardiovascular Disease], offering the prospect of disease prevention, long-lasting cures, and alleviation of lifelong pharmacotherapy.”





AHA's ATTR-CM Educational Webinar Series

The ATTR-CM Educational Webinar Series is designed to advance awareness, early diagnosis, and equitable access to care for transthyretin amyloid cardiomyopathy (ATTR-CM). Through a series of expert-led sessions, the series aims to:

Educate | Elevate | Engage | Equip

Welcome & Introductions



Andrew Landstrom, MD, PhD, FAHA

Associate Professor of Pediatrics and Cell Biology
Duke University School of Medicine

Joshua Hare, MD, FACC, FAHA

Louis Lemberg Professor of Medicine/Director,
Interdisciplinary Stem Cell Institute
University of Miami Miller School of Medicine

Andrew Landstrom, MD, PhD, FAHA:

- No Disclosures or RWI
- Research & salary support from NIH, Doris Duke Charitable Foundation, Le Ducq Foundation, Additional Ventures, Hartwell Foundation

Joshua Hare, MD, FACC, FAHA:

- Patents: Listed inventor on patents owned by the University of Miami and Longeveron
- Consultant: Vestion
- Equity: Kardia, Vestion, Heart Genomics, Longeveron, Inc.(Equity Owner)
- Company Co-Founder: Vestion, Inc., Heart Genomics, LLC,
 - Longeveron, Inc. - Inventor of technologies licensed from UM to Longeveron; The University of Miami is an equity owner in Longeveron (LGVN), which has licensed intellectual property from the University of Miami.



Educational Objectives:

- 1. CURRENT LANDSCAPE OF GENE THERAPY**
Explore the expanding role of gene therapy in cardiovascular care, with a focus on ATTR-CM.
- 2. RESEARCH & TRIALS**
Highlight key studies and landmark clinical trials shaping the future of treatment.
- 3. AMYLOIDOSIS 101**
Understand disease mechanisms, types, and clinical presentation
- 4. ATTR THERAPEUTICS**
Explore transthyretin amyloidosis, its cardiac impact, and emerging treatments, including gene therapies.
- 5. WHAT'S NEXT?**
Preview upcoming education tools and innovations in care.





Current Landscape of Gene Therapy

Andrew Landstrom, MD, PhD

Associate Professor of Pediatrics and Cell Biology

Duke University School of Medicine





GENE THERAPY:

Genetic modification
of cells to produce
a therapeutic effect



Gene Therapy Development Landscape

33 Gene Therapies Approved*

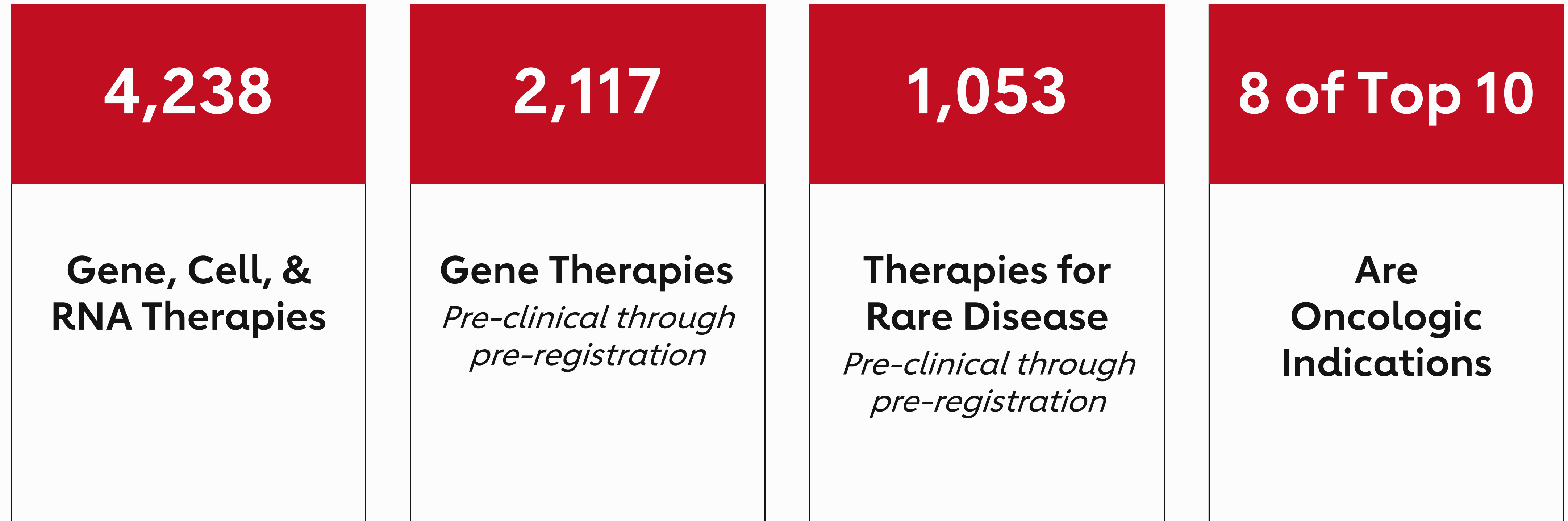
35 RNA Therapies Approved

72 Non-Genetically Modified Cell
Therapies Approved

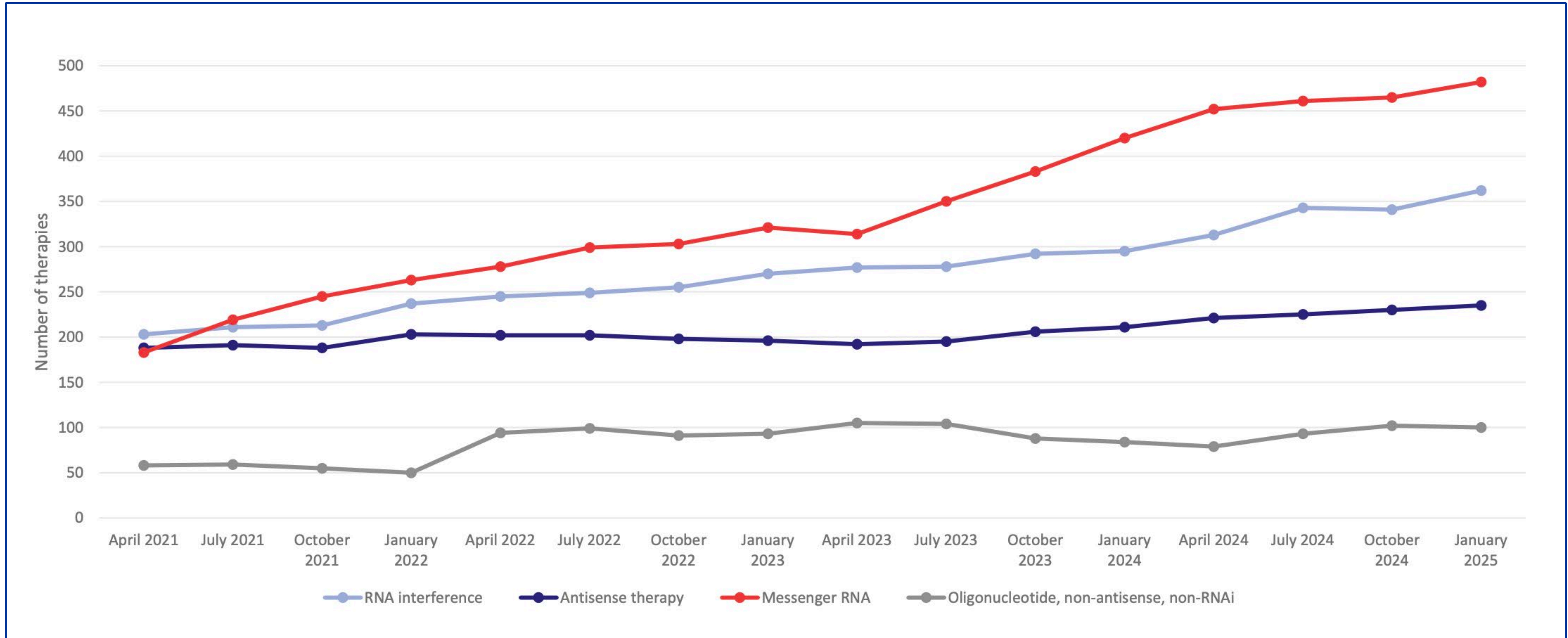
NEARLY ALL are for cancer, skeletal
myopathies, metabolic disease,
hematologic disease, among others



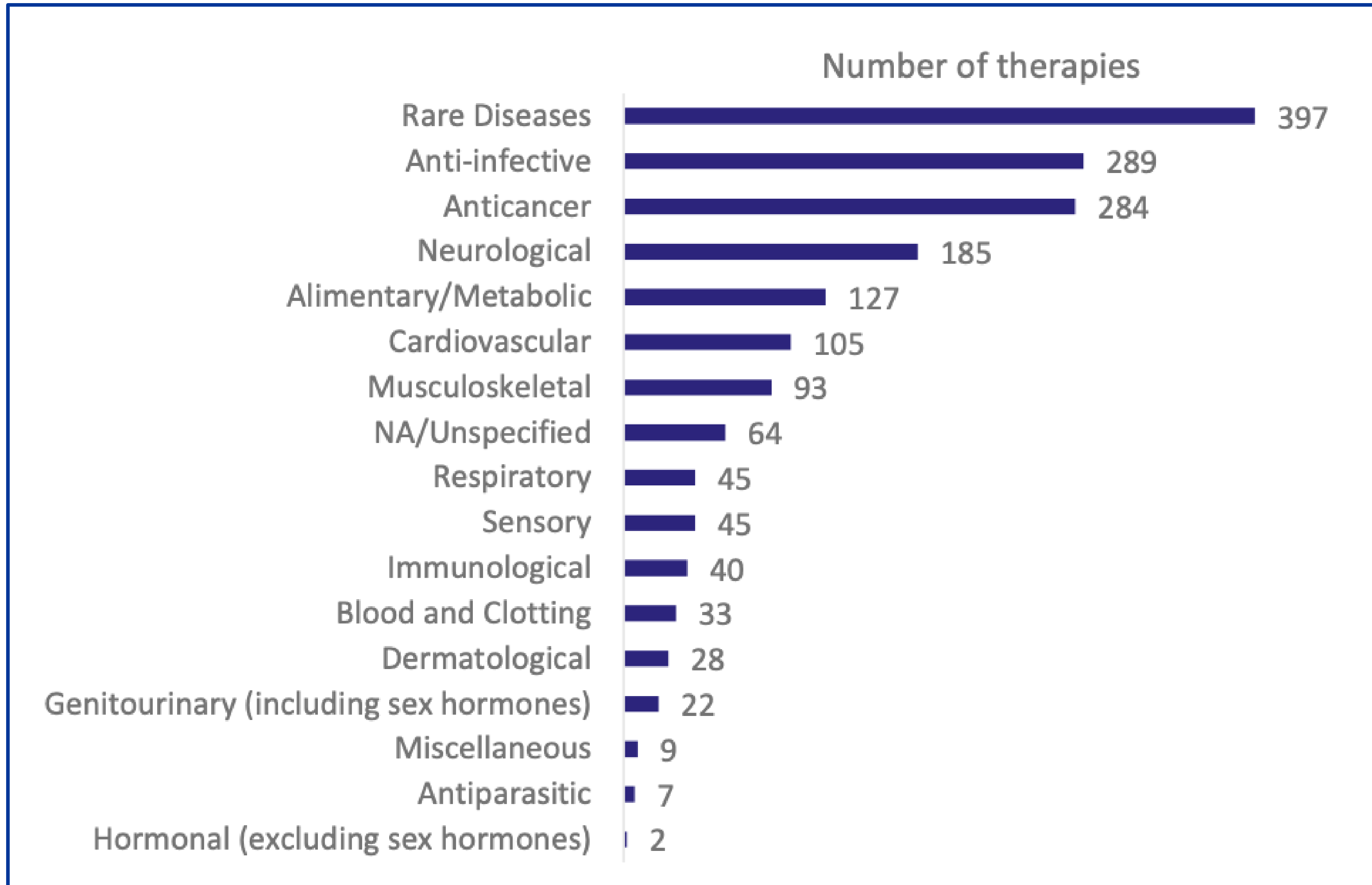
The Development Pipeline



RNA Therapies in the Development Pipeline

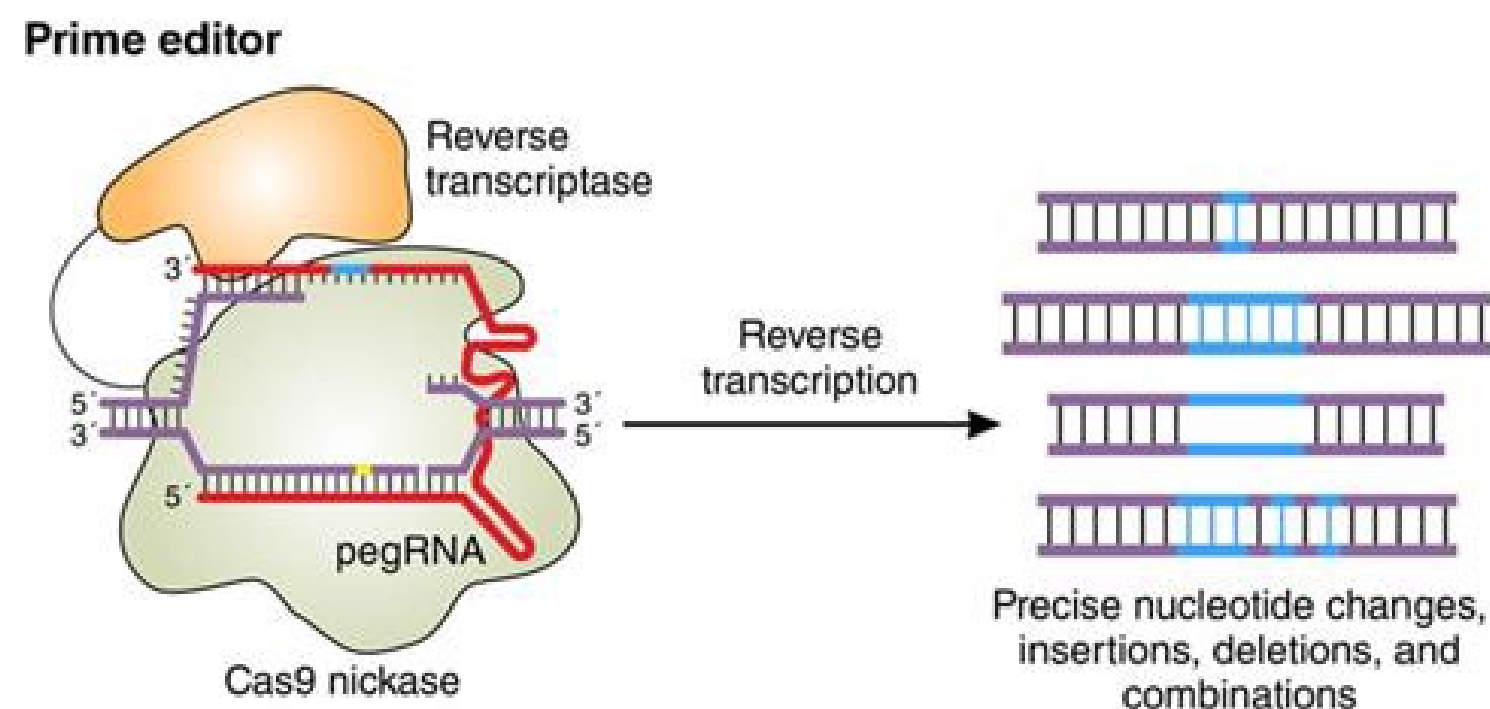


RNA Therapies in the Development Pipeline

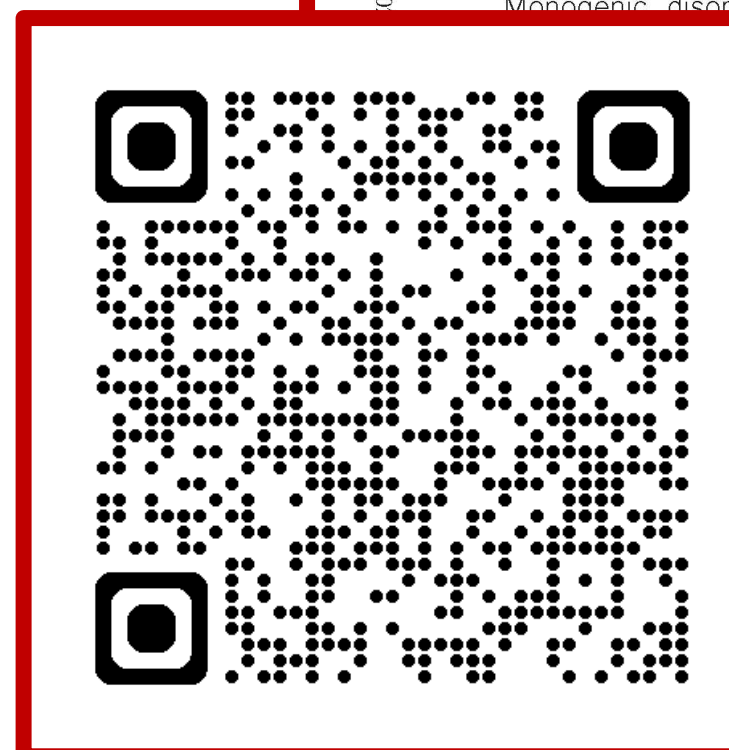


AHA Science Advisory: Gene Therapy in Cardiovascular Disease November 2024

“Gene therapy holds immense promise as a paradigm-shifting approach in the management of CVD [Cardiovascular Disease], offering the prospect of disease prevention, long-lasting cures, and alleviation of lifelong pharmacotherapy.”



