



Cytokinetics®

EMPOWERING

**muscle**

EMPOWERING

**lives**



Vi, diagnosed with HCM  
Avonne, diagnosed with HCM  
John, diagnosed with heart failure

# Forward-Looking Statements

This presentation contains forward-looking statements for purposes of the Private Securities Litigation Reform Act of 1995 (the “Act”). Cytokinetics disclaims any intent or obligation to update these forward-looking statements and claims the protection of the Act’s Safe Harbor for forward-looking statements. Examples of such statements include, but are not limited to, statements express or implied related Cytokinetics’ research and development and commercial readiness activities, including the initiation, conduct, design, enrollment, progress, continuation, completion, timing and results of clinical trials, projections regarding growing prevalence, low survival rates and market opportunity in heart failure, hypertrophic cardiomyopathy (HCM) or heart failure with preserved ejection fraction (HFpEF); projections regarding the size of the addressable patient population for *aficamten*, *omecamtiv mecarbil*, CK-586 or any of our other drug candidates; Cytokinetics’ commercial readiness for *aficamten* or *omecamtiv mecarbil*; our ability to submit a new drug application for *aficamten* with FDA in the third quarter 2024 or a marketing authorization application with EMA in the fourth quarter 2024, the likelihood and/or timing of regulatory approval for our planned new drug application for *aficamten*, *omecamtiv mecarbil* or any future new drug application for any of our other drug candidates or the anticipated timing of any interactions with FDA, EMA or any other regulatory authorities in connection thereto; the timing of our commencement of a new phase 3 clinical trial of *omecamtiv mecarbil*, the timing of completion of MAPLE-HCM, ACACIA-HCM, CEDAR-HCM, or any of our other clinical trials, the efficacy or safety of *aficamten*, *omecamtiv mecarbil*, CK-586 or any of our other drug candidates, our ability to fully enroll or to announce the results of any of our clinical trials by any particular date; the properties, potential benefits and commercial potential of *aficamten*, *omecamtiv mecarbil*, CK-586 or any of Cytokinetics’ other drug candidates, our ability to satisfy the conditions for disbursement of additional capital/loans under our agreements with Royalty Pharma, or Royalty Pharma’s decision to opt-in to the further development of CK-586 for additional funding. Such statements are based on management’s current expectations; but actual results may differ materially due to various risks and uncertainties, including, but not limited to, potential difficulties or delays in the development, testing, regulatory approvals for trial commencement, progression or product sale or manufacturing, or production of Cytokinetics’ drug candidates that could slow or prevent clinical development or product approval, including risks that current and past results of clinical trials or preclinical studies may not be indicative of future clinical trial results, patient enrollment for or conduct of clinical trials may be difficult or delayed, Cytokinetics’ drug candidates may have adverse side effects or inadequate therapeutic efficacy, the FDA or foreign regulatory agencies may delay or limit Cytokinetics’ ability to conduct clinical trials, and Cytokinetics may be unable to obtain or maintain patent or trade secret protection for its intellectual property; Cytokinetics may incur unanticipated research, development and other costs or be unable to obtain financing necessary to conduct development of its products; standards of care may change, rendering Cytokinetics’ drug candidates obsolete; and competitive products or alternative therapies may be developed by others for the treatment of indications Cytokinetics’ drug candidates and potential drug candidates may target. These forward-looking statements speak only as of the date they are made, and Cytokinetics undertakes no obligation to subsequently update any such statement, except as required by law. For further information regarding these and other risks related to Cytokinetics’ business, investors should consult Cytokinetics’ filings with the Securities and Exchange Commission (the “SEC”). This presentation concerns drug candidates that are under clinical investigation, and which have not yet been approved by the U.S. Food and Drug Administration. These are currently limited by federal law to investigational use, and no representation is made as to their safety or effectiveness for the purposes for which they are being investigated.

Disclaimer: The assumptions used in the preparation of this presentation, although considered reasonable by us at the time of preparation, may prove to be incorrect. You are cautioned that the information is based on assumptions as to many factors and that actual results may vary from the results projected and such variations may be material. Accordingly, you should not place undue reliance on any forward-looking statements contained herein or rely on them as predictions of future events.

The trademarks, trade names and service marks appearing in this presentation are the property of their respective owners. Certain information contained in this presentation relate to or are based on studies, publications and other data obtained from third-party sources as well as our own internal estimates and research. While we believe these third-party sources to be reliable as of the date of this presentation, we have not independently verified, and make no representation as to the adequacy, fairness, accuracy or completeness of, any information obtained from third-party sources.

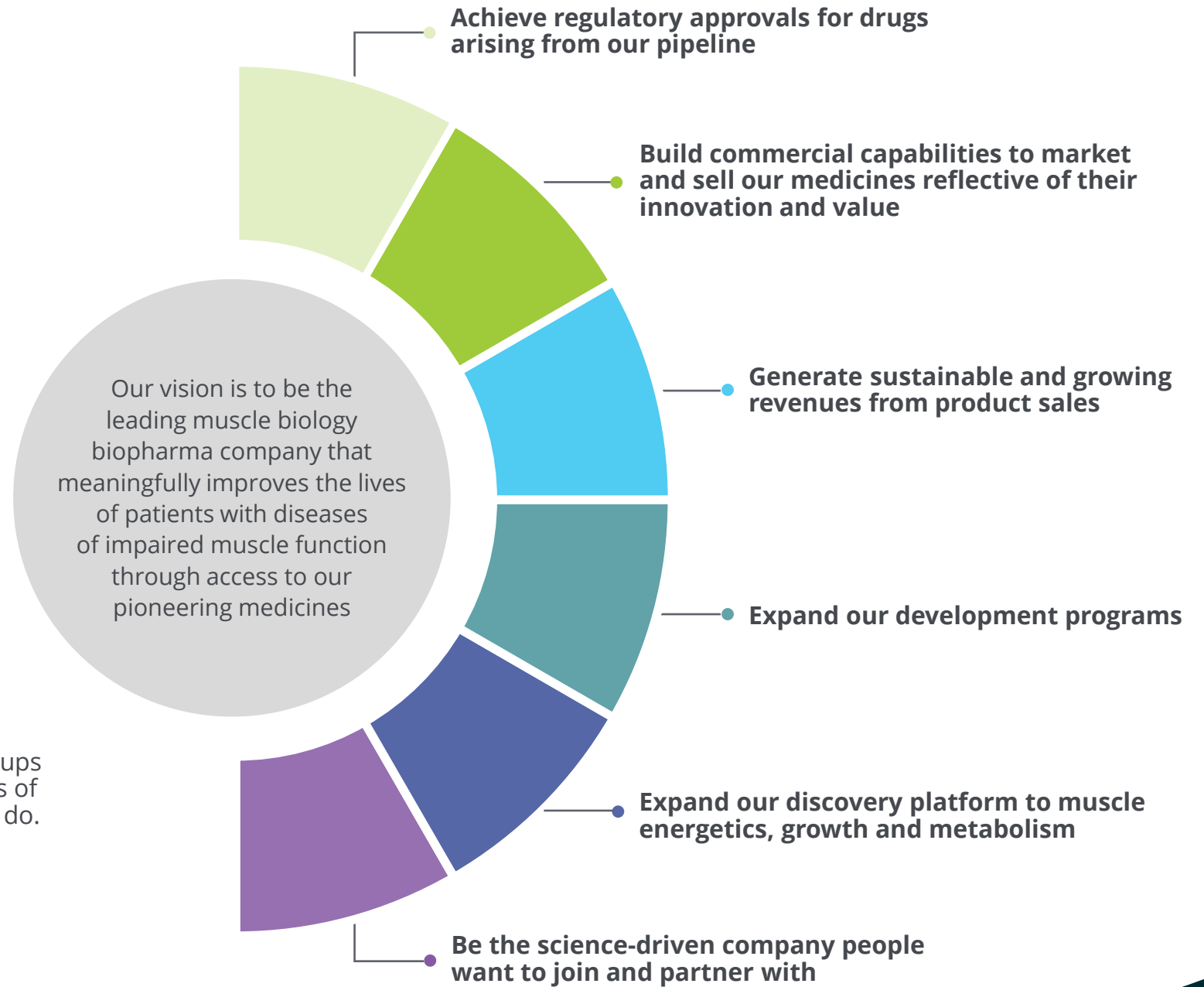
# Our Mission

To bring forward new medicines to improve the healthspan of people with devastating cardiovascular and neuromuscular diseases of impaired muscle function.

# VISION 2025

Leading with Science,  
Delivering for Patients

As always, we will support disease advocacy groups elevating the patient voice and live by our values of integrity, fairness and compassion in all that we do.





# Strong Financial Position

Strengthened balance sheet & access to capital to execute launch & advance R&D pipeline

June 30, 2024	~\$1.4B in cash, cash equivalents and investments	
Further access to capital through term loans with RP	New \$175M* term loan facilities, in addition to previously existing \$175M** in unutilized term loan facilities, together provide up to \$350M in additional unutilized term loans with Royalty Pharma (RP)	Add'l \$500M
Potential further funding through RP opt-in	RP, at its option, can invest up to \$150M in a Phase 3 trial of CK-586 in exchange for an additional*** 3.5% revenue participation interest in worldwide net sales of CK-586	

\*Tranche 7 Loan: Cytokinetics, at its option, is eligible to draw up to \$175m during the 1-year period following the FDA approval of aficamten for oHCM provided that the NDA is approved on or prior to December 31, 2025.

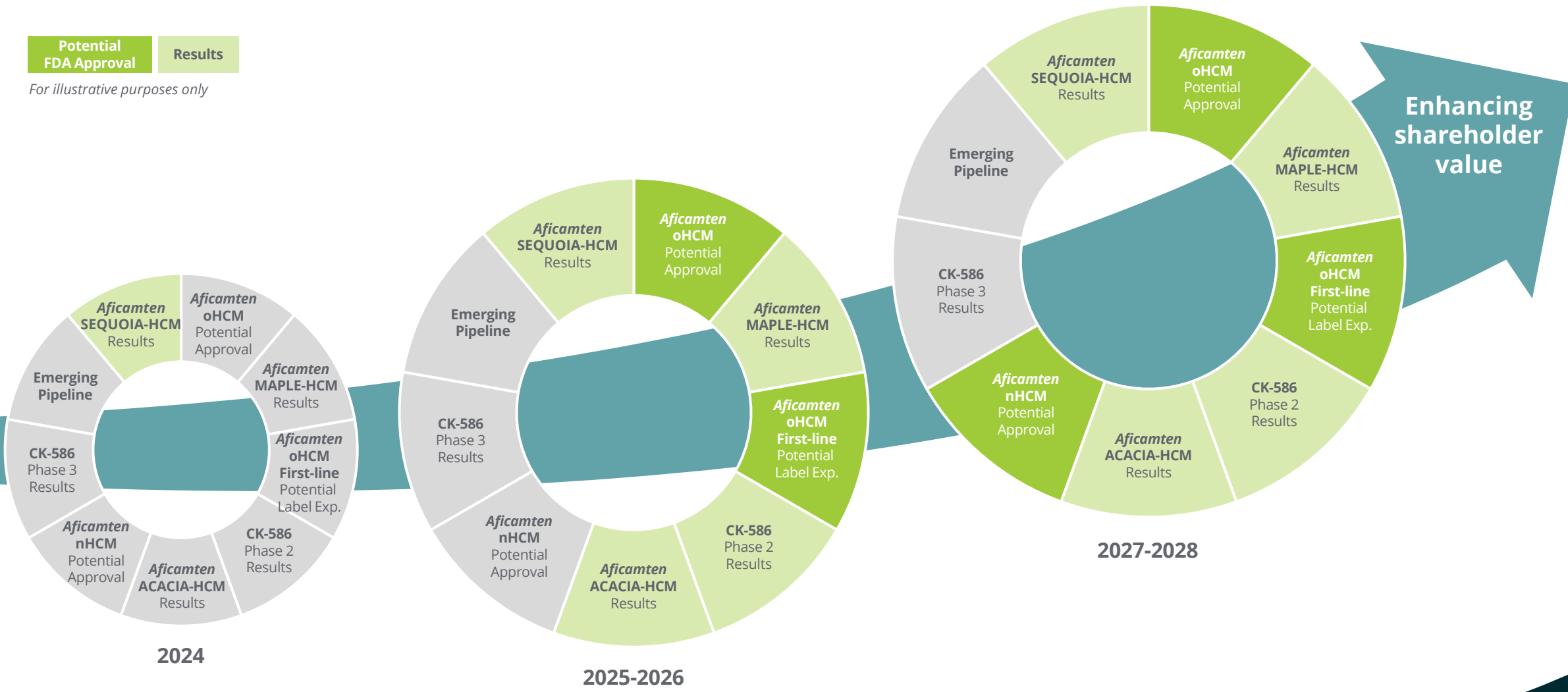
\*\*Tranche 4 & 5 Loans: Cytokinetics is eligible to draw up to \$75m by April 30, 2025 from tranche 4. The minimum draw for tranche 4 is \$50m. Cytokinetics, at its option, is eligible to draw up to \$100m during the 1-year period following the acceptance of the NDA filing for aficamten provided that the NDA filing is accepted on or prior to March 31, 2025.

\*\*\* Royalty Pharma currently has a revenue participation interest of 1.0% of worldwide net sales of CK-586.

# Myosin Platform Fuels Multiple Milestones and Increased Value

Potential FDA Approval    Results

*For illustrative purposes only*



# Cytokinetics Poised to Compete in the Specialty Cardiology Business

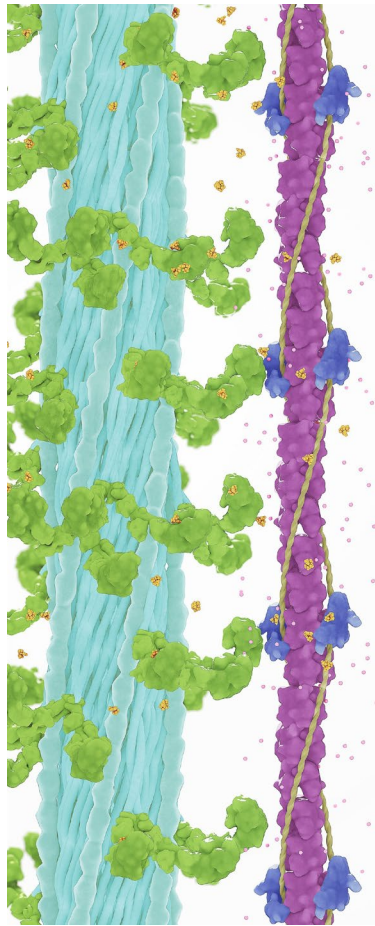
## Potential for high return on investment

	Broad Cardiology	Specialty Cardiology
<b>Example Therapies</b>	Heart failure, cholesterol, blood thinner	HCM, TTR amyloidosis
<b>Prescribers</b>	<i>Broad:</i> Cardiologists, PCPs (50K+)	<i>Concentrated:</i> Subset of cardiologists (~10K)
<b>ROI / Prescriber</b>	Limited	High
<b>Distribution</b>	Retail	Limited, specialty distributor
<b>Customer-Facing Reps</b>	Entry level	Highly experienced
<b>Support Services</b>	<i>Standard:</i> Affordability / copay	<i>High-touch:</i> Financial, education, journey
<b>Managed Care</b>	Competitive/high rebates	Managed to label
<b>Diagnosis</b>	High awareness and diagnosis rate	Limited awareness with high % undiagnosed
<b>HCP – Rep Interactions</b>	Brief features/benefits	Comprehensive broad-based discussion



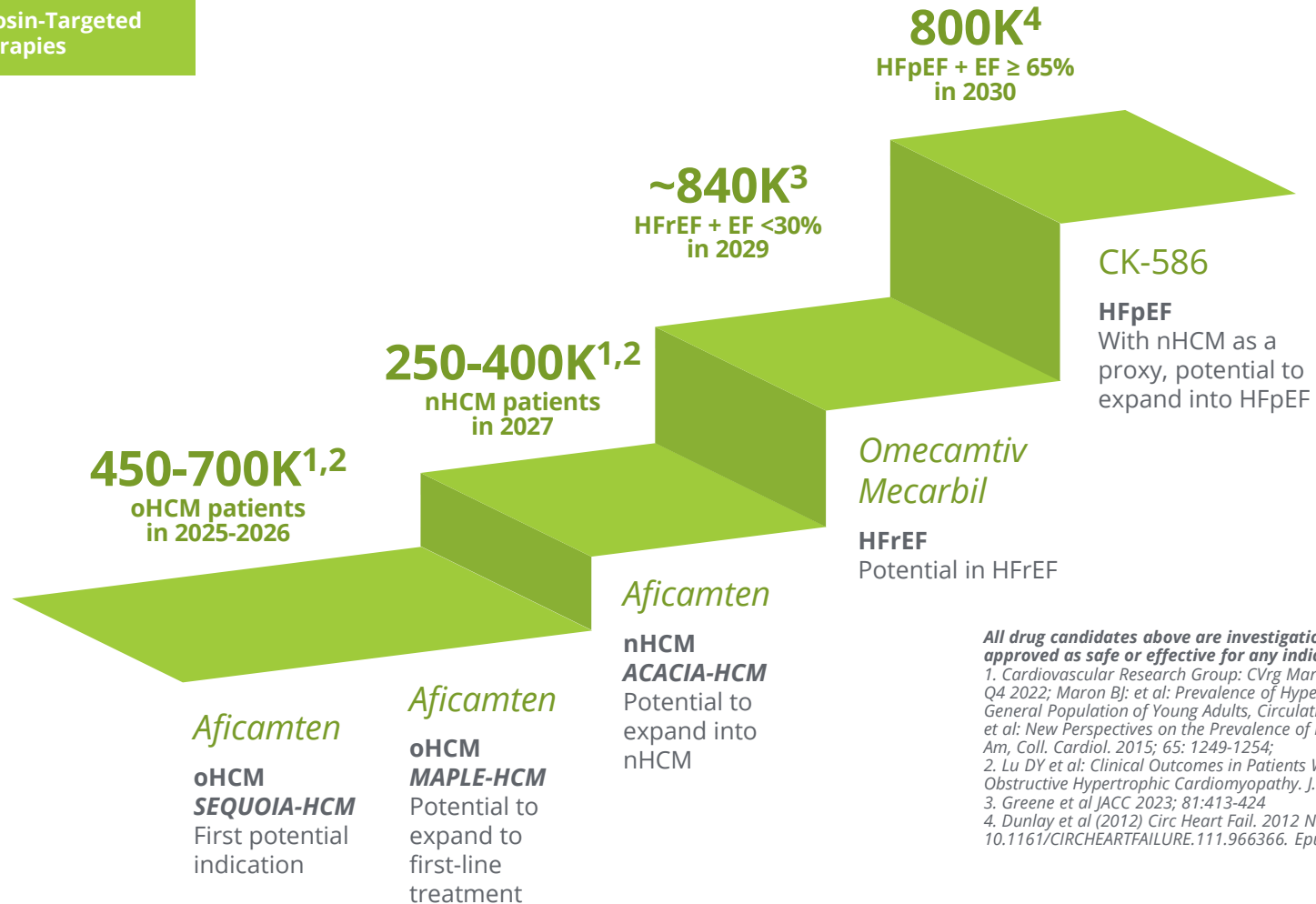
# Building a Specialty Cardiology Franchise Anchored by *Aficamten*

