



EMPOWERING
MUSCLE
EMPOWERING
LIVES

Sarcomere Directed Therapies



John, diagnosed with heart failure



Jillian, diagnosed with HCM



Chuck, diagnosed with ALS

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 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; projections regarding the size of the addressable patient population for *omecamtiv mecarbil*; Cytokinetics' commercial readiness for *omecamtiv mecarbil*; the likelihood of approval and timing for approval of *omecamtiv mecarbil* or any of our other drug candidates; the submission of a new drug application (NDA) for *omecamtiv mecarbil* in 2H 2021; the timing and results of clinical trials of CK-274, including the expectation of results of REDWOOD-HCM in mid-2021; the commencement of a phase 3 clinical trial of *reldesemtiv* by year end; the timing of any potential commercial launch of our product candidates, if approved; commercial opportunities for our product candidates; Cytokinetics' cash runway; interactions with the FDA; the properties, potential benefits and commercial potential of CK-274, *omecamtiv mecarbil*, CK-136 (AMG 594), *reldesemtiv* and Cytokinetics' other drug candidates. 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”).

Sarcomere Directed Therapies

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.

Our vision is to be the leading muscle biology biopharma company that meaningfully improves the lives of patients with diseases of impaired muscle function through access to our pioneering medicines

Achieve regulatory approvals for at least two drugs arising from our pipeline

Build commercial capabilities to market and sell our medicines reflective of their innovation and value

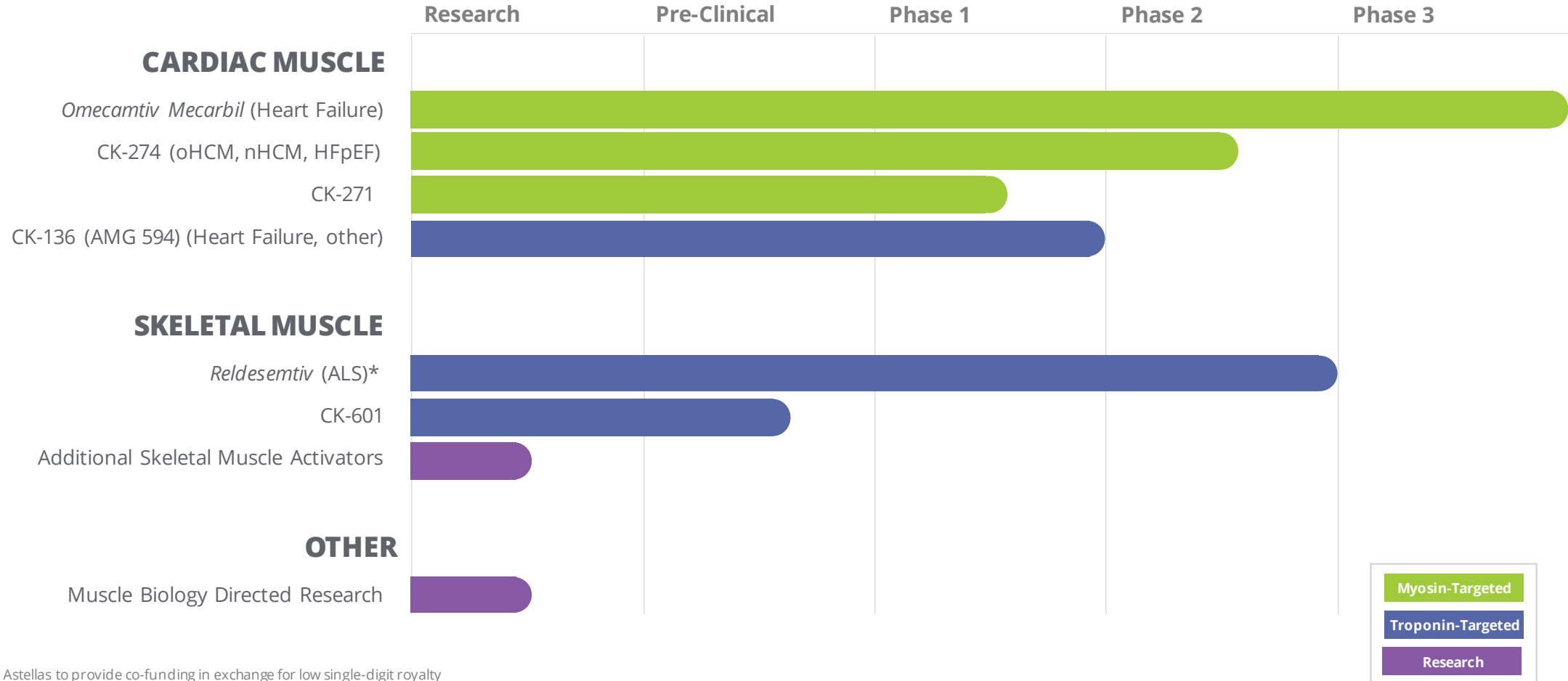
Generate sustainable and growing revenues from product sales

Double our development pipeline to include ten therapeutic programs

Expand our discovery platform to muscle energetics, growth and metabolism

Be the science-driven company people want to join and partner with

Pipeline of Novel Muscle-Directed Drug Candidates



* Astellas to provide co-funding in exchange for low single-digit royalty
All drug candidates above are investigational products and are not approved as safe or effective for any indication.

Sarcomere Directed Drug Development

CARDIAC MUSCLE

Omecamtiv Mecarbil

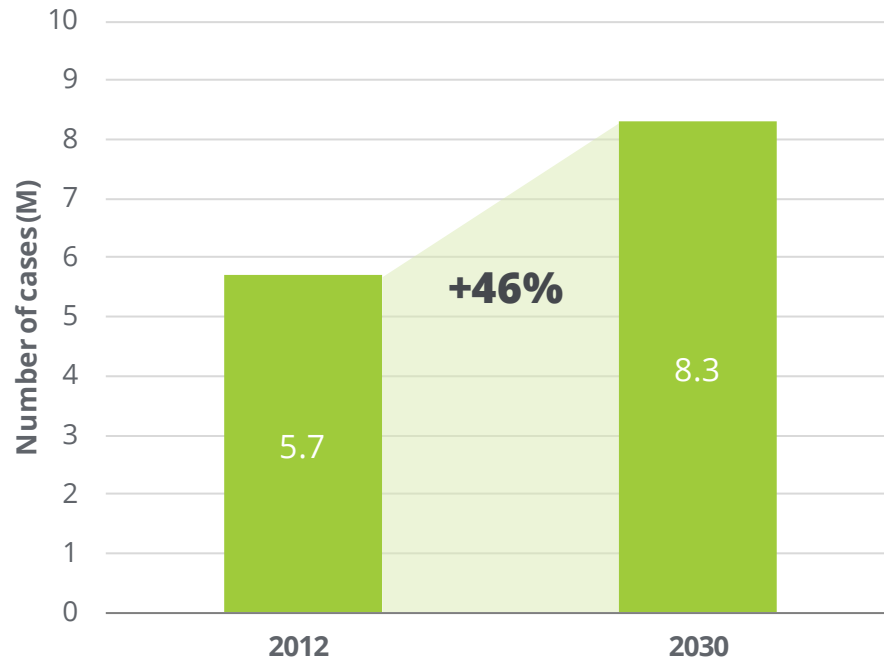
CK-136 (AMG 594)

CK-274, CK-271

Heart Failure: Growing Prevalence and Low Survival Rates

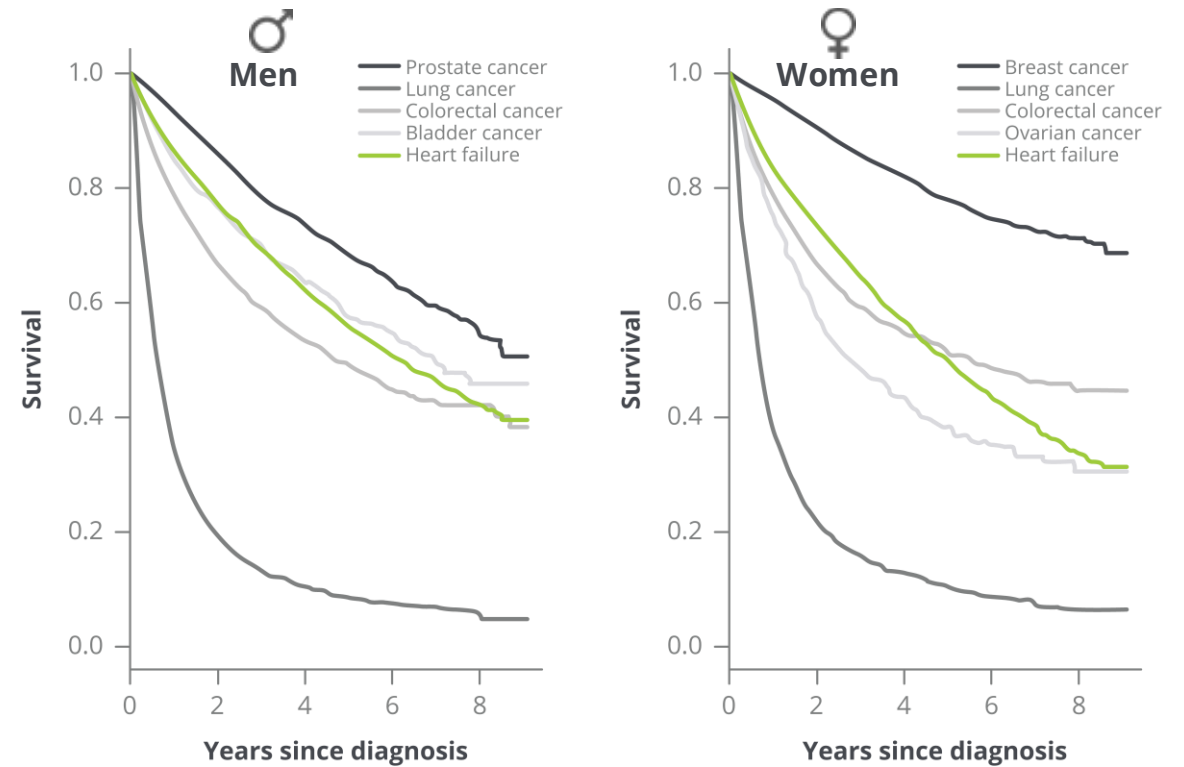
6 million people have heart failure in the United States

Prevalence Expected to Increase by 46% from 2012 – 2030



Mozzafarian, et al. *Circulation* 2016; 133: e38-360

HF Survival Rates Worse than Some Prevalent Cancers



Mamas et al. *Eur J Heart Fail.* 2017 Sep;19(9):1095-104

High Hospital Readmission Rates

Heart failure is one of the most frequent causes of hospitalization in people > 65^{1,2}

**1 of 2
hospitalized
HF patients are
readmitted
within 6 months⁵**



1. Adams et al. *Am Heart J* 2006; 149:209-16

2. Chen et al. *JAMA* 2011;306:1669-78

3. Dickstein et al. *Eur Heart J* 2008;29:2388-442

4. Korda, et al. *BMC Health Serv Res.* 2017;21;17(1):220.

5. Krumholz et al. *Arch Intern Med* 1997;15799 – 105

6. Krumholz et al. *Circ Cardiovasc Qual Outcomes* 2009;2(5):407-13

7. Loehr et al. *Am J Cardiol* 2008;101:1016-22

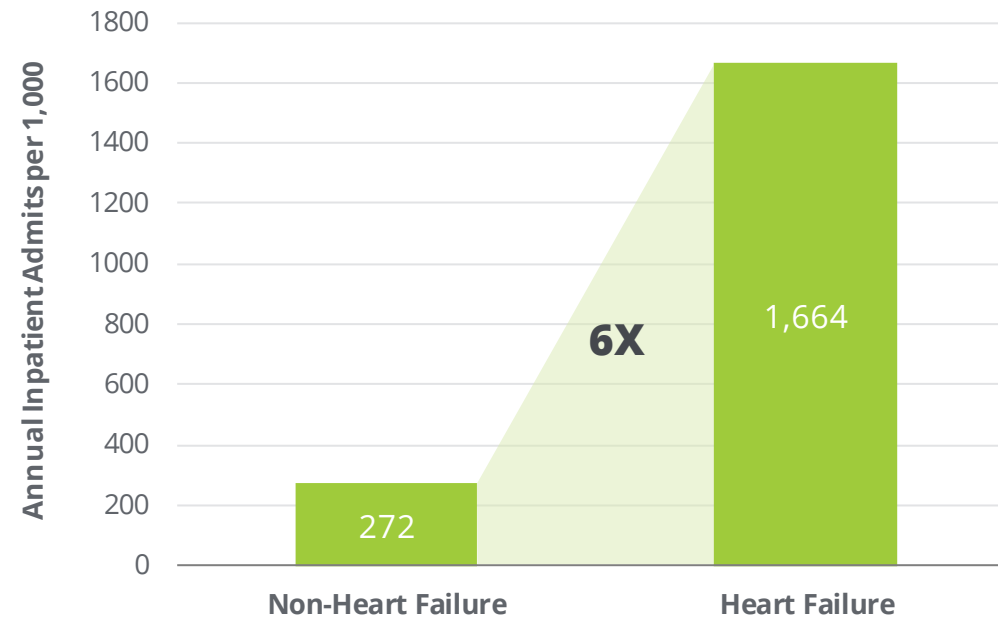
8. Whellan et al. *Circulation* 2010 Jan;3(1):33-40

High Economic Burden of Heart Failure

Heart failure costs ~\$123 billion annually, representing 33% of total Medicare budget^{1,2}

Heart failure is the most frequent diagnosis for hospitalized Medicare patients in the US^{1,2}

Inpatient Admission Rates for HF Patients 6X Higher than Non-HF Patients¹



1. Milliman Analysis of Medicare 5% Sample 2011-2012 (2012 index year, 2011 look back year)

2. Milliman Analysis of Medicare 5% Sample (2014 index year, 2013 look back year) and Office of the Actuary 2016 Board of Trustees Report. The costs only include Part A & B costs

Significant Unmet Need in HFrEF

Proprietary market research suggests need for novel therapy



Market research suggests need for novel therapy

Physicians say newly approved therapies have prolonged survival, decreased hospital visits, but still **see need for other therapies that reduce mortality**



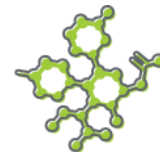
Drugs that do not affect renal function

Most physicians recognize negative effect therapies such as aldosterone antagonists have **on renal function**



Drugs that do not affect BP

BP often limiting factor for up titration and therapy initiation
Need efficacious drugs **that do not result in hypotension**



Drugs that enhance cardiac performance

Need drugs that target **novel/more specific molecular targets**
Need targets other than the neurohormonal pathway



Disease modifying therapies

Need drugs that safely enhance contractility
Increased EF most frequently mentioned desired measure