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TO READ THE FULL ARTICLE



Circulation

AHA SCIENCE ADVISORY

Gene Therapy in Cardiovascular Disease: Recent Advances and Future Directions in Science: A Science Advisory From the American Heart Association

Yuri Kim, MD, PhD, Chair; Andrew P. Landstrom, MD, PhD, FAHA; Svati H. Shah, MD, MHS, FAHA; Joseph C. Wu, MD, PhD, FAHA; Christine E. Seidman, MD, FAHA, Vice Chair; on behalf of the American Heart Association

ABSTRACT: Cardiovascular disease remains the foremost cause of morbidity and mortality globally, affecting millions of individuals. Recent discoveries illuminate the substantial role of genetics in cardiovascular disease pathogenesis, encompassing both monogenic and polygenic mechanisms and identifying tangible targets for gene therapies. Innovative strategies have emerged to rectify pathogenic variants that cause monogenic disorders such as hypertrophic, dilated, and arrhythmogenic cardiomyopathies and hypercholesterolemia. These include delivery of exogenous genes to supplement insufficient protein levels caused by pathogenic variants or genome editing to correct, delete, or modify mutant sequences to restore protein function. However, effective delivery of gene therapy to specified cells presents formidable challenges. Viral vectors, notably adeno-associated viruses and nonviral vectors such as lipid and engineered nanoparticles, offer distinct advantages and limitations. Additional risks and obstacles remain, including treatment durability, tissue-specific targeting, vector-associated adverse events, and off-target effects. Addressing these challenges is an ongoing imperative; several clinical gene therapy trials are underway, and many more first-in-human studies are anticipated. This science advisory reviews core concepts of gene therapy, key obstacles, patient risks, and ongoing research endeavors to enable clinicians to understand the complex landscape of this emerging therapy and its remarkable therapeutic potential to benefit cardiovascular disease.

Key Words: AHA Scientific Statements ■ cardiovascular diseases ■ gene editing ■ gene silencing ■ gene transfer techniques ■ genetic therapy

Cardiovascular disease (CVD) affects 28.6 million Americans >20 years of age¹ with enormous annual US health care expenditures and a profound impact on patients and families. Existing treatments and interventions are costly, typically require lifelong administration, and mitigate but rarely cure disease. The identification of genetic causes for many CVD enables an alternative approach: gene therapy to precisely target the molecular driver of disease pathogenesis.

Monogenic disorders arise from rare pathogenic variants that alter the structure, function, or quantity of the gene-encoded protein. These variants usually cause prominent clinical manifestations, such as increased morbidity and mortality. Monogenic CVD results from PVs in 1 of 2 alleles, such as dilated, hypertrophic, and

arrhythmogenic cardiomyopathy, channelopathies, and aortopathies.²⁻⁵ Recessive monogenic CVD arises from PVs in both gene copies such as homozygous familial hypercholesterolemia. PVs that cause monogenic disorders are identified in ≈1.7% of patients undergoing cardiac catheterization; they contribute substantially to the overall burden of CVD.⁶ Clinical genetic testing is readily available that assesses for the presence of causal monogenic variants and enables early accurate diagnosis and interventions.⁷

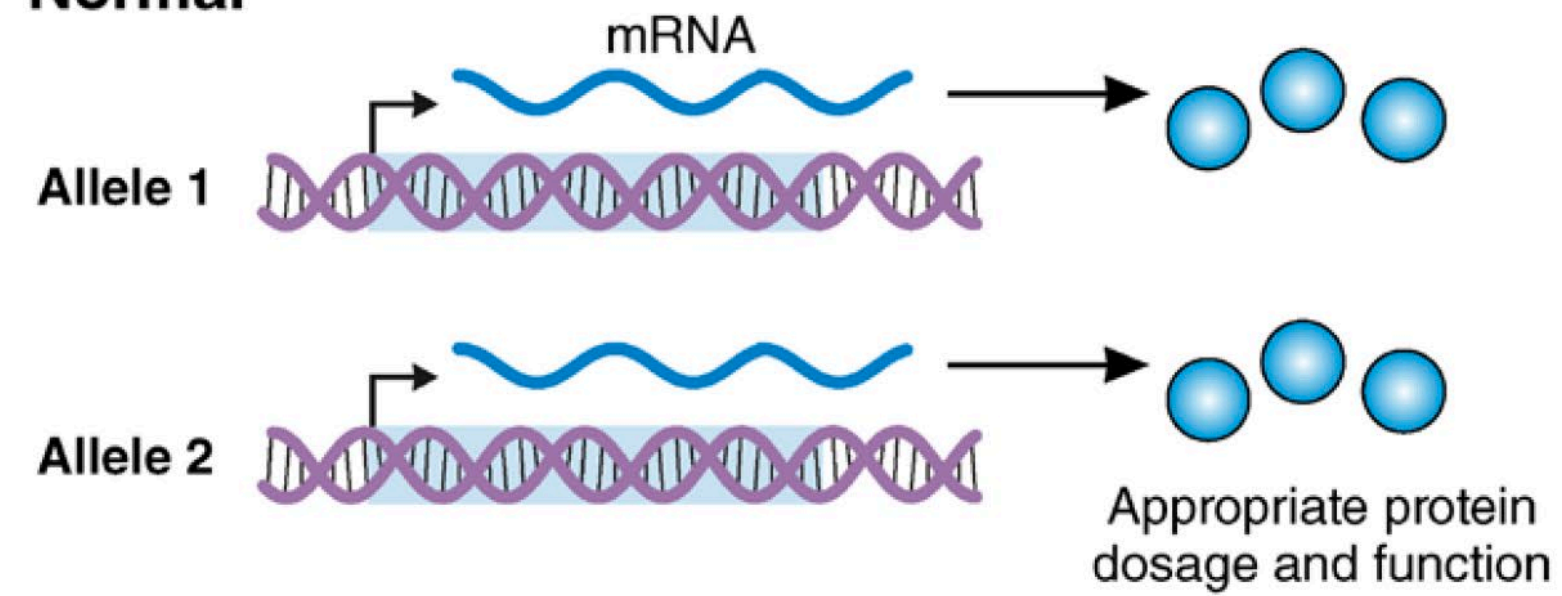
Polygenic disorders arise from multiple genetic variants that occur in healthy populations and individually convey small effects but collectively increase disease susceptibility. Most polygenic variants alter nonprotein coding, regulatory sequences that influence gene expression, and are associated with prevalent CVD,

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ournals.org/journal/circ

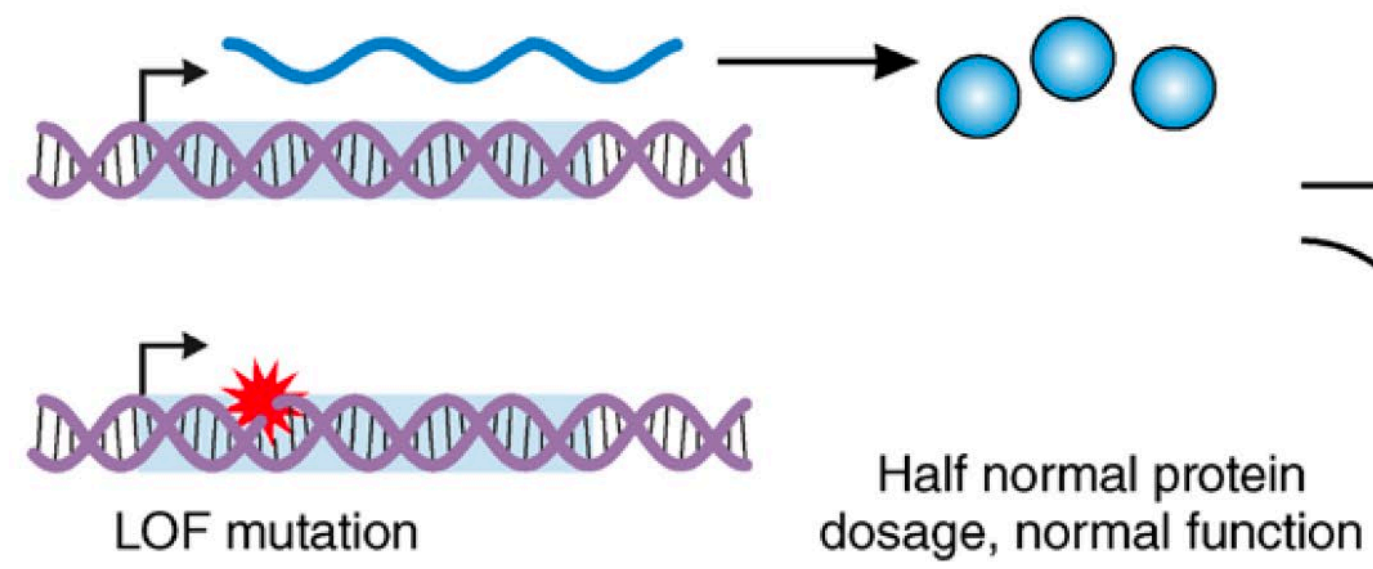


Mechanistic Approach to Gene Therapy

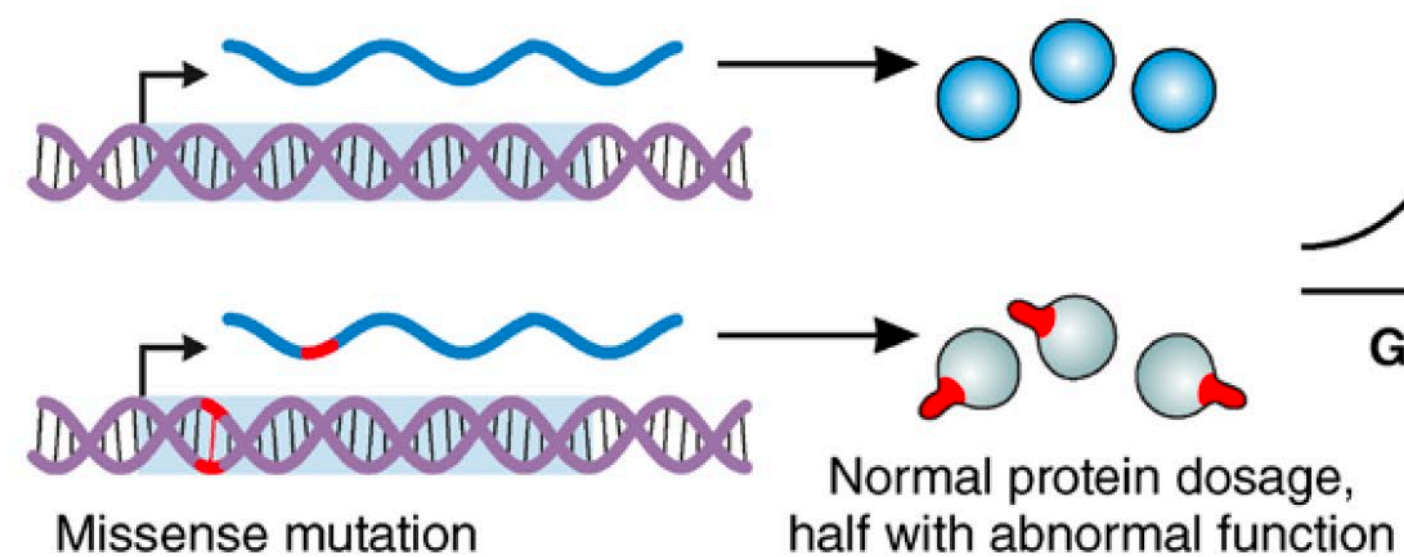
Normal



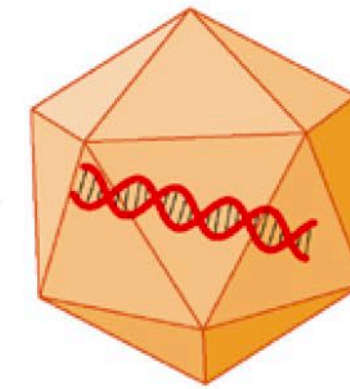
Haploinsufficiency



Dominant negative

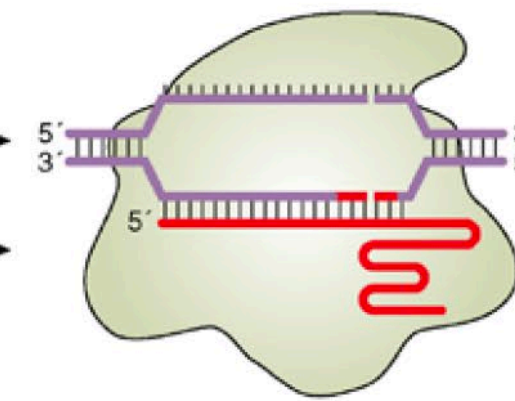


Exogenous gene delivery



Supplementation of functional protein level

Genome editing



Rescue of functional protein level

Gene silencing



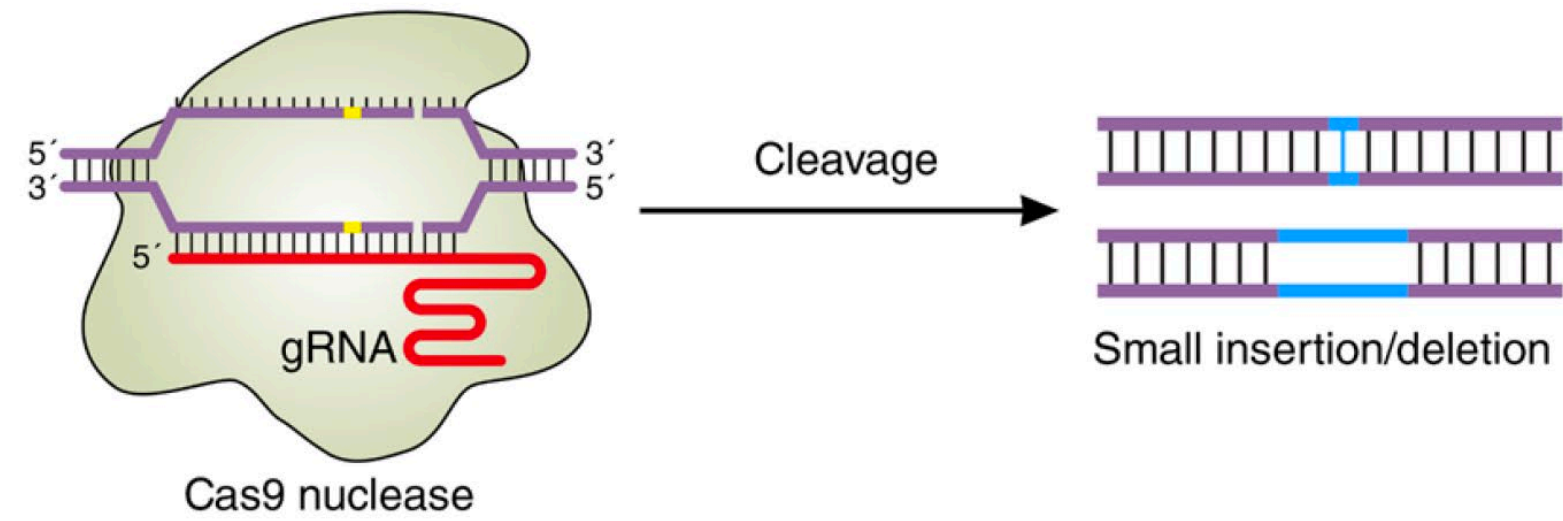
Decreased expression of abnormal protein