## Potential patient market for specialty cardiology franchise strategy



**Myosin-Targeted Therapies**

*Estimated prevalence in US only*



*All drug candidates above are investigational products and are not approved as safe or effective for any indication.*

1. Cardiovascular Research Group: CVrg Market Strategies: Heart Failure, p 48, Q4 2022; Maron BJ: et al: Prevalence of Hypertrophic Cardiomyopathy In A General Population of Young Adults, *Circulation* 1995;92:785-789; Semsarian C. et al: New Perspectives on the Prevalence of Hypertrophic Cardiomyopathy, *J. Am. Coll. Cardiol.* 2015; 65: 1249-1254;

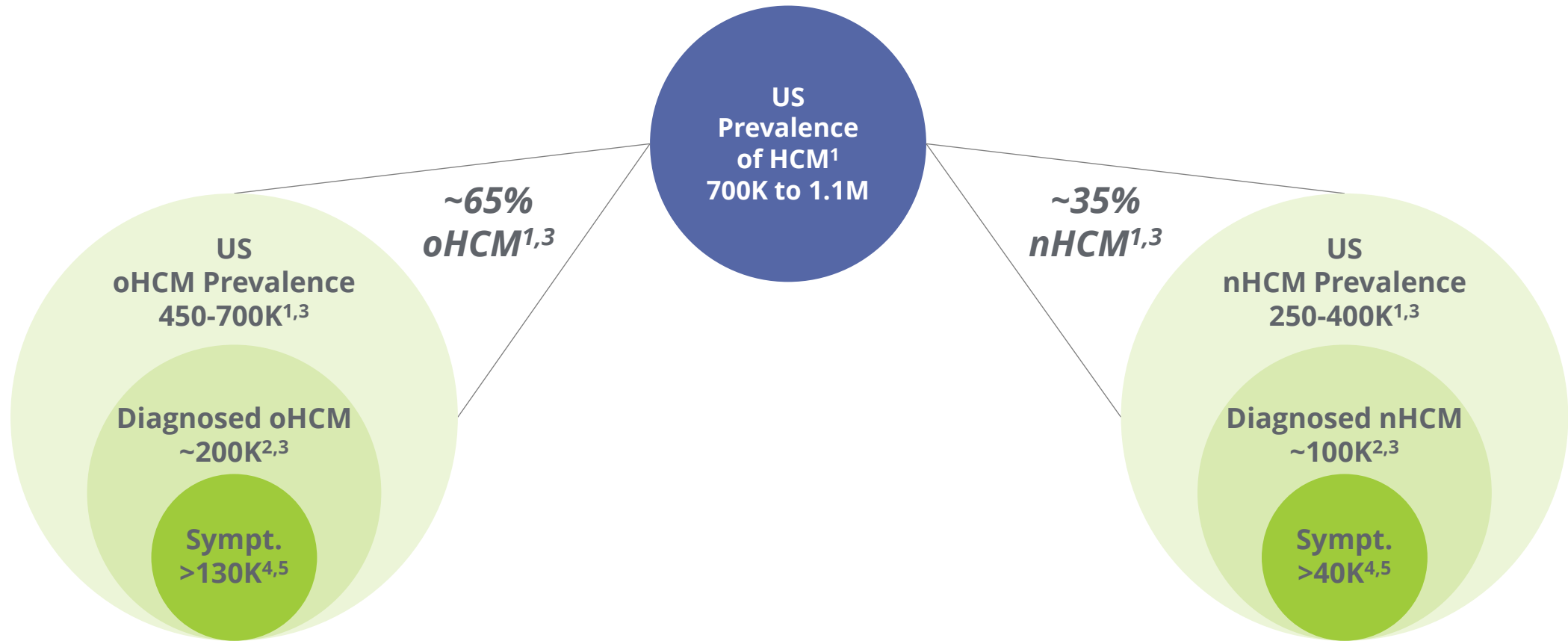
2. Lu DY et al: Clinical Outcomes in Patients With Nonobstructive, Labile, and Obstructive Hypertrophic Cardiomyopathy. *J. Am. Heart Assoc.* 2018;7:1-11

3. Greene et al *JACC* 2023; 81:413-424

4. Dunlay et al (2012) *Circ Heart Fail.* 2012 Nov;5(6):720-6. doi: 10.1161/CIRCHEARTFAILURE.111.966366. Epub 2012 Aug 30.

# ***Aficamten***

# Opportunity for CMI in Diagnosed, Symptomatic HCM Patients



**Projections and forecasts for illustration.**

1. Cardiovascular Research Group: CVrg Market Strategies: Heart Failure, p 48, Q4 2022; Maron BJ; et al.: Prevalence of Hypertrophic Cardiomyopathy In A General Population of Young Adults, Circulation 1995;92:785-789; Semsarian C. et al: New Perspectives on the Prevalence of Hypertrophic Cardiomyopathy, J. Am. Coll. Cardiol. 2015; 65: 1249-1254;
2. DoF: SHA; Symphony PTD (Patient Transaction Data): Includes patients diagnosed since 2016 and having any HC transaction in the claims data universe in the last year June 2022-May 2023);
3. Lu DY et al: Clinical Outcomes in Patients With Nonobstructive, Labile, and Obstructive Hypertrophic Cardiomyopathy. J. Am. Heart Assoc.2018;7:1-11
4. DoF: SHA Symphony PTD (Patient Transaction Data) includes any patients with symptoms in the last 2 years: angina, dyspnea, fatigue, palpitations, syncope, tachycardia; and/or treatments in the past 2 years: bb, ccb, dyso, ralo, Camzyos;
5. DoF Primary market research: 443 HCPs treating HCM - % of nHCM patients not considered under control with current SOC.

# Aficamten: Aspirational Target Profile

## Potential next-in-class cardiac myosin inhibitor



Rapid onset



Rapid reversibility



Speed to optimal dose



Predictable dose response



No teratogenicity



No clinically meaningful P450 liabilities

*Aspirational information. Aficamten is an investigational drug and is not approved by any regulatory agency. Its safety and efficacy have not been established.*

# SEQUOIA-HCM: Phase 3 Trial



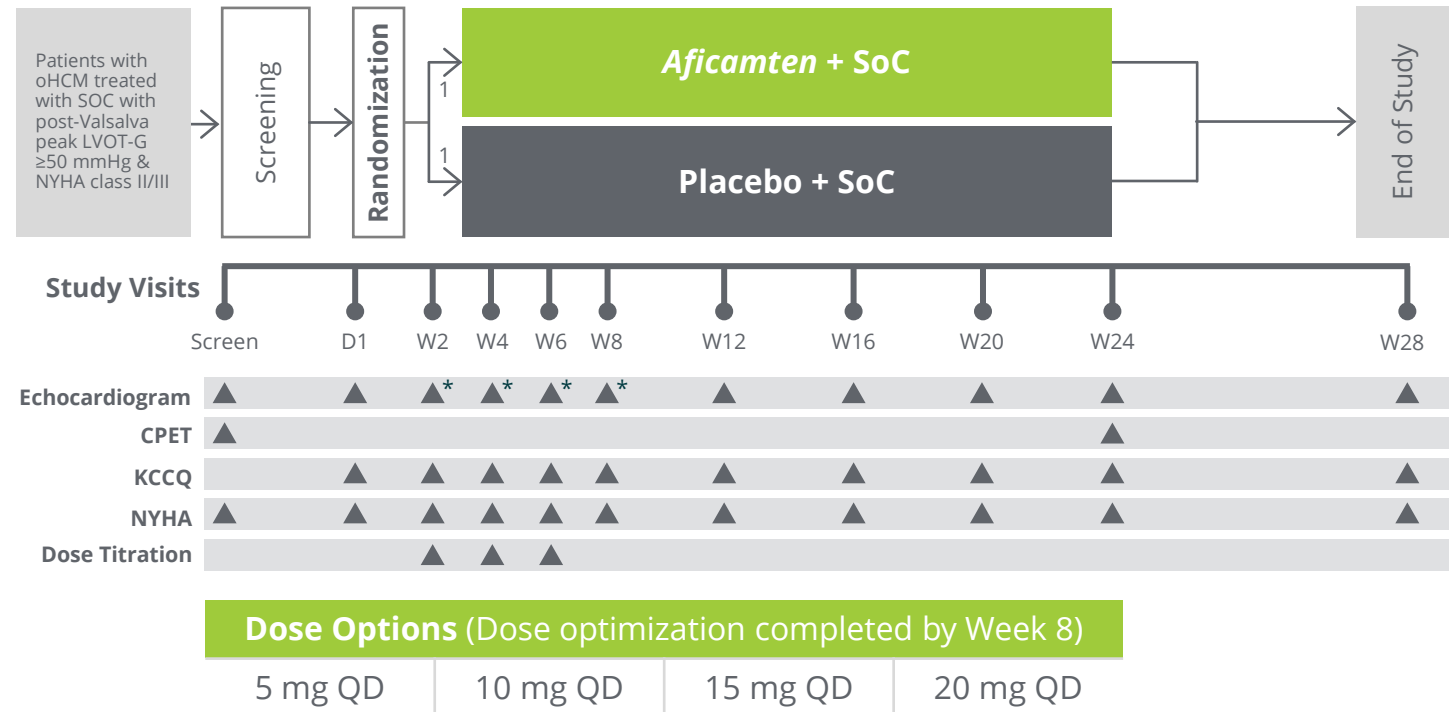
Primary endpoint: **Change in pVO<sub>2</sub> by CPET from baseline to Week 24**

Secondary objectives include measuring **change in KCCQ & improvement in NYHA class at week 12 and 24**

Enrolled 282 patients treated with standard of care with:

- **resting LVOT-G  $\geq 30$  mmHg,**
- **post-Valsalva LVOT-G  $\geq 50$  mmHg,**
- **NYHA Class II or III,**
- **exercise performance  $< 80\%$  predicted**

Individualized dose up-titration based on echocardiography: LVEF  $\geq 55\%$ , post-Valsalva LVOT-G  $\geq 30$  mmHg



SOC: standard of care  
\* Focused echocardiogram

# SEQUOIA-HCM: Baseline Characteristics



Baseline characteristics reflect highly symptomatic patient population with reduced exercise capacity

- Significant **symptom burden** despite background therapy
- 61% of patients on **beta-blockers**
- Baseline pVO<sub>2</sub> reflects patient population with **reduced exercise capacity**

	Aficamten n=142	Placebo n=140
Age, y	59.2 ± 12.6	59.0 ± 13.4
Female sex, n (%)	56 (39.4)	59 (42.1)
Race, n (%)		
White	108 (76.1)	115 (82.1)
Geographic region, n (%)		
North America	49 (34.5)	45 (32.1)
China	24 (16.9)	22 (15.7)
Europe and Israel	69 (48.6)	73 (52.1)
Medical history, n (%)		
Hypertension	75 (52.8)	70 (50.0)
Paroxysmal atrial fibrillation	21 (14.8)	20 (14.3)
Permanent atrial fibrillation	2 (1.4)	1 (0.7)
CPET		
pVO <sub>2</sub> (mL/kg/min)	18.5 (4.5)	18.6 (4.5)
Percent of predicted pVO <sub>2</sub> (%)	58 (13)	57 (12)

	Aficamten n=142	Placebo n=140
<b>Background HCM therapy, n (%)</b>		
Beta-blocker	86 (60.6)	87 (62.1)
Calcium channel blocker	45 (31.7)	36 (25.7)
Disopyramide	16 (11.3)	20 (14.3)
None	19 (13.4)	22 (15.7)
KCCQ-CSS	76 ± 18	74 ± 18
<b>NYHA FC, n (%)</b>		
II	108 (76.1)	106 (75.7)
III/IV	34 (23.9)	34 (24.3)
Median NT-proBNP (IQR), pg/mL	818 (377–1630)	692 (335–1795)
Median hs-cTnI (IQR), ng/L	12.9 (7.6–33.6)	11.5 (7.7–25.0)
<b>Echocardiographic parameters</b>		
Valsalva LVOT-G, mmHg	82.9 ± 32	83.3 ± 33
Resting LVOT-G, mmHg	54.8 ± 27	55.3 ± 32
LVEF, %	74.8 ± 5.5	74.8 ± 6.3
Maximal LV wall thickness, mm	20.7 ± 3.0	21.0 ± 3.0

Values are the mean ± SD unless otherwise indicated.

*Aficamten is an investigational drug and is not approved by any regulatory agency. Its safety and efficacy have not been established.  
Maron M. "Aficamten for the Treatment of Symptomatic Obstructive Hypertrophic Cardiomyopathy". ESC Heart Failure 2024.*

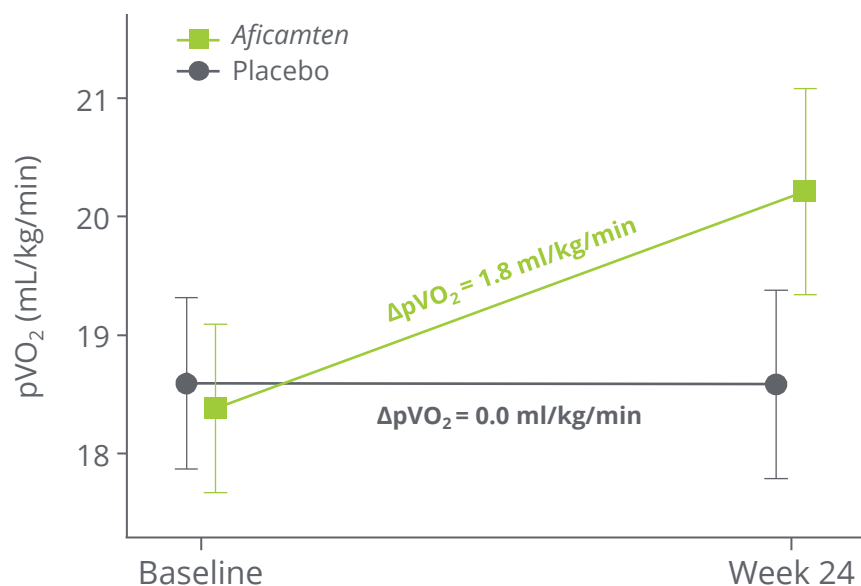
# SEQUOIA-HCM: Primary Endpoint

## Significant improvement in exercise capacity compared to placebo

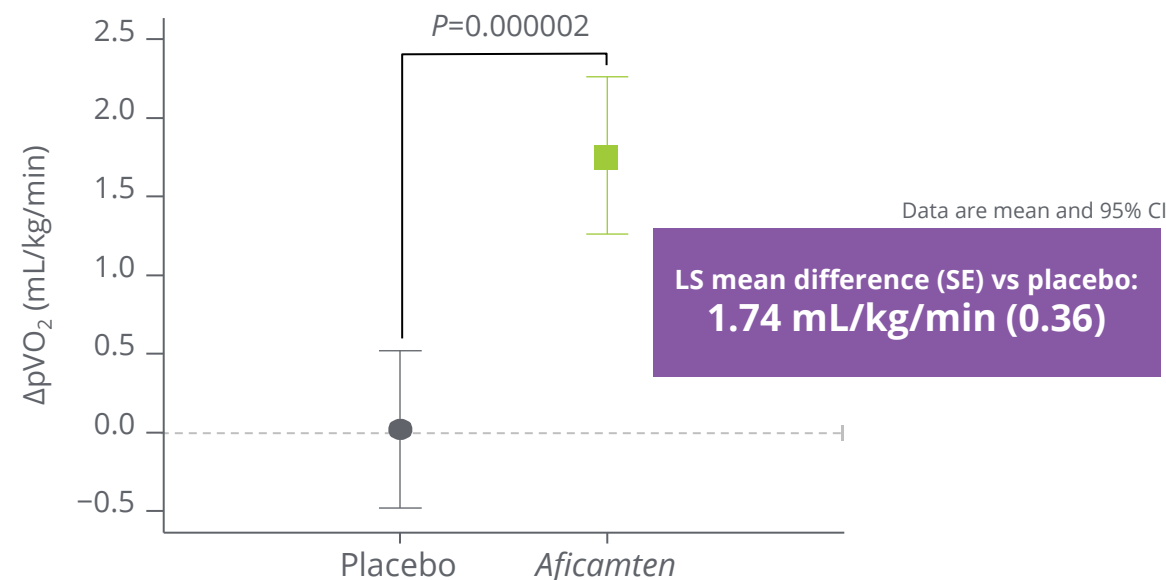


Results presented at Heart Failure 2024 and published in *NEJM*

Absolute Change from Baseline to Week 24



LS mean Change from Baseline to Week 24



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 Maron M. "Aficamten for the Treatment of Symptomatic Obstructive Hypertrophic Cardiomyopathy". ESC Heart Failure 2024.

