

Fokus Herz Bern 2025

Eine neue Ära der Behandlung der hypertrophen Kardiomyopathie

Christiane Gruner Universitäres Herzzentrum Zürich UniversitätsSpital Zürich, Schweiz christiane.gruner@usz.ch

Disclosures

Speaking and consulting honoraria Bristol Myers Squibb Speaking and consulting honoraria Cytokinetics



Hypertrophic cardiomyopathy – mile stones



USZ Universitäts Spital Zürich

Braunwald E, Global Cardiology Science and Practice 2012;5:2-5 Feigenbaum H, Circulation 1996; 93:1321-1327

Hypertrophic cardiomyopathy – treatment development





Gene therapy





Helms et al, JACC:Basic to Tranlsation Science 2022; 7(1):70-83 Maurer MS et al, NEJM 2023: 398(17):1553-65 Greenberg et al; NEJM 2025;392:972-83

Gene therapy



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(Hypertrophic) cardiomyopathy – myosin modulators





Lehman et al, Nat Rev Cardiol 2022; 19(6):353-363

Mavacamten for treatment of symptomatic obstructive hypertrophic cardiomyopathy (EXPLORER-HCM): a randomised, double-blind, placebo-controlled, phase 3 trial

Iacopo Olivotto, Artur Oreziak, Roberto Barriales-Villa, Theodore P Abraham, Ahmad Masri, Pablo Garcia-Pavia, Sara Saberi, Neal K Lakdawala, Matthew T Wheeler, Anjali Owens, Milos Kubanek, Wojciech Wojakowski, Morten K Jensen, Juan Gimeno-Blanes, Kia Afshar, Jonathan Myers, Sheila M Hegde, Scott D Solomon, Amy J Sehnert, David Zhang, Wanying Li, Mondira Bhattacharya, Jay M Edelberg, Cynthia Burstein Waldman, Steven J Lester, Andrew Wang, Carolyn Y Ho, Daniel Jacoby, on behalf of EXPLORER-HCM study investigators*

Dose-Blinded Myosin Inhibition in Patients With Obstructive Hypertrophic Cardiomyopathy Referred for Septal Reduction Therapy: Outcomes Through 32 Weeks

Milind Y. Desai[®], MD, MBA; Anjali Owens[®], MD; Jeffrey B. Geske, MD; Kathy Wolski, MPH; Sara Saberi[®], MD, MS; Andrew Wang[®], MD; Mark Sherrid[®], MD; Paul C. Cremer[®], MD, MS; Srihari S. Naidu[®], MD; Nicholas G. Smedira[®], MD, MBA; Hartzell Schaff[®], MD; Ellen McErlean, RN, MSN; Christina Sewell[®], RN; Aarthi Balasubramanyam; Kathy Lampl, MD; Amy J. Sehnert[®], MD; Steven E. Nissen[®], MD

Effect of Mavacamten on Chinese Patients With Symptomatic Obstructive Hypertrophic Cardiomyopathy The EXPLORER-CN Randomized Clinical Trial

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VOL. 390 NO. 20

Aficamten for Symptomatic Obstructive Hypertrophic Cardiomyopathy

MAY 30, 2024

M.S. Maron, A. Masri, M.E. Nassif, R. Barriales-Villa, M. Arad, N. Cardim, L. Choudhury, B. Claggett, C.J. Coats, H.-D. Düngen, P. Garcia-Pavia, A.A. Hagège, J.L. Januzzi, M.M.Y. Lee, G.D. Lewis, C.-S. Ma, M. Michels, I. Olivotto, A. Oreziak, A.T. Owens, J.A. Spertus, S.D. Solomon, J. Tfelt-Hansen, M. van Sinttruije, J. Veselka, H. Watkins, D.L. Jacoby S.B. Heitner, S. Kupfer, F.I. Malik, L. Meng, A. Wohltman, and T.P. Abraham, for the SEQUOIA-HCM Investigators*