Decreased expression of abnormal protein



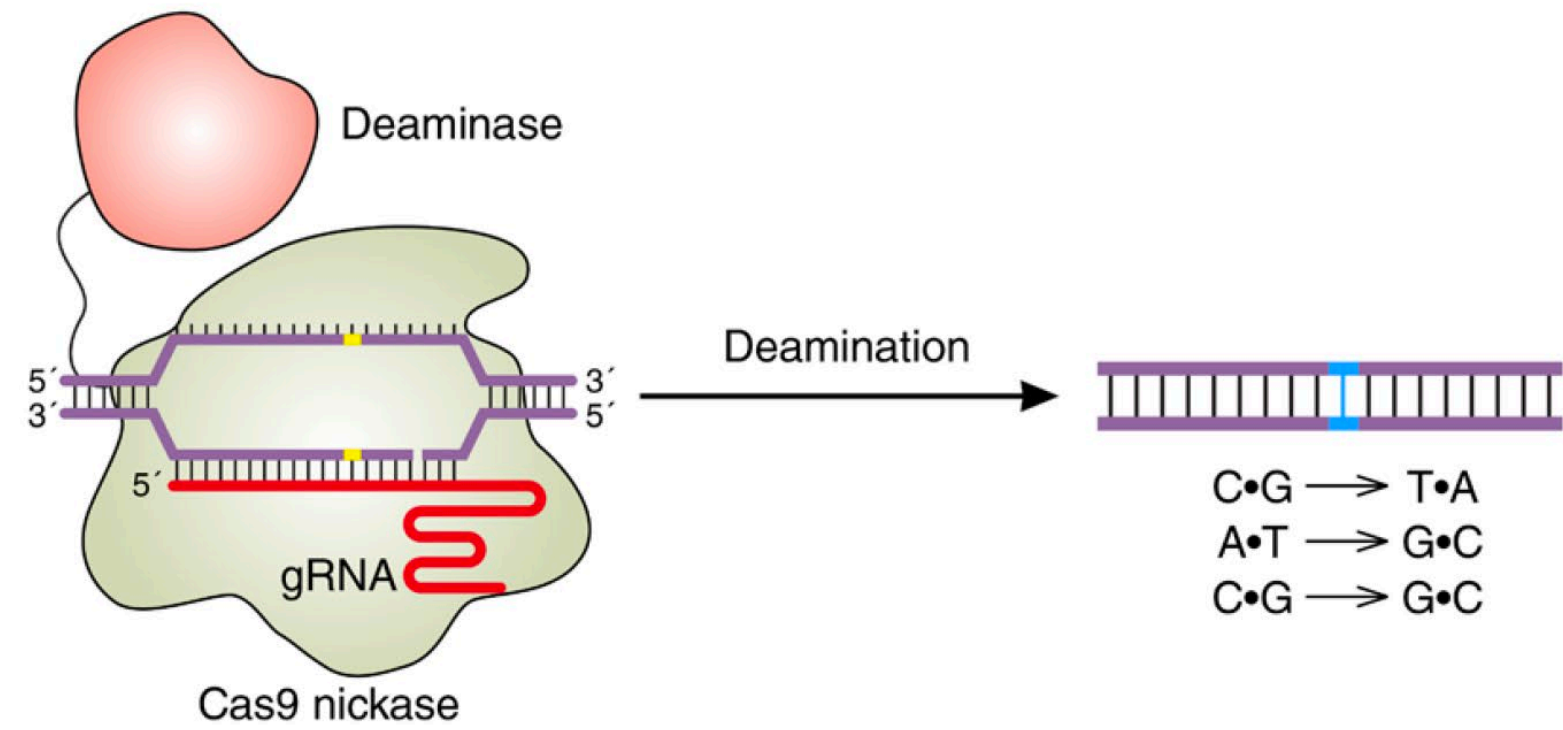
Gene Therapy by Genome Editing

Nuclease



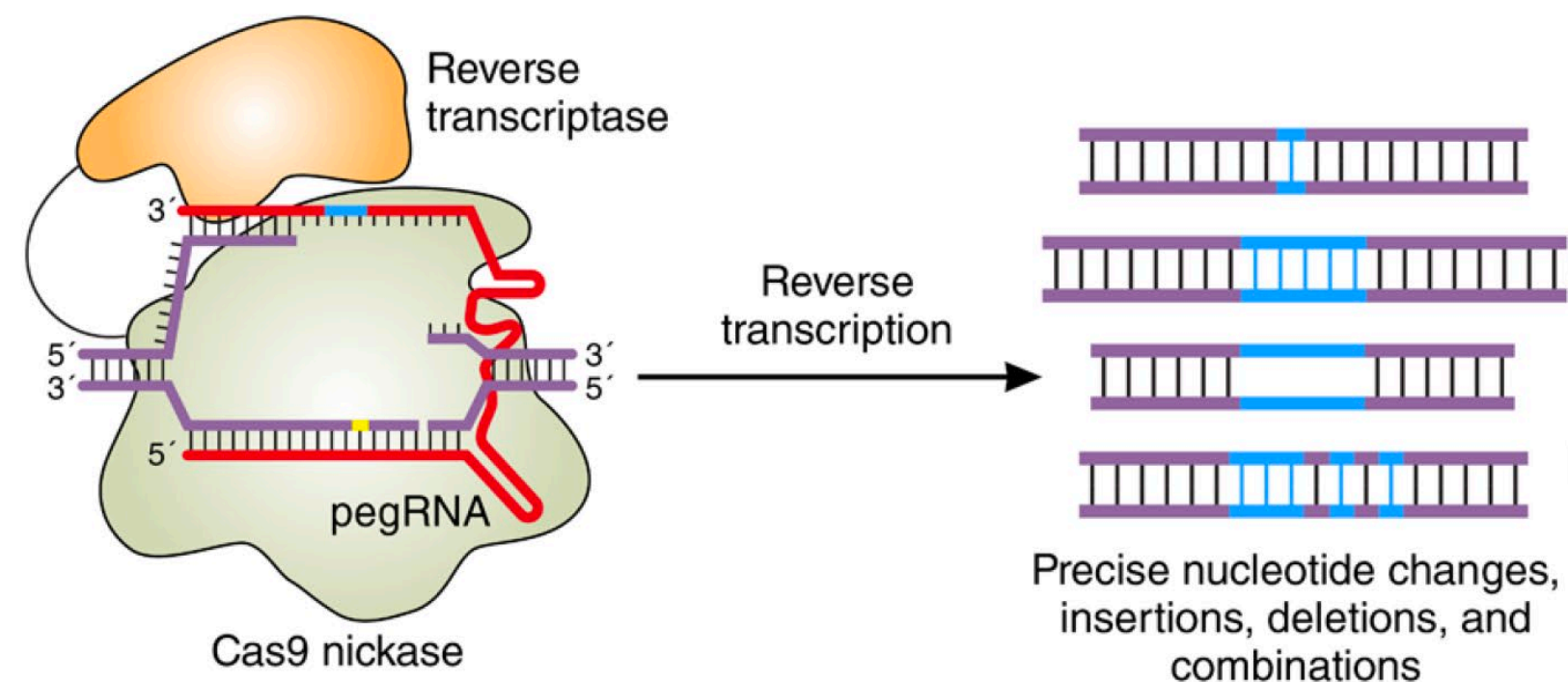
Nuclease cuts both DNA strands
Small insertion/deletion (KO allele)

Base editor



Nickase cuts one DNA strand
Deaminase converts nucleotide
(cytosine > thymine, adenine > guanine)

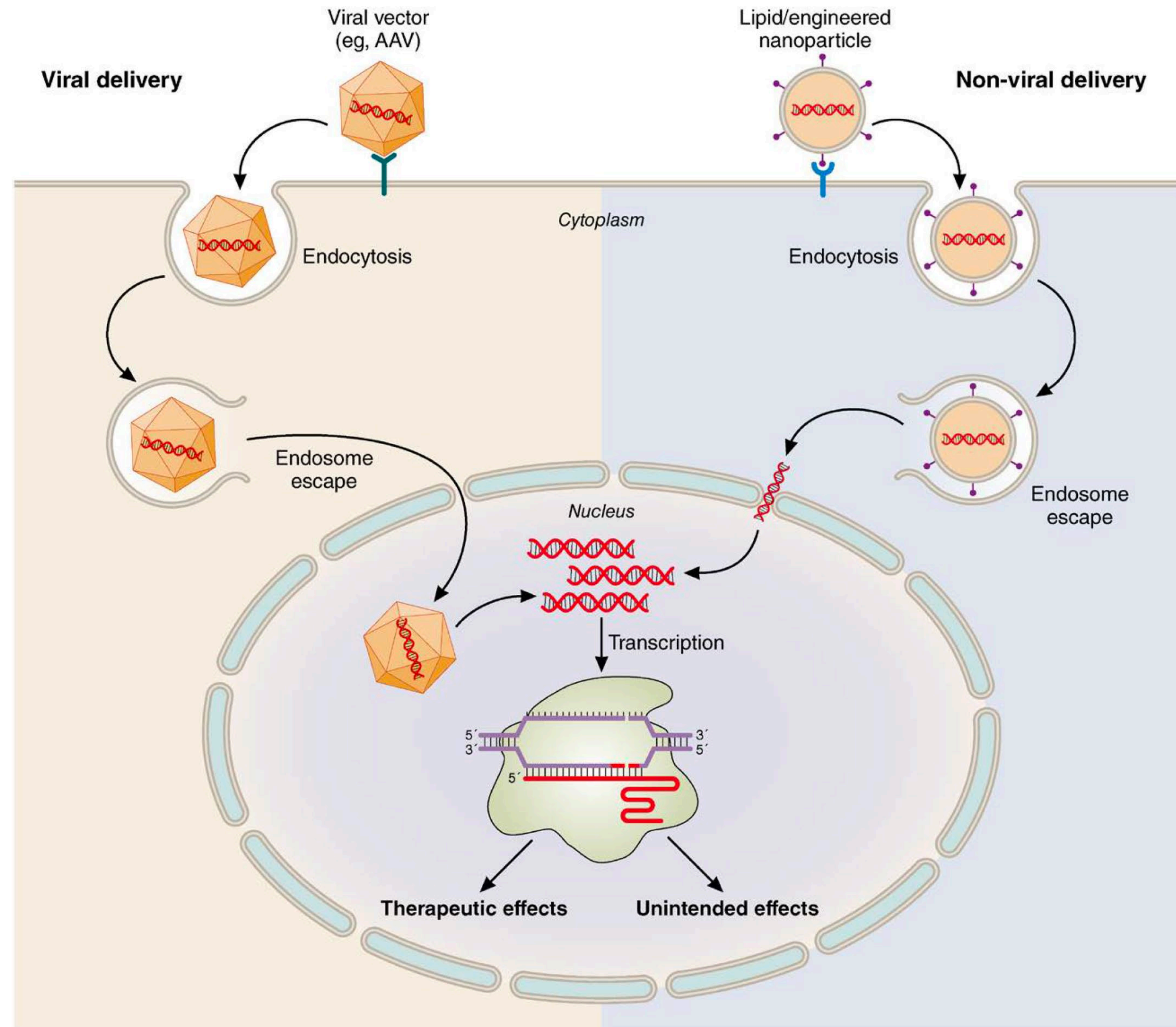
Prime editor



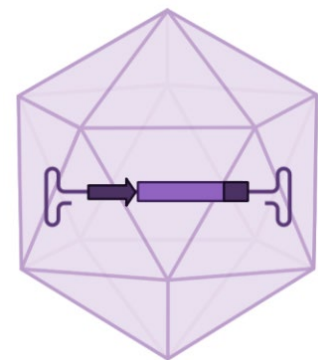
Prime editing gRNA introduce precise nucleotide changes



Delivery Methods for Gene Therapy



Major Themes for Cardiovascular Gene Therapy



Heritable cardiac disease

Defined genetic mechanism

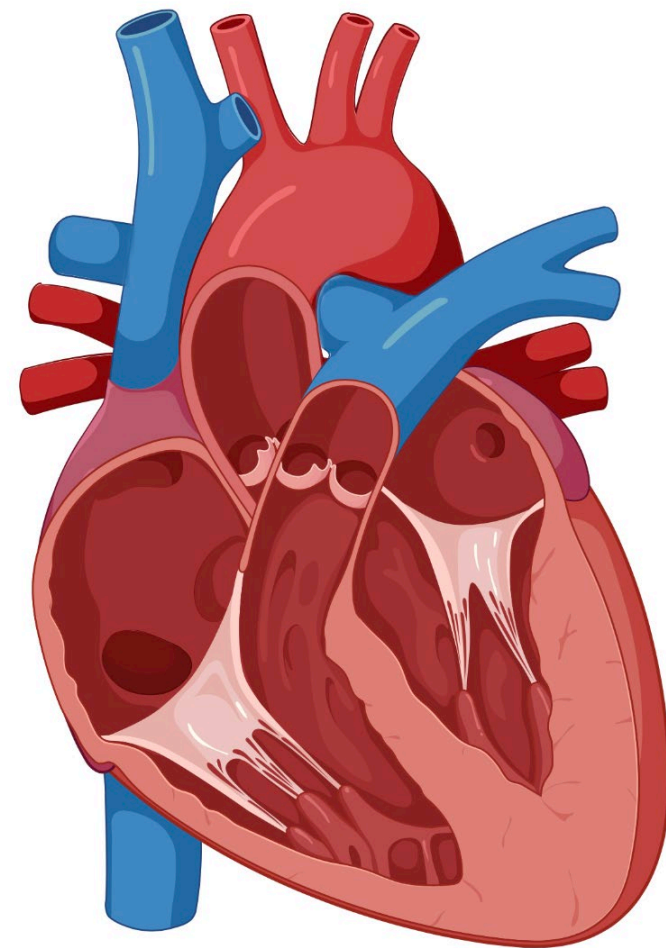
Gene replacement strategy

Adeno-Associated Virus (AAV) delivery

Early phase (1, 2)