# SEQUOIA-HCM: Subgroup Analysis



Results consistent across all prespecified subgroups including patients receiving or not receiving background beta-blockers

	n (Afi/Plb)	Aficamten LS mean	Placebo LS mean	Mean difference (95% CI)		n (Afi/Plb)	Aficamten LS mean	Placebo LS mean	Mean difference (95% CI)
<b>Age</b>					<b>Baseline NT-proBNP (median)</b>				
<65 y	85/84	2.4	0.4	2.0 (1.1, 2.8)	≤ 788 pg/mL	66/73	2.2	0.6	1.7 (0.7, 2.7)
≥65 y	57/56	0.9	-0.5	1.4 (0.3, 2.5)	> 788 pg/mL	73/65	1.4	-0.6	2.0 (1.0, 2.9)
<b>Sex</b>					<b>CPET Modality</b>				
Male	86/81	2.5	0.7	1.8 (0.9, 2.7)	Treadmill	78/77	2.5	0.2	2.3 (1.4, 3.2)
Female	56/59	0.6	-0.8	1.4 (0.4, 2.5)	Bicycle	64/63	0.9	-0.1	1.0 (-0.0, 2.1)
<b>Baseline BMI</b>					<b>Baseline Median pVO<sub>2</sub></b>				
<30 kg/m <sup>2</sup>	97/94	1.9	0.1	1.8 (1.0, 2.7)	≤18.4 mL/kg/min	74/67	1.5	-0.1	1.6 (0.6, 2.5)
≥30 kg/m <sup>2</sup>	45/46	1.4	-0.2	1.6 (0.3, 2.8)	>18.4 mL/kg/min	68/73	2.0	0.1	1.9 (1.0, 2.9)
<b>Baseline Median LVEF</b>					<b>Baseline Beta-Blocker Use</b>				
≤75.6%	73/68	1.9	0.0	1.8 (0.8, 2.8)	Yes	86/87	1.4	-0.2	1.6 (0.7, 2.5)
>75.6%	69/72	1.7	0.0	1.6 (0.6, 2.6)	No	56/53	2.2	0.2	1.9 (0.8, 3.1)
<b>Baseline NYHA FC</b>					<b>Baseline Resting LVOT (median)</b>				
Class II	108/106	2.0	0.3	1.7 (0.9, 2.5)	≤51.1 mmHg	72/69	1.8	0.5	1.3 (0.3, 2.3)
Class III /IV	34/34	1.0	-0.9	1.9 (0.5, 3.3)	>51.1 mmHg	70/71	1.7	-0.4	2.1 (1.2, 3.1)
<b>Baseline Median KCCQ-CSS</b>					<b>Genotype</b>				
≤78.1	67/75	1.7	-0.1	1.8 (0.8, 2.8)	Positive	20/22	1.6	-1.0	2.6 (0.9, 4.2)
>78.1	75/65	1.8	0.1	1.7 (0.7, 2.6)	Negative	71/70	1.4	-0.1	1.4 (0.5, 2.3)

Interaction P values were >0.05 for all prespecified subgroups

← Favors Placebo      Favors Treatment →

← Favors Placebo      Favors Treatment →

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Maron M. "Aficamten for the Treatment of Symptomatic Obstructive Hypertrophic Cardiomyopathy". ESC Heart Failure 2024.



# SEQUOIA-HCM: Secondary Endpoints



Statistically significant improvements in all 10 pre-specified secondary endpoints

Endpoints	P value
<b>Primary Endpoint</b>	
pVO <sub>2</sub> change from baseline to Week 24	<0.0001
<b>Secondary Endpoints</b>	
1. KCCQ-CSS change from baseline to Week 24	<0.0001
2. NYHA Class Improvement by at least 1 class at Week 24	<0.0001
3. Valsalva LVOT-G change from baseline to Week 24	<0.0001
4. % Valsalva LVOT-G <30 mmHg at Week 24	<0.0001
5. Duration of SRT Eligible during 24 Weeks of Treatment	<0.0001
6. KCCQ-CSS change from baseline to Week 12	<0.0001
7. NYHA Class Improvement by at least 1 class at Week 12	<0.0001
8. Valsalva LVOT-G change from baseline to Week 12	<0.0001
9. % Valsalva LVOT-G <30 mmHg at Week 12	<0.0001
10. Total workload change from baseline to Week 24	<0.0001

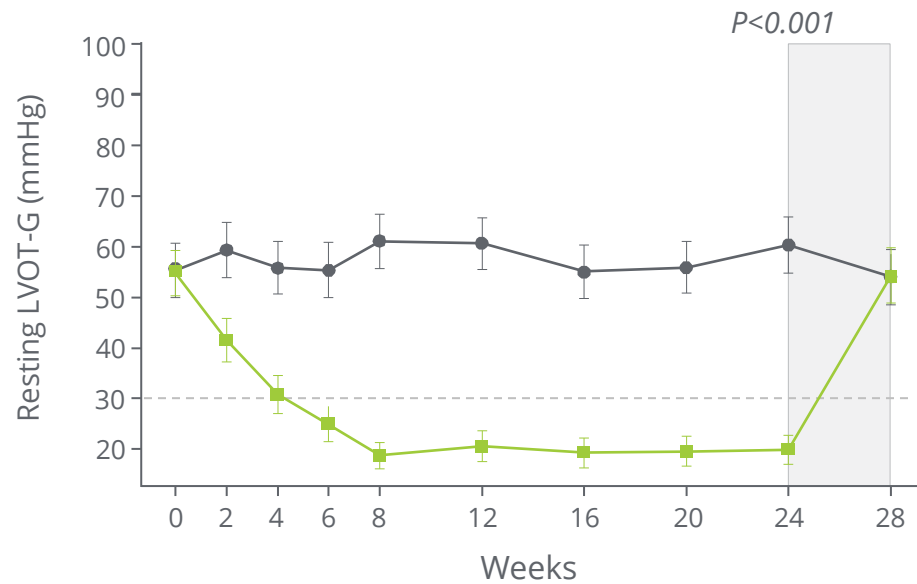
*Aficamten is an investigational drug and is not approved by any regulatory agency. Its safety and efficacy have not been established.  
Maron M. "Aficamten for the Treatment of Symptomatic Obstructive Hypertrophic Cardiomyopathy". ESC Heart Failure 2024.*

# SEQUOIA-HCM: Secondary & Exploratory Endpoints

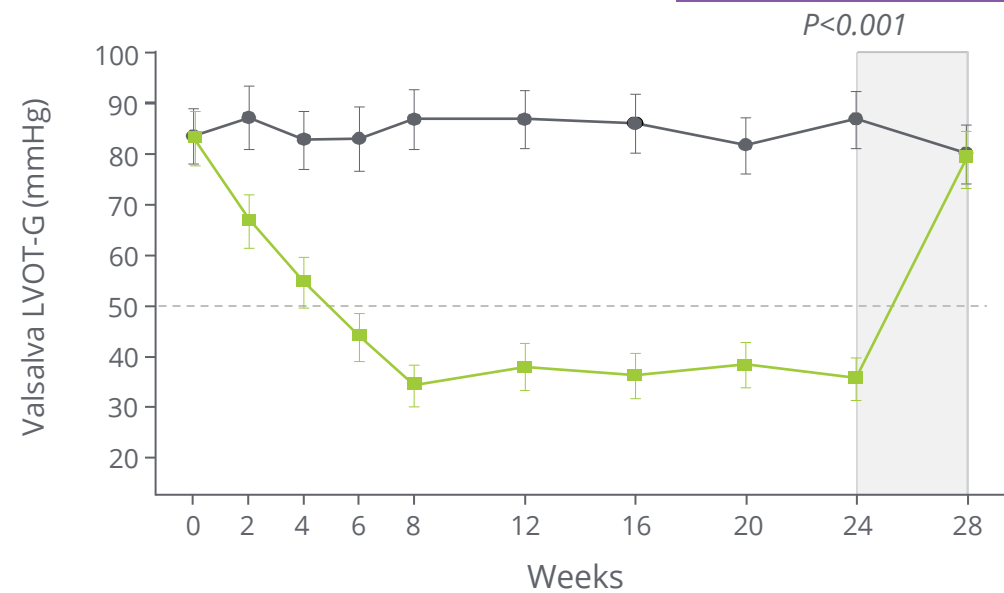


Significant improvement in gradients by ~60% with no significant adverse change in LVEF

Resting LVOT-G



Valsalva LVOT-G



■ Aficamten  
● Placebo  
 Washout

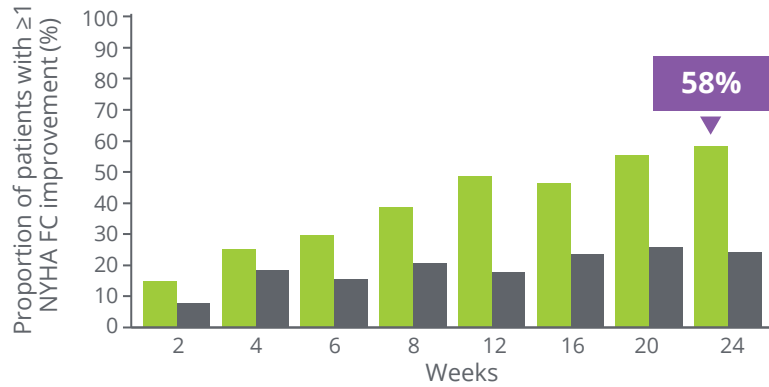
Aficamten is an investigational drug and is not approved by any regulatory agency. Its safety and efficacy have not been established.  
 Error bars are 95% CI  
 Hegde S, et al. Impact of Aficamten on Echocardiographic Cardiac Structure and Function in Symptomatic Obstructive Hypertrophic Cardiomyopathy. JACC. 2024.

# SEQUOIA-HCM: Secondary & Exploratory Endpoints



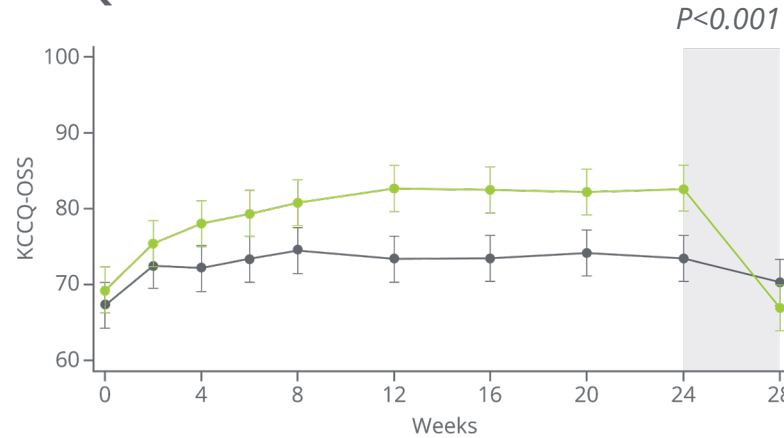
Significant improvement in patient symptom burden and quality of life

## ≥1 NYHA FC Improvement<sup>1</sup>



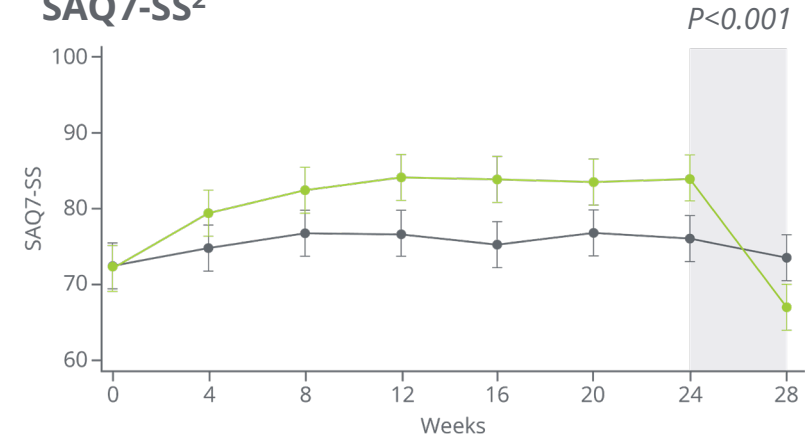
■ Aficamten  
● Placebo  
■ Washout

## KCCQ-OSS<sup>2</sup>



**Mean difference between *aficamten* & placebo = 7.9 points**  
  
**30% on *aficamten* vs. 12% on placebo had an improvement of ≥20 points**

## SAQ7-SS<sup>2</sup>



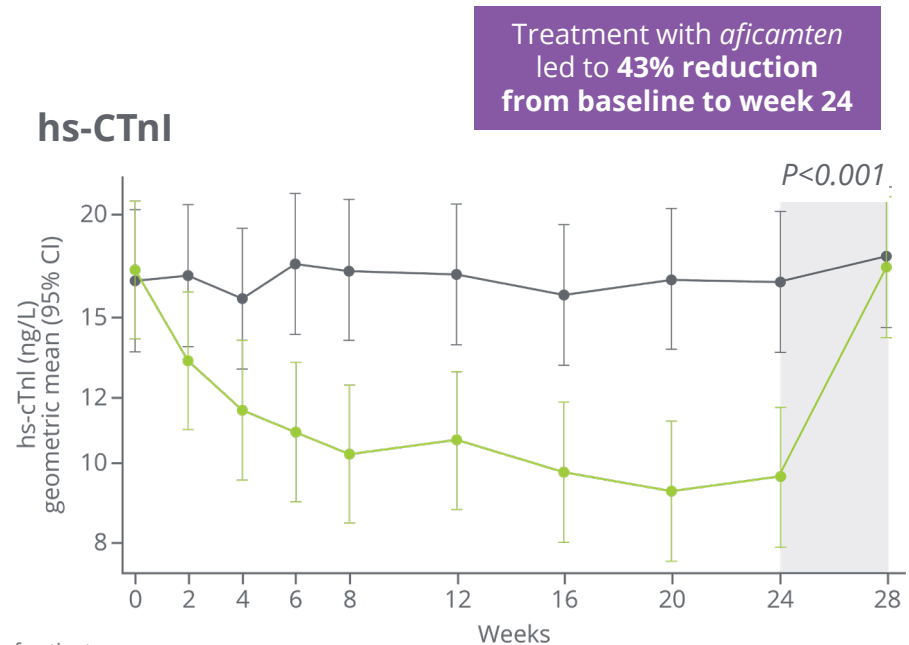
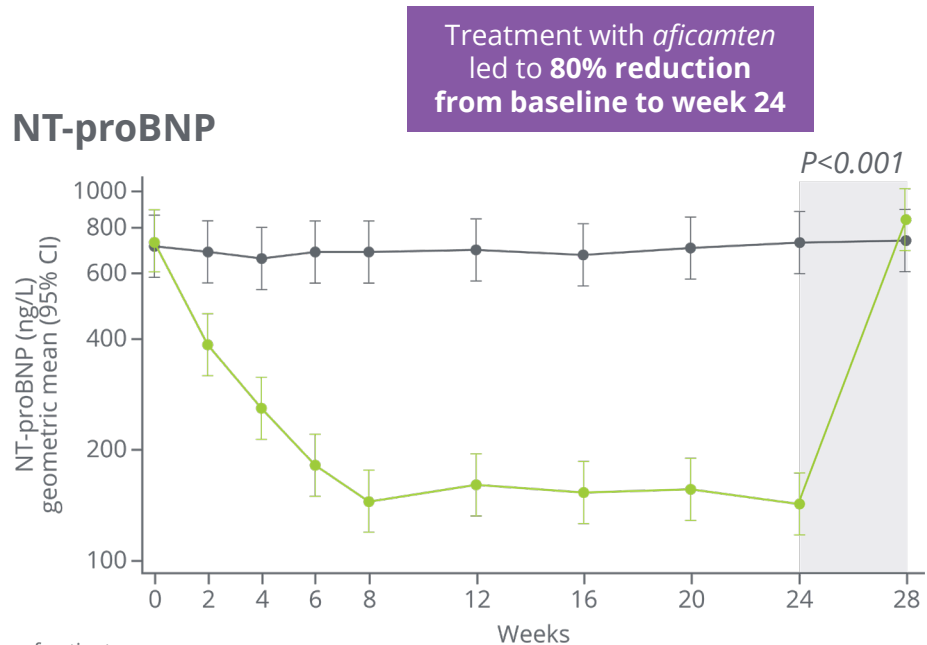
**Mean difference between *aficamten* & placebo = 7.8 points**  
  
**31% on *aficamten* vs. 14% on placebo had an improvement of ≥20 points**

**Aficamten is an investigational drug and is not approved by any regulatory agency. Its safety and efficacy have not been established.**  
 Maron M. "Aficamten for the Treatment of Symptomatic Obstructive Hypertrophic Cardiomyopathy". ESC Heart Failure 2024.  
 Sherrod C, et al. Effect of Aficamten on Health Status Outcomes in Obstructive Hypertrophic Cardiomyopathy: Results from SEQUOIA-HCM. JACC. 2024.

# SEQUOIA-HCM: Improvement in Biomarkers



Significant improvement in cardiac biomarkers indicative of cardiac wall stress & myocardial injury



No. of patients

Aficamten	139	141	141	139	139	139	137	139	136	135
Placebo	138	138	139	136	137	135	135	137	136	135

No. of patients

Aficamten	139	139	136	134	138	138	135	137	136	134
Placebo	131	129	134	132	133	131	131	134	134	134

■ Aficamten  
● Placebo  
 Washout

*Aficamten is an investigational drug and is not approved by any regulatory agency. Its safety and efficacy have not been established. Coats CJ, et al. Cardiac Biomarkers and Effects of Aficamten in Obstructive Hypertrophic Cardiomyopathy: The SEQUOIA-HCM Trial. Eur Heart J. 2024*

# SEQUOIA-HCM: Responder Analysis



Significant improvement in exercise capacity and symptoms in composite responder endpoint

	Aficamten n=142	Placebo n=140
<b>≥1.5 mL/kg/min increase in pVO<sub>2</sub> and ≥1 NYHA FC improvement or ≥3.0 mL/kg/min increase in pVO<sub>2</sub> and no worsening of NYHA FC, n (%)</b>	60 (42)	19 (14)
≥1.5 mL/kg/min increase in pVO <sub>2</sub> and ≥1 NYHA class improvement	44 (31)	9 (6)
≥3.0 mL/kg/min increase in pVO <sub>2</sub> and no worsening of NYHA class	37 (26)	13 (9)
Both ≥3.0 mL/kg/min increase in pVO <sub>2</sub> and ≥1 NYHA class improvement	21 (15)	3 (2)
<b>Common rate difference vs placebo (95% CI) P value</b>	<b>28.7</b> (18.8, 38.6) <0.0001	

*Aficamten is an investigational drug and is not approved by any regulatory agency. Its safety and efficacy have not been established.  
Maron M. "Aficamten for the Treatment of Symptomatic Obstructive Hypertrophic Cardiomyopathy". ESC Heart Failure 2024.*

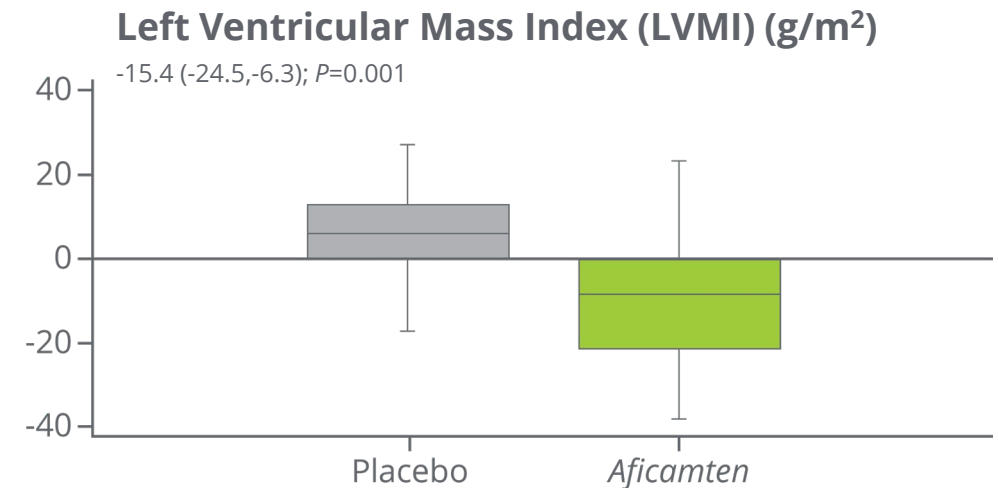
# SEQUOIA-HCM: CMR Sub-Study



*Aficamten* associated with favorable cardiac remodeling

Among 50 of the 284 eligible patients who opted to complete the CMR sub-study there was:

- **Significant improvement in LVMI**
- **Favorable cardiac remodeling** as demonstrated by reductions in:
  - **Left ventricular maximal wall thickness**
  - **Left atrial volume index (LAVI)**
  - **Extracellular volume mass index (ECVi)**



*Aficamten is an investigational drug and is not approved by any regulatory agency. Its safety and efficacy have not been established.*  
Masri A, et al. Effect of Aficamten on Cardiac Structure and Function in Obstructive Hypertrophic Cardiomyopathy: SEQUOIA-HCM CMR Substudy. JACC. 2024.