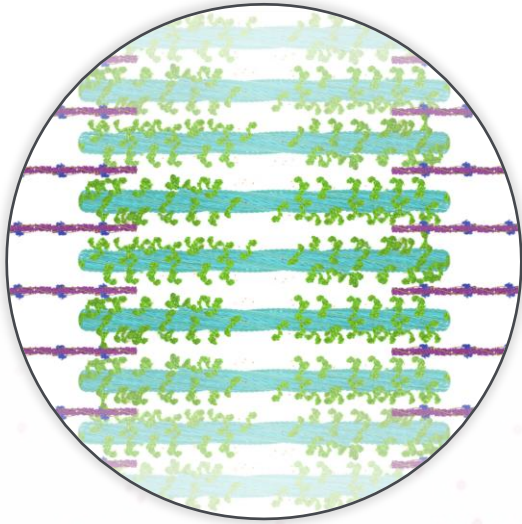


Drugs that increase QoL

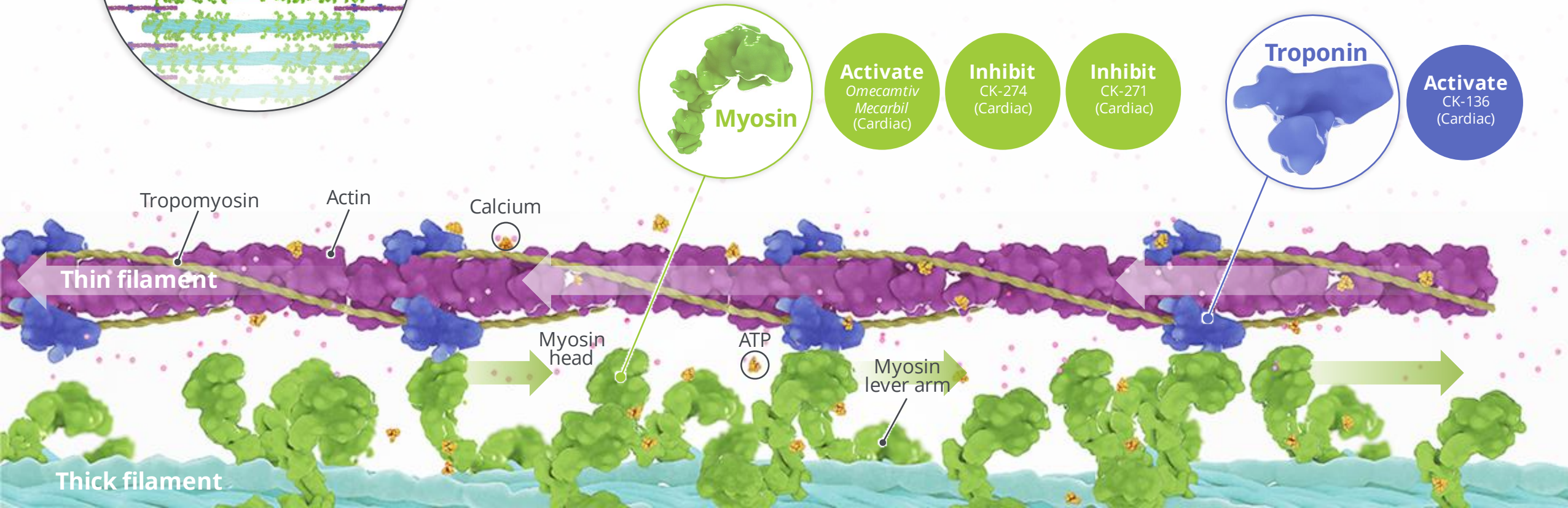
Patient management will improve **with drugs that increase QoL**
Patient QoL decreases as they lose the ability to perform daily tasks

Sarcomere Directed Drug Development

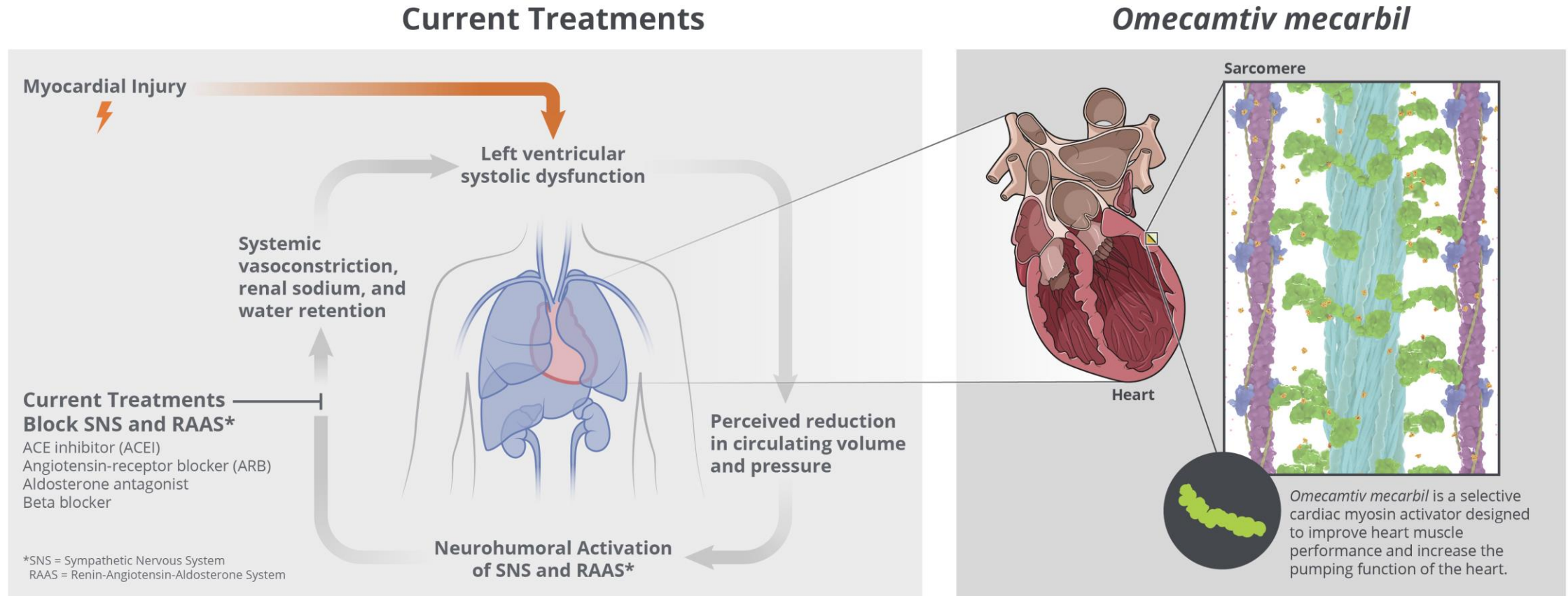
Cardiac muscle



The sarcomere is a molecular structure found in skeletal and cardiac muscle that enables cardiac myocytes to contract and generate force

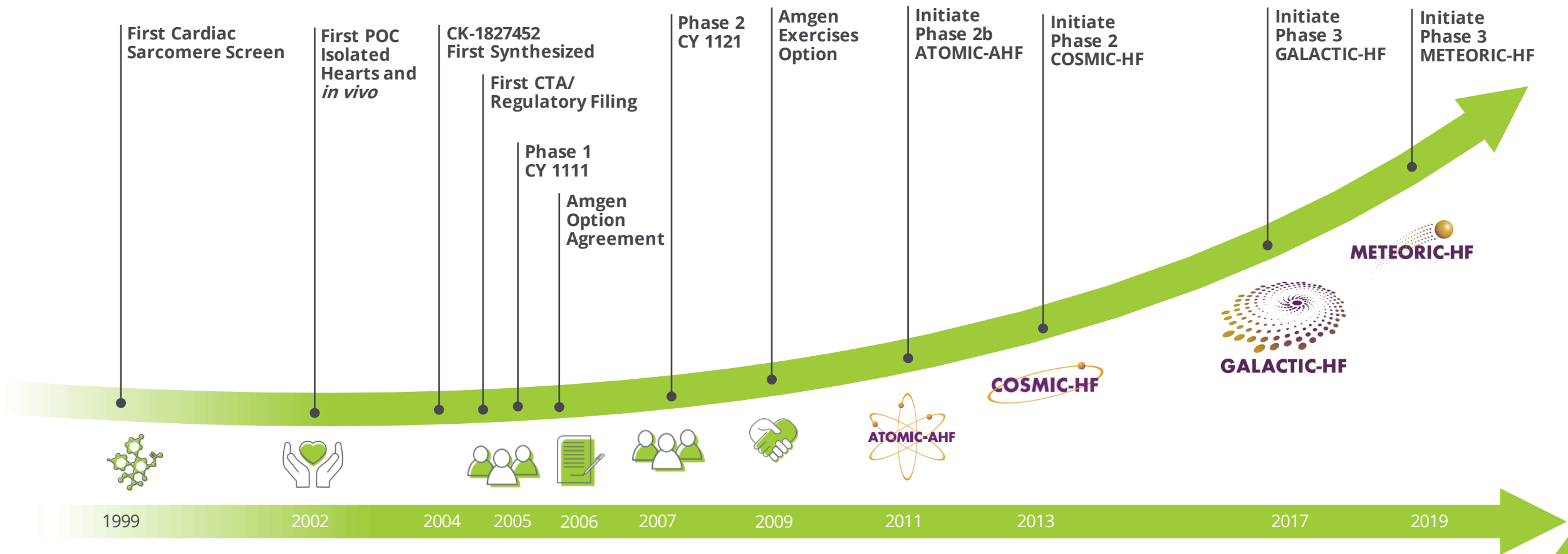


Omecamtiv Mecarbil: Novel Mechanism Approach



Omecamtiv Mecarbil: Positive Phase 3 Trial Results

>30 trials: 23 Phase 1 studies with 600+ participants, 7 Phase 2 trials with 1,400+ patients, 2 Phase 3 trials with 8,000+ patients



Pivotal Phase 3 Trial Design



Landmark clinical trial results published in NEJM

Overview

Enrolled 8,256 patients at ~1,000 sites in 35 countries

Primary Endpoint

Composite of time to cardiovascular (CV) death or first HF event*, whichever occurs first

Secondary Endpoints

- Time to CV death
- Change in Kansas City Cardiomyopathy Questionnaire Total Symptoms Score (KCCQ TSS) from baseline to Week 24
- Time to first HF hospitalization
- Time to all-cause death

Key Design Points

- Dose optimization based on trough concentration of *omecamtiv mecarbil* at 2 weeks and 6 weeks
- High risk patients enrolled from inpatient and outpatient settings
- Designed to provide 90% statistical power to assess risk of CV death

*An HF event defined as the presentation of the subject for an urgent, unscheduled clinic/office/ED visit, or hospital admission, with a primary diagnosis of HF, where the patient exhibits new or worsening symptoms of HF on presentation, has objective evidence of new or worsening HF, and receives initiation or intensification of treatment specifically for HF (Hicks et al, 2015). Changes to oral diuretic therapy do not qualify as initiation or intensification of treatment.

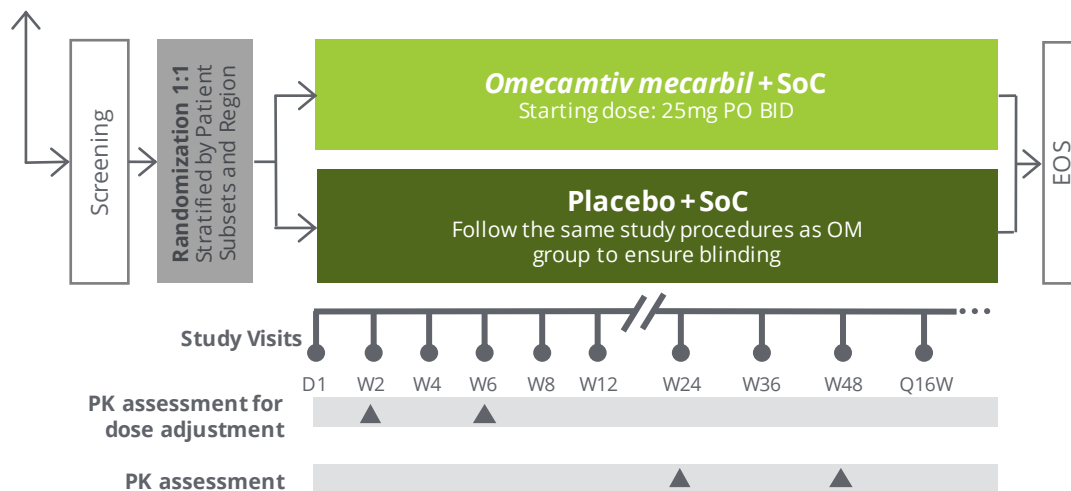
Clinical Trial Overview

Overall median study exposure was 21.8 months

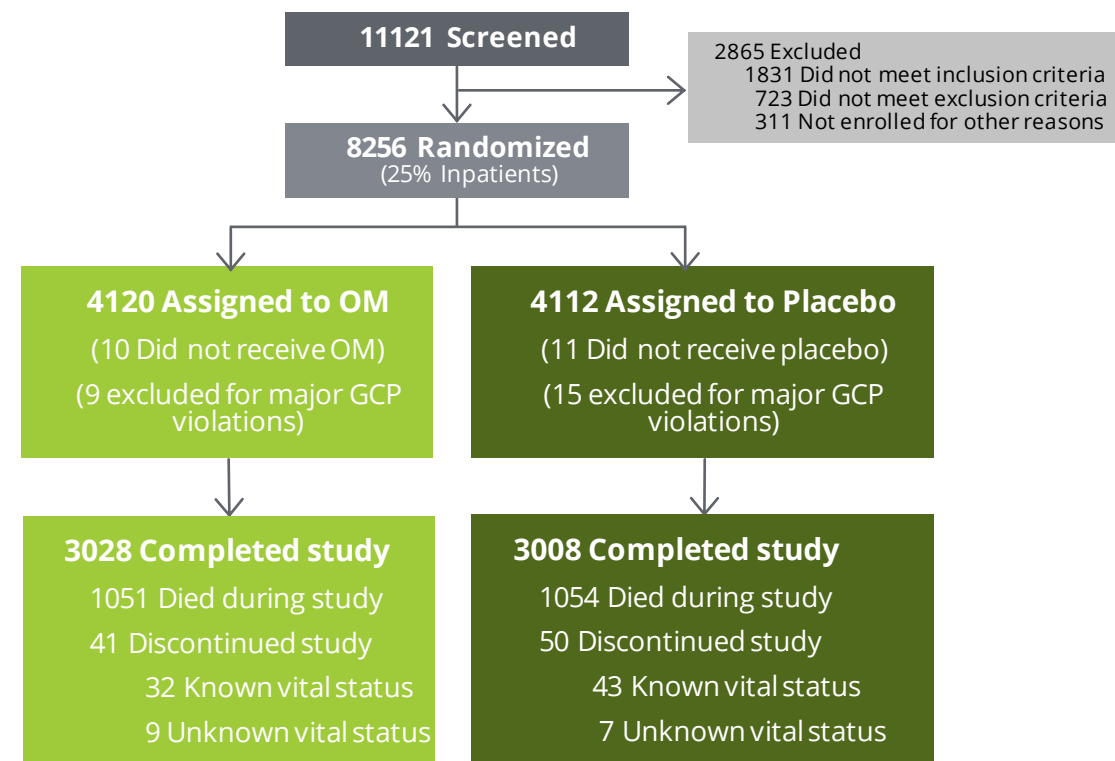


Clinical Trial Schema

Chronic HFrEF patients currently hospitalized for a primary reason of HF or with history of hospitalization or ER/ED admission for a primary reason of HF within 1 year