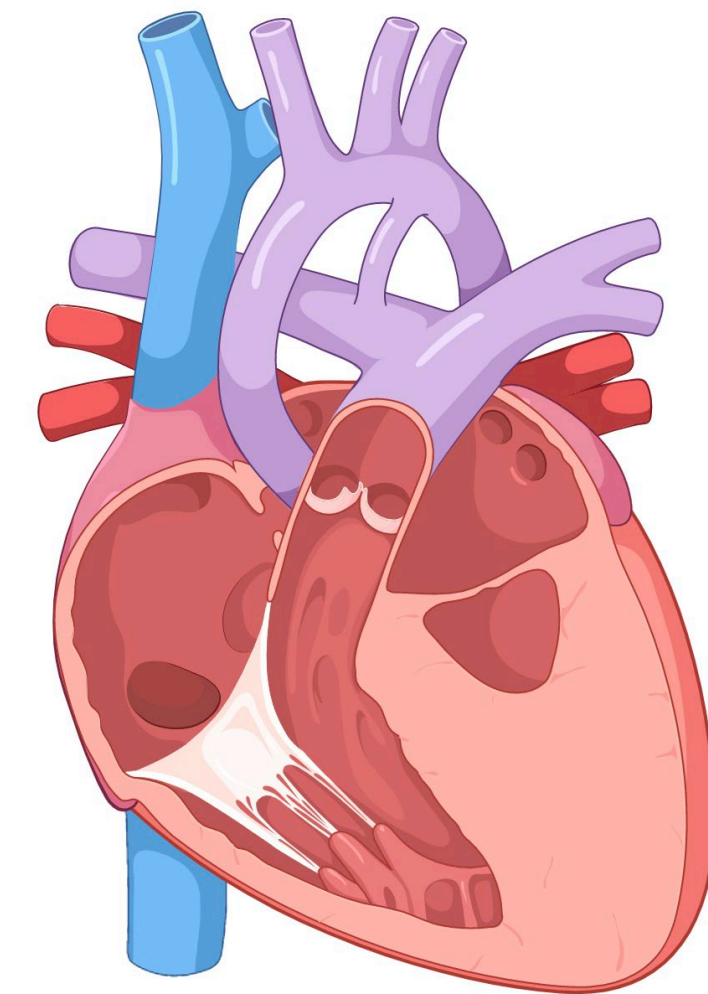
Heritable Cardiovascular Diseases



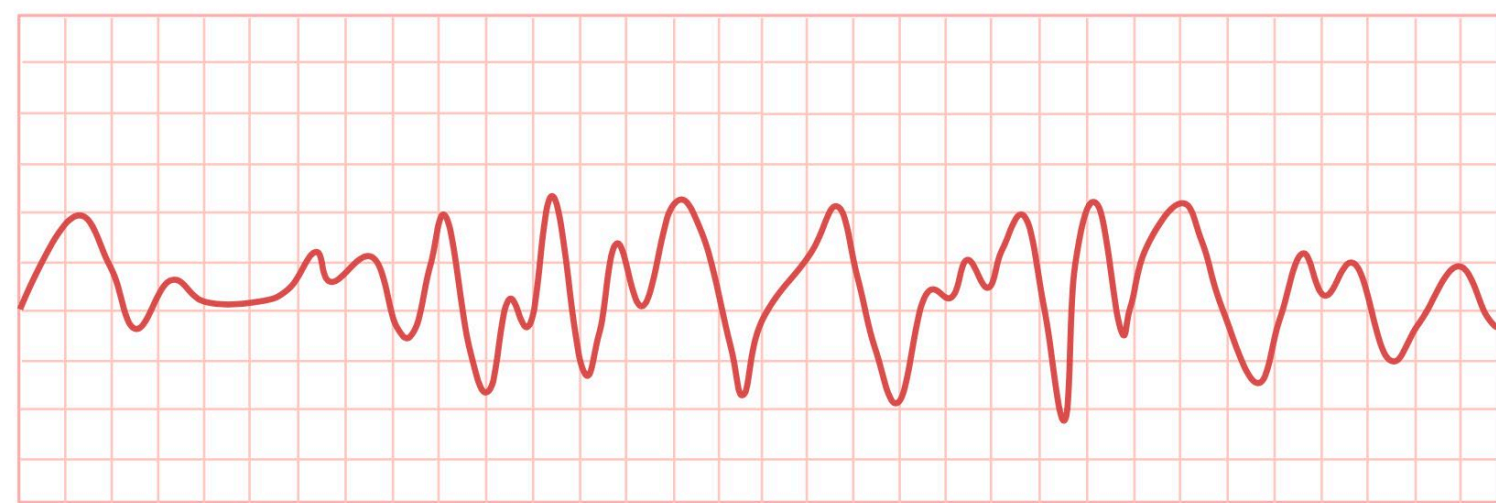
Cardiomyopathies



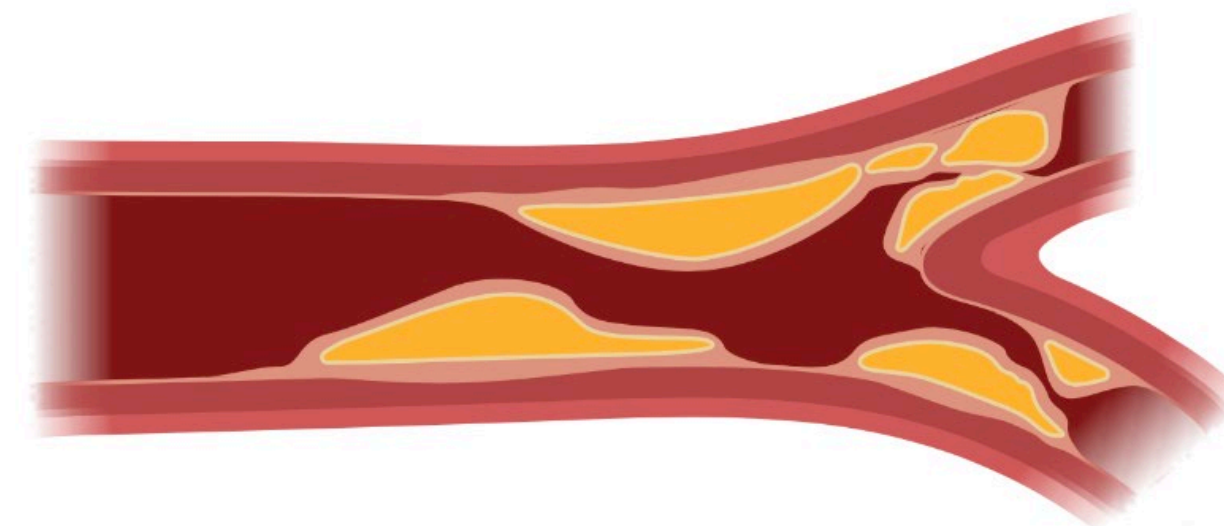
Aortopathies



Structural Heart Disease



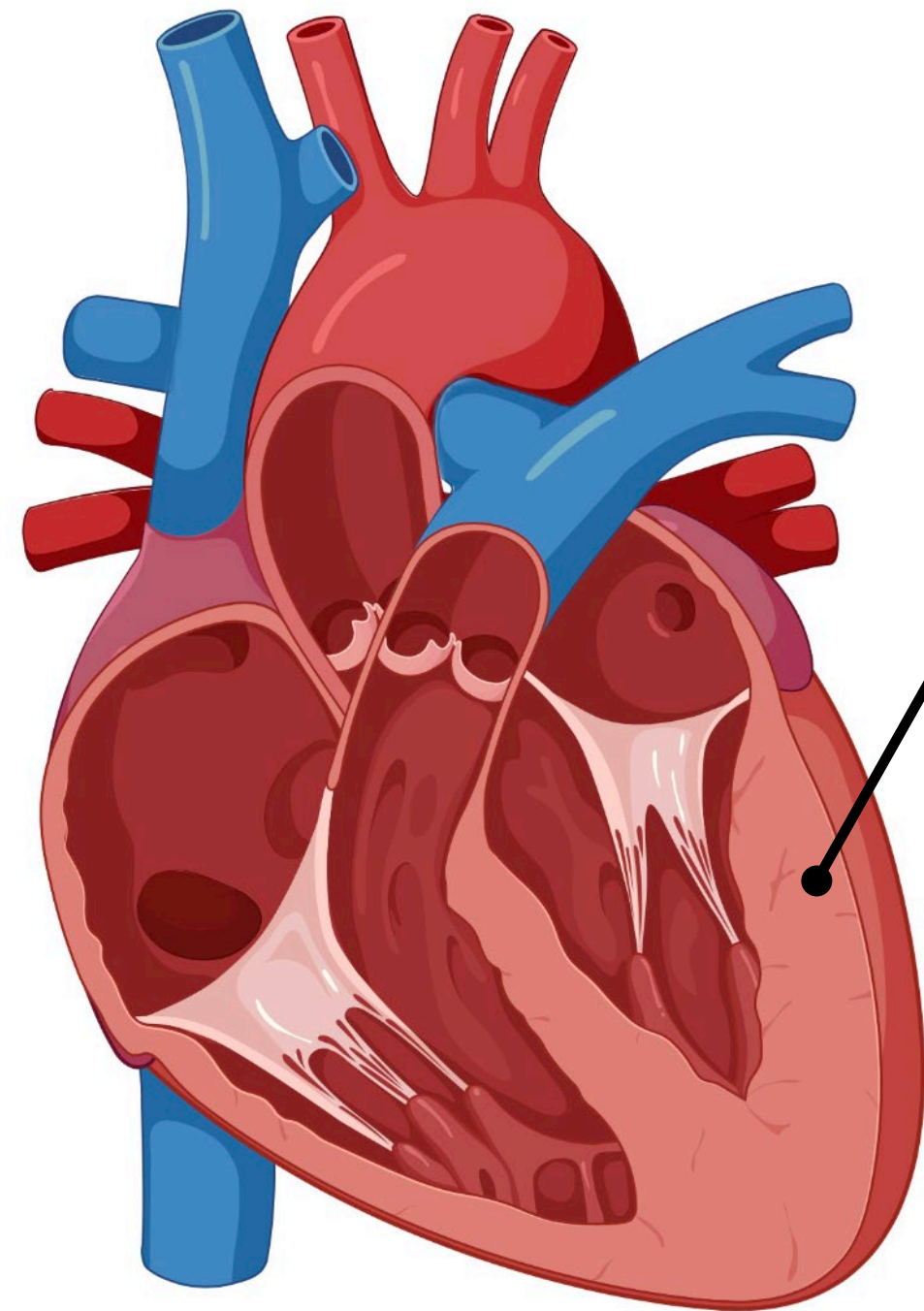
Cardiac Channelopathies



Familial Dyslipidemia



Cardiomyopathy Gene Therapy Trials



HCM

MyPEAK-1 MYBPC3 Gene Therapy Trial¹

Phase 1b Trial Currently Enrolling
>18 years old

RIDGE-1 PKP2 Gene Therapy Trial¹

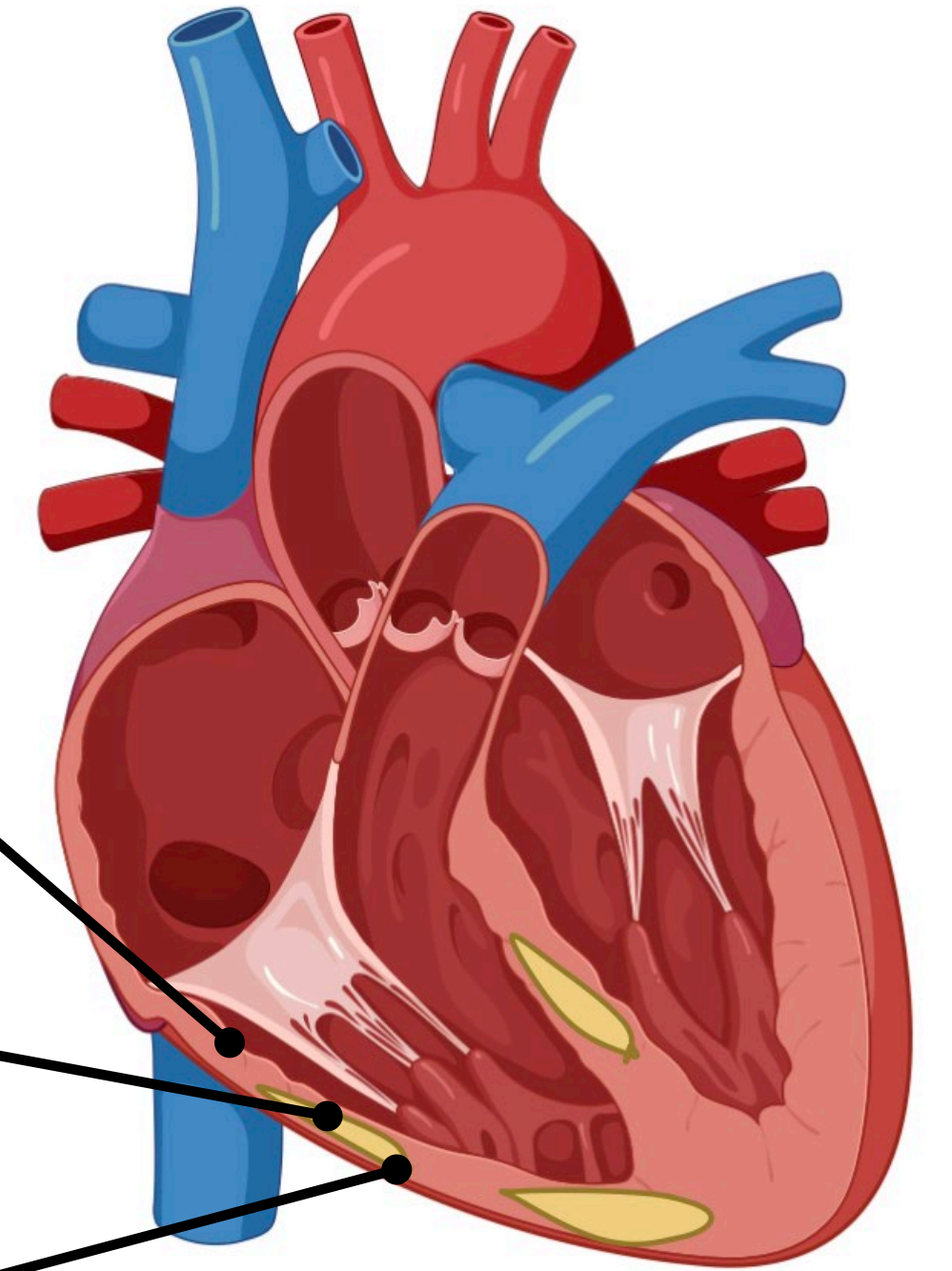
Phase 1b Trial Currently Enrolling
>18 years old

PKP2-mediated ACM²

Phase 1 Trial Currently Enrolling
>18 years old

HEROIC PKP2 Gene Therapy Trial³

Phase 1 Trial Currently Enrolling
>18 years old



ACM



¹Tenaya Therapeutics, ²Rocket Pharmaceuticals, ³Lexeo Therapeutics

LAMP2 Replacement for Danon Disease

RP-A501

AAV9.LAMP2B replacement therapy

Phase 1 demonstrated safety of a single infusion with durable expression of LAMP2 in the myocardium

Completed enrollment for Phase 2 Trial in Sept 2024

Phase 1 Study of AAV9.LAMP2B Gene Therapy in Danon Disease

B. Greenberg, M. Taylor, E. Adler, S. Colan, D. Ricks, P. Yarabe, P. Battiprolu, G. Shah, K. Patel, M. Coggins, S. Carou-Keenan, J.D. Schwartz, and J.W. Rossano

ABSTRACT

BACKGROUND

Danon disease is a rare, X-linked, monogenic cardiomyopathy caused by mutations in the lysosomal-associated membrane 2 gene (*LAMP2*), which encodes the LAMP2 protein. In male patients, the predominant phenotype is progressive cardiac hypertrophy, cardiac dysfunction, and early death. There are no directed therapies for the disease.

METHODS

In this phase 1 study, we evaluated the safety and efficacy of a single infusion of RP-A501, a recombinant adeno-associated virus serotype 9 containing the transgene *LAMP2B*, which encodes an isoform of LAMP2. The primary outcomes were the safety and toxic effects of RP-A501, myocardial LAMP2 transduction and protein expression, stabilization of or reduction in heart-failure symptoms, and stabilization of or improvement in cardiac structure and function. Key secondary outcomes were sustained reduction in or stabilization of symptoms, immunologic response to RP-A501, end-stage heart failure, and overall survival. Exploratory outcomes included improvement in serologic markers of cardiac disease, patient-reported outcomes, and quality-of-life assessments.