# SEQUOIA-HCM: Safety Data



**AEs with ≥5% incidence**

**There were no serious adverse cardiovascular events associated with *aficamten* treatment in SEQUOIA-HCM**

Event, n (%)	Placebo (n=140)	<i>Aficamten</i> (n=142)
Overall AEs	99 (70.7)	105 (73.9)
<b>Headache</b>	10 (7.1)	11 (7.7)
<b>Hypertension</b>	3 (2.1)	11 (7.7)
<b>Palpitations</b>	4 (2.9)	10 (7.0)
<b>Upper respiratory infection</b>	12 (8.6)	9 (6.3)
<b>COVID-19</b>	9 (6.4)	8 (5.6)
<b>Dyspnea</b>	8 (5.7)	8 (5.6)
SAEs	13 (9.3)	8 (5.6)
Cardiac AEs	21 (15.0)	24 (16.9)
Discontinuations	4 (2.9)	5 (3.5)
New-onset AF	1 (0.7)	1 (0.7)
Appropriate ICD shock	1 (0.7)	0
LVEF <50% by core laboratory <sup>a</sup>	1 (0.7)	5 (3.5)
Dose reduction based on site-read LVEF <50%	1 (0.7)	7 (4.9)

<sup>a</sup> 1 placebo- and 1 *aficamten*-treated patient overlap with dose reduction based on site-read LVEF <50%.



*Aficamten* is an investigational drug and is not approved by any regulatory agency. Its safety and efficacy have not been established. AE, adverse event; SAE, serious adverse event. Coats CJ. Dosing and Safety Profile of *Aficamten* in Symptomatic Obstructive Hypertrophic Cardiomyopathy. ESC Heart Failure 2024.

# Integrated Safety Analysis

Analysis represents 206 patient-years\* of exposure to *aficamten*



- **<4% of patients** experienced LVEF <50%
- **0 dose terminations** due to LVEF <40%
- **<1% of echocardiograms performed** led to a reduction in dose
- **No difference in atrial fibrillation** between placebo and *aficamten*

	Cumulative <sup>a</sup> <i>aficamten</i> -treated pool	Placebo-controlled pool <sup>b</sup>	
	<i>Aficamten</i>	<i>Aficamten</i>	Placebo
<b>Number of participants</b>	283	170	153
<b>LVEF &lt;50%<sup>c</sup>, n (%)</b>	11 (3.9)	9 (5.3)	1 (0.7)
<b>LVEF &lt;50% with clinical HF</b>	0	0	1 (0.7)
<b>Atrial fibrillation</b>	12 (4.2)	4 (2.4)	5 (3.3)
<b>New onset</b>	5 (1.8)	1 (0.6)	3 (2.0)
<b>Recurrent</b>	7 (2.5)	3 (1.8)	2 (1.3)

<sup>a</sup> Parent and extension studies. <sup>b</sup> Placebo-controlled pool of REDWOOD-HCM and SEQUOIA-HCM. <sup>c</sup> Site read.

\*Median exposure: 6-months, range of exposure: 0-32 months

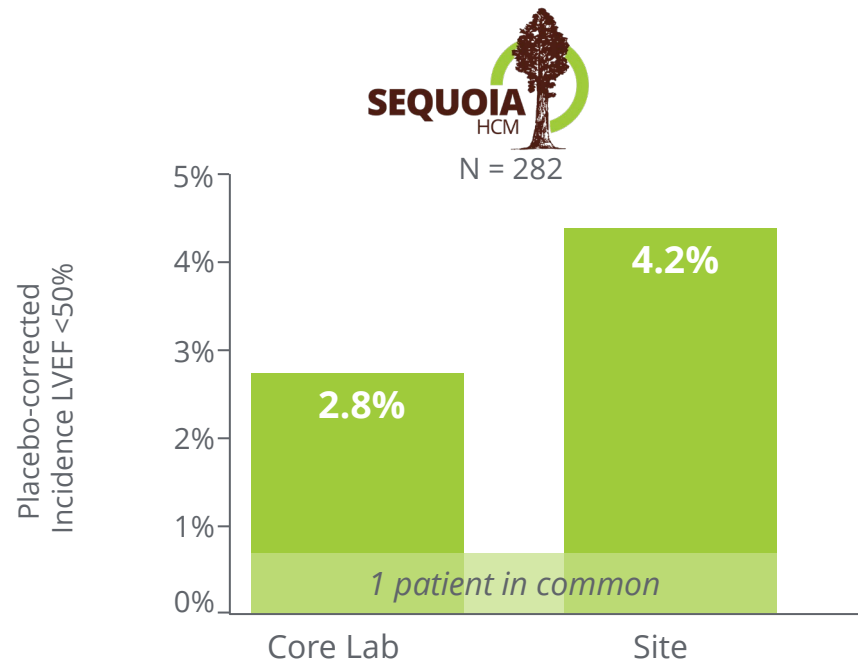
Integrated Safety Analysis to reflect real world clinical application.

*Aficamten is an investigational drug and is not approved by any regulatory agency. Its safety and efficacy have not been established.*  
*IMasri A. Aficamten in Patients with Obstructive Hypertrophic Cardiomyopathy: An Integrated Safety Analysis. ESC 2024.*

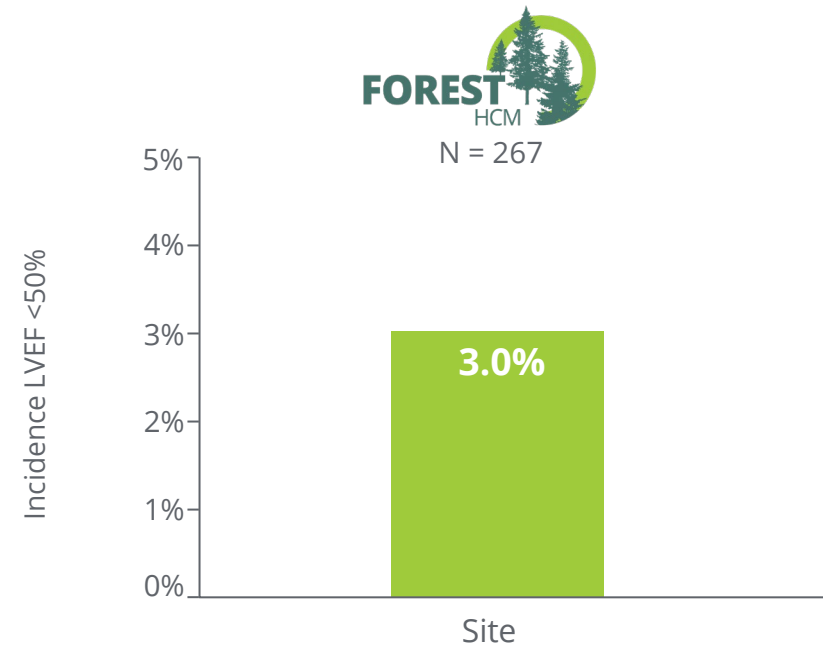


# Implementation of Dosing in Real-World Setting (FOREST-HCM)

## Low incidence of LVEF <50% in patients with oHCM treated with *aficamten*



- ✓ No treatment interruptions
- ✓ No heart failure events
- ✓ All reversible
- ✓ Great majority of patients on highest doses



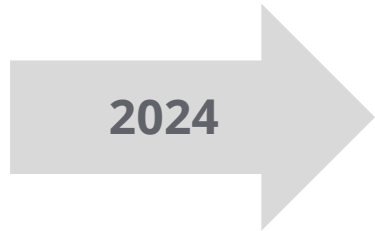
- ✓ No treatment interruptions
- ✓ No heart failure events
- ✓ All reversible
- ✓ Great majority of patients on highest doses

*Aficamten is an investigational drug and is not approved by any regulatory agency. Its safety and efficacy have not been established.*  
SEQUOIA-HCM Source: Coats CJ. Dosing and Safety Profile of Aficamten in Symptomatic Obstructive Hypertrophic Cardiomyopathy. ESC Heart Failure 2024.  
FOREST-HCM Source: Data on file – data cut 15 Apr 24

# Preparing for Regulatory Submissions to FDA, EMA



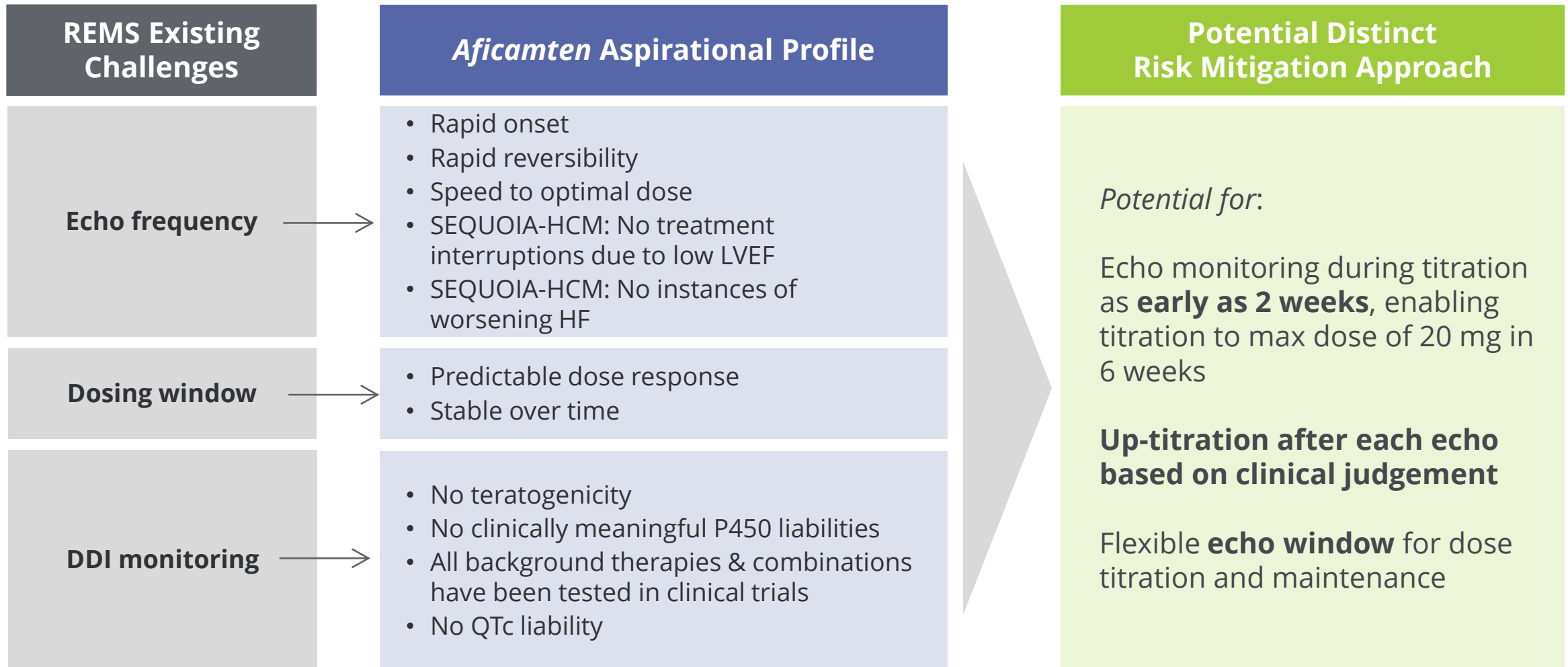
Positive Results from  
SEQUOIA-HCM



- Participated in
  - **Two meetings with FDA** in Q1 2024
  - **Type B meeting with FDA** in Q2 2024
  - **Meetings with EMA** in Q2 2024
- **Expect to submit NDA to FDA** in Q3 2024, **MAA to EMA** in Q4 2024 and coordinate with Ji Xing to submit the **NDA to the CDE** of the NMPA in 2H 2024

*Aficamten is an investigational drug and is not approved by any regulatory agency. Its safety and efficacy have not been established.*

# Aspirational Profile of *Aficamten* & Results from SEQUOIA-HCM Inform Potential Distinct Risk Mitigation



# Ongoing Clinical Trials of *Aficamten*



Pivotal Phase 3 clinical trial of *aficamten* as monotherapy vs. metoprolol in oHCM

**Enrollment Complete**



Pivotal Phase 3 clinical trial in nHCM



Clinical trial in a pediatric population with oHCM

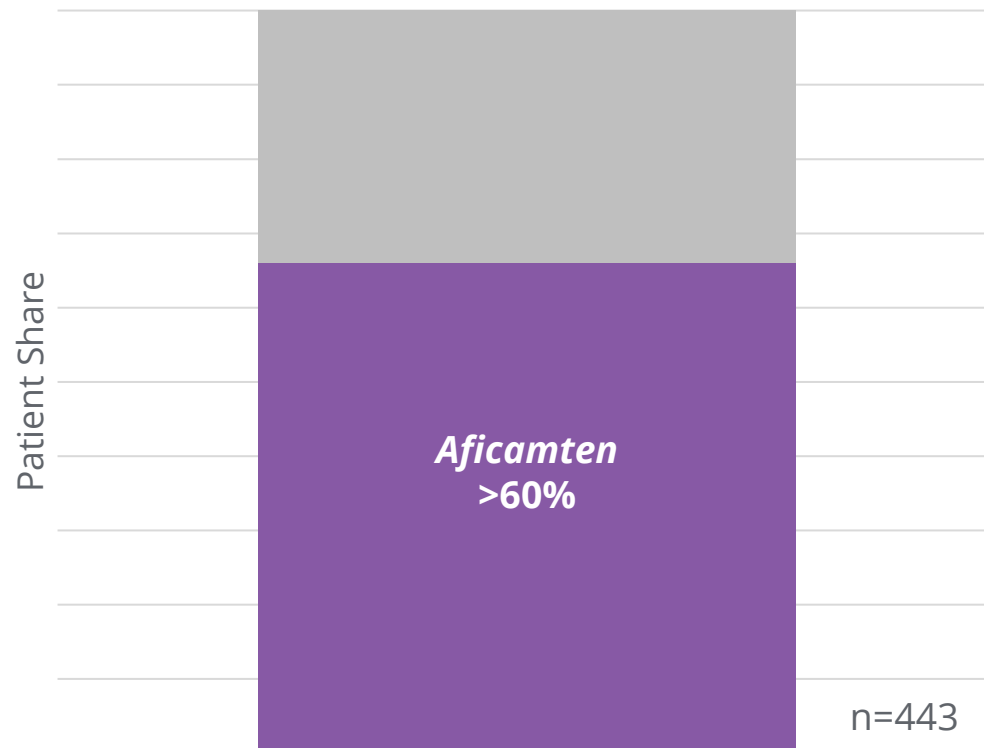


Open-label extension clinical study in HCM

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# Market Research Shows *Aficamten* May Achieve High Share & Grow Category

## oHCM CMI Preference Shares in Eligible Patient Population\*



Survey results are based on the aspirational profile of *aficamten* and if approved, the actual profile could vary materially.