Patient Disposition



Baseline Characteristics

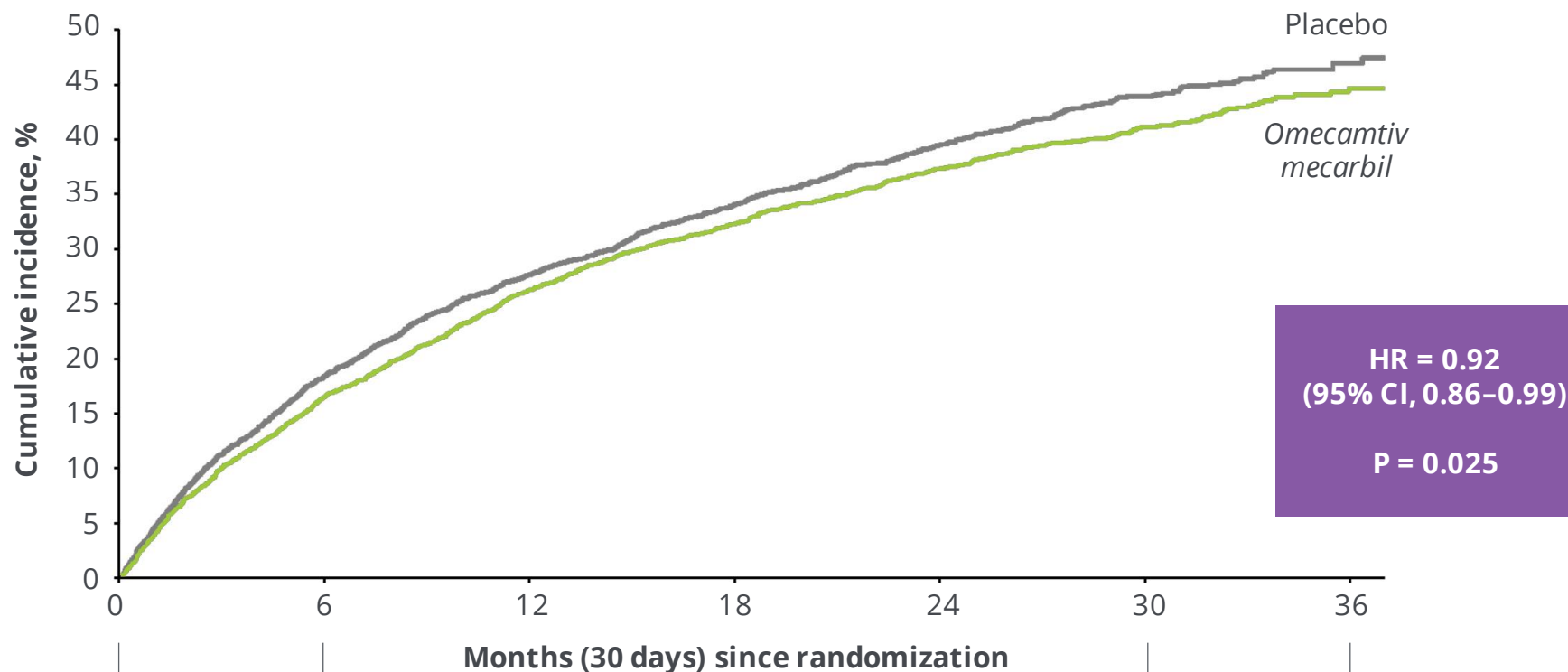
Characteristic	OM (N=4120)	Placebo (N=4112)
<i>Demographics</i>		
Age (years), median (Q1, Q3)	66 (58, 73)	66 (58, 73)
Sex, female, n (%)	875 (21.2)	874 (21.3)
White/Asian/Black/other, %	78/9/7/7	78/9/7/7
<i>Heart Failure History and Medical Conditions</i>		
LVEF (%), mean (SD)	26.6 (6.3)	26.5 (6.3)
NYHA class, II/III/IV, %	53/44/3	53/44/3
Ischemic etiology, %	53.2	54.0
Atrial fib/flutter at screening, %	27.8	26.7
Type 2 diabetes, %	40.1	40.3

Characteristic	OM (N=4120)	Placebo (N=4112)
<i>Vitals and Laboratory Parameters</i>		
NT-proBNP (pg/mL), median (Q1, Q3)	1977 (980, 4061)	2025 (1000, 4105)
SBP (mmHg), mean (SD)	116 (15)	117 (15)
Heart rate, mean (SD)	72 (12)	72 (12)
eGFR (mL/min/1.73m²), median (Q1, Q3)	59 (44, 74)	59 (44, 74)
Cardiac TnI (ng/mL), median (Q3)	0.027 (0.052)	0.027 (0.052)
<i>Medications and Cardiac Devices</i>		
ACEI/ARB/ARNi, %	87	87
ARNi, %	20	19
BB, %	94	94
MRA, %	78	78
SGLT2i, %	2.5	2.8
CRT, %	14	14
ICD, %	32	31

ACEi, angiotensin-converting enzyme inhibitor; ARB, angiotensin receptor blocker; ARNi, angiotensin receptor-neprilysin inhibitor; BB, beta blocker; CRT, cardiac resynchronization therapy; eGFR, estimated glomerular filtration rate; fib, fibrillation; hsTnI, high-sensitivity troponin I; ICD, implantable cardioverter-defibrillator; LVEF, left ventricular ejection fraction; MRA, mineralocorticoid receptor antagonist; NT-proBNP, N-terminal pro-B-type natriuretic peptide; NYHA, New York Heart Association; Q, quartile; SBP, systolic blood pressure; SGLT2i, sodium-glucose co-transporter 2 inhibitor.

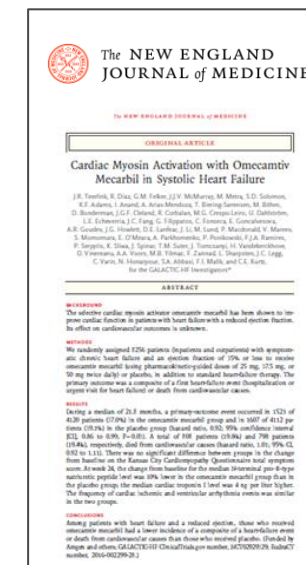
Primary Composite Endpoint

Time to first HF event or CV death



Patients
at risk, n

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



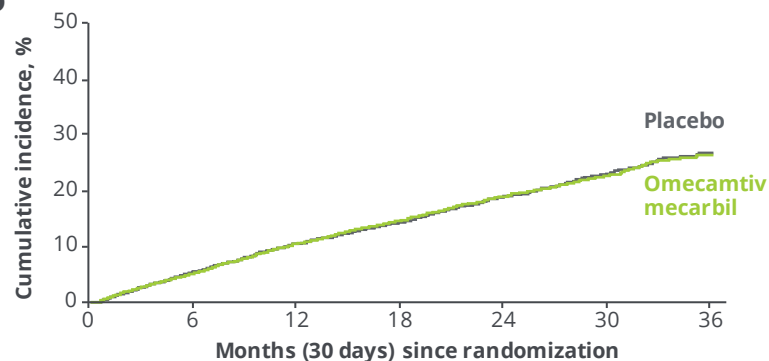
Primary Composite Components and KCCQ TSS



CV Death

HR = 1.01 (95% CI, 0.92–1.11)

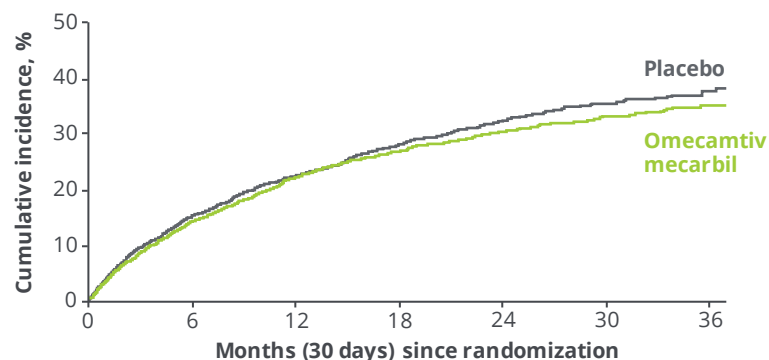
P = 0.86



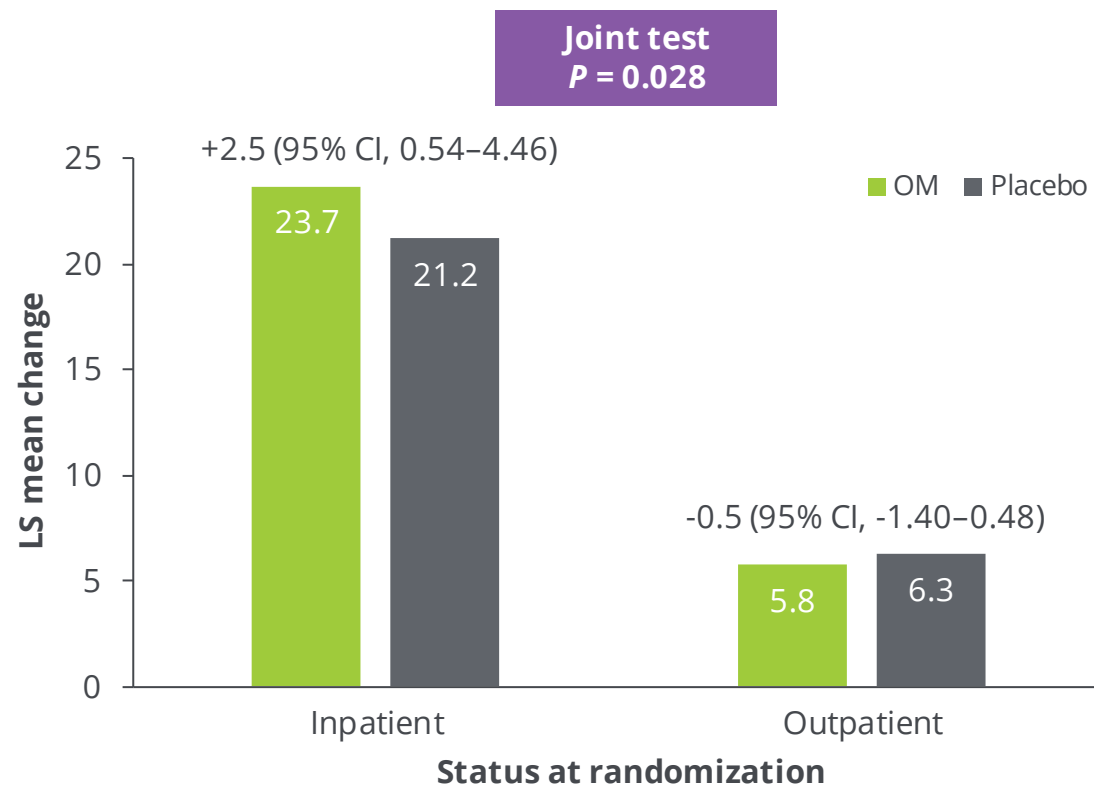
Heart Failure Event

HR = 0.93 (95% CI, 0.86–1.00)

P = 0.063



Change in KCCQ TSS from Baseline to Week 24









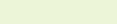
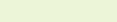
No reduction in the secondary endpoint of time to CV death was observed


Laboratory and Safety Events

Variable	<i>Omecamtiv Mecarbil</i> (N=4110)	Placebo (N=4101)	Relative Risk or Difference (95% CI)
<i>Laboratory value change from baseline to Week 24</i>			
Systolic blood pressure – mmHg, mean (SD)	1.4 (15.3)	1.5 (15.6)	-0.1 (-0.9, 0.6)
Heart rate, bpm, mean (SD)	-2.1 (12.6)	-0.5 (12.8)	-1.6 (-2.2, -1.0)
Cardiac Troponin I, ng/L, median (Q1, Q3)	0.004 (-0.002, 0.021)	0.000 (-0.009, 0.008)	0.004 (0.003, 0.005)
NT-proBNP, pg/mL, median (Q1, Q3)	-251 (-1180, 295)	-180 (-915, 441)	0.90 (0.86, 0.94)
<i>Adverse events (AEs)</i>			
Any serious AE, n (%)	2373 (57.7)	2435 (59.4)	0.97 (0.94, 1.01)
Drug discontinuation due to AE, n (%)	371 (9.0)	382 (9.3)	0.97 (0.85, 1.11)
Adverse events of interest			
Ventricular tachyarrhythmias	290 (7.1)	304 (7.4)	0.95 (0.82, 1.11)
Torsade de pointes/QT prolongation	176 (4.3)	195 (4.8)	0.90 (0.74, 1.10)
SAE of ventricular arrhythmia requiring treatment	119 (2.9)	127 (3.1)	0.93 (0.73, 1.20)
Adjudicated major cardiac ischemic events, n (%)	200 (4.9)	188 (4.6)	1.06 (0.87, 1.29)
Myocardial infarction	122 (3.0)	118 (2.9)	
Hospitalized for unstable angina	25 (0.6)	12 (0.3)	
Coronary revascularization	115 (2.8)	117 (2.9)	
Adjudicated Strokes	76 (1.8)	112 (2.7)	0.68 (0.51, 0.91)

Greater Treatment Effect in More Severe HF

Results of the primary outcome in pre-specified subgroups showed greater treatment effect in patients with markers of more severe heart failure, including patients with LVEF $\leq 28\%$: (n=4,456) HR 0.84; 95% CI 0.77, 0.92

Subgroup	No. of Events/ No. of Patients		Hazard Ratio (95% CI)	Norm p-value	ARR
All Patients	3103/8232		0.92 (0.86, 0.99)	0.025	2.1%
LVEF $\leq 28\%$	1821/4456		0.84 (0.77, 0.92)	<0.001	4.9%
Outpatients	1255/3304		0.83 (0.75, 0.93)	0.001	5.0%
Inpatients	566/1152		0.86 (0.73, 1.02)	0.084	3.9%
Hosp <3 mos	1200/2688		0.83 (0.74, 0.93)	0.001	5.2%
Class III/IV	1055/2132		0.80 (0.71, 0.90)	<0.001	7.0%
NT-proBNP >2000	1249/2431		0.77 (0.69, 0.87)	<0.001	8.1%
SBP <110	843/1820		0.81 (0.70, 0.92)	0.002	7.4%



Baseline Characteristics by EF Quartile (1)

Demographics	Q1: EF ≤22% (N=2246)	Q4: EF ≥33% (N=1750)	P-Value
Age (years), mean±SD	62.5 ± 12	66.4 ± 11	<0.001
Sex, female, n (%)	422 (19)	421 (24)	<0.001
Race, n (%)			<0.001
Asian	171 (8)	136 (8)	
Black	243 (11)	68 (4)	
Other*	200 (9)	83 (5)	
White	1632 (73)	1463 (84)	
Region, n (%)			<0.001
Asia	152 (7)	130 (7)	
Eastern Europe/ Russia	476 (21)	805 (46)	
Latin and South America	438 (20)	268 (15)	
US and Canada	581 (26)	205 (12)	
Western Europe/ South Africa/ Australasia	599 (27)	342 (20)	

Medical Conditions, n (%)	Q1: EF ≤22% (N=2246)	Q4: EF ≥33% (N=1750)	P-Value
Coronary artery disease	1267 (56)	1218 (70)	<0.001
Atrial Fib/ Flutter (Screen)	547 (24)	528 (30)	<0.001
Hypertension	1431 (64)	1367 (78)	<0.001
Type 2 diabetes mellitus	869 (39)	743 (43)	<0.001

Heart Failure History	Q1: EF ≤22% (N=2246)	Q4: EF ≥33% (N=1750)	P-Value
LVEF (%), median [Q1, Q3]	20 [15, 20]	34 [33, 35]	N/A
Time from last HF Hosp. (months; median [Q1,Q3])	3.0 [1.6, 5.9]	3.6 [1.6, 6.9]	0.043
MAGGIC Score, median (Q1, Q3)	25 [21, 30]	21 [17, 25]	<0.001
NYHA III/IV, n (%)	1086 (48)	791 (45)	0.016
Ischemic HF etiology, n (%)	1033 (46)	1088 (62)	<0.001
KCCQ TSS, median [Q1,Q3]	69 [48, 88]	69 [49, 85]	0.77