RESULTS

RP-A501 infusion was administered to seven male patients with Danon disease: five who were 15 years of age or older and two who were between 11 and 14 years of age. All the patients received a transient immunomodulatory regimen of prednisone, tacrolimus or sirolimus, and rituximab. Phase 1 data over 24 to 54 months, including interim data from a long-term follow-up study, are reported here. One patient had complement-mediated thrombotic microangiopathy (grade 4) with thrombocytopenia and acute kidney injury. Three patients had glucocorticoid-related exacerbation (grade 3) of Danon disease–related skeletal myopathy. One patient with left ventricular systolic dysfunction at baseline had progressive heart failure and underwent transplantation 5 months after infusion. In the six patients with normal left ventricular ejection fraction at baseline, we observed cardiac LAMP2 protein expression and a reduction from baseline in or stabilization of the left ventricular mass index, preservation of left ventricular ejection fraction, and reduction in or stabilization of the levels of cardiac troponin I and N-terminal pro-B-type natriuretic peptide. At 24 to 54 months, all the patients were alive, with complete resolution of side effects.

CONCLUSIONS

A single infusion of RP-A501 appeared to be safe and was associated with cardiac LAMP2 expression and evidence of clinical improvement over a period of 24 to 54 months. (Funded by Rocket Pharmaceuticals; ClinicalTrials.gov number, NCT03882437.)

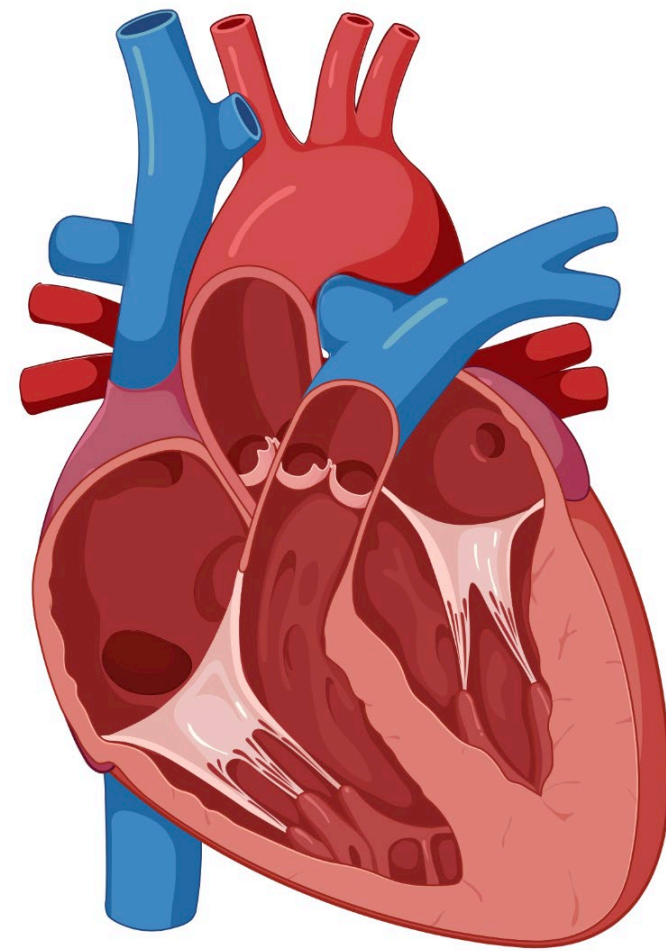
The authors' full names, academic degrees, and affiliations are listed in the Appendix. Dr. Greenberg can be contacted at bgreenberg@ucsd.edu or at the Department of Cardiology, University of California, San Diego, 9500 Gilman Dr., La Jolla, CA 92093.

This article was published on November 18, 2024, at [NEJM.org](https://www.nejm.org).

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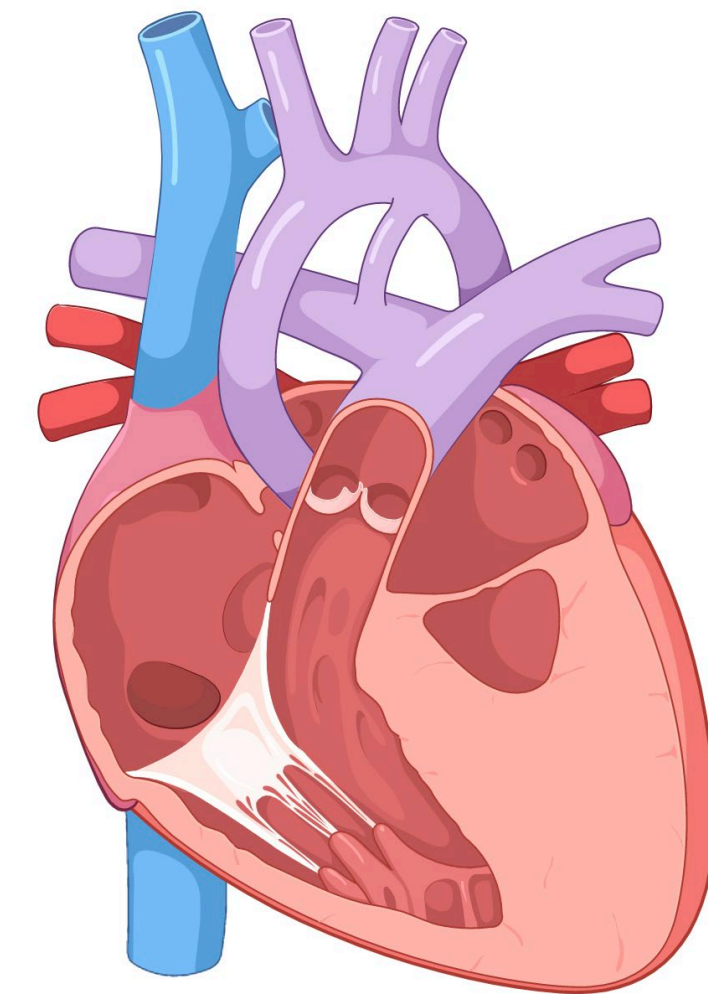
Heritable Cardiovascular Diseases



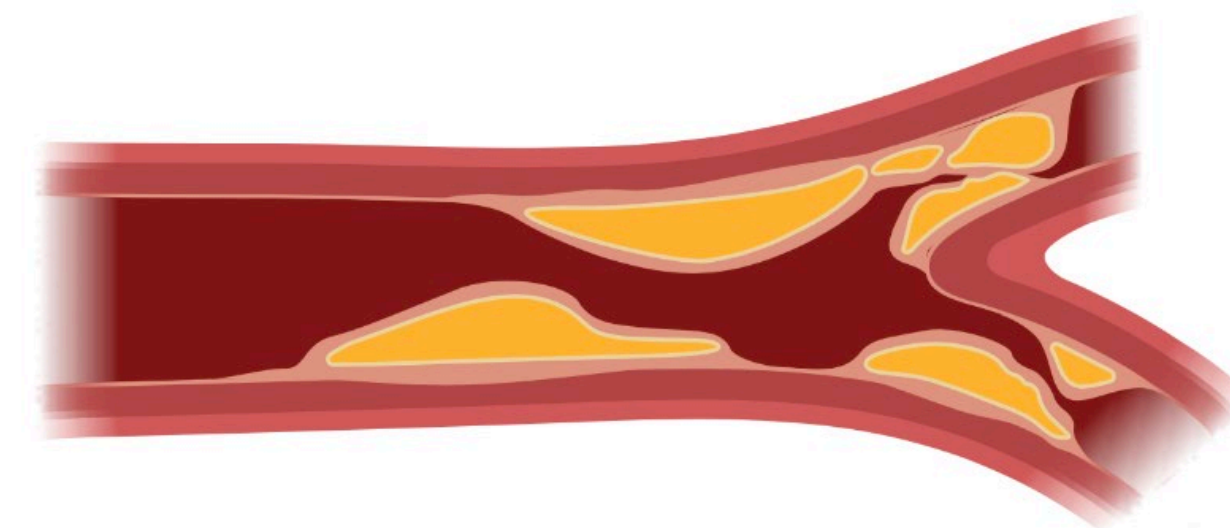
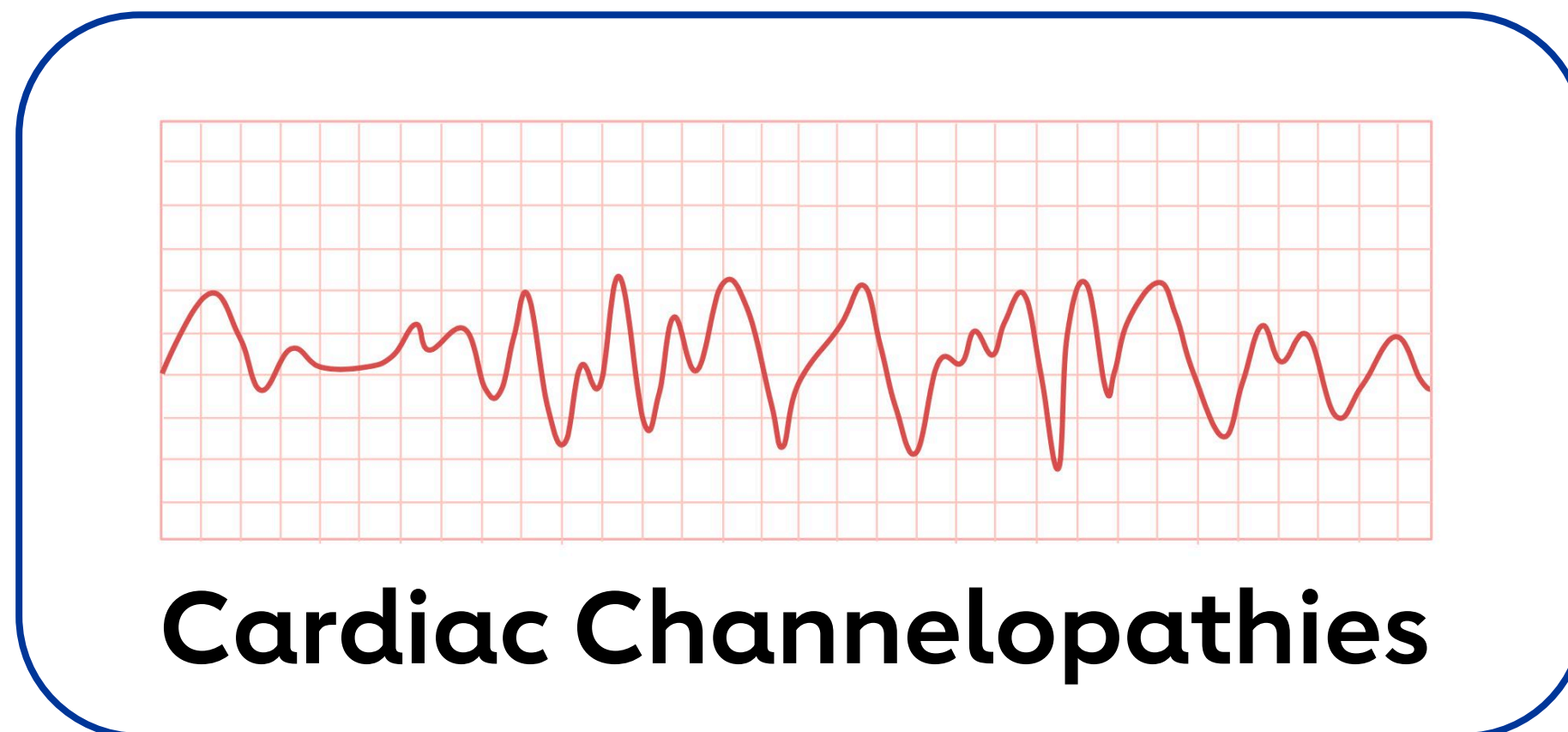
Cardiomyopathies