*Aficamten* is an investigational drug and is not approved by any regulatory agency. Its safety and efficacy have not been established.  
Source: *Aficamten* Impact of Product Attributes on Product Preference Share n=443 cardiologists, Quantitative research including conjoint - Cogent

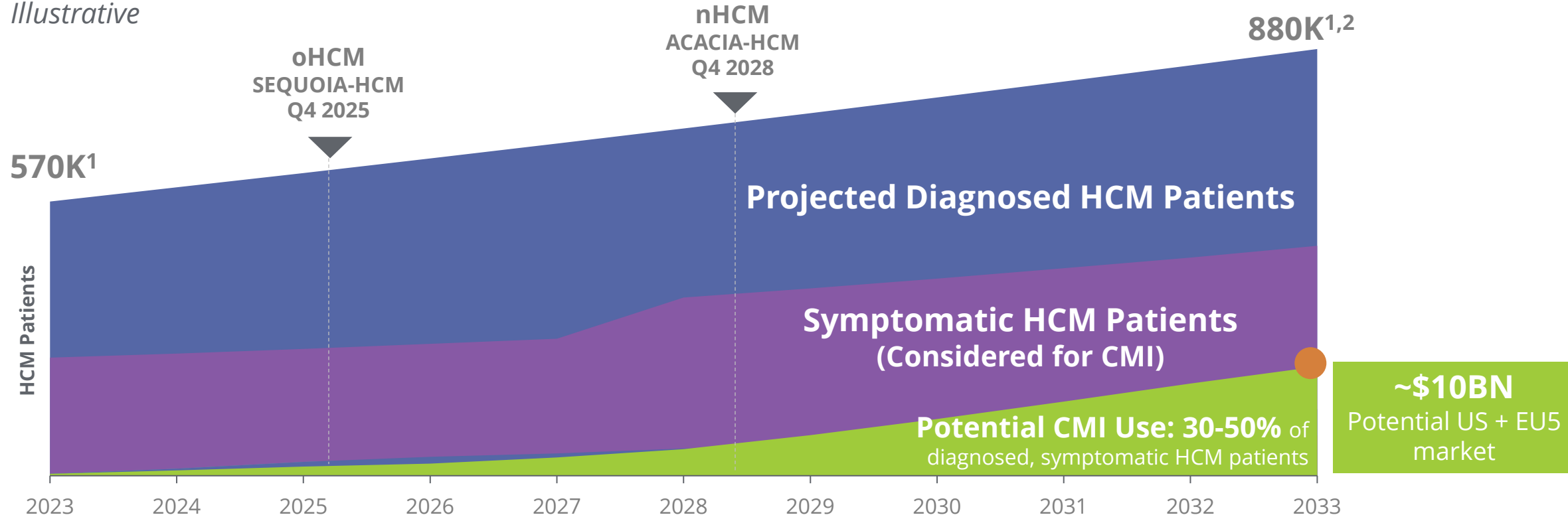
- Potential target product profile for *aficamten* interest creates **share opportunity** in newly treated CMI patients
- *Aficamten* could also be **expected to expand the total CMI market**
- Key attributes that may drive preference include the potential for:
  - LVOT gradient reduction
  - Change in NYHA Functional Class
  - Pharmacodynamics/LVEF maintenance
  - Change in KCCQ
  - Absence of DDI

# If Aficamten is Approved, Expect Majority of CMI-Eligible Patients Available at Launch

## Diagnosis of HCM anticipated to grow 5x the rate of the general U.S. population

### US + EU5 HCM Patients (in 000s)

Illustrative



Aficamten is an investigational drug and is not approved by any regulatory agency. Its safety and efficacy have not been established.

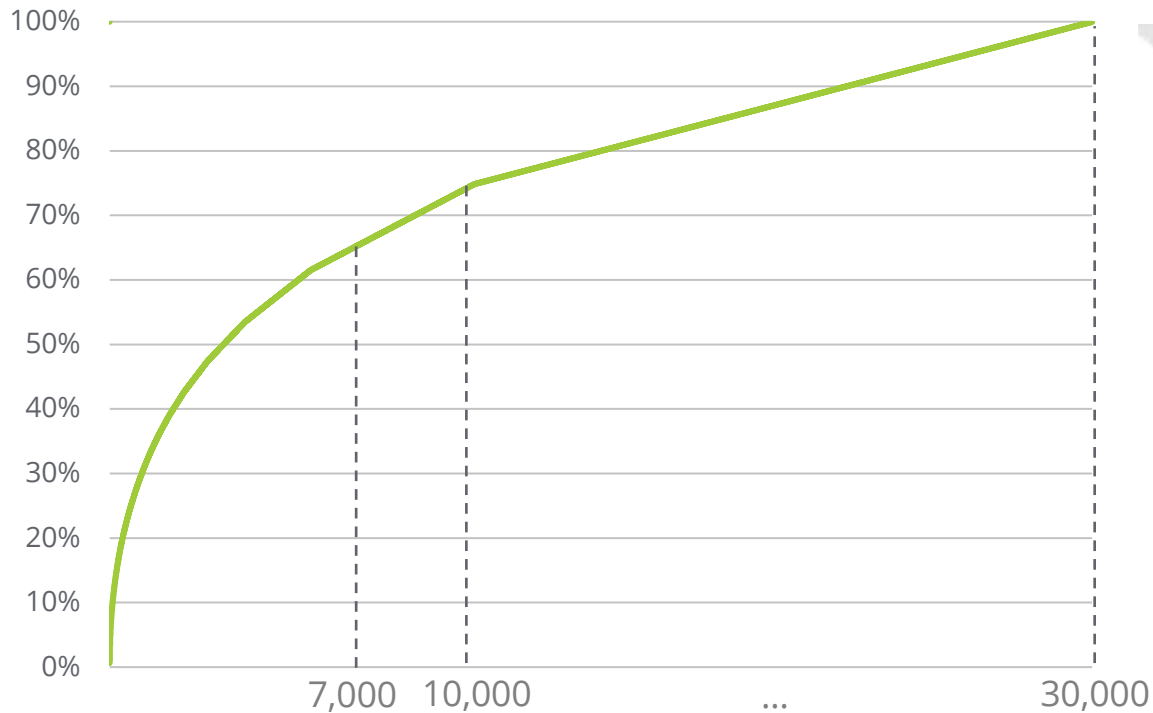
**Projections and forecasts for illustration**

1. DoF internal projections based on Maron B., Ethan J. R., Maron M.: Global Burden of Hypertrophic Cardiomyopathy, JACC: Heart Failure, Volume 6, Issue 5, 2018, Pages 376-378. <https://doi.org/10.1016/j.jchf.2018.03.004>; SHA; Symphony PTD (Patient Transaction Data): Includes patients diagnosed since 2016 and having any HC transaction in the claims data universe in the last year June 2022-May 2023);
2. DoD; Butzner et al 2021 estimates a 8% growth rate in diagnosed HCM patients between 2013-2019 in the US [https://www.ajconline.org/article/S0002-9149\(21\)00783-9/fulltext](https://www.ajconline.org/article/S0002-9149(21)00783-9/fulltext); CYTK is forecasting a 5% diagnosis rate increase in the US and a more conservative 4% growth rate in Europe due to a lack of growth of the overall populations in EU5 countries;
3. Internal forecasts

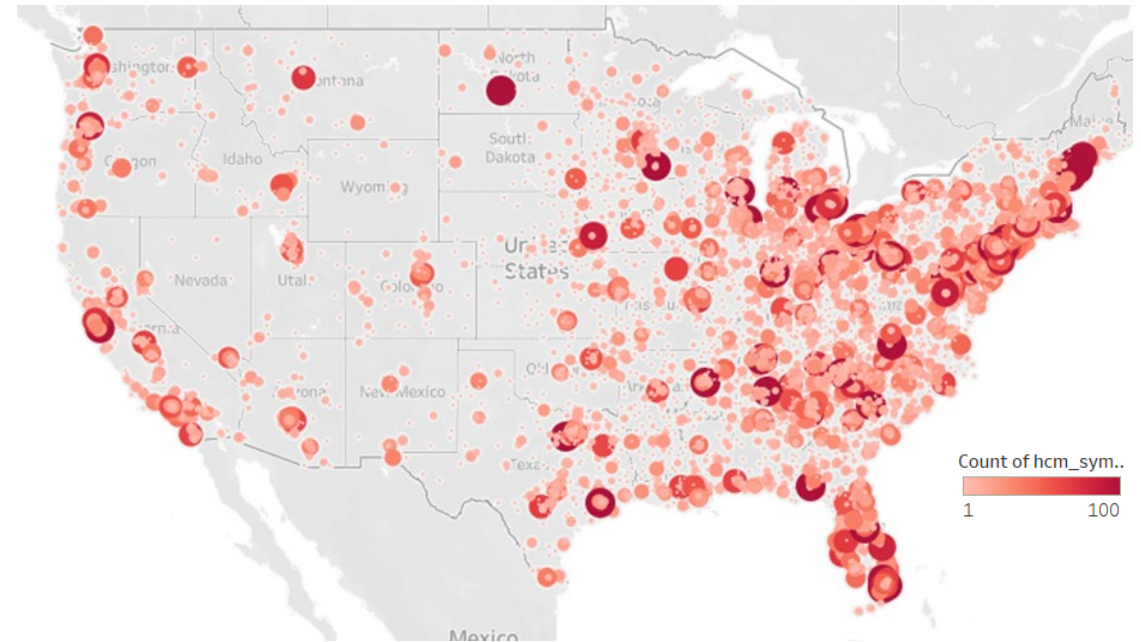
# Cardiologists Located in Concentrated Geographic Clusters Across the US

**~75% of the HCM patient volume is treated by ~10,000 cardiologists**

### HCM Patient Concentration by Cardiologist



### Geographic Distribution of HCM Patients

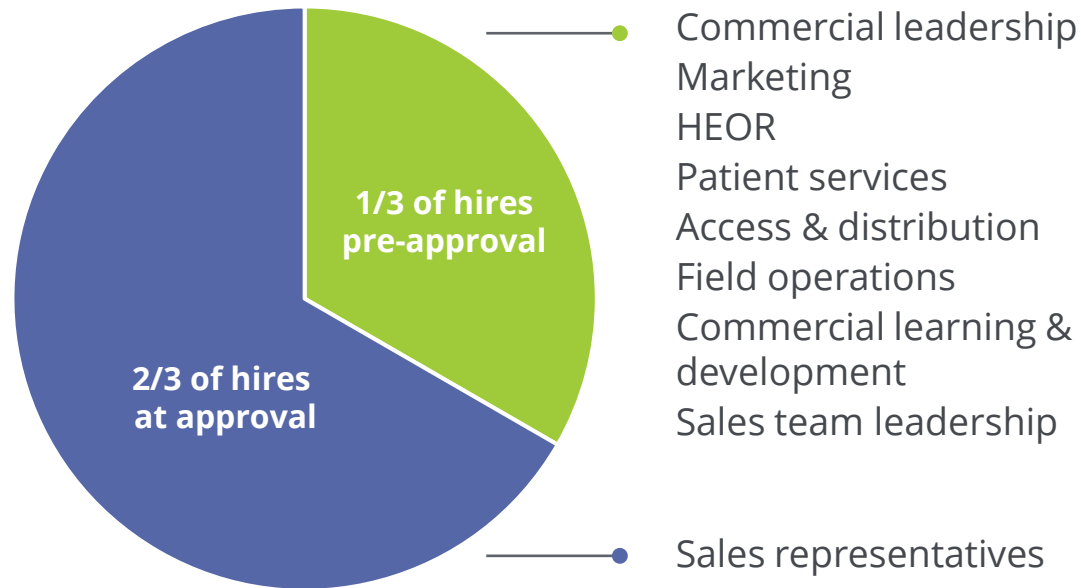


Note: includes only patients who are treated by a cardiologist - not all patients see a cardiologist; sample of 67K HCM patients  
Source: Symphony PTD (Patient Transaction Data); mapping of HCPs to HCOs using Definitive Healthcare Data 2023 and 7/2023 mapping; Patient volume by dominant Cardiologist Location 7/2023  
**Aficamten is an investigational drug and is not approved by any regulatory agency. Its safety and efficacy have not been established.**

# Gated Build of Commercial Infrastructure

Majority of spending to occur closer to potential approval in 2025

## 2/3 of hiring to occur at-approval



## Key activities after SEQUOIA-HCM readout



- Continued insight generation
- Market access strategy validation
- Pricing strategy finalization
- Distribution approach
- Payer engagement
- Brand strategy evolution
- Customer account identification
- Launch campaign development
- Customer Experience
- Payer Pre-approval Information Exchange
- Sales force planning
- Data & Technology Infrastructure build
- Omnichannel execution
- Market development rollout



## Initiated upon FDA approval

- Media purchases
- Patient support programs
- Peer to peer engagement
- HCP Omnichannel launched

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# ***Omecamtiv Mecarbil***

# Omecamtiv Mecarbil: Potential for High-Risk Severe HF Patients Despite GDMT

## Advancing efficient, pragmatic Phase 3 clinical trial

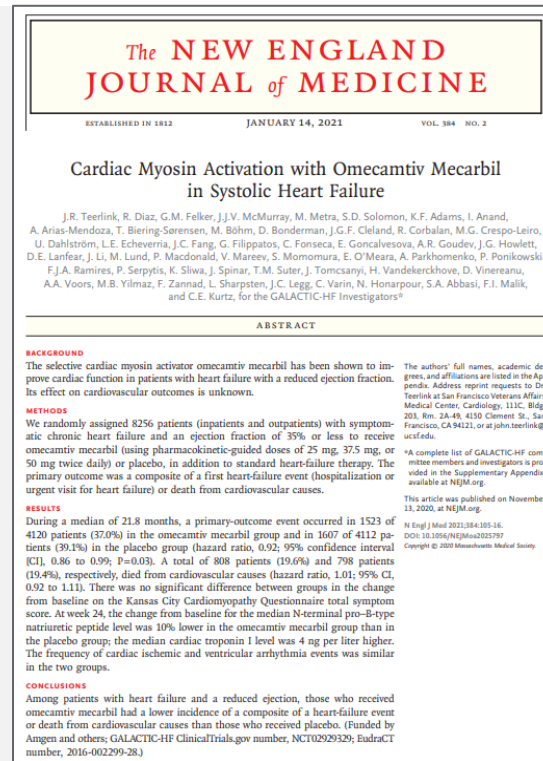
### High Unmet Need

The large and growing heart failure population faces frequent hospitalizations, high mortality rates, comorbidities, and challenges staying on GDMT. Despite SGLT2 inhibitors, patients remain at significant risk.

### Market Opportunity

18% of 7.1M patients with HFrEF have worsening heart failure (LVEF <30%)

Estimated 8+ years of market exclusivity



### Ph 3 clinical trial results in 8,000 patients point to important treatment benefit

Planning confirmatory Ph 3 trial, n= ~2,000, ~3 years to completion

Primary endpoint: time to CV death, HF events, transplant/LVAD, or stroke

Larger treatment benefit in patients with lower LVEF and other markers of advanced HF

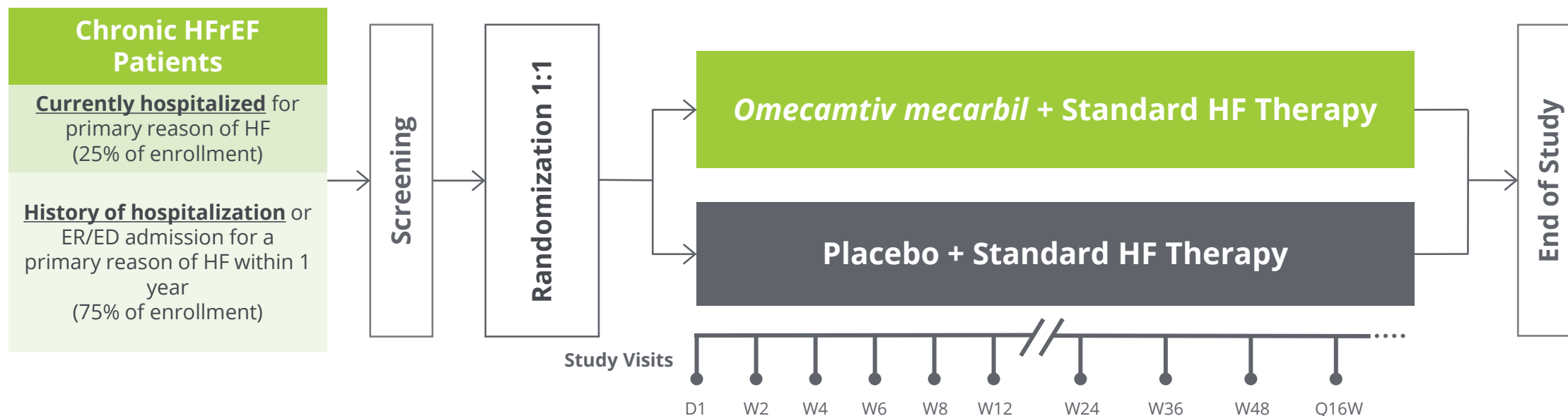
Pragmatic design elements including EHR screening, limited monitoring visits, remove visits, and limited safety labs & AE reporting

Omecamtiv mecarbil is an investigational drug and is not approved by any regulatory agency. Its safety and efficacy have not been established.