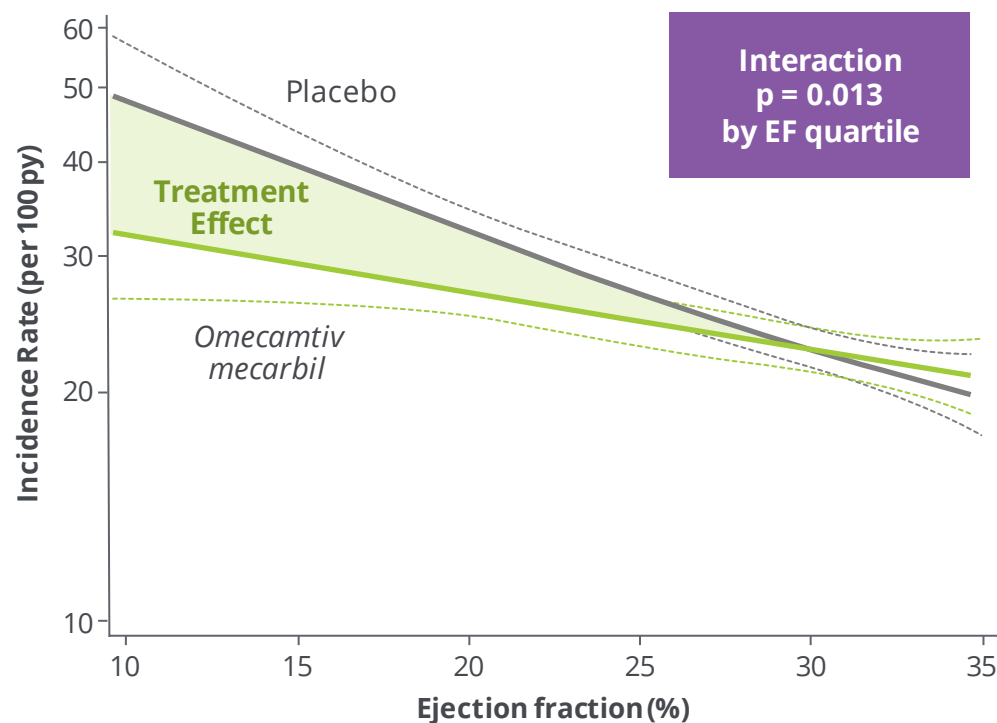
Baseline Characteristics by EF Quartile (2)

Vitals and Laboratory Parameters	Q1: EF ≤22% (N=2246)	Q4: EF ≥33% (N=1750)	P-Value	Medications and Cardiac Devices, n (%)	Q1: EF ≤22% (N=2246)	Q4: EF ≥33% (N=1750)	P-Value
Body mass index (kg/m ²), mean (SD)	27.9 (6.3)	29.1 (6.1)	<0.001	ACEi, ARB or ARNi	1900 (85)	1539 (88)	<0.001
SBP (mmHg), mean (SD)	112 (15)	121 (14)	<0.001	ARNi	534 (24)	248 (14)	<0.001
Heart rate (beats/min), mean (SD)	74 (12)	72 (12)	<0.001	BB	2086 (93)	1655 (95)	0.022
NT-proBNP (pg/mL), median [Q1-Q3]	2524 [1250, 5296]	1615 [755, 3245]	<0.001	MRA	1715 (76)	1305 (75)	0.10
hsTnI (ng/L), median [Q3]	31 [58]	23 [43]	<0.001	(ACEi, ARB, or ARNi) + MRA + BB	1413 (63)	1114 (64)	0.37
eGFR (mL/min/1.73m ²), median [Q1,Q3]	59 [44, 74]	58 [45, 74]	0.72	Digitalis Glycosides	450 (20)	251 (14)	<0.001
				SGLT2 Inhibitors	64 (3)	43 (3)	0.19
				Ivabradine	172 (8)	90 (5)	<0.001
				Cardiac Resynchronization Therapy	454 (20)	152 (9)	<0.001
				Implantable Cardioverter Defibrillator	972 (43)	363 (21)	<0.001

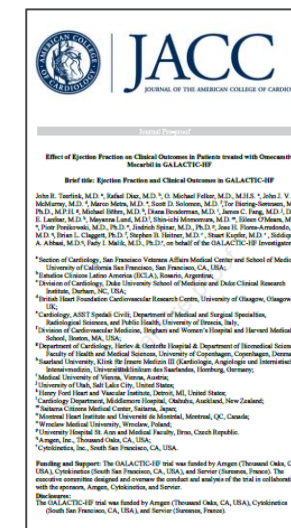
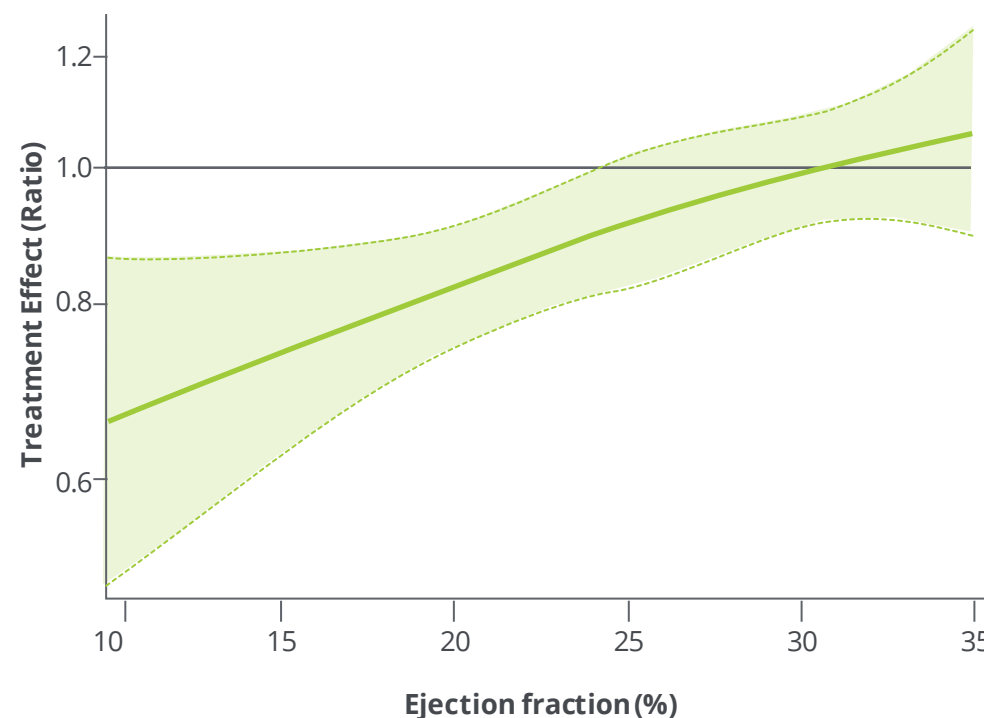
Treatment Effect Increased Progressively As Baseline EF Decreased

In EF $\leq 22\%$, 11.8 needed-to-treat to prevent 1 event over 3 years

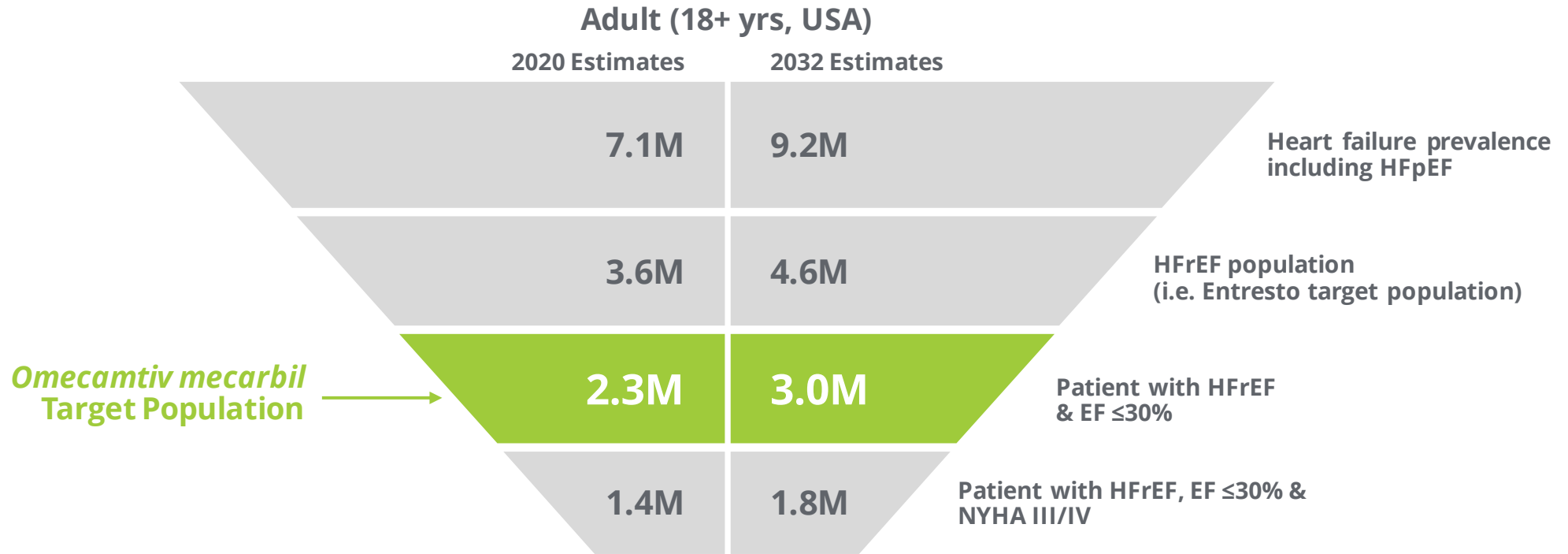
Incidence of Primary Composite Endpoint



Relative Treatment Effect on Primary Composite Endpoint



Large, Well-Identified Severe HF Patient Population



1.4 – 2.3M patient potential at launch

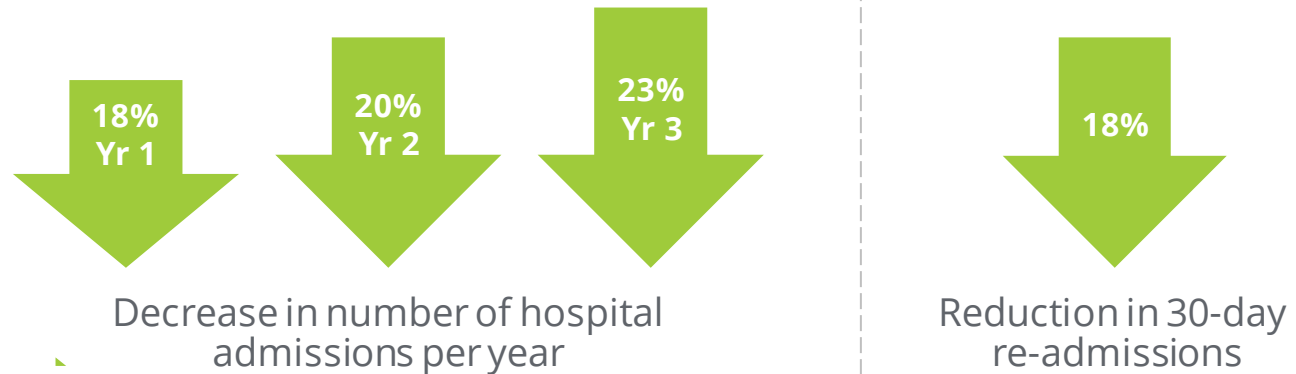
Note: Rounded to 100K; patient count as of January of the respective year; Globally, there are 8.8M OM target patients in 2020 and 10.1M by 2032
Source: BIO analysis, CVrg Heart Failure 2020–2029, Dunlay et al Circ Heart Fail. 2012;5:720-726, Spinar et al Critical Care volume 15, Article number: R291 (2011)

Potential to Offset Medicare Hospitalization Costs

Hospitalization drives cost for Medicare patients¹

- Mean cost per HFrEF hospitalization: **\$10,735**
- Mean cost for 30-day post-hospitalization care: **\$7,060**
- **Total 30-day cost for HFrEF hospitalization & post-hospitalization care: \$17,795**

Patients on *omecamtiv mecarbil* showed reductions in both hospital admissions and re-admissions²



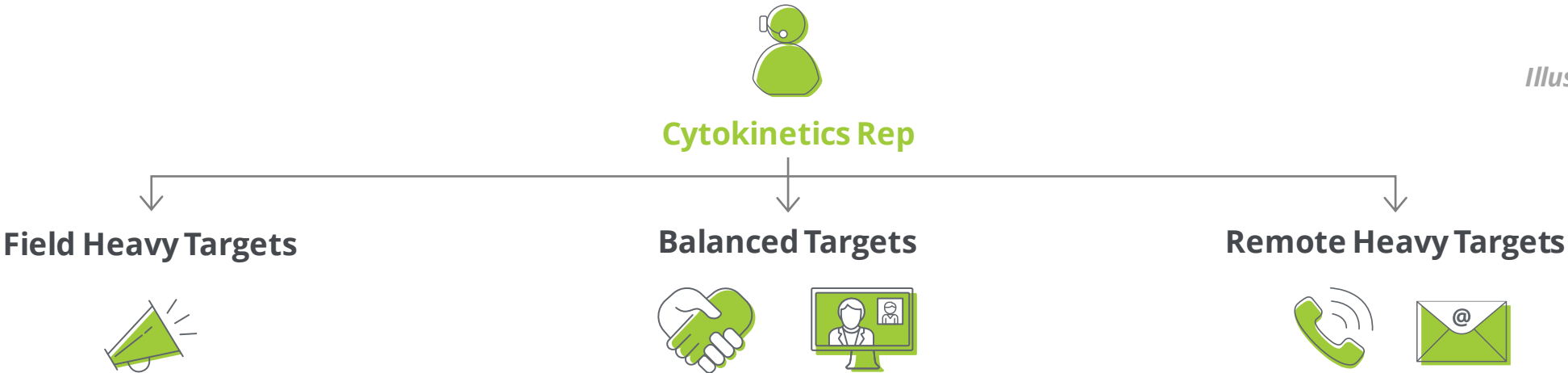
Outcomes from GALACTIC-HF may translate into economic benefits to payers and IDNs including cost offsets, improved star rating and reduced CMS readmission penalties

1. Desai et al, Yale University School of Medicine, AHA 2020; Congest Heart Fail. 2011 Jul-Aug; 17(4): 10.1111/j.1751-7133.2011.00246.x.