Aortopathies



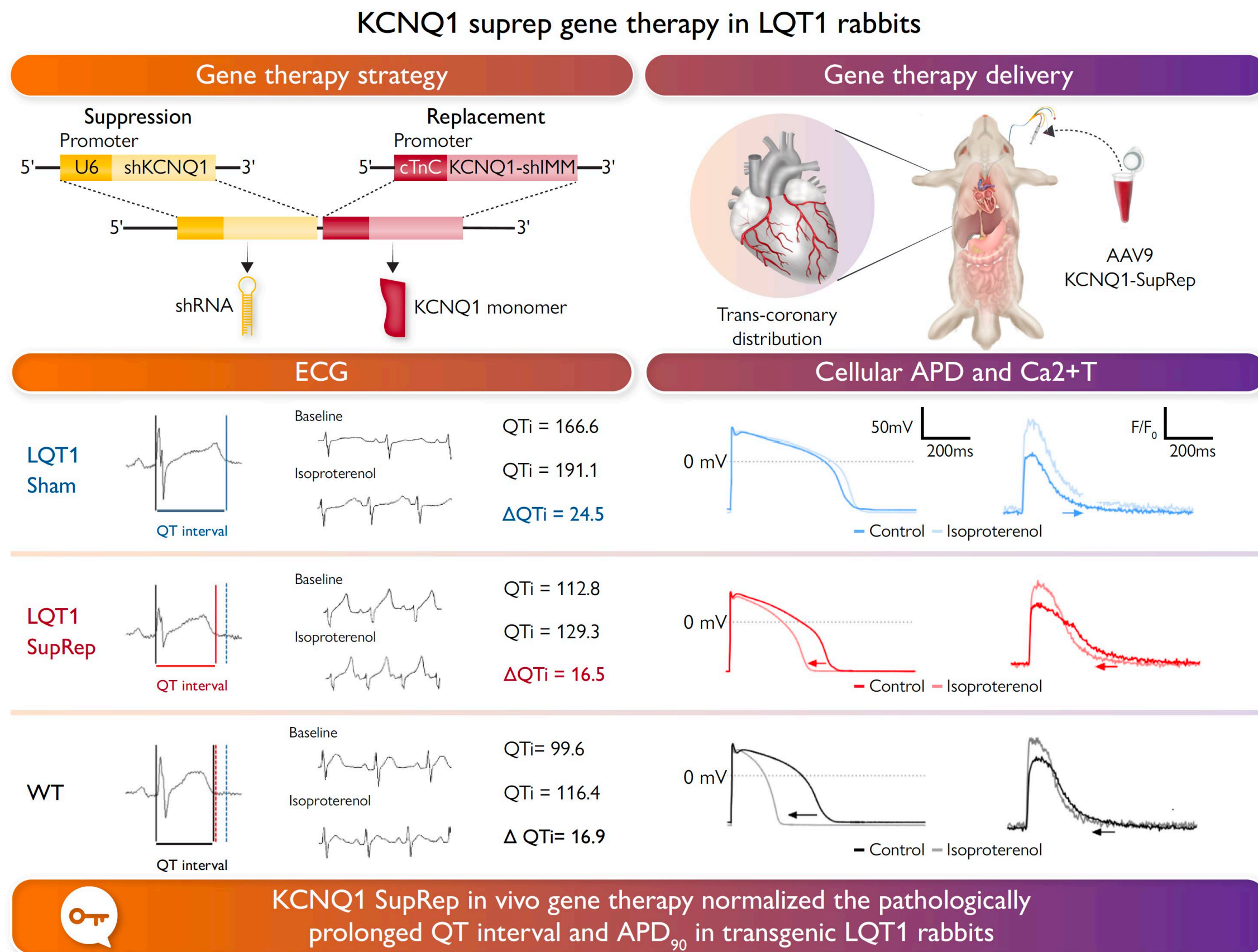
Structural Heart Disease



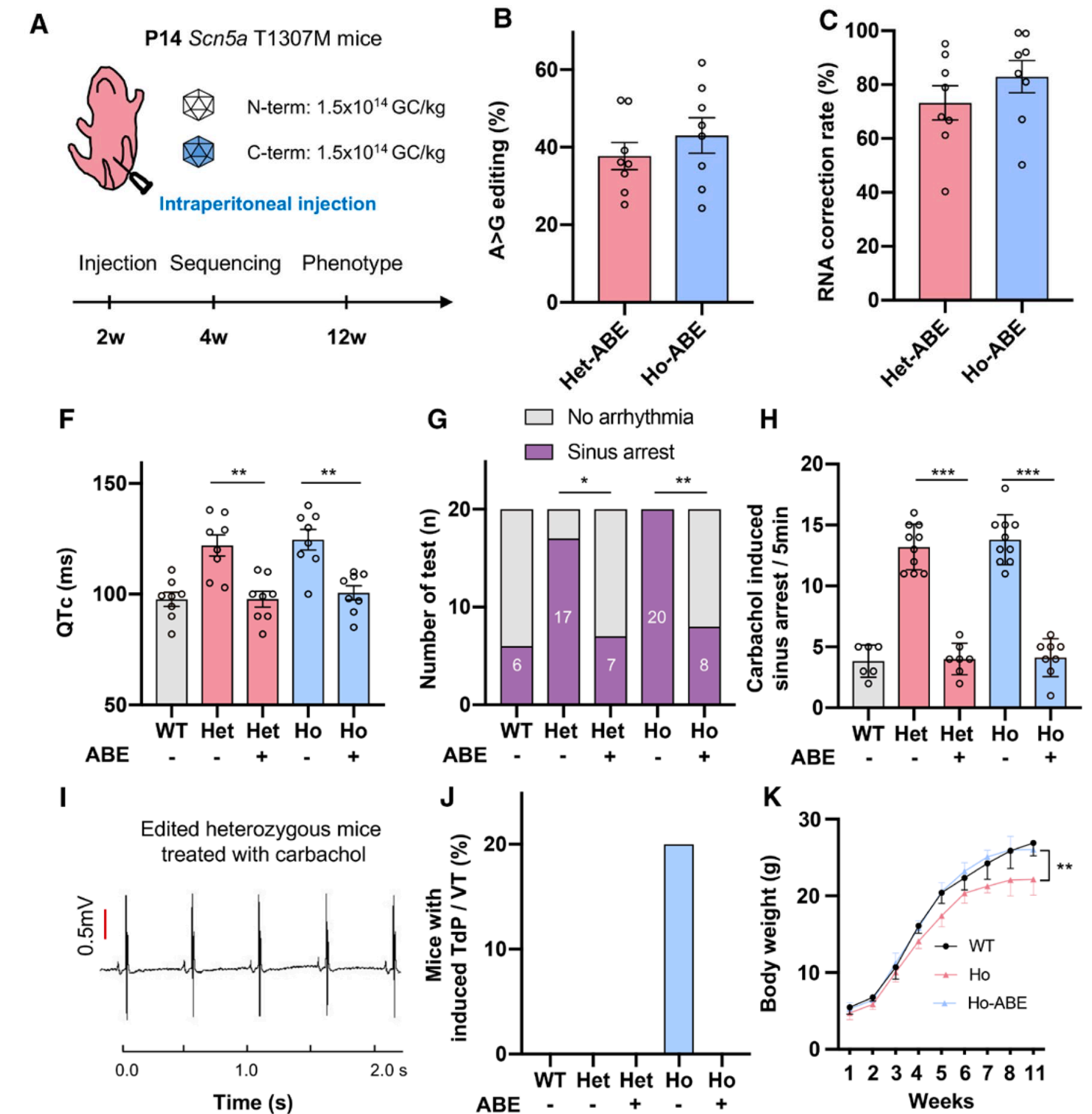
Familial Dyslipidemia



Emerging Therapies for Long QT Syndrome: Gene Therapy



“Suppression-Replacement” for LQTS 1



In Vivo Base-Editing for LQTS 3

Cardiovascular **Gene Therapy** Trials

24

TRIALS FOR CARDIAC DISEASE

12

METABOLIC DISEASES WITH CARDIOMYOPATHY
(E.G., POMPE, DANON, FABRY)

6

FAMILIAL HYPERCHOLESTEROLEMIA

6

GENETIC OR ACQUIRED CARDIOMYOPATHY

11

TRIALS FOR MUSCULAR DYSTROPHY*





CHALLENGES AND THE WAY FORWARD

Scientific Challenges

- Target specificity (tissue, cell-type, and DNA sequence)
- Improved delivery and expanded delivery mechanisms
- Minimizing the immune response
- Natural history studies
- Voice of patients and families

Implementation Challenges

- Cost
- Precise knowledge of the genetic basis of disease
- Equity in trials and access in the marketplace



National Heart, Lung,
and Blood Institute

R01-HL149870
R01-EB032726
R01-HL160654
R01-HL166217



CENTERS FOR DISEASE
CONTROL AND PREVENTION

5NU50-DD000054



CSDA-2020098



Leducq
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ADDITIONAL
VENTURES



Duke Precision Genomics Collaboratory

THE HARTWELL FOUNDATION

Y.T. and Alice Chen Pediatric Genetics
and Genomics Research Center



Terralyn Schmidt
MS, CGC



Leigh Pedersen
BSN, RN



Brandi Umstead

Andrew Landstrom, MD, PhD
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Amyloidosis 101 & ATTR-CM Therapeutics

Joshua Hare, MD, FACC, FAHA

*Louis Lemberg Professor of Medicine/Director,
Interdisciplinary Stem Cell Institute*

University of Miami Miller School of Medicine



CARDIAC AMYLOIDOSIS

Devastating cause of restrictive cardiomyopathy

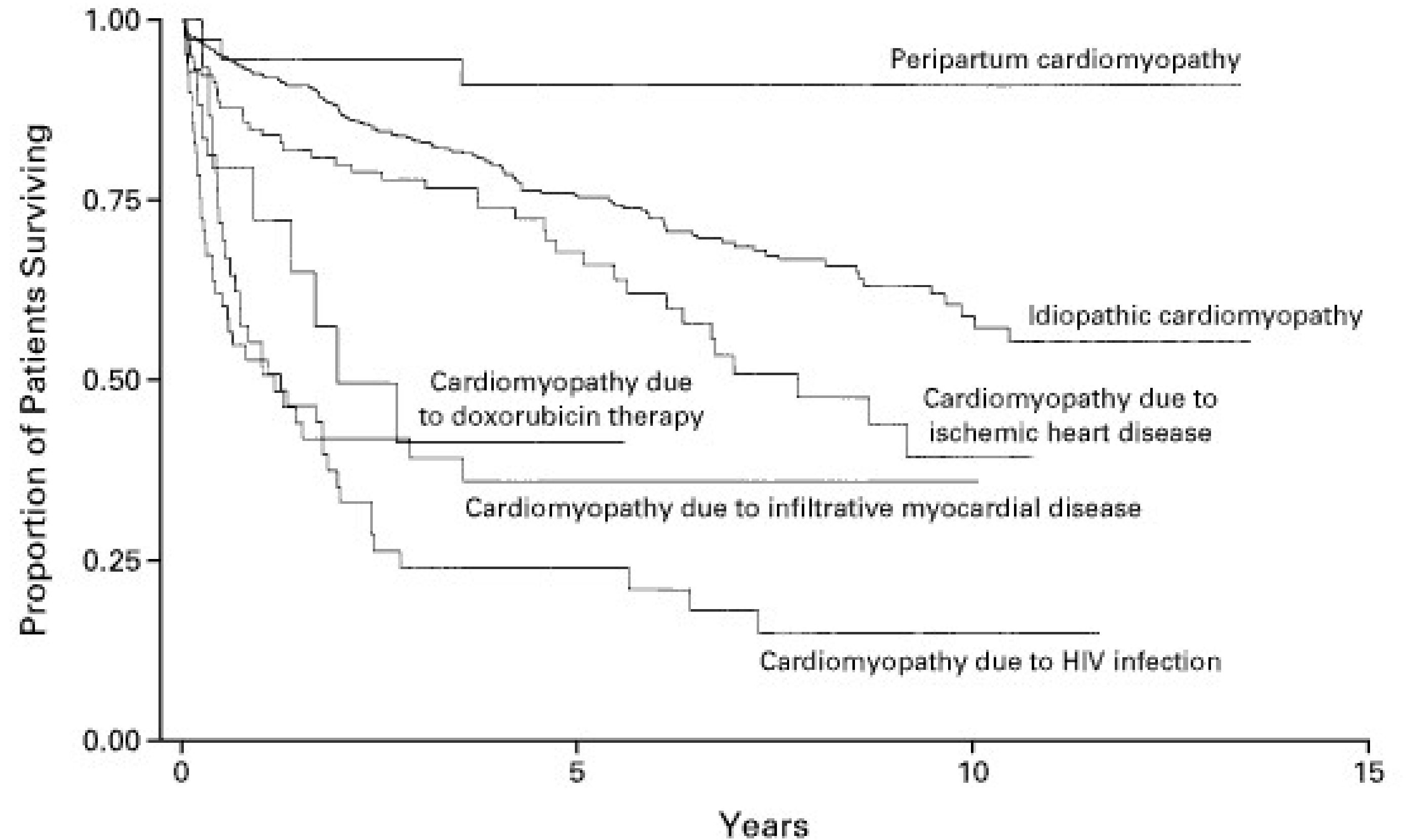
- Heart failure
- Conduction system disease
- Atrial fibrillation

Peripheral neuropathy

- Small fiber peripheral
- Autonomic polyneuropathy

Amyloid deposition

- Transthyretin
- Light chains



ATTR AMYLOID

TRANSTHYRETIN

Liver synthesized tetramer. Misfolding leads to tissue deposition of amyloid fibrils in heart and peripheral nerves

CARDIAC AMYLOIDOSIS

Restrictive cardiomyopathy with high morbidity and mortality

PREVALENCE

50 to 150,000 people

TREATMENT STRATEGIES:

- Inhibit hepatic TTR synthesis
- Stabilize tetramer
- Disrupt amyloid fibrils



ATTR

CLINICAL MANIFESTATIONS

Cardiomyopathy

- Heart failure
- Arrhythmia
- Death

Polyneuropathy

- Small fiber
- Autonomic

Ligament deposition

- Carpal Tunnel Syndrome

Table 2. Primary Clinical Manifestations of ATTR Amyloidosis^a

Organ system	Clinical manifestation
Cardiovascular	<ul style="list-style-type: none">• Atrioventricular block• Congestive heart failure• Arrhythmia (atrial fibrillation/flutter, ventricular tachycardia)
Nervous	<ul style="list-style-type: none">• Peripheral neuropathy (weakness/numbness in hands and feet)• Autonomic neuropathy (orthostatic hypotension, erectile dysfunction, sweating abnormalities)
Gastrointestinal	Dysmotility (diarrhea, constipation, nausea/vomiting, early satiety)
Musculoskeletal	<ul style="list-style-type: none">• Spinal stenosis• Carpal tunnel syndrome• Ligamentous rupture
Kidney	Acute and chronic kidney disease (cardiorenal syndrome, hemodynamically mediated kidney impairment)

^a Information for this table was adapted from Kittleson et al.⁶

Drug Therapy for ATTR Amyloid

Small molecules that act to stabilize TTR protein in the circulation

TAFAMIDIS

- First tested for familial amyloid polyneuropathy
- Approved in the US for ATTR

ACORAMIDIS

- Approved for cardiac ATTR in 2024



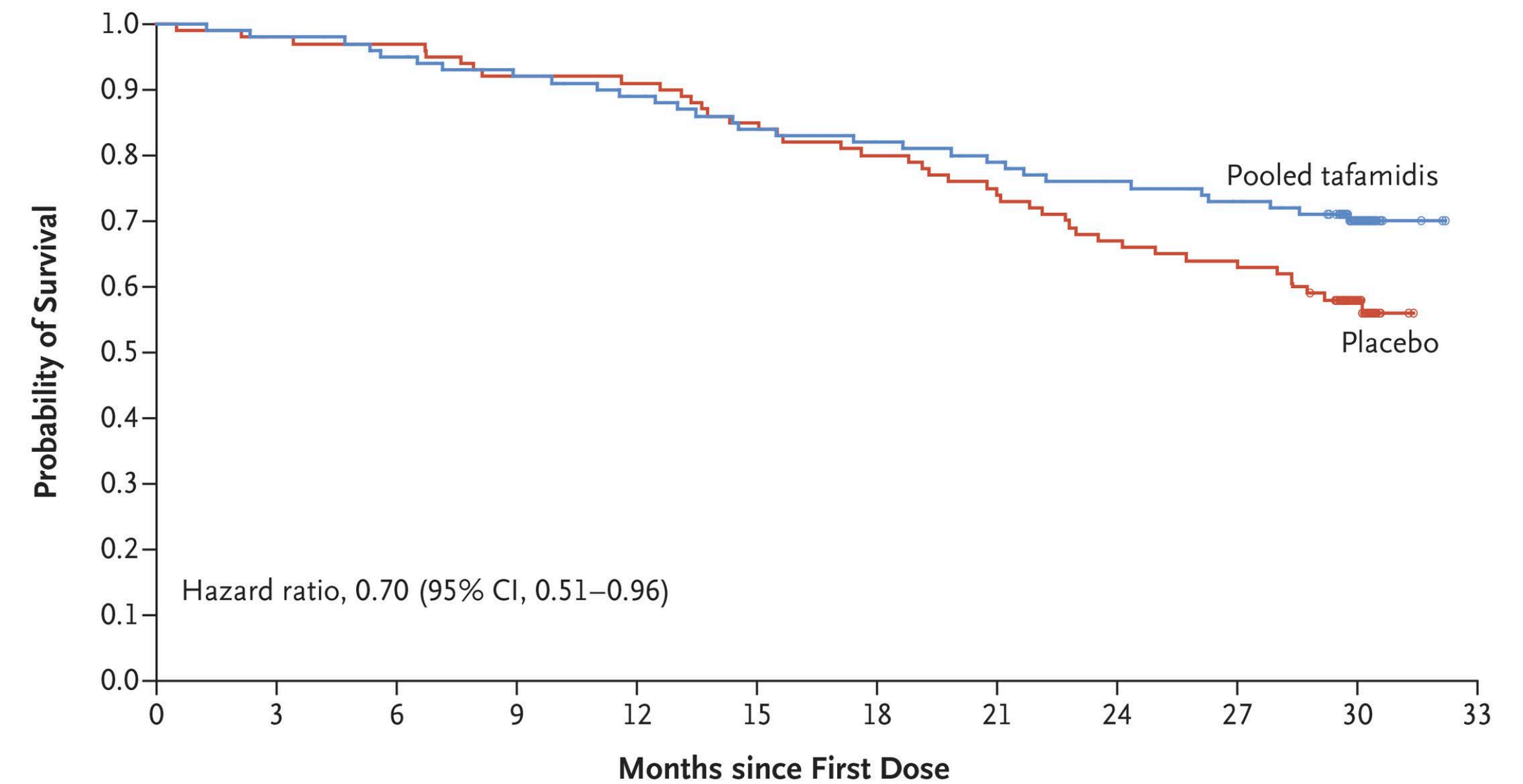
Pharmacologic Therapy:

Impact on mortality and cardiovascular hospitalization

A Primary Analysis, with Finkelstein–Schoenfeld Method

	No. of Patients	P Value from Finkelstein–Schoenfeld Method	Win Ratio (95% CI)	Patients Alive at Mo 30 <i>no. (%)</i>	Average Cardiovascular-Related Hospitalizations during 30 Mo among Those Alive at Mo 30 <i>per patient per yr</i>
Pooled Tafamidis	264	<0.001	1.70 (1.26–2.29)	186 (70.5)	0.30
Placebo	177			101 (57.1)	0.46

B Analysis of All-Cause Mortality



No. at Risk (cumulative no. of events)

Pooled tafamidis	264 (0)	259 (5)	252 (12)	244 (20)	235 (29)	222 (42)	216 (48)	209 (55)	200 (64)	193 (71)	99 (78)	0 (78)
Placebo	177 (0)	173 (4)	171 (6)	163 (14)	161 (16)	150 (27)	141 (36)	131 (46)	118 (59)	113 (64)	51 (75)	0 (76)

C Frequency of Cardiovascular-Related Hospitalizations

	No. of Patients	No. of Patients with Cardiovascular- Related Hospitalizations <i>total no. (%)</i>	Cardiovascular- Related Hospitalizations <i>no. per yr</i>	Pooled Tafamidis vs. Placebo Treatment Difference <i>relative risk ratio (95% CI)</i>
Pooled Tafamidis	264	138 (52.3)	0.48	0.68 (0.56–0.81)
Placebo	177	107 (60.5)	0.70	