# GALACTIC-HF: Clinical Trial Overview

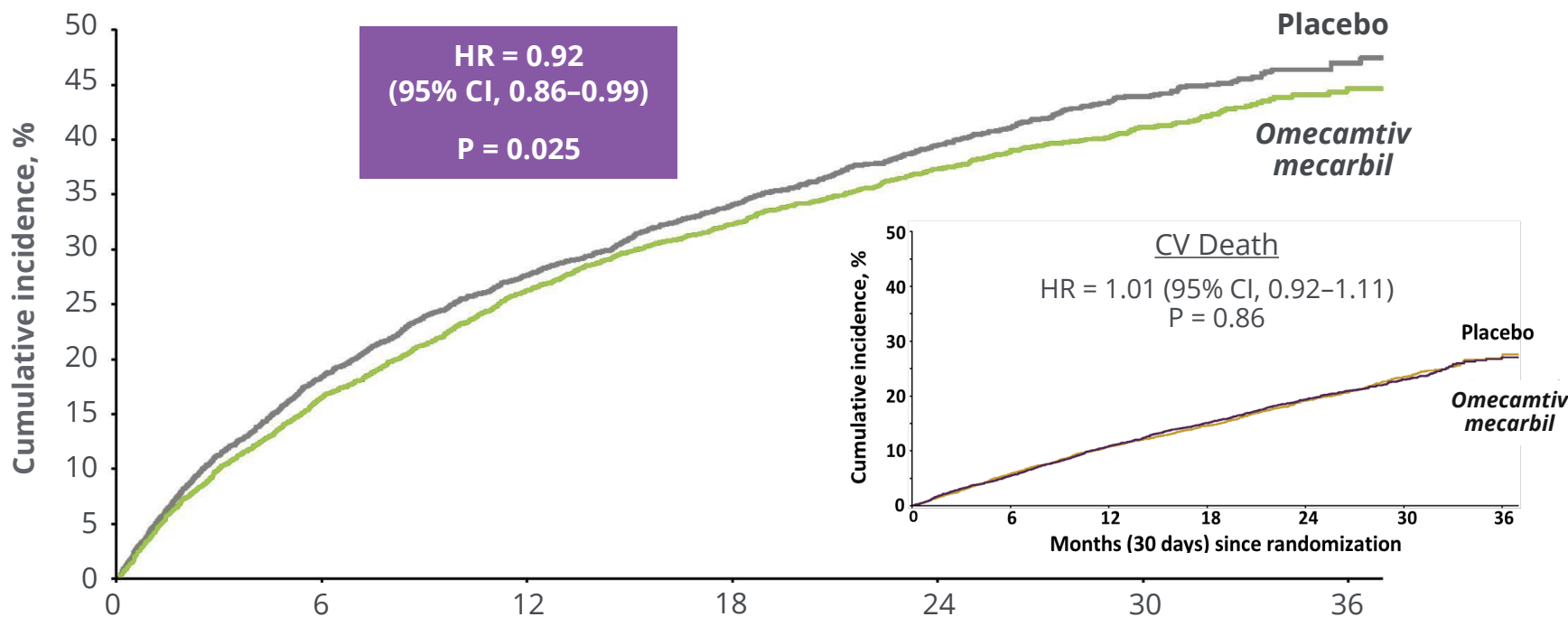
## Phase 3 clinical trial

Event-driven clinical trial; 8,256 patients randomized in 35 countries at 944 clinical trial sites



*Omecamtiv mecarbil is an investigational drug and is not approved by any regulatory agency. Its safety and efficacy have not been established.*

# Primary Composite Endpoint



Patients at risk, n

Months (30 days) since randomization

	0	6	12	18	24	30	36
Placebo	4112	3310	2889	2102	1349	647	141
OM	4120	3391	2953	2158	1430	700	164

Time to first HF event or CV death

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*JOURNAL of* **MEDICINE**

ESTABLISHED IN 1812 JANUARY 14, 2021 VOL. 384 NO. 2

**Cardiac Myosin Activation with Omecamtiv Mecarbil in Systolic Heart Failure**

J.R. Teerlink, R. Diaz, G.M. Felker, J.J.V. McMurray, M. Metra, S.D. Solomon, K.F. Adams, I. Anand, A. Arias-Mendoza, T. Biering-Sorensen, M. Böhm, D. Bonderman, J.G.F. Cleland, R. Corbalan, M.G. Crespo-Leiro, U. Dahlström, L.E. Echeverría, J.C. Fang, G. Filippatos, C. Fonseca, E. González-Vosio, A.R. Goudev, J.G. Howlett, D.E. Lanfear, J. Li, M. Lund, P. Macdonald, V. Mareev, S. Momomura, E. O'Meara, A. Pavlikovskiy, P. Ponikvarski, F.J.A. Ramirez, P. Serpytis, K. Slwa, J. Spinar, T.M. Suter, J. Tomcsanyi, H. Vandekerckhove, D. Vinereanu, A.A. Voors, M.B. Yilmaz, F. Zannad, L. Sharpsten, J.C. Legg, C. Varin, N. Honarpour, S.A. Abbasi, F.I. Malik, and C.E. Kurtz, for the GALACTIC-HF Investigators\*

**ABSTRACT**

**BACKGROUND**  
The selective cardiac myosin activator omecamtiv mecarbil has been shown to improve cardiac function in patients with heart failure with a reduced ejection fraction. Its effect on cardiovascular outcomes is unknown.

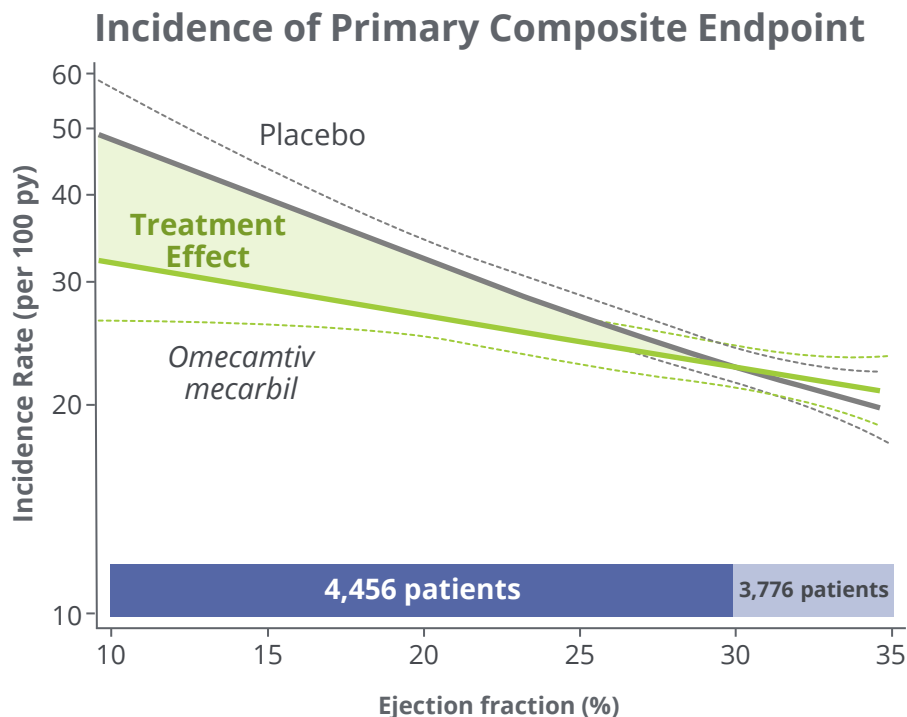
**METHODS**  
We randomly assigned 8256 patients (inpatients and outpatients) with symptomatic chronic heart failure and an ejection fraction of 35% or less to receive omecamtiv mecarbil (using pharmacokinetic-guided doses of 25 mg, 37.5 mg, or 50 mg twice daily) or placebo, in addition to standard heart-failure therapy. The primary outcome was a composite of a first heart-failure event (hospitalization or urgent visit for heart failure) or death from cardiovascular causes.

**RESULTS**  
During a median of 21.8 months, a primary-outcome event occurred in 1523 of 4120 patients (37.0%) in the omecamtiv mecarbil group and in 1607 of 4112 patients (39.1%) in the placebo group (hazard ratio, 0.92; 95% confidence interval [CI], 0.86 to 0.99; P=0.03). A total of 808 patients (19.6%) and 798 patients (19.4%), respectively, died from cardiovascular causes (hazard ratio, 1.01; 95% CI, 0.92 to 1.11). There was no significant difference between groups in the change from baseline on the Kansas City Cardiomyopathy Questionnaire total symptom score. At week 24, the change from baseline for the median N-terminal pro-B-type natriuretic peptide level was 10% lower in the omecamtiv mecarbil group than in the placebo group; the median cardiac troponin I level was 4 ng per liter higher. The frequency of cardiac ischemic and ventricular arrhythmia events was similar in the two groups.

**CONCLUSIONS**  
Among patients with heart failure and a reduced ejection, those who received omecamtiv mecarbil had a lower incidence of a composite of a heart-failure event or death from cardiovascular causes than those who received placebo. (Funded by Amgen and others; GALACTIC-HF ClinicalTrials.gov number, NCT02929329; EudraCT number, 2016-002299-28.)

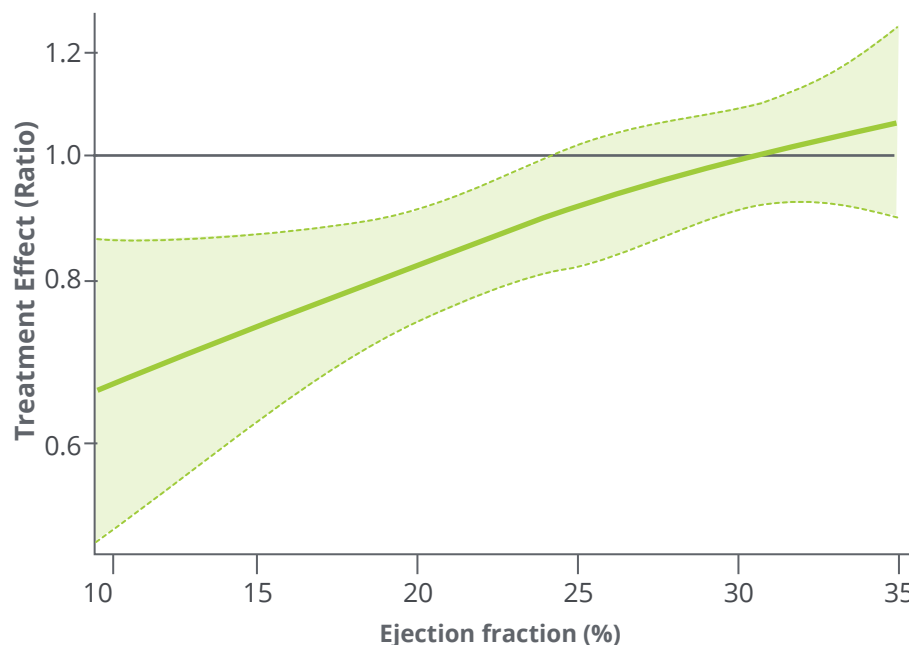
\*A complete list of GALACTIC-HF committee members and investigators is provided in the Supplementary Appendix, available at [nejm.org](http://nejm.org).  
This article was published on November 11, 2020, at [nejm.org](http://nejm.org).  
N Engl J Med 2021;384:103-14.  
DOI: 10.1056/NEJMoa2022797  
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# Benefit Observed to Increase as Baseline LVEF Decreased



Pre-specified Subgroup	Baseline LVEF	≤ median (28%)	0.84 (0.77, 0.92)
		> median (28%)	1.04 (0.94, 1.16)
Interaction P-value = 0.004			

### Relative Treatment Effect on Primary Endpoint



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**JACC**  
 JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY

ORIGINAL INVESTIGATIONS

#### Effect of Ejection Fraction on Clinical Outcomes in Patients Treated With Omeamtiv Mecarbil in GALACTIC-HF

John B. Towhig, MD,<sup>1</sup> Daffar Diaz, MD,<sup>2</sup> G. Michael Felker, MD, MSc,<sup>3</sup> John L.V. McMorris, MD,<sup>4</sup> Marco Merco, MD,<sup>5</sup> Scott D. Solomon, MD,<sup>6</sup> Tor Inge Sørensen, MD, PhD, MPH,<sup>7</sup> Michael Böhm, MD,<sup>8</sup> Hans Bondestam, MD,<sup>9</sup> James C. Fang, MD,<sup>10</sup> David F. Laufer, MD,<sup>11</sup> Mayama Lani, MD,<sup>12</sup> Shin-ichi Momomura, MD,<sup>13</sup> Ellen O'Meara, MD,<sup>14</sup> Piotr Ponikowski, MD, PhD,<sup>15</sup> Jindrich Spinar, MD, PhD,<sup>16</sup> Jose H. Flores-Arreola, MD,<sup>17</sup> Brian L. Claggett, PhD,<sup>18</sup> Stephen B. Heister, MD,<sup>19</sup> Stuart Kaye, MD,<sup>20</sup> Siddique A. Abbas, MD,<sup>21</sup> Yady S. Malik, MD, PhD,<sup>22</sup> on behalf of the GALACTIC-HF Investigators

**ABSTRACT**

**BACKGROUND:** In GALACTIC-HF (Global Approach to Lowering Adverse Cardiac Outcomes Through Improving Contractility in Heart Failure) (n = 8,256), the cardiac myosin activator, omeamtiv mecarbil, significantly reduced the primary composite endpoint (PCE) of time to first heart failure event or cardiovascular death in patients with heart failure and reduced ejection fraction (EF) (< 35%).

**OBJECTIVES:** The purpose of this study was to evaluate the influence of baseline EF on the therapeutic effect of omeamtiv mecarbil.

**METHODS:** Outcomes in patients treated with omeamtiv mecarbil were compared with placebo according to EF.

**RESULTS:** The risk of the PCE in the placebo group was nearly 1.6-fold greater in the lowest EF (< 25%) compared with the highest EF (> 35%) quartile. Amongst the pre-specified subgroups, EF was the strongest modifier of the treatment effect of omeamtiv mecarbil on the PCE (interaction as continuous variable, p = 0.004). Patients receiving omeamtiv mecarbil had a progressively greater relative and absolute treatment effect as baseline EF decreased, with a 17% relative risk reduction for the PCE in patients with baseline EF < 25% (n = 2,216; hazard ratio 0.83, 95% confidence interval 0.71 to 0.98) compared with patients with EF > 35% (n = 1,750; hazard ratio 0.99, 95% confidence interval 0.84 to 1.16; interaction as EF by quartile, p = 0.013). The absolute reduction in the PCE increased with decreasing EF (EF < 25%, absolute risk reduction, 7.4 events per 100 patient-years; number needed to treat for 3 years = 11.8), compared with no reduction in the highest EF quartile.

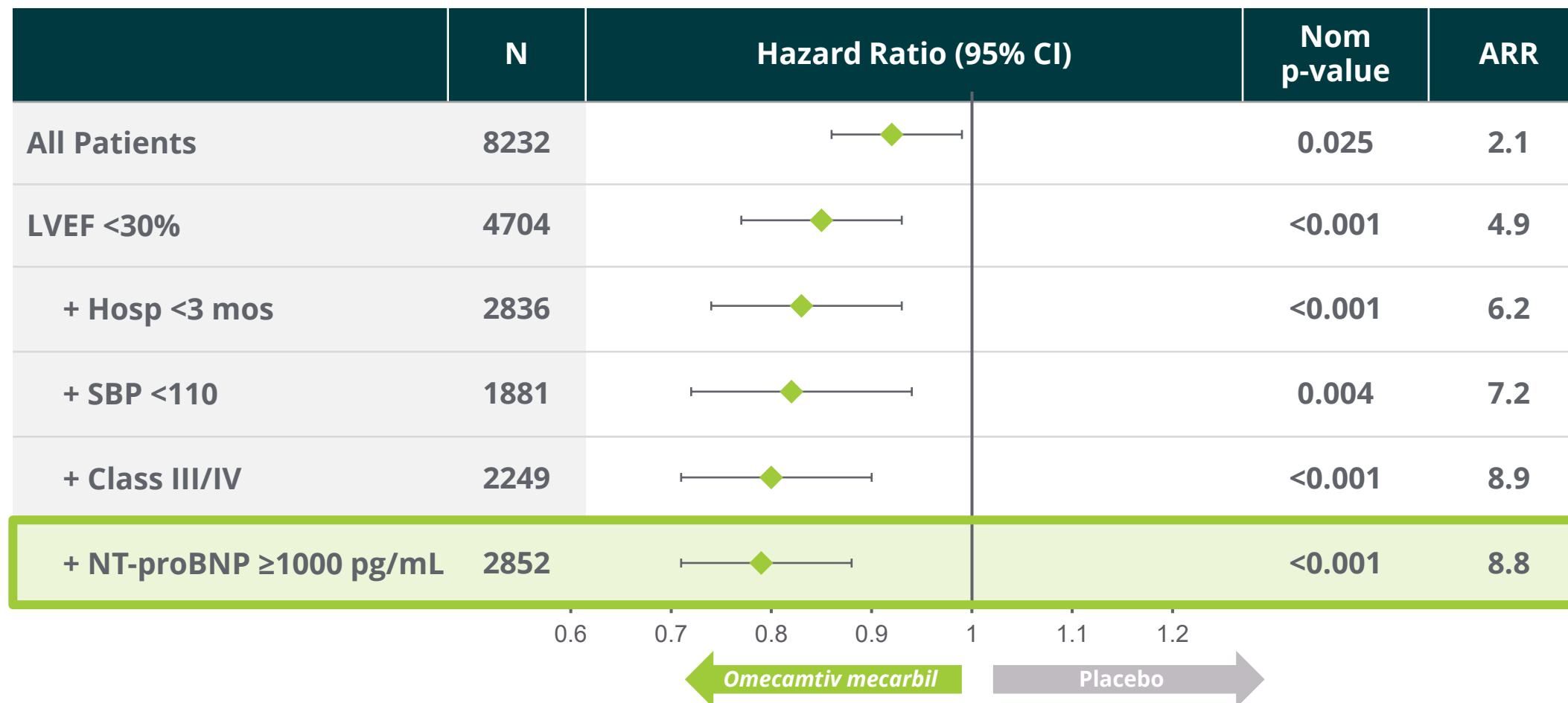
**CONCLUSIONS:** In heart failure patients with reduced EF, omeamtiv mecarbil produced greater therapeutic benefit as baseline EF decreased. These findings are consistent with the drug's mechanism of selectively improving systolic function and presents an important opportunity to improve the outcomes in a group of patients at greatest risk. (Regulatory Study With Omeamtiv Mecarbil [MCM-622] to Treat Chronic Heart Failure With Reduced Ejection Fraction [GALACTIC-HF]; NCT02025272) (Am J Cardiol 2021;128:107-116) Published by Elsevier on behalf of the American College of Cardiology Foundation. This is an open access article under the CC BY-NC-ND license (<http://creativecommons.org/licenses/by-nc-nd/4.0/>).

From the <sup>1</sup>Section of Cardiology, San Francisco Veterans Affairs Medical Center and School of Medicine, University of California San Francisco, San Francisco, California, USA; <sup>2</sup>Respiratory Clinics Latin America (RELA), Buenos Aires, Argentina; <sup>3</sup>Division of Cardiology, Duke University School of Medicine and Duke Clinical Research Institute, Durham, North Carolina, USA; <sup>4</sup>Frank Heart Foundation Cardiovascular Research Centre, University of Glasgow, Glasgow, United Kingdom; <sup>5</sup>Cardiology, KIT (Karlsruhe Institute of Technology), Karlsruhe, Germany; <sup>6</sup>Department of Medical and Surgical Sciences, Radiology, University of Rome, Rome, Italy; <sup>7</sup>Department of Cardiology, Brigham and Women's Hospital and Harvard Medical School, Boston, Massachusetts, USA; <sup>8</sup>Department of Cardiology, Institute of Gerontology & Geriatrics, University of Groningen, Groningen, The Netherlands; <sup>9</sup>Department of Cardiology, University of Copenhagen, Copenhagen, Denmark; <sup>10</sup>School of Medicine, Karolinska Institutet, Stockholm, Sweden; <sup>11</sup>Department of Cardiology, University of Cologne, Cologne, Germany; <sup>12</sup>Department of Cardiology, University of Turin, Turin, Italy; <sup>13</sup>Department of Cardiology, University of Osaka Prefecture, Sakai, Japan; <sup>14</sup>Department of Cardiology, University of Padova, Padova, Italy; <sup>15</sup>Department of Cardiology, University of Wrocław, Wrocław, Poland; <sup>16</sup>Department of Cardiology, University of Medicine and Health Sciences, Hradec Králové, Czech Republic; <sup>17</sup>Department of Cardiology, Universidad de Chile, Santiago, Chile; <sup>18</sup>Department of Cardiology, University of Michigan, Ann Arbor, Michigan, USA; <sup>19</sup>Department of Cardiology, University of Alabama at Birmingham, Birmingham, Alabama, USA; <sup>20</sup>Department of Cardiology, University of California, San Diego, San Diego, California, USA; <sup>21</sup>Department of Cardiology, University of Texas at Dallas, Dallas, Texas, USA; <sup>22</sup>Department of Cardiology, University of California, Los Angeles, Los Angeles, California, USA.