2. GALACTIC-HF

Fit-for-Purpose Sales Team: Face-to-Face & Virtual Visits

Illustration

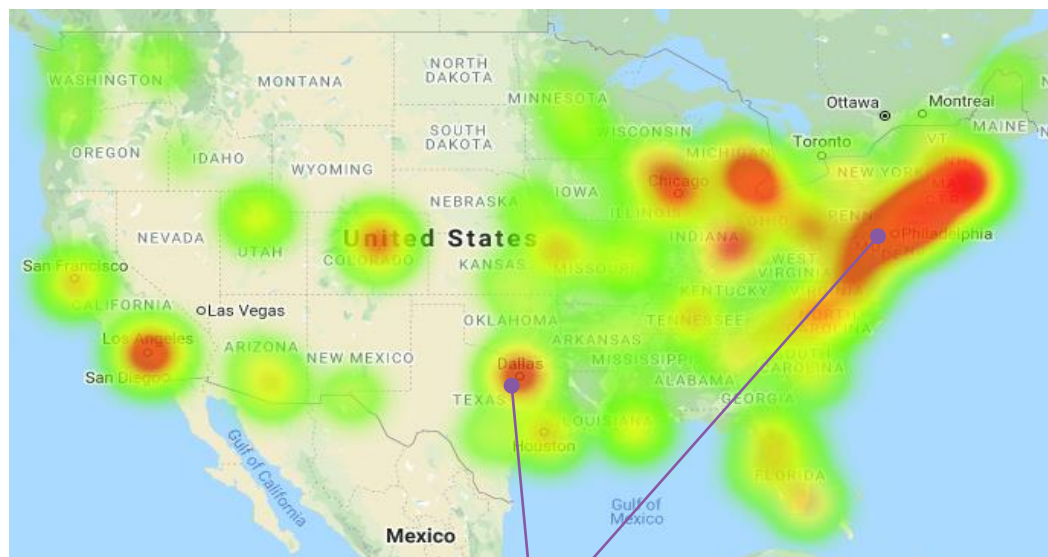


% of Face-to-Face Visits		
Heavy face-to-face	Mix of face-to-face and remote	Minimum face-to-face
Engagement Description		
Similar to traditional engagement – rep spends most of the time in face-to-face interaction	Hybrid engagement – mix of face-to-face and virtual visits to sequence interactions depending on customer needs and constraints. Remote resources deployed (i.e., samples, speakers, literature)	Dominant use of virtual platforms. Interaction is primarily over scheduled virtual visits or phone calls in response to office queries. Remote resources deployed (i.e., samples, speakers, literature)

Note: Sep'20 Access Monitor stats indicate the growing preference for face-face visits. Based on Access Monitor and Voice of Patient & Provider surveys

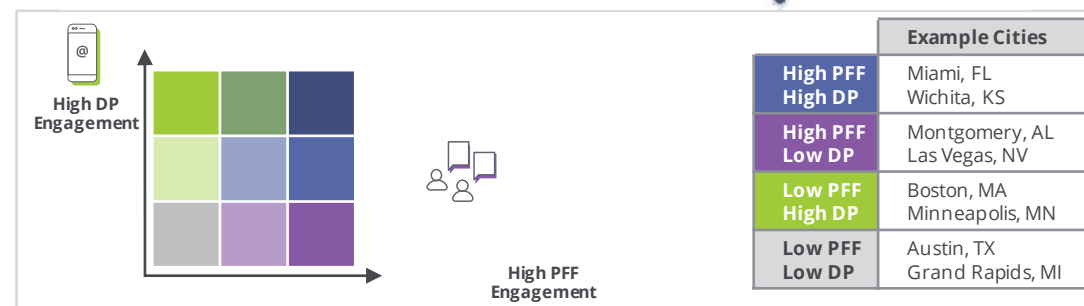
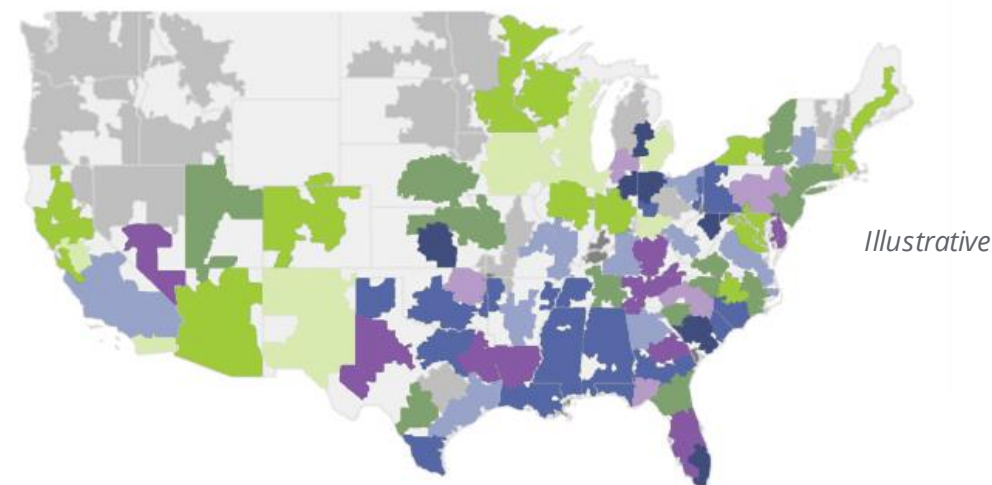
Applied Analytics Will Inform Channel Mix and Deployment

Patient and HCP Heat Map in HFrEF



Deploy to Hot Spots

Physician Engagement Type by Geography



Note: Based on 2020 cycle 1 AffinityMonitor™ metrics for LHMs; LHM engagement was considered to be the average engagement of rated HCPs within each LHMs; LHMs are ZS designed market which are homogeneous market within LHM boundaries

Second Phase 3 Clinical Trial Underway

Investigating effect of *omecamtiv mecarbil* on exercise tolerance



Expect enrollment to complete in 1H 2021

Primary Endpoint

Change in peak VO₂ on CPET from baseline to Week 20

Second Endpoints

- Change in total workload during CPET from baseline to Week 20
- Change in ventilatory efficiency (VE/VCO₂ slope) during CPET from baseline to Week 20
- Change in average daily activity units measured over 2 weeks from baseline to Week 18-20 by accelerometry

Study Plan

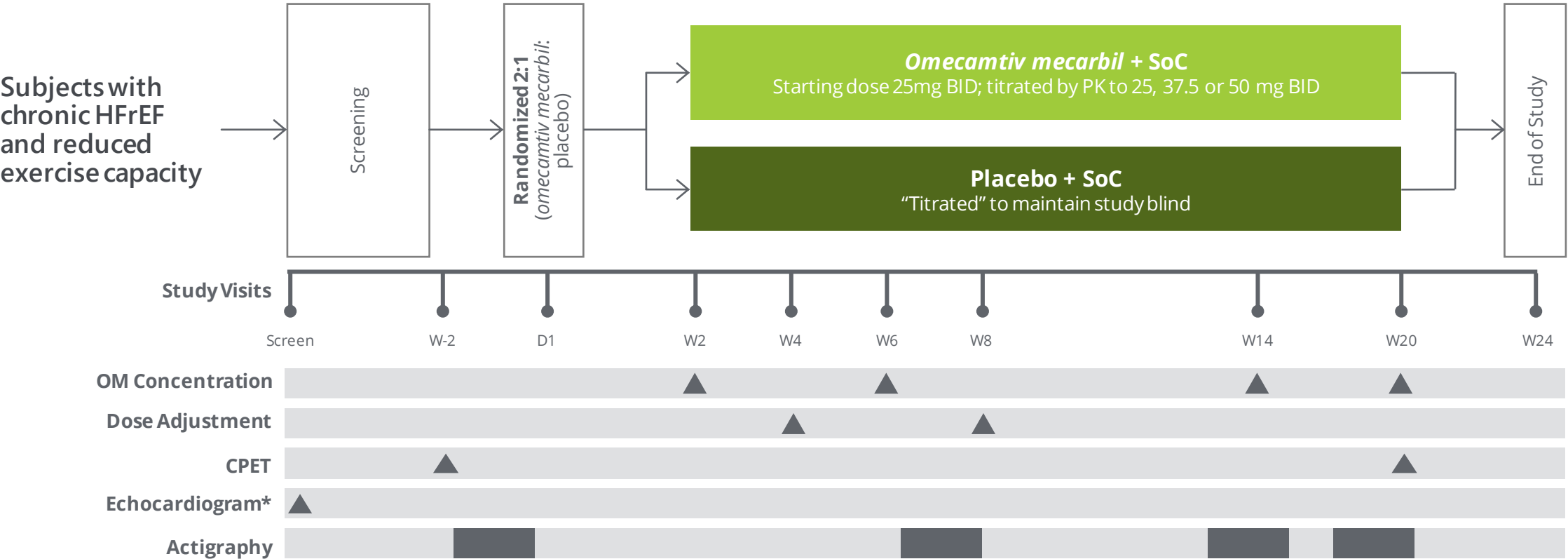
Total Countries Planned	9
Active Countries	4
Total Sites Planned	92
Activated Sites	69
Total Patients Planned	270

Key Design Points

- Designed to enroll approximately 270 patients
- 90% power
- Patients must have LVEF ≤35 percent, be NYHA heart failure class II or III, and have reduced exercise capacity
- Patients randomized 2:1 to *omecamtiv mecarbil*

VO₂ = Oxygen Uptake; CPET = Cardio-Pulmonary Exercise Testing; VE = Ventilatory Efficiency

Clinical Trial Overview



*Screening echocardiogram is not required if an appropriate LVEF assessment has been performed within one year

CK-274: Next-In-Class Cardiac Myosin Inhibitor

Potential treatments for patients with HCM



- Discovered by company scientists independent of collaborations
- Selective allosteric inhibitor of cardiac myosin
- No inhibition of smooth muscle myosin observed
- Potential *in vivo* pharmacodynamic advantages related to distinctive binding site
- Optimized to minimize potential drug-drug interactions
- High oral bioavailability observed across pre-clinical species
- Clear pharmacokinetic/pharmacodynamic (PK/PD) relationship observed
- Shallow exposure-response relationship
- Projected once daily dosing to reach steady state in patients expeditiously
- **Goal: Enable flexible dose optimization in humans as may contribute to its efficacy and safety profile**

Significant Unmet Need in HCM

Current therapies do not target underlying disease



HCM is an inherited cardiovascular disease

1 in 500 have genetic mutation
1 in 3200 have HCM
Subset of patients have progressive symptoms, atrial fibrillation, stroke, sudden death



Surgical intervention not permanent solution

Invasive therapy to reduce septal thickness is effective
Surgical myectomy or percutaneous ablation



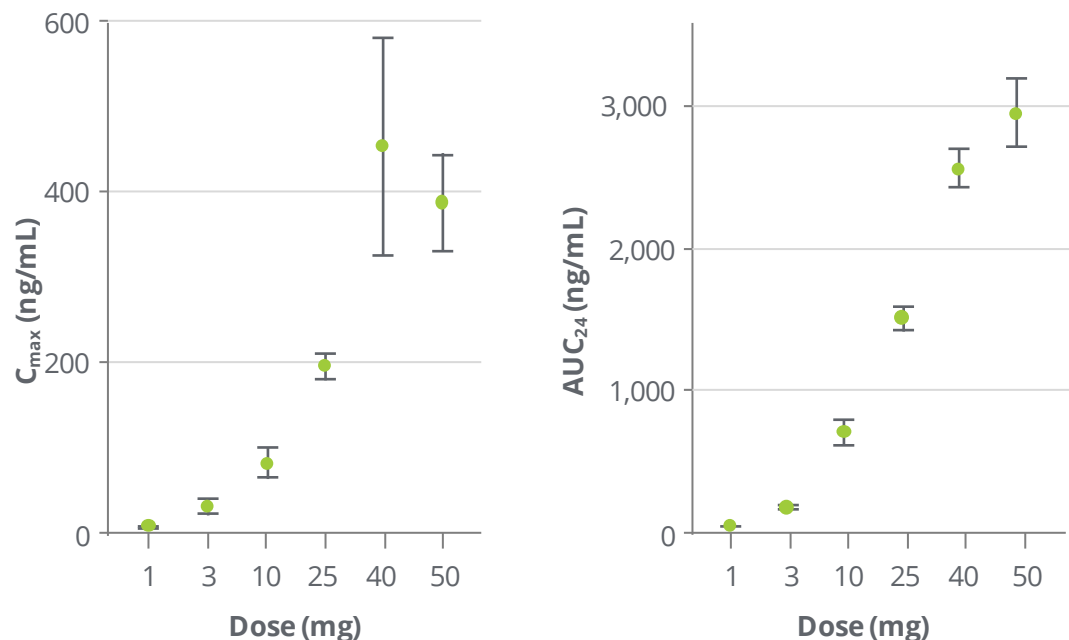
Current medical therapy does not target underlying disease

Indirect mechanisms of action with systemic side effects
Variable efficacy, often inadequate

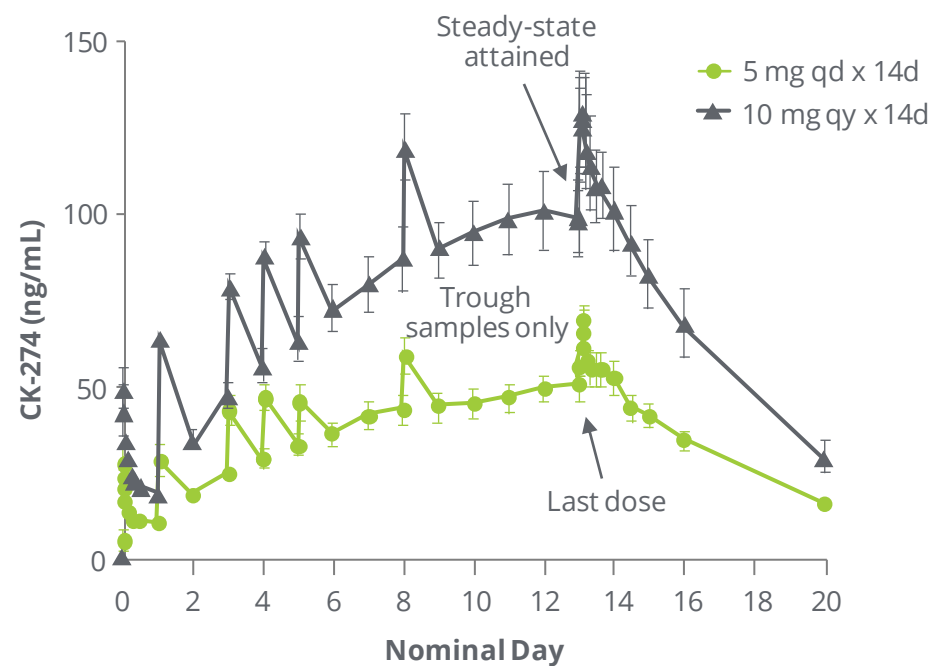
SAD & MAD Results Support Progression to Phase 2

Phase 1: CK-274 was well tolerated in healthy participants, no SAEs*

SAD PK: Absorption and Elimination Generally Dose Proportional



MAD PK: Steady-State Achieved After 14 Days of Dosing



*No SAEs and no clinically meaningful changes in vital signs, ECGs, or laboratory tests
Data points represent mean \pm standard error of the mean
 C_{max} = maximum drug plasma concentration; AUC = area under the plasma concentration curve; SAD = single ascending dose; d = day; qd = once daily

CY 6011: MAD Pharmacokinetic Parameters

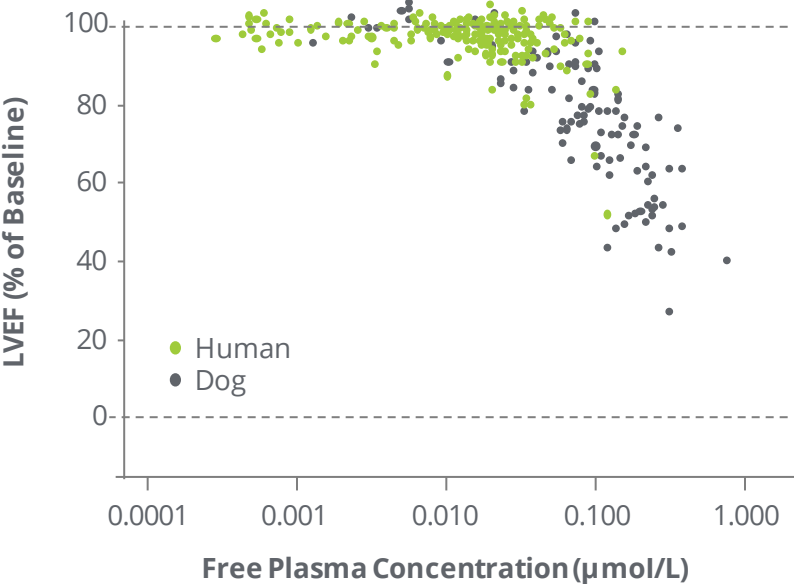
Half-Life of CK-274 at Steady-State was ~81 hours (3.4 days) On Average

PK Parameter, Geometric Mean (%CV)*	Dose (n)	5 mg (6)	7.5 mg (6)	10 mg (6)
	C _{max} (ng/mL)	69 (23.2%)	148 (39.5%)	141 (19.7%)
	t _{max} (h)	2.75 (1.5–4)	1.0 (0.5–5)	2.5 (0.5–3)
	AUC ₂₄ (ng•h/mL)	1,321 (23.0%)	2,518 (25.8%)	2,631 (22.8%)
	t _{1/2} (h)	86.3 (11.9)	76.9 (14.5)	79.7 (14.1)
	AR	4.71	4.5	4.79

*Except data for t_{max} shown as median (minimum-maximum), and t_{1/2} shown as the arithmetic mean (standard deviation).
AR (accumulation ratio) calculated as (AUC₂₄ on Day 14 or 17)/(AUC₂₄ on Day 1).
%CV = percent coefficient of variation; C_{max} = maximum plasma concentration; AUC₂₄ = area under the plasma concentration curve;
MAD = multiple ascending dose; t_{1/2} = apparent plasma terminal elimination half-life; t_{max} = time to maximum observed plasma concentration.