From: **Cardiac Amyloidosis Due to Transthyretin Protein: A Review**

JAMA. 2024;331(9):778-791. doi:10.1001/jama.2024.0442

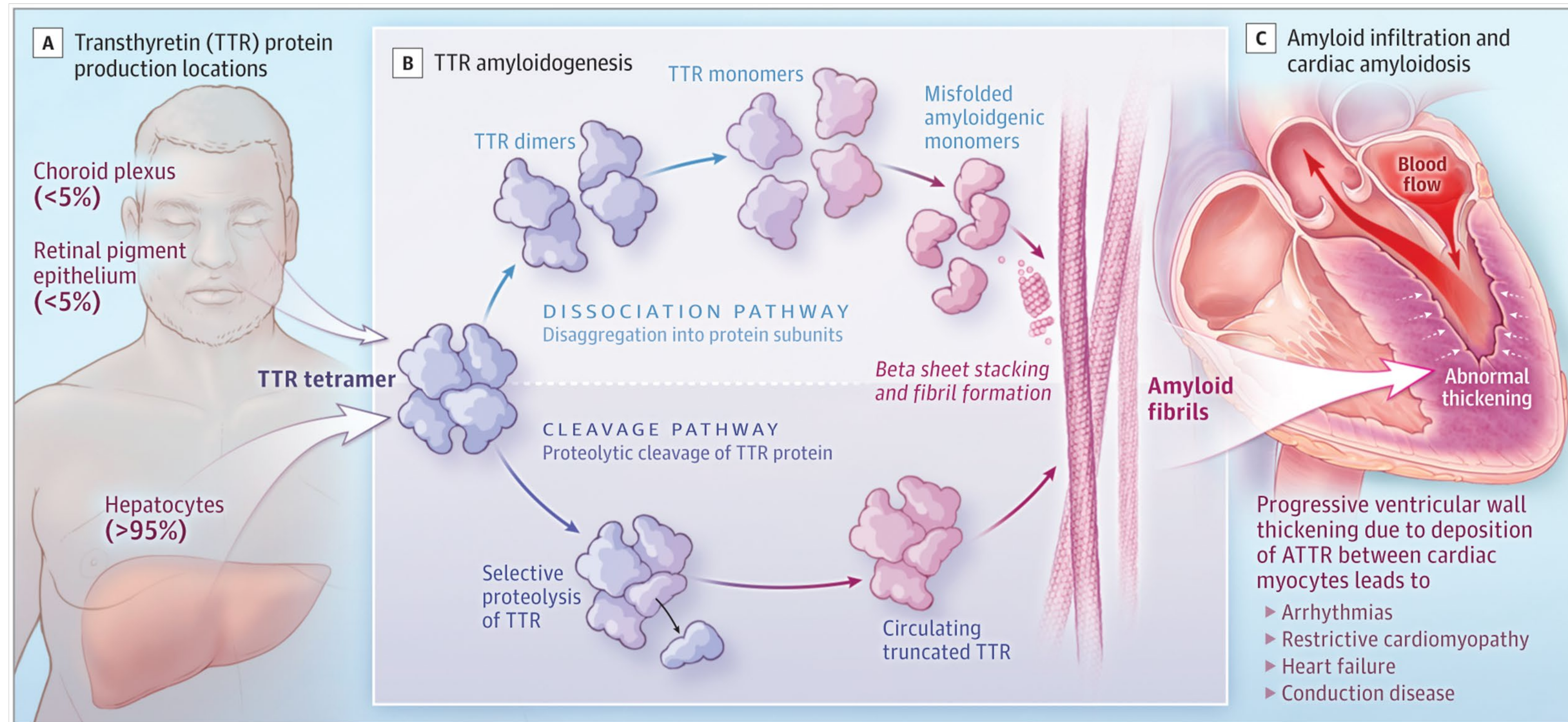


Figure Legend:

Pathobiology of ATTR Amyloidosis and Cardiac Manifestations Circulating TTR protein is synthesized by the liver as a homotetramer that dissociates or is proteolytically cleaved into intermediates that misfold and ultimately organize into amyloid fibrils. Amyloid fibrils then deposit in the heart, resulting in arrhythmia, conduction disease often requiring placement, and heart failure.



Gene Therapy Strategies For ATTR Cardiomyopathy

Antisense oligonucleotides (ASO)

- Single strand oligonucleotide
- Usually 16-20 nucleotides in length
- Bind to complementary mRNA and cause degradation
- ASO's can enter the cell without a transfection agent

Small Interfering RNAs (SiRNAs)

- Double strand RNA molecules
- Bind complementary RNA and cause degradation
- Must enter cytoplasm of target cells

CRISPR-Cas9 – in vivo Genome Editing



Gene Therapy Examples

ATTR Cardiomyopathy

Patisiran

- siRNA
- Approved for polyneuropathy

Vutrisiran

- RNA interference;
- Approved 2025 for cardiac ATTR

Inotersen

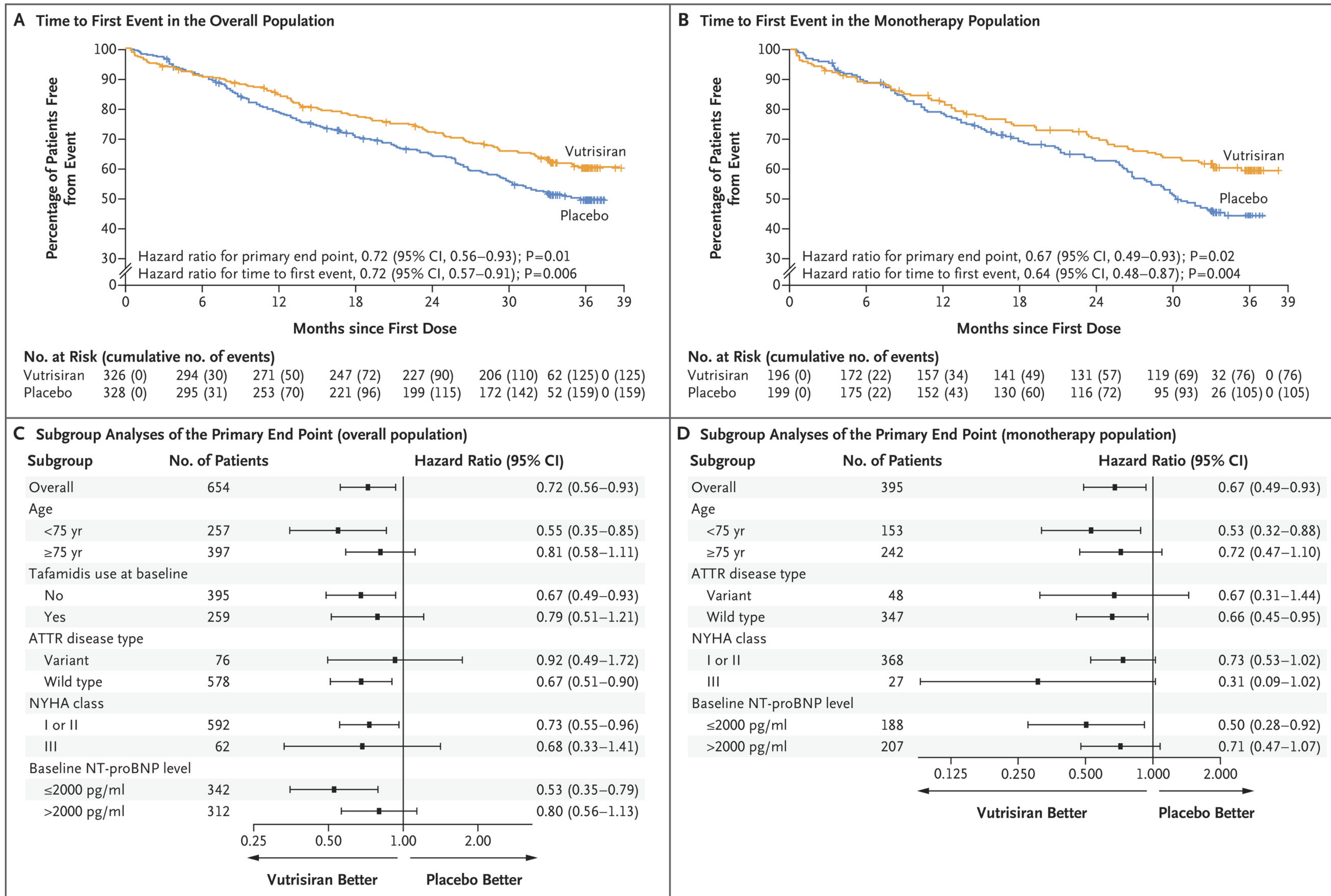
- Antisense oligonucleotide

Nexiguran ziclumeran

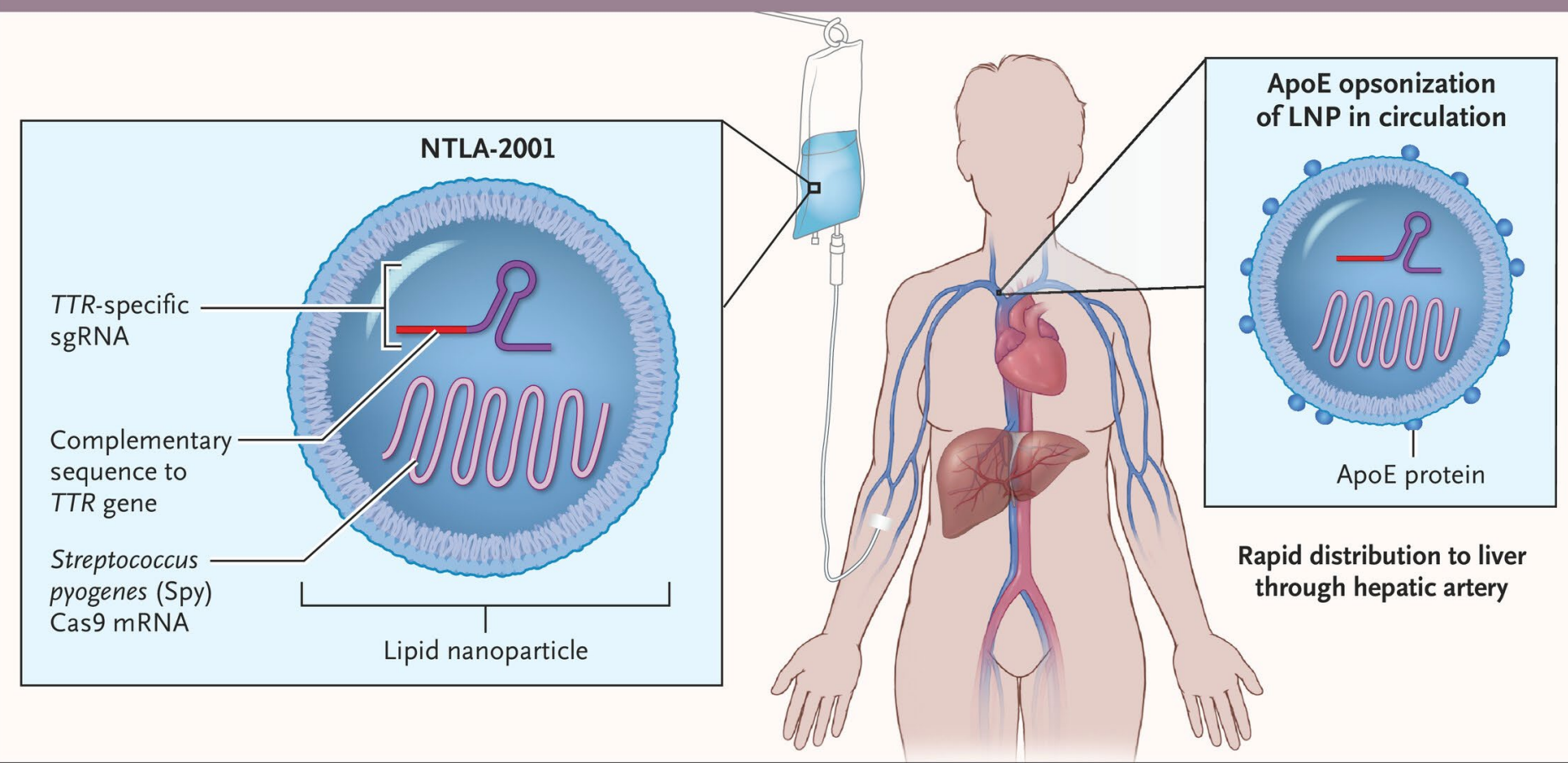
- CRISPR-Cas9
- Lipid nanoparticle mediated delivery system
- Produces a dose-dependent TTR knockdown