ISSN 0735-1097 <https://doi.org/10.1016/j.jacc.2021.04.005>

Omeamtiv mecarbil is an investigational drug and is not approved by any regulatory agency. Its safety and efficacy have not been established.  
 ARR = Absolute Risk Reduction. RRR = Relative Risk Reduction.  
 Teerlink JR, Diaz R, Felker GM, et al. Effect of Ejection Fraction on Clinical Outcomes in Patients treated with Omeamtiv Mecarbil in GALACTIC-HF. JACC. 2021

# Large Treatment Effect in Easily Defined HF Population



*Omecamtiv mecarbil is an investigational drug and is not approved by any regulatory agency. Its safety and efficacy have not been established.*

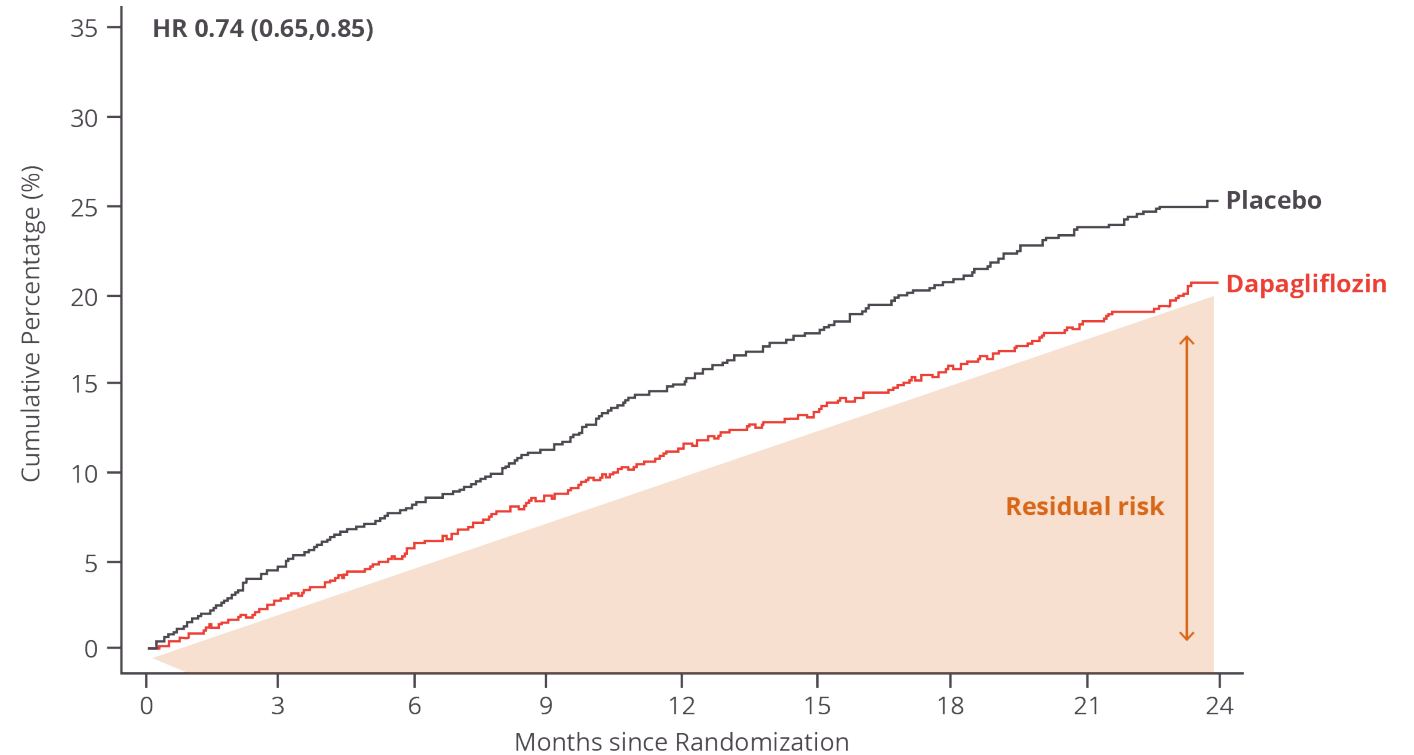
# Residual Risk is High Despite Best Therapy

## DAPA-HF Trial: Patients on GDMT including SGLT2-i

### DAPA-HF trial (dapagliflozin group)

- **Primary endpoint: CV Death/HF hospitalization/urgent HF visit**
- **4744 patients**
- Renin-angiotensin system blocker **94%**
- Dapagliflozin **96%**
- Mineralocorticoid receptor (aldosterone) antagonist **71%**

DAPA-HF Trial Residual Risk



Number at Risk

Dapagliflozin	2373	2305	2221	2147	2002	1560	1146	612	210
Placebo	2371	2258	2163	2075	1917	1478	1096	593	210

McMurray J et al, N Engl J Med. 2019;381:1995-2008

# Omecamtiv Mecarbil: Regulatory Feedback



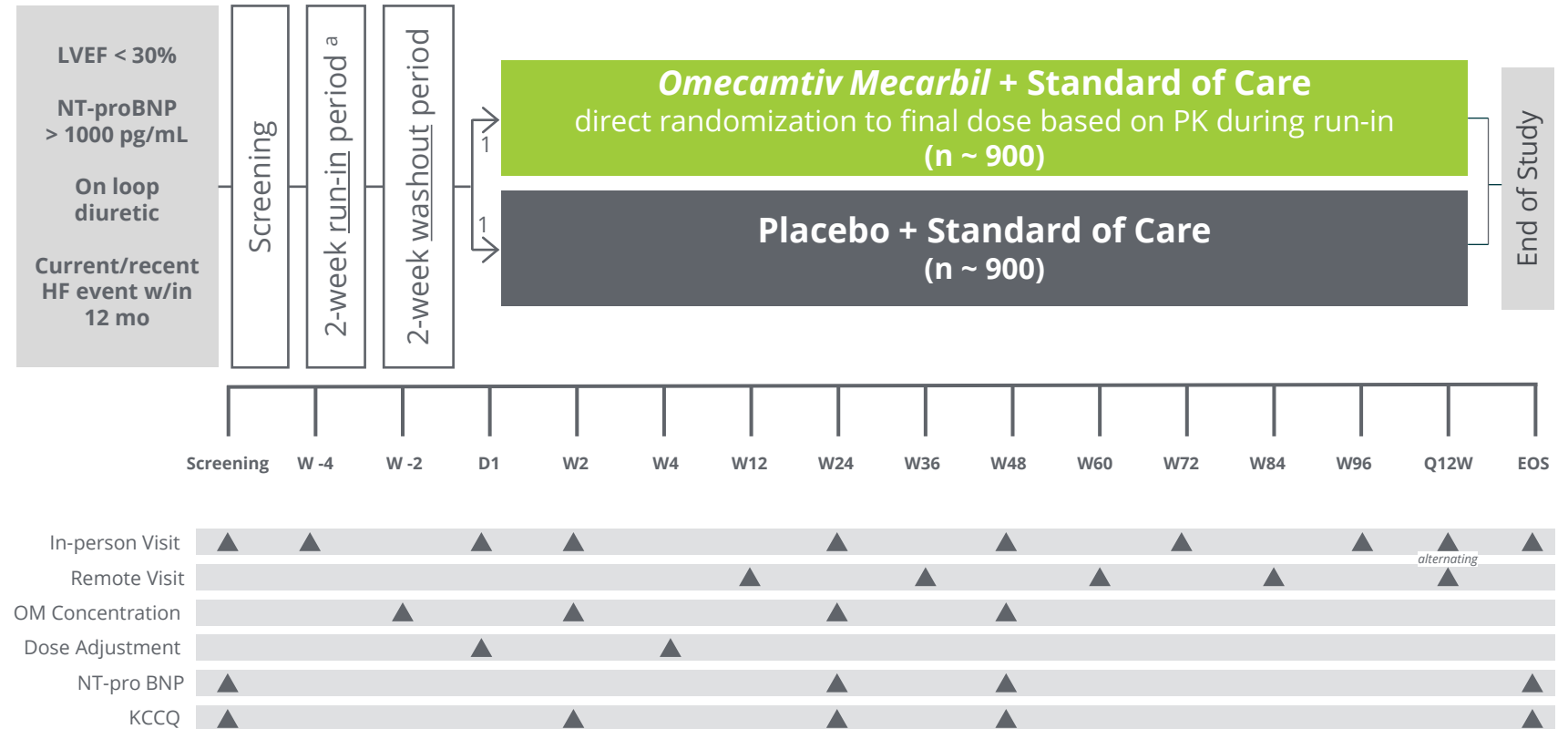
*Omecamtiv mecarbil is an investigational drug and is not approved by any regulatory agency. Its safety and efficacy have not been established.*



# Anticipated Phase 3 Confirmatory Clinical Trial Design

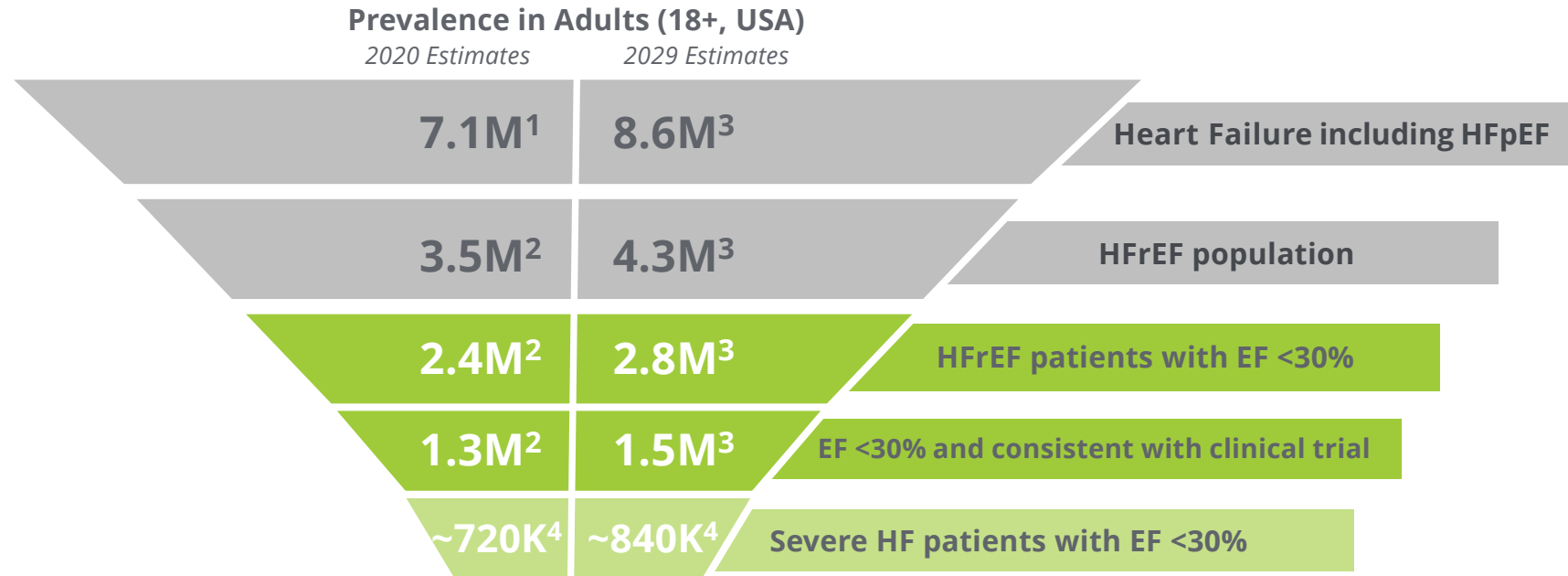
## Trial design to be finalized

- Primary endpoint: **time to CV death, HF events, transplant/LVAD, or stroke**
- **Enriched dosing for adherence**, with OM run-in period. Plan to randomize only those expected to land in therapeutic range
- **Pragmatic design elements:**
  - EHR screening
  - Limit monitoring visits
  - Remote visits
  - Limited safety labs & AE reporting



*Omecamtiv mecarbil is an investigational drug and is not approved by any regulatory agency. Its safety and efficacy have not been established.*

# Large and Growing Target Patient Population in US



<p><b>Proposed Omecamtiv Mecarbil Target Patient</b></p> <p>Patients treated with GDMT and still experiencing severely reduced EF and symptoms of heart failure</p>	<p><b>Cardiac Function</b></p>  <p><b>LVEF &lt; 30%</b></p>	+		<p><b>Symptoms of Severe HF</b></p> <ul style="list-style-type: none"> <li>• HF event* within the last 12 months</li> <li>• Elevated NT-pro BNP</li> <li>• Contraindications limiting GDMT, e.g. hypotension, renal dysfunction or hyperkalemia</li> </ul> <p><small>* HF event: urgent, unscheduled outpatient visit or hospitalization</small></p>
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*Omecamtiv mecarbil is an investigational drug and is not approved by any regulatory agency. Its safety and efficacy have not been established.*

1. Tsao 2023, AHA. Racine 2022 CVrg. Bionest 2021.

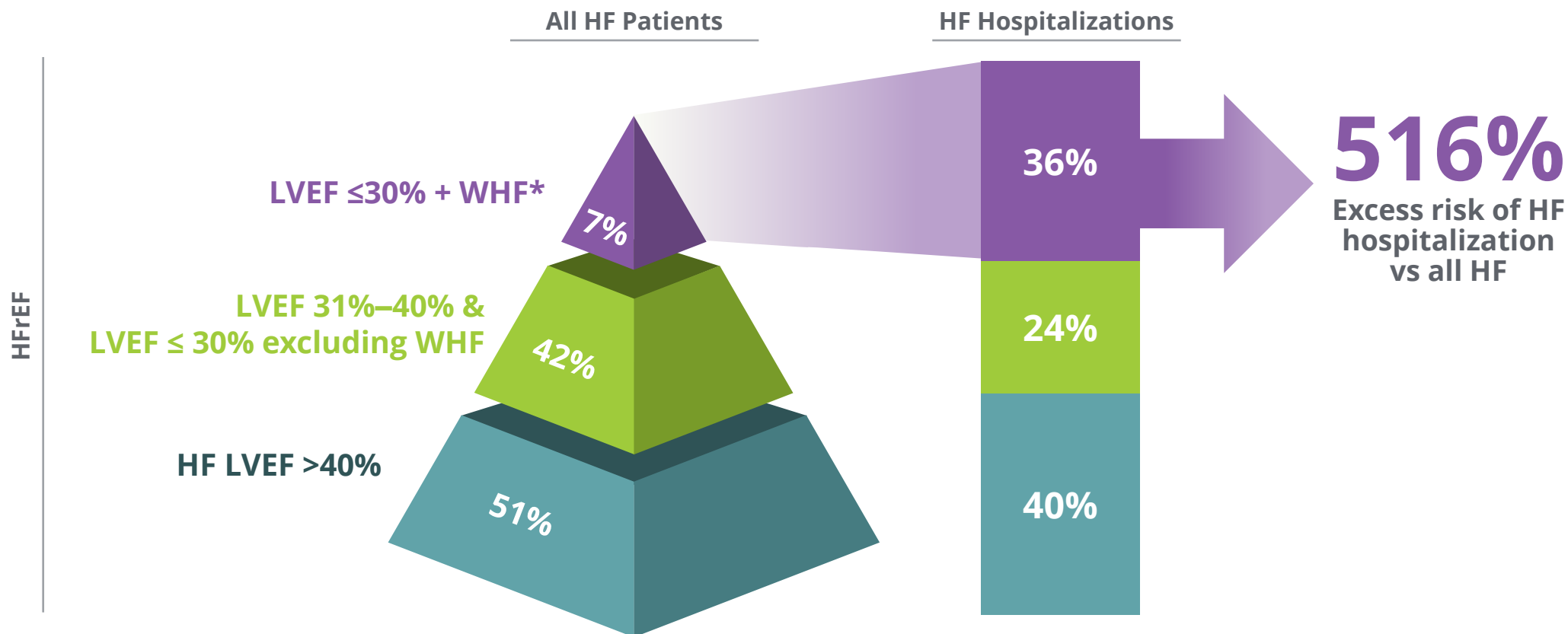
2. Dunlay SM, Roger VL, Weston SA, Jiang R, Redfield MM. Longitudinal changes in ejection fraction in heart failure patients with preserved and reduced ejection fraction. *Circ Heart Fail.* 2012 Nov;5(6):720-6. doi: 10.1161/CIRCHEARTFAILURE.111.966366. Epub 2012 Aug 30. PMID: 22936826; PMCID: PMC3661289.

3. 2.1% annual growth rate: 1.9% annual growth rate of patient population 65+ (UN World Populations Prospects Nov 2019) and a 0.2% mortality impact of HF treatment (doi: 10.1136/bmj.l223 | *BMJ* 2019;364:l223)

4. Greene et al *JACC* 2023; 81:413-424

# Patients with Severe HF at Excess Risk of Hospitalization

HF is #1 cause of 30-day readmission among Medicare beneficiaries<sup>1</sup>



\*Pyramid shows the proportion of patients with HF by subgroups with reduced LVEF. The purple section indicates the group with LVEF ≤30 and WHF. In this study, these patients make up 7% of the population with HF, yet account for an estimated 36% of hospitalizations for HF. WHF = worsening heart failure  
 1. Desai NR, Butler J, Binder G, Greene SJ. Prevalence and Excess Risk of Hospitalization in Heart Failure with Reduced Ejection Fraction. Poster presented at: Heart Failure Society of America (HFSA) Annual Scientific Meeting; 2022 Sep 30-Oct 3; Washington, DC.