Shallow Exposure-Response Relationship Observed Pre-clinically Appears to Have Translated to Humans, May Enable Flexible Dose Optimization in Humans

PK/PD Relationship of CK-274 for Ejection Fraction (LVEF)



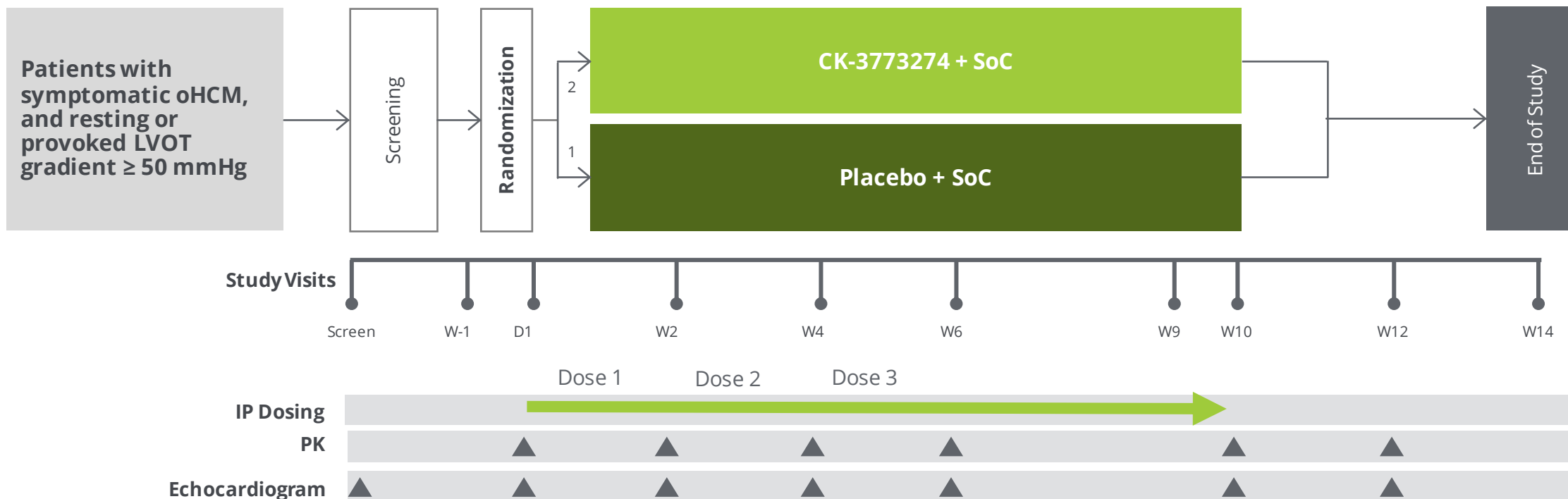
Graphs show LVEF as a function of exposure; data points represent observed values in dogs and humans.

Decrease in LVEF as function of exposure is similar in humans and dogs.

Phase 2 Clinical Trial Design



Two sequential dose-finding cohorts (optional 3rd cohort)



Interim Analysis Informed Progression to Cohort 2

Cohort 2 enrollment complete; Cohort 3 enrolling patients on disopyramide



Topline results for Cohort 1 and 2 expected mid-year 2021

- **Interim analysis of data from Cohort 1 demonstrated:**

- Substantial reductions in average resting LVOT-G & post-Valsalva LVOT-G
- Only modest decreases in average LVEF and no dose interruptions due to LVEF falling below 50% (prespecified safety threshold)
- No serious adverse events attributed to study treatment

Cohort 1: Escalating doses of 5, 10, 15 mg once daily

Cohort 2: Escalating doses of 10, 20, 30 mg once daily

Cohort 3: Escalating doses of 5, 10, 15 mg once daily
For patients taking disopyramide

Open Label Extension Trial

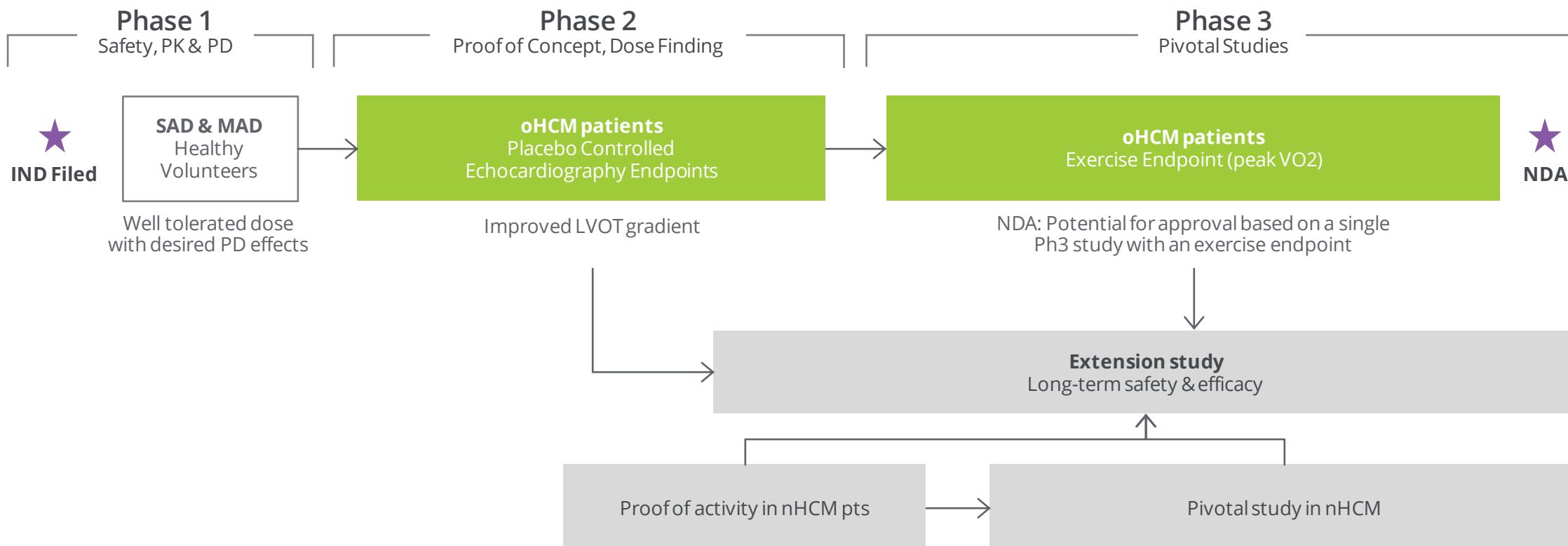


REDWOOD-HCM OLE open for eligible patients who completed REDWOOD-HCM

- Primary endpoint: incidence of AEs & LVEF <50
- Secondary endpoints: measures of long-term effects of CK-274 on LVOT-G; assessments of steady-state pharmacokinetics.
 - Cardiac MRI sub-study to assess changes in cardiac morphology, function and fibrosis
- Individually optimized dose starts at lowest dose in prespecified range with echo-guided dose titration
- Initial dose and highest target dose informed by interim analyses from REDWOOD-HCM

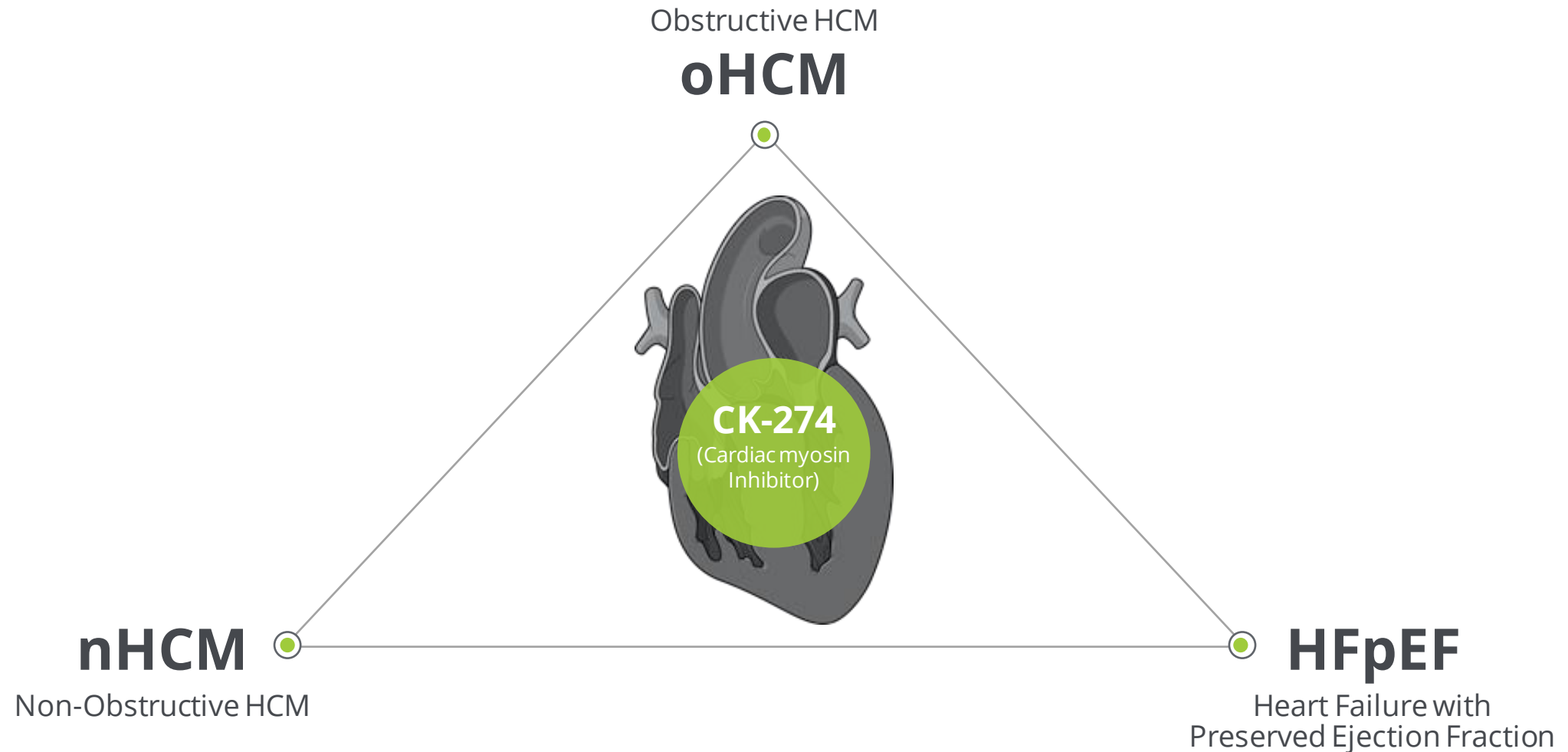
OLE: Escalating doses based on echo-guided dose titration

CK-274: Clinical Development Plan for HCM



Novel Approach May Address Multiple Unmet Patient Needs

No FDA-approved therapies



CK-274: Collaborations & Agreements

RTW Investments, LP & Ji Xing Pharmaceuticals Limited



RTW & Ji Xing Pharma Licensing Collaboration, Funding Commitments & Royalty Monetization

RTW Investments committed capital, funding and sale proceeds of \$250M to Cytokinetics

Ji Xing Pharma to develop & commercialize CK-274 in China, subject to royalties and up to \$200M in milestone payments

RTW Investments purchased equity and royalty; provides access to capital for development of CK-274

Ji Xing Pharma

Ji Xing to develop & commercialize CK-274 in Greater China and Taiwan

Cytokinetics receives **\$25M upfront**; eligible to receive **\$200M** in development & commercial milestones & double-digit royalties on sales of CK-274 in licensed territory

RTW: Funding for Development of CK-274

Cytokinetics receives options for additional funding for further development of CK-274 in HCMs:

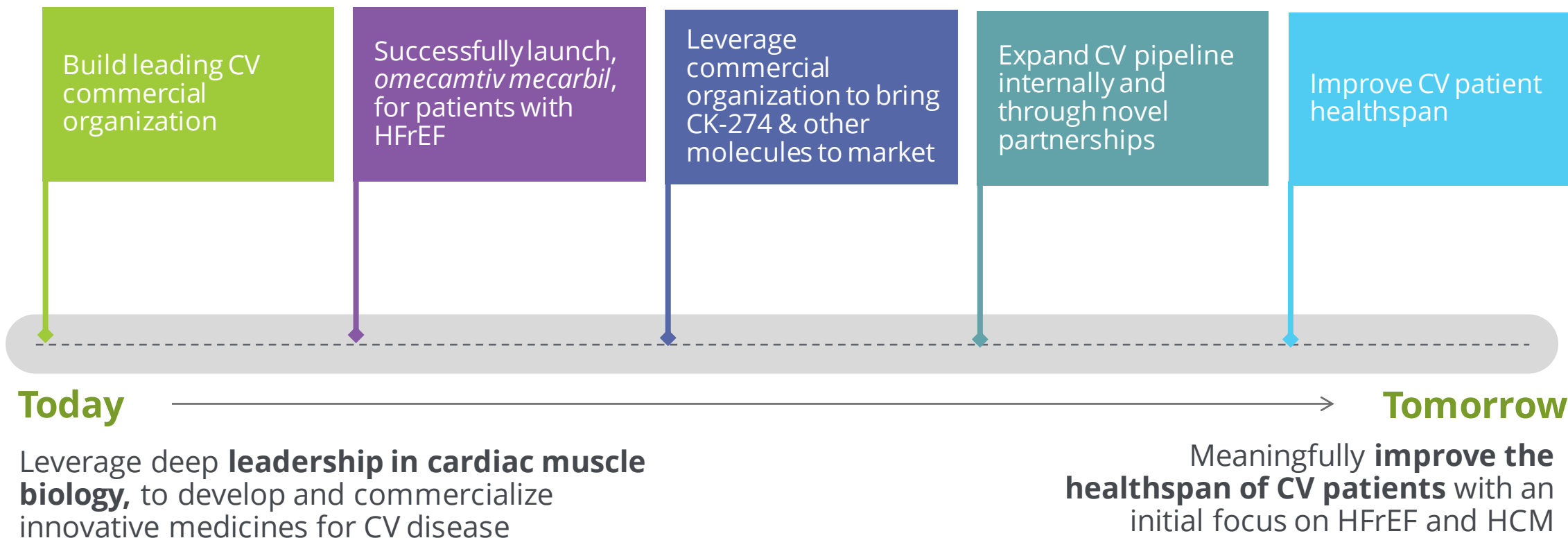
- Eligible for **\$45M** in each of 2 tranches (upon initiation of global registration programs in oHCM and nHCM) in exchange for 2% royalty on sales in U.S. & certain European countries
- If **full \$90M** received, Cytokinetics pays RTW 4% royalty on sales of CK-274 in U.S. & certain European countries, subject to royalty reductions for potential other indications

RTW: Other Purchases

RTW purchased Cytokinetics' royalty rights **on future sales of mavacamten** for **\$85M**

RTW purchased **\$50M of Cytokinetics' common stock** at \$25 per share

CV Franchise: Building to Improve Patient Healthspan



Building Synergistic Commercial Capabilities

Building Today...