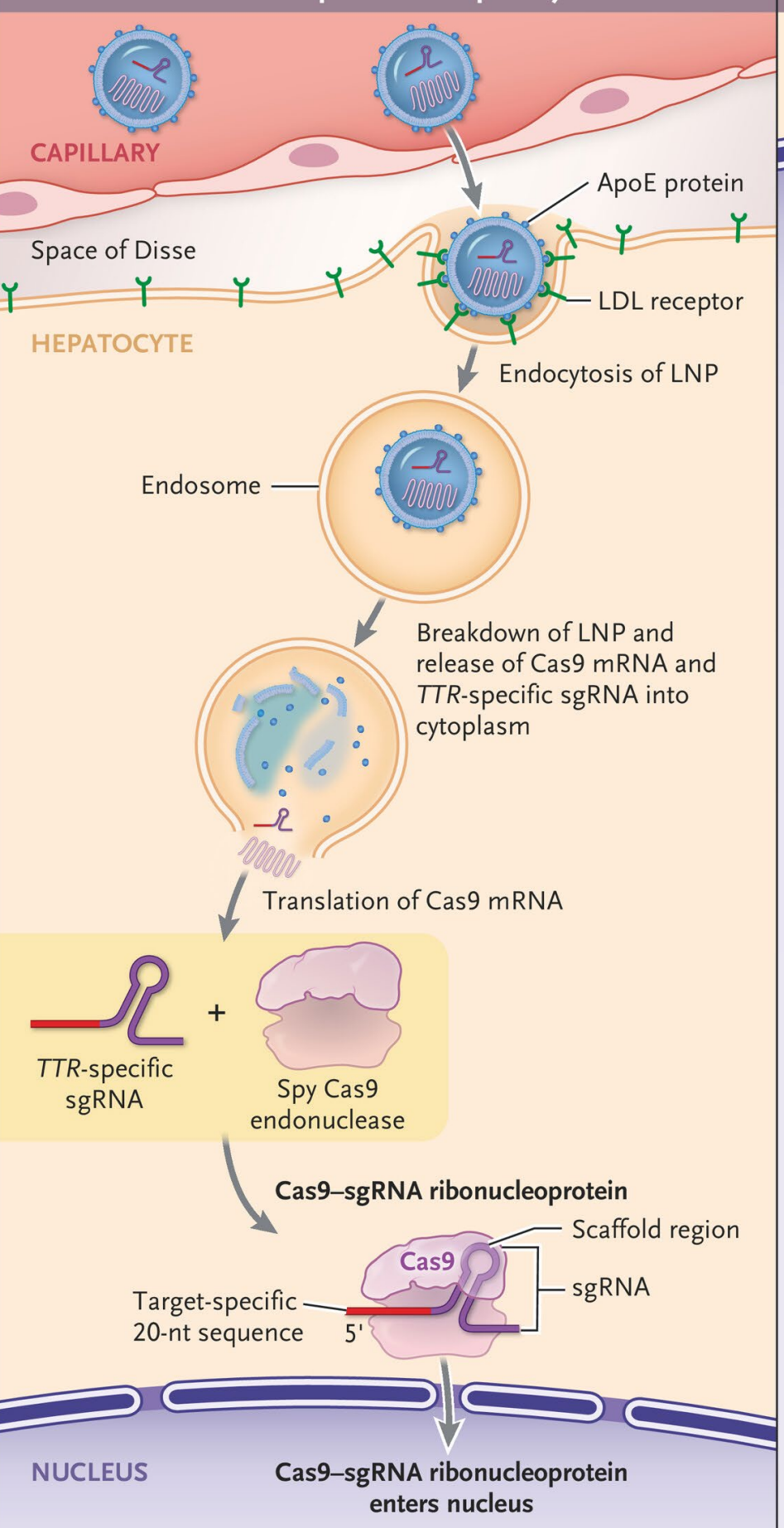
HELIOS-B Study: Vutrisiran



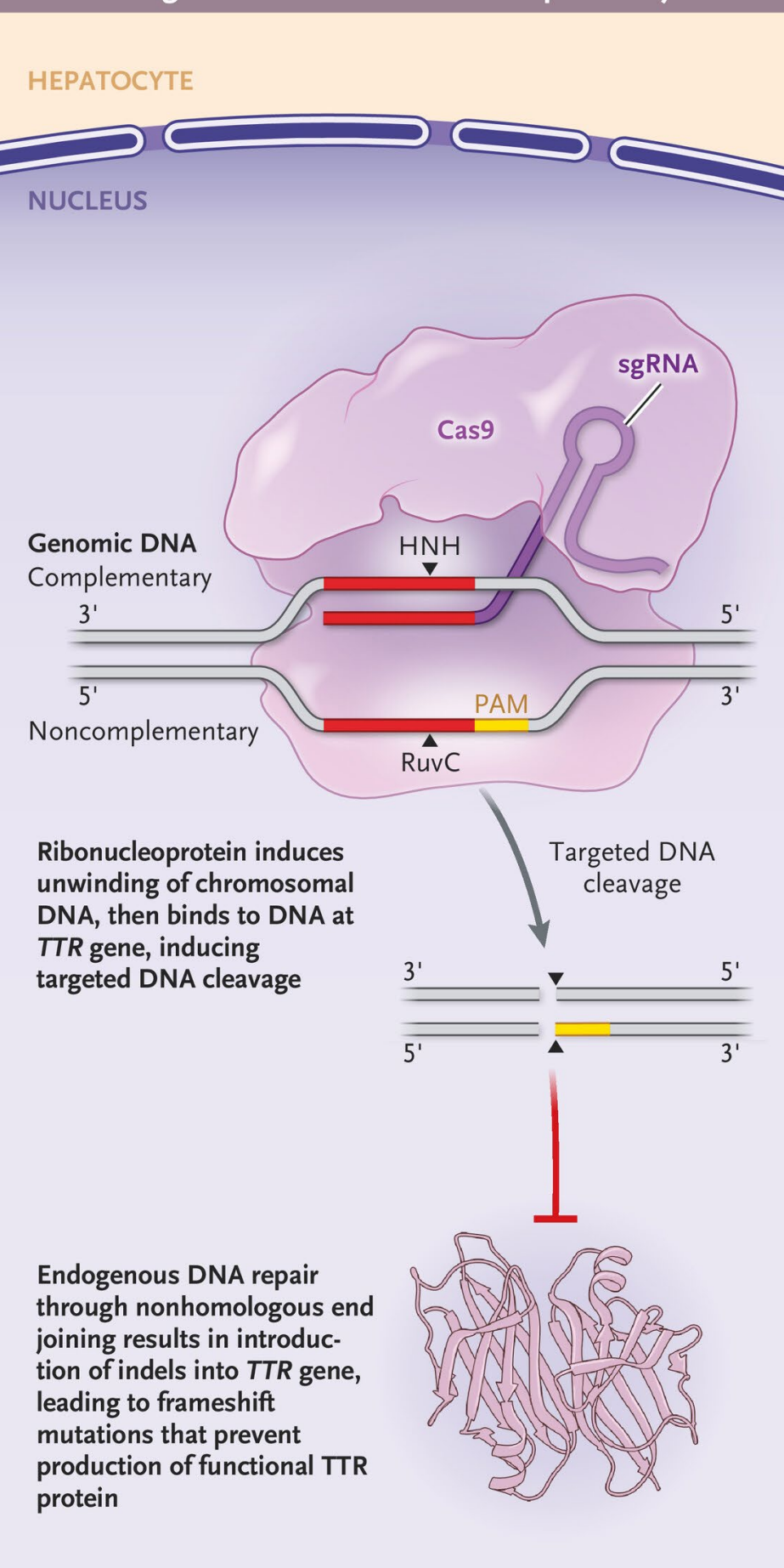
A Intravenous Infusion of NTLA-2001



B NTLA-2001 LNP Uptake in Hepatocytes

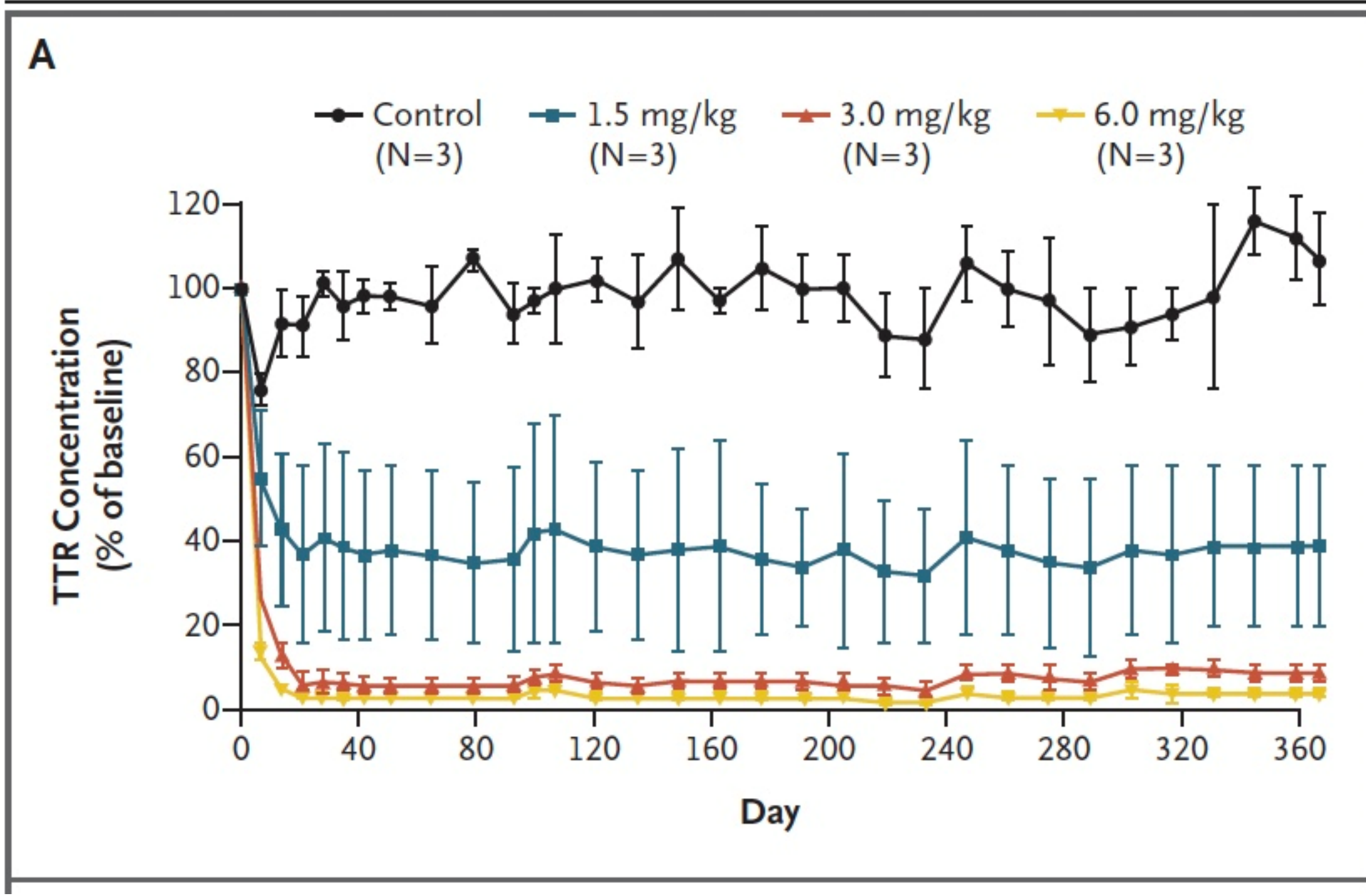


C Cleavage of DNA at TTR Gene Sequence by Cas9



Intellia Therapeutics

2021 Trial Results



Ref: Gillmore et al., 2021

***Updated 2024 data to be shared on next webinar





Summary

AMYLOIDOSIS

Devastating cause of heart failure (50% of restrictive cardiomyopathy)

TREATMENTS

Rapidly evolving landscape leading to dramatic change in the outlook for affected patients.

There are now therapies based on TTR stabilization or using siRNA shown to reduce all-cause mortality

ATTR CARDIOMYOPATHY

Drug therapy and evolving gene therapeutic strategies deploying several state-of-the-art modalities



ATTR-CM Educational Toolkit *Coming July 2025!*



Scan the QR code to Learn More!

www.heart.org/ATTR-CM

ATTR-CM Educational Toolkit



The American Heart Association is leading a national effort to improve the recognition, diagnosis, and management of Transthyretin Amyloid Cardiomyopathy (ATTR-CM). In collaboration with clinicians, scientists, and patient advocates, this initiative seeks to reduce diagnostic delays, strengthen multidisciplinary care, and expand awareness of emerging therapies, including gene-based approaches to cardiovascular disease.

This educational toolkit supports both healthcare professionals and patients/caregivers in navigating the complexities of ATTR-CM. The resources are designed to promote disease awareness and education, early recognition, informed decision-making, and meaningful conversations about clinical trial participation. An accompanying clinician guide equips providers to initiate and support discussions around gene therapy and evolving treatment pathways.

Toolkit & Resources Coming July 2025!

Educational materials for healthcare professionals and patients/caregivers will be available here in July 2025.

Stay tuned for updates and access to downloadable guides, patient education materials, and clinician-focused resources.



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Home / Health Topics / Cardiomyopathy / What is Cardiomyopathy? / **Transthyretin Amyloid Cardiomyopathy (ATTR-CM)**

Transthyretin Amyloid Cardiomyopathy (ATTR-CM)



What is transthyretin amyloid cardiomyopathy?

Transthyretin (trans-thy-re-tin) amyloid cardiomyopathy (ATTR-CM) is an underdiagnosed and potentially fatal disease of the heart muscle. In ATTR-CM, a protein called transthyretin that normally circulates in the bloodstream becomes misshapen and builds up in the heart, nerves and other organs.

Cardiomyopathy

What is Cardiomyopathy? -

Dilated Cardiomyopathy (DCM)

Hypertrophic Cardiomyopathy (HCM)

HCM in Young Adults and Student Athletes

Peripartum Cardiomyopathy (PPCM)

Restrictive Cardiomyopathy

Transthyretin Amyloid Cardiomyopathy (ATTR-CM)

Arrhythmogenic Right Ventricular Dysplasia

Is Broken Heart Syndrome Real?

Understand Your Risk for Cardiomyopathy +

Symptoms and Diagnosis of Cardiomyopathy

Prevention and Treatment of Cardiomyopathy

HCM Personal Stories +

Related Articles



ATTR-CM Resources Available



Health Topics:
What is ATTR-CM?



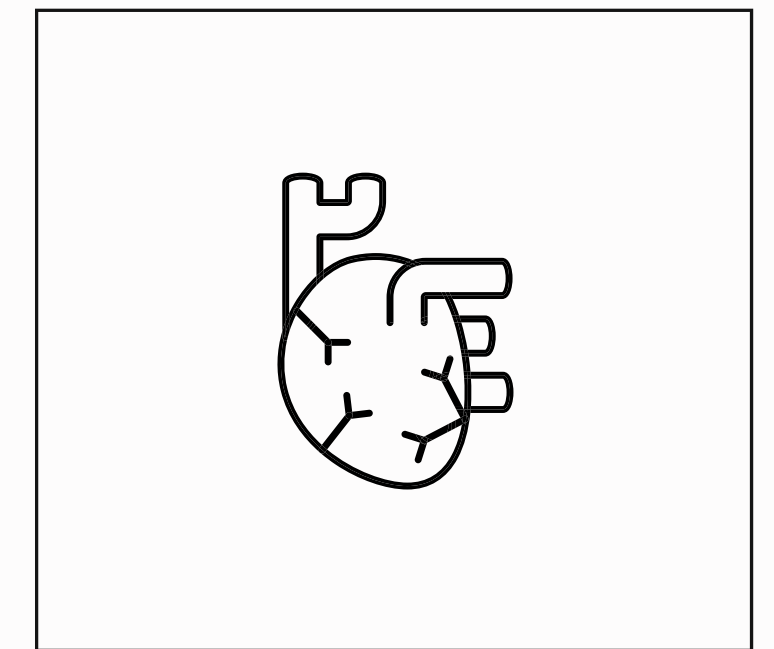
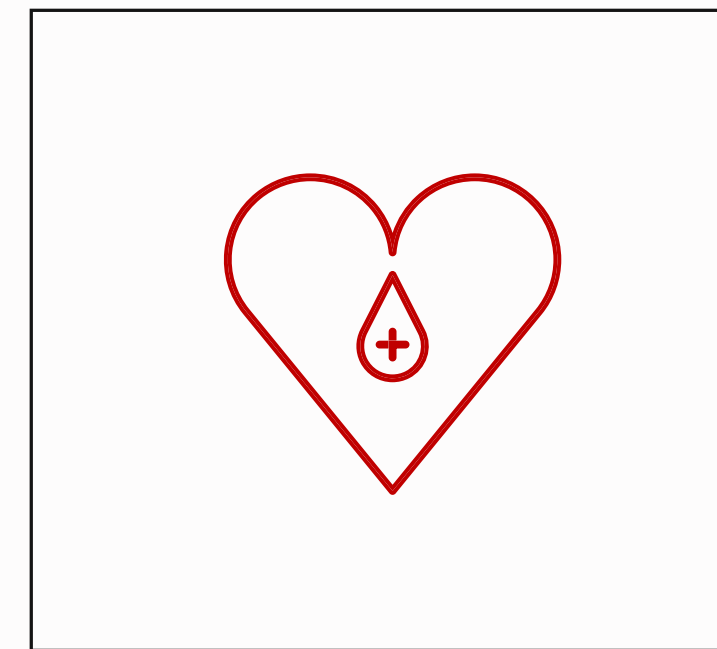
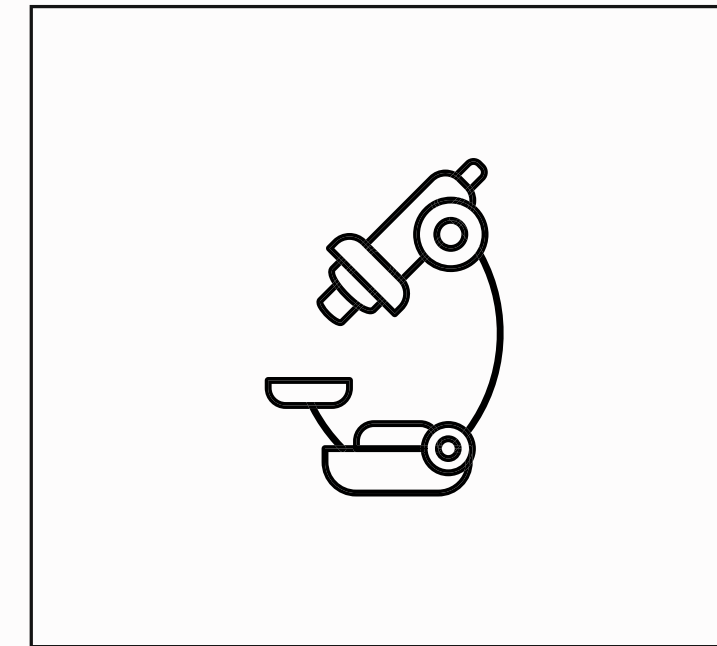
Health Topics:
Genetic Testing and Counseling for hATTR



Health Topics:
A Guide to Understanding Clinical Trials



Continuing the Conversation



Webinar #2 – October 2025

Advances in Diagnosis & Treatment of Amyloidosis

Webinar #3 – February 2026

Multidisciplinary Care & Future Directions in Amyloidosis

STAY TUNED!

Invitation and registration details for upcoming webinars will be shared in the coming months!



Scan the QR code to Learn More! Or visit: www.heart.org/ATTR-CM



Q & A





Thank you for joining us today!

Recordings of today's sessions will be enduring resources in a few weeks on

www.heart.org/ATTR-CM



Connect with Us! Scan to email

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