# Higher Price Potential in a Narrow, Sicker Patient Population

**Significant clinical need and lack of treatments drives higher price potential**

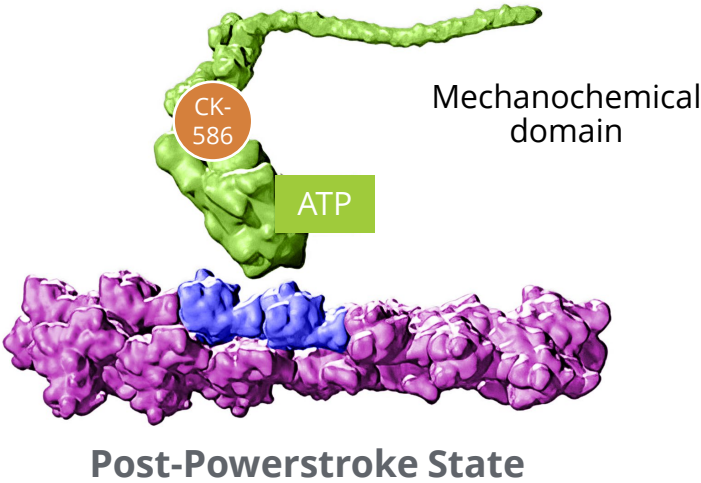
		<b>“Original Potential Label” (GALACTIC-HF)</b>	<b>“Severely Reduced EF”</b>
<b>US Price Potential</b>		Parity to market	Premium to market
<b>Market Insights</b>	<b>Disease Severity</b>	<b>Worsening HF LVEF ≤35</b>	<b>Severe HF LVEF &lt;30</b>
	<b>Payer Positioning</b>	<b>2M+ patients In addition to GDMT</b>	<b>1M+ patients Post tolerated GDMT</b>
	<b>Therapeutic Choices</b>	Limited treatment options	Limited to no treatment options

*Omecamtiv mecarbil is an investigational drug and is not approved by any regulatory agency. Its safety and efficacy have not been established.*

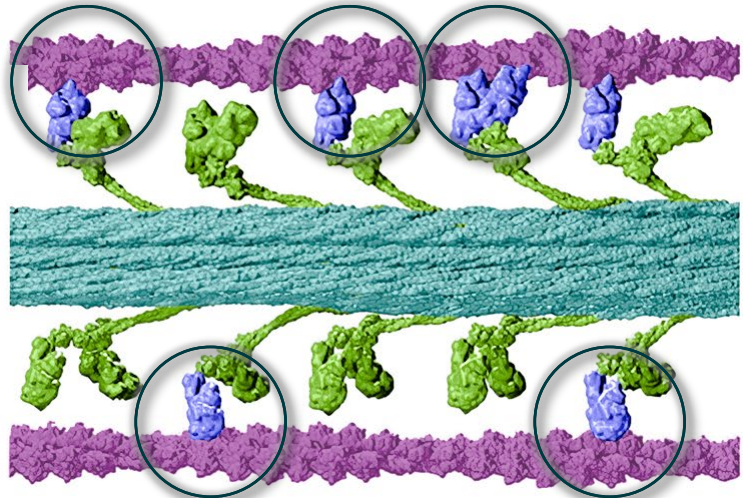
# CK-586

# CK-586: Distinct Mechanism of Action from *Aficamten*

“Fewer hands pulling on the rope”

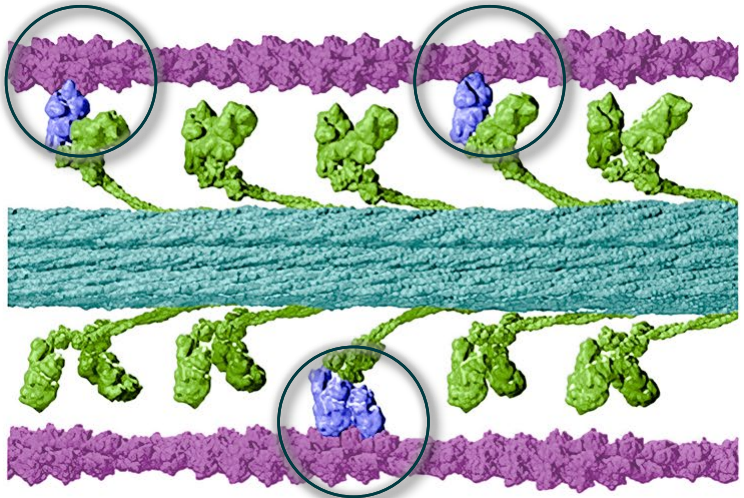


Before CK-586



Actin sliding

After CK-586



Actin sliding

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# Heart Failure with Preserved Ejection Fraction (HFpEF)

Despite broad use of standard treatments and advances in care, the prognosis for patients with heart failure is poor<sup>1</sup>



**8.5 million**

Americans will have heart failure by 2030<sup>2</sup>



**~50%**

HF patients have HFpEF<sup>3</sup> & prevalence of HFpEF is increasing<sup>2,4</sup>



**~75%**

HFpEF patients will die within five years of initial hospitalization<sup>2</sup>



**~84%**

HFpEF patients will be rehospitalized<sup>2</sup>



Subset of HFpEF patients with hypercontractility, ventricular hypertrophy, elevated biomarkers, HF symptoms **may benefit from a cardiac sarcomere inhibitor**

1. Jhund PS, MacIntyre K, Simpson CR, et al. Long-Term Trends in First Hospitalization for Heart Failure and Subsequent Survival Between 1986 and 2003. *Circulation*. 2009;119:515-523.

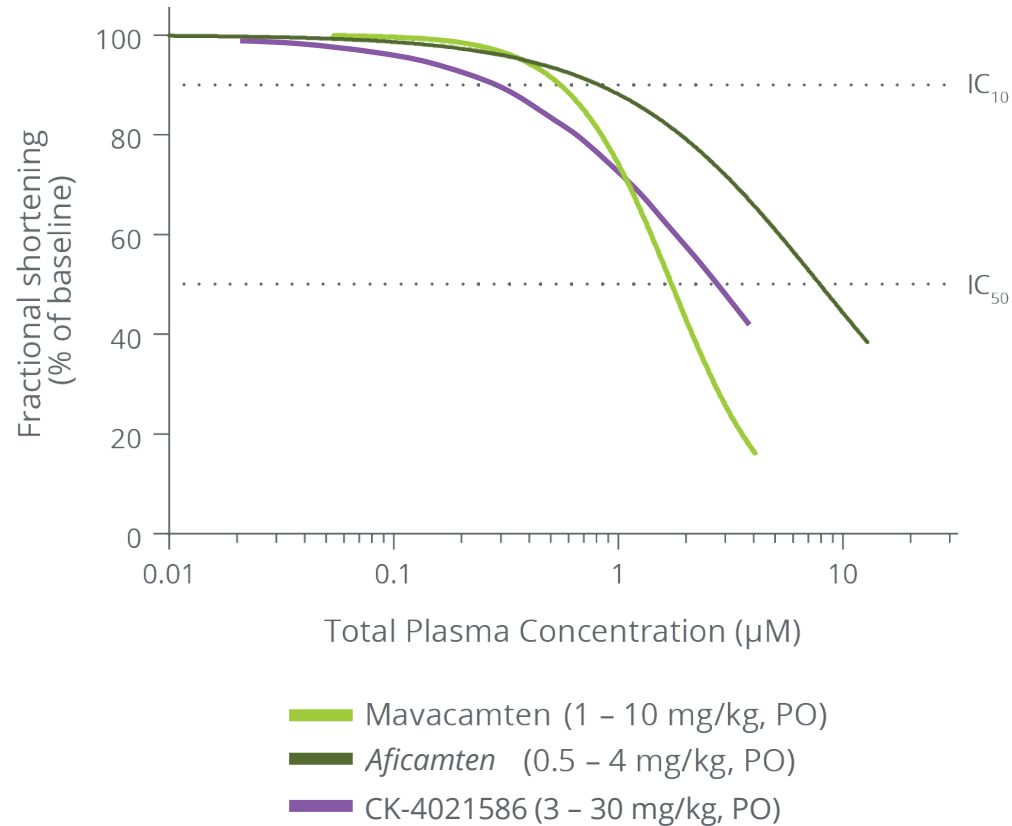
2. Bozkurt B, Ahmad T, Alexander KM, Baker WL, Bosak K, Breathett K, Fonarow GC, Heidenreich P, Ho JE, Hsieh E, Ibrahim NE, Jones LM, Khan SS, Khazanie P, Koelling T, Krumholz HM, Khush KK, Lee C, Morris AA, Page RL 2nd, Pandey A, Piano MR, Stehlik J, Stevenson LW, Teerlink JR, Vaduganathan M, Ziaeian B; Writing Committee Members. Heart Failure Epidemiology and Outcomes Statistics: A Report of the Heart Failure Society of America. *J Card Fail*. 2023 Oct;29(10):1412-1451. doi: 10.1016/j.cardfail.2023.07.006. Epub 2023 Sep 26. PMID: 37797885; PMCID: PMC10864030.

3. Dunlay SM, Roger VL, Weston SA, Jiang R, Redfield MM. Longitudinal changes in ejection fraction in heart failure patients with preserved and reduced ejection fraction. *Circ Heart Fail*. 2012 Nov;5(6):720-6. doi: 10.1161/CIRCHEARTFAILURE.111.966366. Epub 2012 Aug 30. PMID: 22936826; PMCID: PMC3661289.

4. Yancy CW, Jessup M, Bozkurt B, et al. 2013 ACCF/AHA Guideline for the Management of Heart failure: A Report of the American College of Cardiology Foundation/American Heart Association Task Force on Practice Guidelines. *Circulation*. 2013;128:e240-e327.

# CK-586: Shallow *In Vivo* Concentration-Response

CK-586 has a shorter half-life than *aficamten*



Pharmacodynamic window Fractional shortening IC <sub>50</sub> /IC <sub>10</sub> ratio	
mavacamten	2.8x
<i>aficamten</i>	9.9x
CK-586	9.3x

IC<sub>10</sub>: plasma concentration at 10% relative reduction in fractional shortening  
 IC<sub>50</sub>: plasma concentration at 50% relative reduction in fractional shortening

Compound half-life in humans	Actual	Predicted
<i>aficamten</i>	~3 days	2.8 days
CK-586	~15 hours	15 hours

CK-586 is an investigational drug and is not approved by any regulatory agency. Its safety and efficacy have not been established.



# Phase 1 Data Support Advancement to Phase 2 Clinical Trial

Phase 2a dose-finding trial in HFpEF expected to start in Q4 2024

Phase 1 study design: 7 SAD cohorts (10 mg to 600 mg) & 2 MAD cohorts (100 & 200 mg once daily), 10 participants each

- **Less than 24-hour** half-life
- **Shallow and predictable** PK/PD relationship based on LVEF and LVFS
- **Well-tolerated** across all cohorts
- **No serious adverse events** were observed
- **Stopping criteria were not met**

*CK-586 is an investigational drug and is not approved by any regulatory agency. Its safety and efficacy have not been established.*

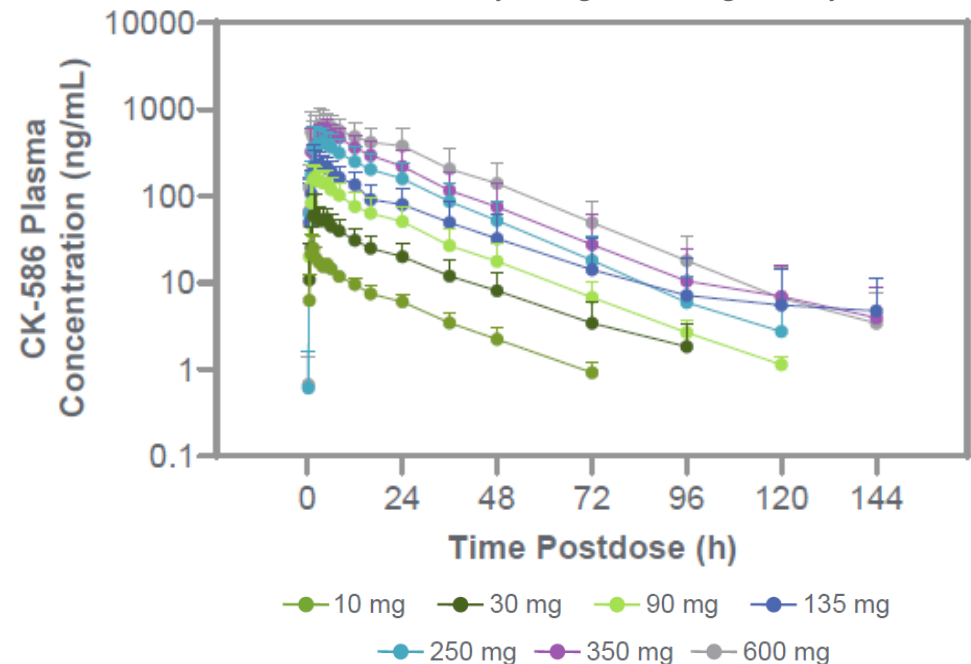
*PK/PD: pharmacokinetic/pharmacodynamic*

*LVEF: left ventricular ejection fraction*

*LVFS: left ventricular fractional shortening*

## Plasma Concentration

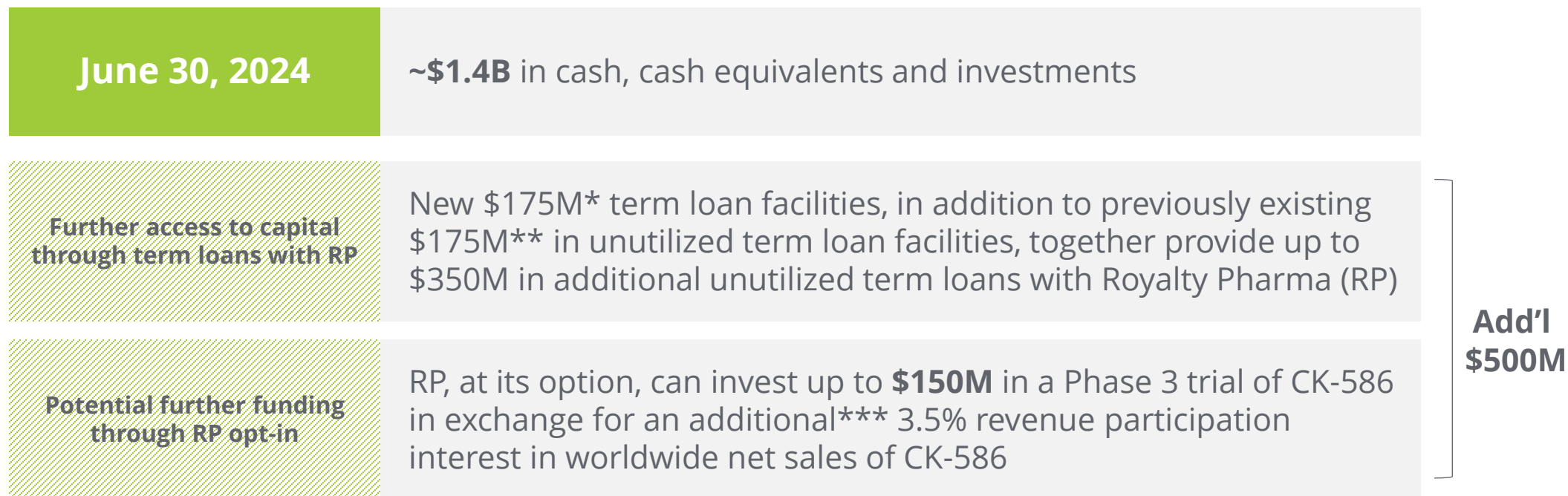
(mean [SD]) over time after single ascending doses of CK-586



# Financials & Milestones

# Strong Financial Position

Strengthened balance sheet & access to capital to execute launch & advance R&D pipeline



\*Tranche 7 Loan: Cytokinetics, at its option, is eligible to draw up to \$175m during the 1-year period following the FDA approval of aficamten for oHCM provided that the NDA is approved on or prior to December 31, 2025.

\*\*Tranche 4 & 5 Loans: Cytokinetics is eligible to draw up to \$75m by April 30, 2025 from tranche 4. The minimum draw for tranche 4 is \$50m. Cytokinetics, at its option, is eligible to draw up to \$100m during the 1-year period following the acceptance of the NDA filing for aficamten provided that the NDA filing is accepted on or prior to March 31, 2025.

\*\*\* Royalty Pharma currently has a revenue participation interest of 1.0% of worldwide net sales of CK-586.

# 2024 Financial Guidance

	Current Guidance Issued on Aug. 8, 2024
GAAP Operating Expense <sup>[1]</sup>	\$555m to \$575m
Non-cash Expense <sup>[2]</sup> <u>Included</u> in GAAP Operating Expense	\$110m to \$105m
Non-GAAP Operating Expense <sup>[3]</sup>	\$445m to \$470m
Net Cash Utilization <sup>[4]</sup>	\$400m to \$420m

The financial guidance does not include the effect of GAAP adjustments caused by events that may occur subsequent to the publication of this guidance including but not limited to business development activities.

<sup>[1]</sup> GAAP operating expense comprised of R&D and G&A expenses.

<sup>[2]</sup> Non-cash operating expense comprised of stock-based compensation and depreciation.

<sup>[3]</sup> Non-GAAP operating expense comprised of R&D and G&A expenses but excludes non-cash operating expense.

<sup>[4]</sup> Net cash utilization is a non-GAAP financial measure that we define as our ending 2023 cash, cash equivalents, and investments balance of \$655 million plus the net proceeds of \$707 million received from the sale of common stock (through the at-the-market facility, public offerings, and stock purchase agreement with Royalty Pharma) plus proceeds of \$200 million received from the structured financing agreement with Royalty Pharma announced on May 22, 2024 minus our projected ending 2024 cash, cash equivalents, and investments balance of between \$1,142 million and \$1,162 million.

# Planned 2024 Milestones

## Aficamten

Submit **NDA to FDA** in Q3 2024, **MAA to EMA** in Q4 2024, and coordinate with Ji Xing to submit **NDA in China** in 2H 2024

Continue conduct of **MAPLE-HCM** in 2024

Continue enrollment of **ACACIA-HCM** in 2024

Continue enrollment of **CEDAR-HCM** in 2024

Continue **Phase 1 study of aficamten** in healthy Japanese volunteers in 2024

## Omecamtiv Mecarbil

Start **Phase 3 clinical trial of omecamtiv mecarbil** in HFrEF in Q4 2024

## CK-586

Initiate **Phase 2a study of CK-586** in Q4 2024

*Aficamten, omecamtiv mecarbil and CK-586 are investigational drugs and have not been approved. Their safety and efficacy have not been established.*



Cytokinetics®

thank  
you



Vi, diagnosed with HCM  
Avonne, diagnosed with HCM  
John, diagnosed with heart failure