Building commercial organization focused on hospitalized CV patients and HCPs to optimize opportunity for *omecamtiv mecarbil*

- Cultivate advocacy with CV patients and HCPs

To Lead Tomorrow

Establish Cytokinetics as a CV leader by leveraging commercial capabilities for future product launches

- Significant overlap between HFrEF & HCM accounts
- Simultaneously gain experience in HFrEF & HCM



IQVIA HPD – Q3'18 – Q2'19

Sarcomere Directed Drug Development

SKELETAL MUSCLE

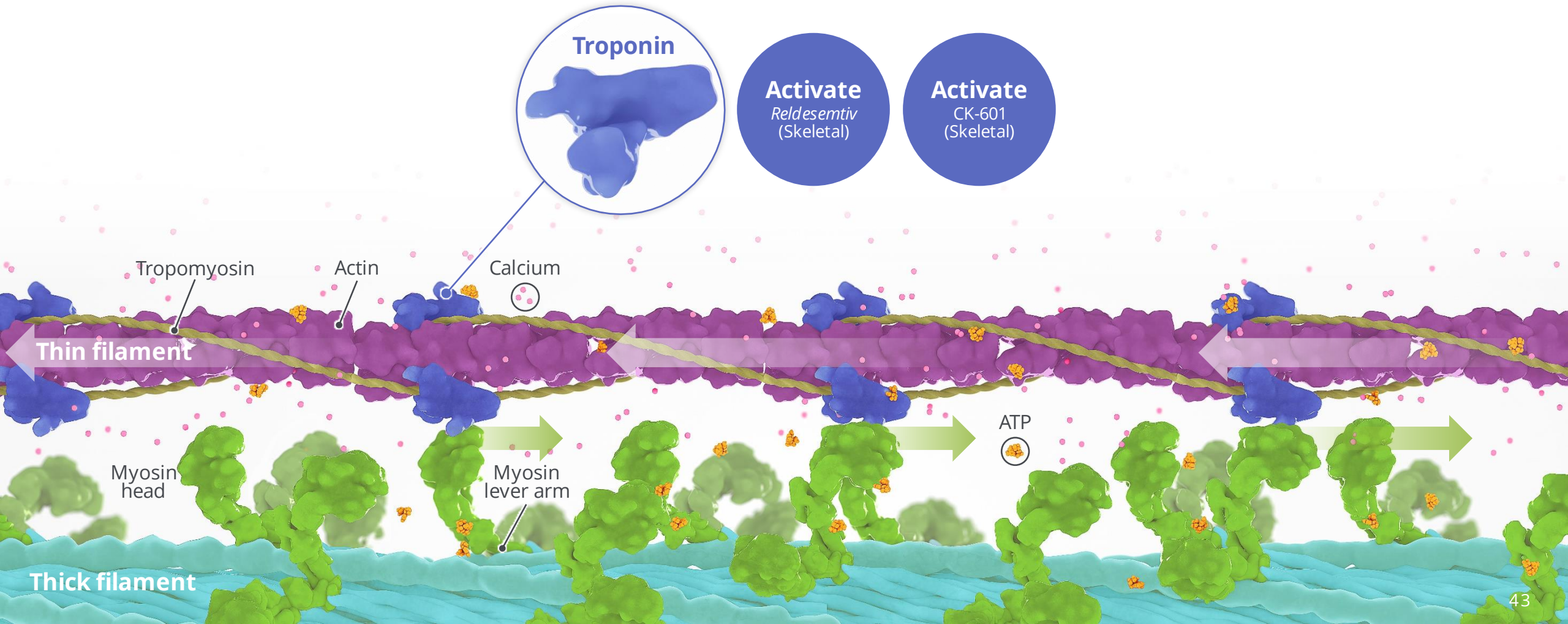
Reldesemtiv

CK-601

Sarcomere Directed Drug Development

Skeletal muscle

The sarcomere is a molecular structure found in skeletal and cardiac muscle that enables skeletal myocytes to contract and generate force



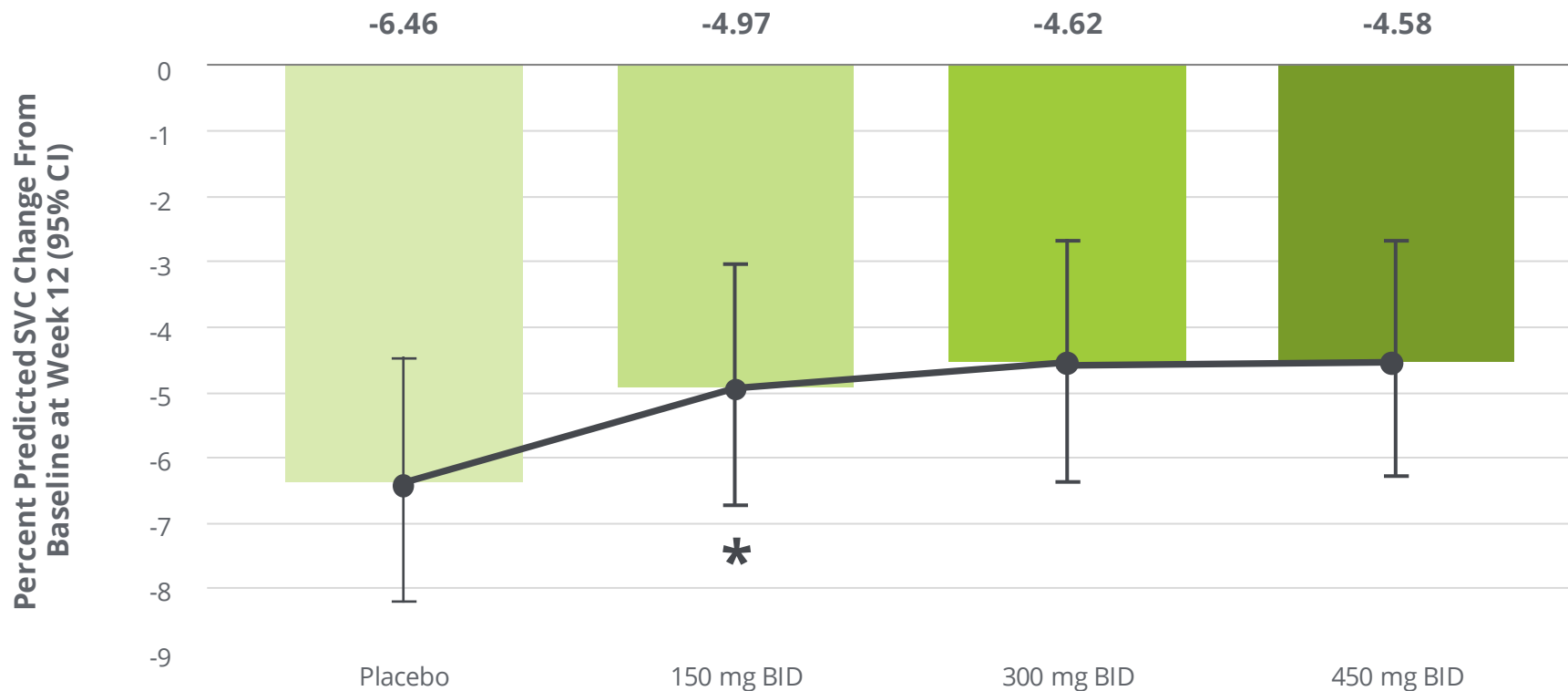
Phase 2 Clinical Trial in ALS

Results presented at American Academy of Neurology 2019



Primary Endpoint: SVC

Change from baseline in percent predicted SVC at week 12



Primary Analysis*

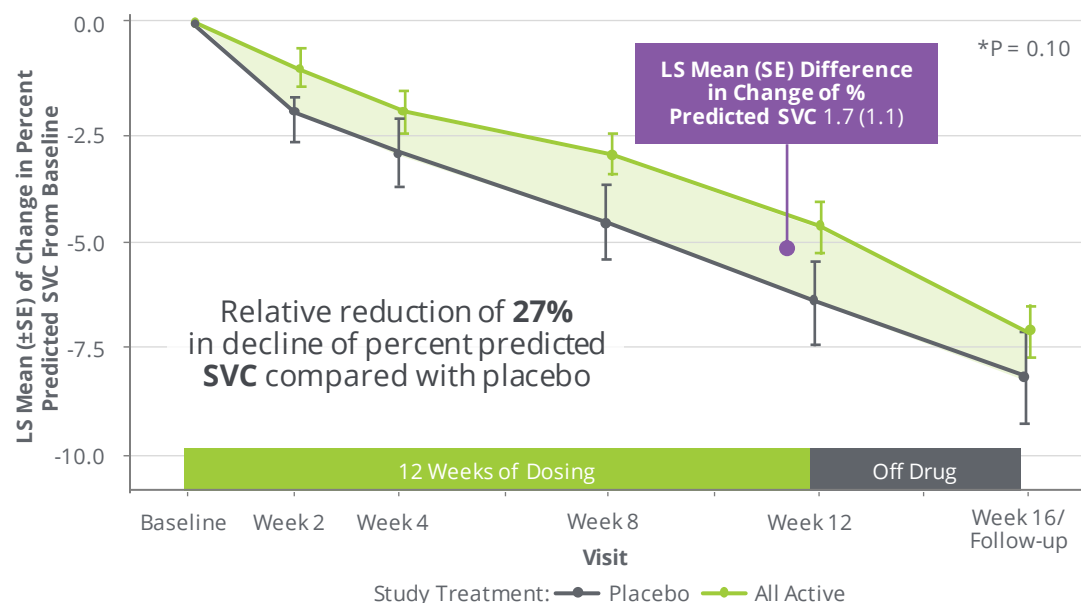
P = 0.11
for weighted
dose-response
relationship

*Based on Mixed Model for Repeated Measures (MMRM) with the contrasts of (-5, -1, 3, 3) for placebo, *reldesemtiv* 150 mg, 300 mg and 450 mg BID, respectively

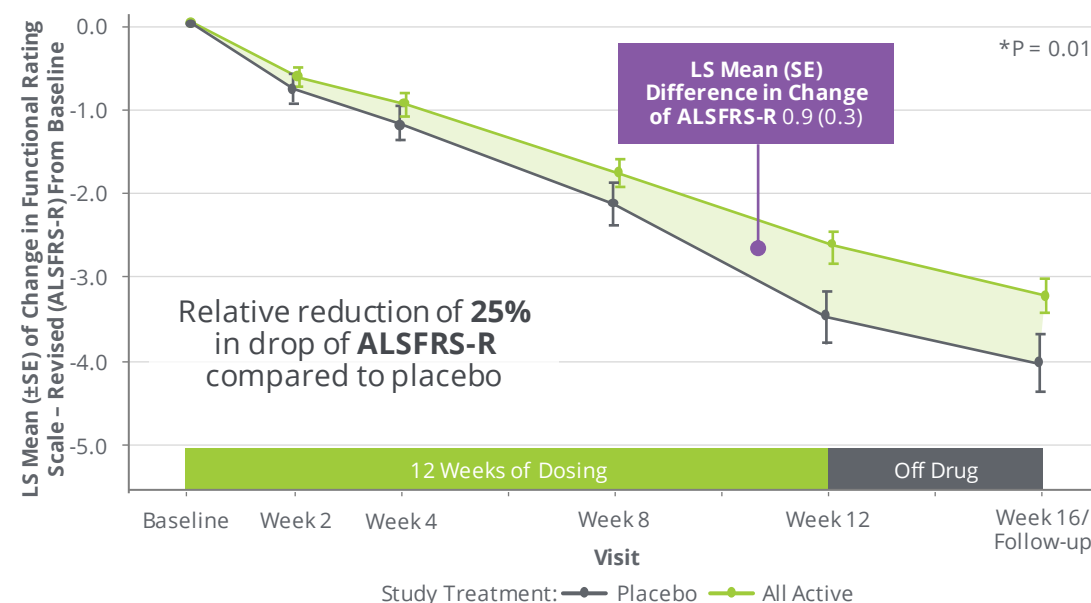
Change From Baseline: All Active vs Placebo*

Results support progression to potential Phase 3 clinical trial

SVC Change From Baseline (All Active vs Placebo)



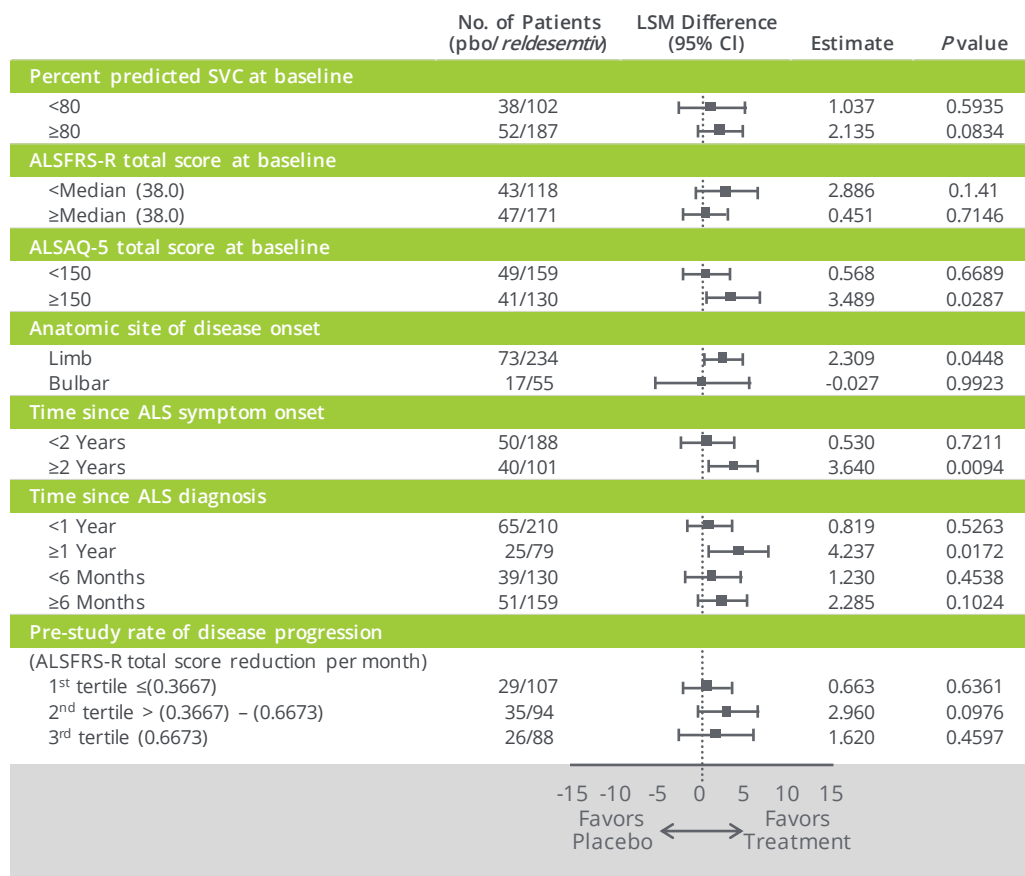
ALSFRS-R Change From Baseline (All Active vs Placebo)



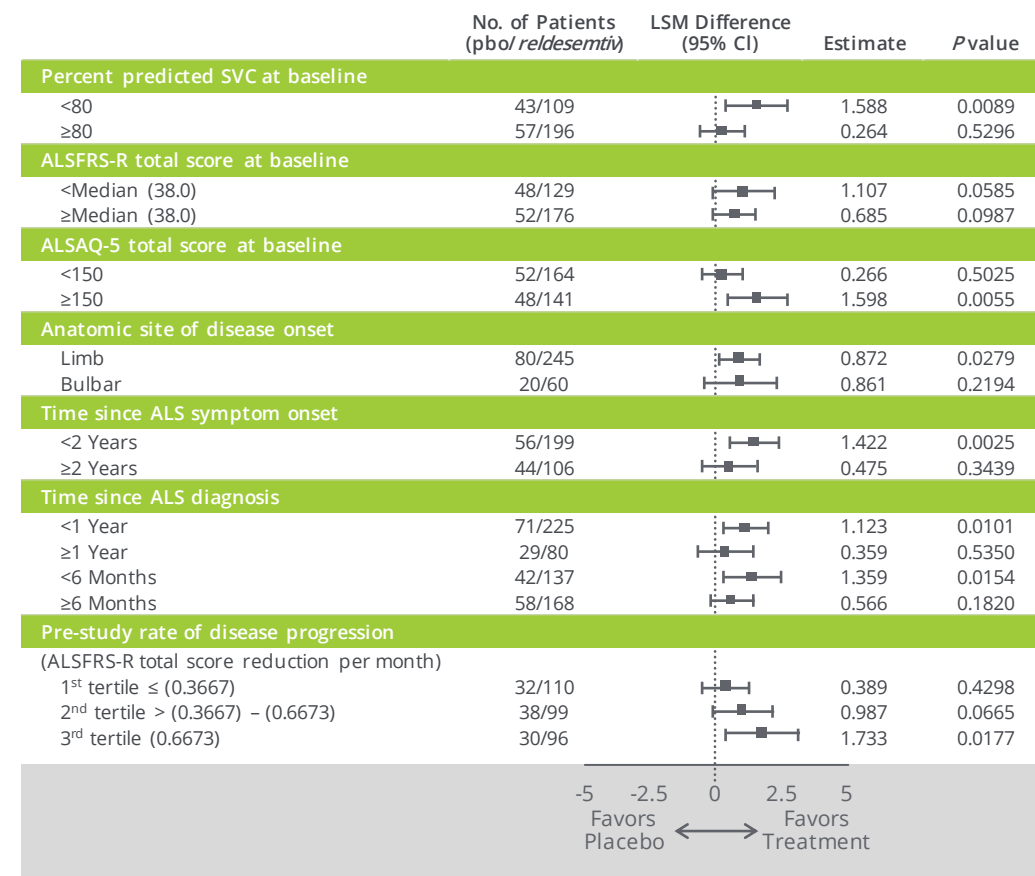
*post hoc analysis
FORTITUDE-ALS did not achieve statistical significance, but patients on all dose groups of *reltesemtiv* declined less than patients on placebo

Subgroup Analyses*

Percent Predicted SVC



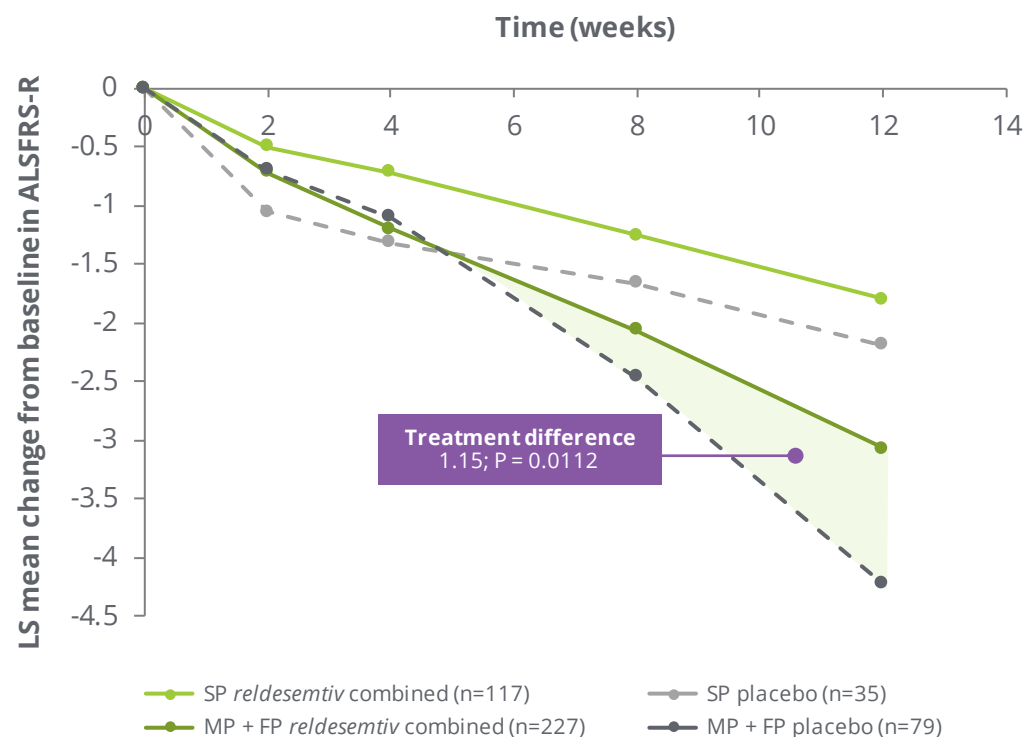
ALSFRS-R Total Score



*FORTITUDE-ALS did not achieve statistical significance, but patients on all dose groups of *reldesemtiv* declined less than patients on placebo

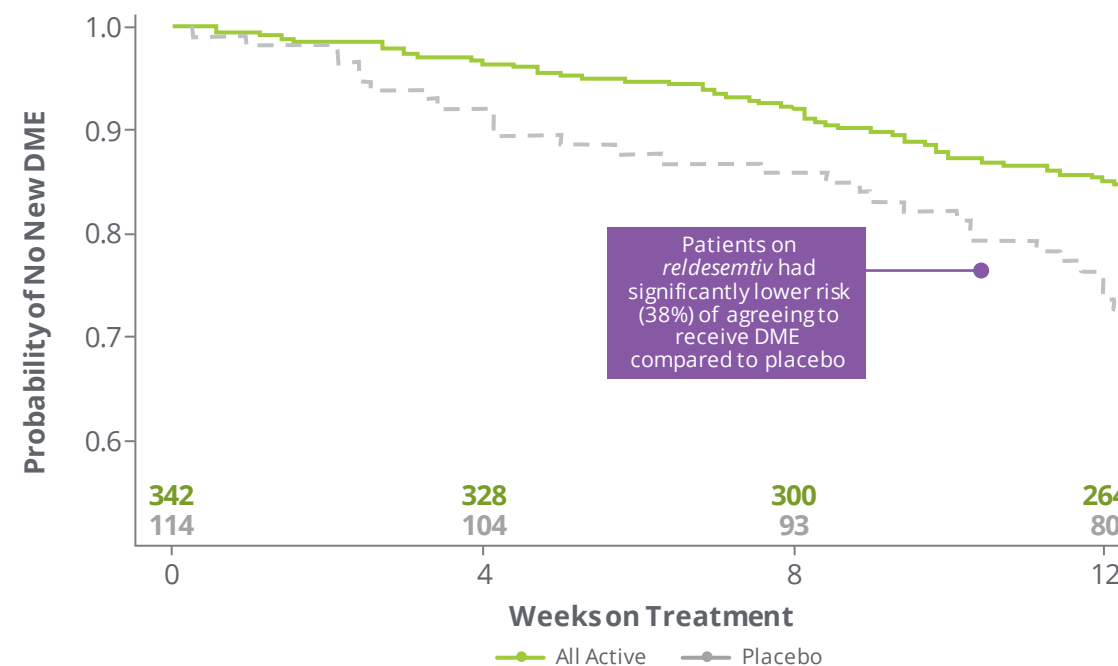
Post-Hoc Analyses Inform Potential Path Forward

Change From Baseline in ALSFRS-R by Progressor Tertiles



Probability of No New DME* Over Time With Treatment With *Reldesemtiv*

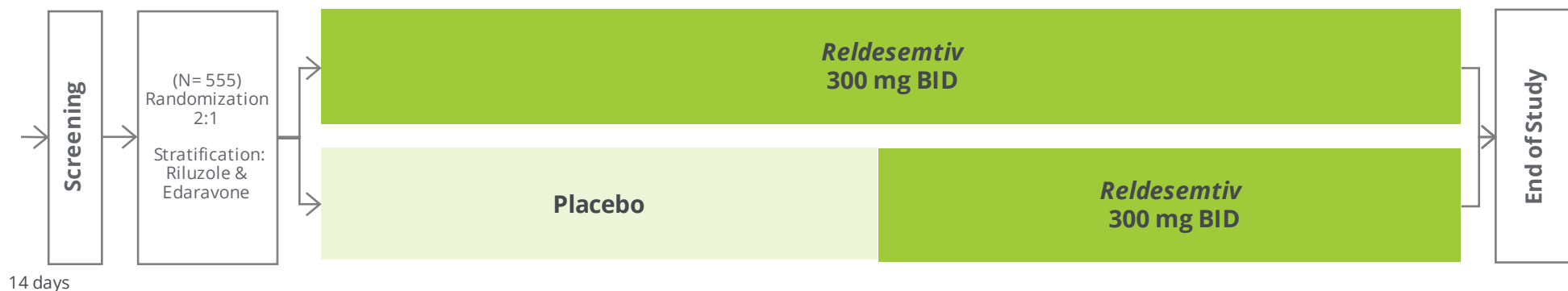
DME (Durable Medical Equipment): Manual wheelchair, power wheelchair, NIV, Augmentative Language Device, PEG



Planned Phase 3 Clinical Trial Design

Trial to open for enrollment in 2021

Enrolling 555 patients with ALS in the US, Canada, Australia and Europe evaluating change from baseline ALSFRS-R at 24 weeks of treatment with *reldesemtiv* or placebo



Study Visits	Screen	D1	W2	W4	W8	W12	W16	W20	W24	W26	W28	W32	W36	W40	W44	W48	W52 FU
ALSFRS-R	↑	↑		↑	↑	↑	↑	↑	↑		↑	↑	↑	↑	↑	↑	↑
FVC	↑	↑		↑	↑	↑	↑	↑	↑		↑	↑	↑	↑	↑	↑	↑
Lab	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑
Muscle Strength	↑	↑		↑		↑			↑				↑			↑	↑

↑ In-Clinic

↑ Remote

↑ Both In-Clinic & Remote

Reldesemtiv: Collaborations & Agreements



Astellas Collaboration

Cytokinetics has exclusive rights to *rel-desemtiv*, CK-601 and other FSRAs

Cytokinetics has exclusive control and responsibility for development and commercialization of *rel-desemtiv*, CK-601 and other fast skeletal regulatory activators

Astellas to pay certain costs up to \$12M for potential Phase 3 clinical trial of *rel-desemtiv* in ALS




Cytokinetics to pay Astellas low- to mid- single digit **royalty on sales** of *rel-desemtiv* in certain countries

Astellas has funded **joint research program** with 15 Cytokinetics employees through 2020

Sarcomere Directed Therapies

CORPORATE PROFILE

Robust Pipeline, Solid Financial Position

Pipeline*	1	Positive trial readout in Q4 2020	2	Pivotal trials in 2021	3	Potential FDA approvals by 2025	5	Clinical stage programs	10	Development programs by 2025
Programs*	Heart Failure <i>Omecamtiv mecarbil</i> <ul style="list-style-type: none">Positive outcomes trial results from GALACTIC-HFPhase 3 exercise capacity trial results early 2022		 CK-136 <ul style="list-style-type: none">Phase 1	HCM CK-274 <ul style="list-style-type: none">Phase 2 trial results from REDWOOD-HCM mid-year 2021		ALS <i>Reldesemtiv</i> <ul style="list-style-type: none">Prepare for COURAGE-ALS, potential Phase 3 trial		Ongoing R&D Additional research in muscle biology, energetics & metabolism 		
Foundations	 195 Full time employees				\$460M At Q1 2021 More than two years of cash runway					

* Timelines and milestones reflect Cytokinetics' current expectations and beliefs

Cytokinetics Financing History

in millions

Investors

<i>As of 3/31/2021</i>	Financing	Equity	Upfront Cash, Option, & Milestones	R&D Reimbursement	Total
Private Investors (VCs)		\$116			\$116
IPO		\$94			\$94
Public Post-IPO/Other		\$609			\$609
Term Loan	\$45				\$45
Convertible Debt (net)*	\$120.5				\$120.5
	\$165.5	\$819			\$984.5

Strategic Partners & Grants

RTW/Ji Xing		\$50	\$113		\$163
Astellas		\$10	\$130	\$103	\$243
Amgen		\$43	\$145	\$58	\$246
Royalty Pharma		\$10	\$90	–	\$100
GSK		\$24	\$22	\$33	\$79
AstraZeneca		–	–	\$2	\$2
MyoKardia		–	–	\$2	\$2
Global Blood		–	–	\$2	\$2
Grants (ALS Assoc/NINDS/other)		–	\$6	–	\$6
		\$137	\$506	\$200	\$843

Capital raised:
combination of
strategic partners
and investors

**Net of fees and expenses, and Capped Call costs*

Balance Sheet & Financial Guidance

Ended Q1 with 2+ years cash runway based on 2021 guidance

2021 Condensed Balance Sheet

As of 3/31/2021

	<i>in millions</i>
	Total
Cash and investments	\$460.2
Leased assets	\$86.1
Other assets	\$30.8
Total Assets	\$577.1
Debt	\$134.0
Liability related to sale of future royalties	\$168.9
Deferred Revenue	\$87.0
Lease liability	\$85.6
Other liabilities	\$33.7
Total Liabilities	\$509.2
Working capital	\$397.2
Accumulated deficit	(\$1,039.4)
Stockholders' equity	\$67.8
Wtd Avg Basic Shares Outstanding	71.2

2021 Financial Guidance

	<i>in millions</i>
	Total
Cash Revenue	\$23 – 28
Cash Operating Expenses*	\$195 – 205
Net	~\$160-170

*We expect to revise our financial guidance mid-year once we finalize strategies and potential commercial launch plans for *omecamtiv mecarbil*. Executing on those strategies and plans may result in our incurring significant additional expenses that were not included in our current financial guidance.

Upcoming 2021 Milestones

Continue to Engage Regulatory Authorities for ***Omecamtiv Mecarbil*** in Q2 2021; Submit US NDA in 2H 2021

Develop Go-To-Market Strategy and Launch Plan for ***Omecamtiv Mecarbil*** in 1H 2021

Expect to Complete Enrollment in **METEORIC-HF** in 1H 2021

Expect Results from **REDWOOD-HCM** in mid-2021

Expect to Begin **Phase 3 Trial of CK-274** by Year End

Conduct Start-Up Activities for COURAGE-ALS, Phase 3 Clinical Trial of ***Reldesemtiv*** in Patients with ALS



THANK YOU

Sarcomere Directed Therapies



John, diagnosed with heart failure



Jillian, diagnosed with HCM



Chuck, diagnosed with ALS