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	Mavacamten	Aficamten
T1/2	6-9 days	3-4 days
CYP2C19	yes	no
Approved	yes	not yet

	Mavacamtenª			Aficamten ^b
	EXPLORER-HCM	VALOR-HCM	EXPLORER-CN	SEQUOIA-HCM
Phase 3 trials (number of patients)	30 weeks (n = 251)	16 weeks (n = 112)	30 weeks (n = 81)	24 weeks (n = 282)
Key inclusion criteria	 peak LVOT gradient of ≥50 mm Hg at rest or after Yalsalva LVEF of 255% NYHA class II or III 	 peak LVOT gradient of ≥ 50 mm Hg at rest or after Valsalva LVEF of ≥ 60% VYHA class III/V or class II with exertional syncope referred for and actively considering SRT on maximally tolerated background HCM therapy 	 peak LVOT gradient of ≥ 50 mm Hg at rest or after Valsaba LVEF of ≥55% NYHA class II or III 	LVEF ≥ 60% LVOT gradient ≥ 30 mm Hg at rest and ≥ 50 mm Hg after Valsalva NYHA class II or III decreased exercise capacity, defined by a predicted peak oxygen uptake of 90% or less based on age and sex
Key patient characteristics	 mean age 59 years 59% men 73% NYHA class II, 27% class III/IV 75% on beta blockers 	 mean age 60 years 51% men 93% NYHA class III/IV, 7% class II 75% on beta blockers (36% on combination therapy, including disopyramide) 	 mean age 52 years 72% men 82% NYHA class II, 18% class III 89% on beta blockers 	 mean age 59 years 59% men 76% NYHA class II, 24% class III/IV 61% on beta blockers (11% on disopyramide) 15% not on background HCM thren py
starting dose and dose titration	5 mg/day with dose titration at 8 and 12 weeks		2.5 mg/day with dose titration at 8, 14, and 20 weeks	5 mg/day with dose titration at 2, 4, and 6 weeks
(ey primary endpoint(s)	1.5 mL/kg/min or greater increase in pVO ₂ and at least one NYHA class reduction or 3.0 mL/kg/min or greater increase in pVO ₂ without NYHA class worsening	patient deciding to proceed with SRT or continuing to meet guideline eligibility for SRT	change in Valsalva LVOT peak gradient from baseline to week 30	change in pVO_2 from baseline to week 24
Key secondary endpoints	change from baseline to week 30:	change from baseline to week 16:	proportion of patients at week 30 with	change from baseline to week 24:
	 post-exercise LVOT gradient pVO2 proportion of patients with at least one NYHA class improvement KCCQ-23 CS5 HCMSQ subscore 	 post-exercise LVOT gradient NYHA functional class KCCQ-23 CSS NT-proBNP cardiac troponin l 	Valsaka LVOT peak gradient <30 mm Hg Valsaka LVOT peak gradient <50 mm Hg at least 1 NYHA class improvement change from baseline to week 30: resting LVOT peak gradient KCCQ-23 CSS NT-proBNP high-sensitivity cardiac troponin I LVMI evaluated by cardiac	KCCQ-23 CSS NYHA class LVOT Valsalva gradient Valsalva LVOT gradient < 30 mm Hg duration of eligibility for SRT to tal workload on CPET change from baseline to week 12: KCCQ-23 CSS NYHA functional class LVOT Valsalva gradient Valsalva LVOT gradient valsalva LVOT gradient
Criteria for therapy	LVEF <50% for temporary interruption or		magnetic resonance	LVEF <40%
nterruption Dose adjustments and	<30% for permanent discontinuation core-lab			site-read
herapy interruptions rug dosages	last dose at end of double-blind period:	last dose at end of double-blind	last dose at end of double-blind period:	dose at end of escalation phase:
	 2.5 mg = 6% 5 mg = 49% 10 mg = 33% 15 mg = 11% 	period: • 2.5 mg = 21% • 5 mg = 23% • 10 mg = 34% • 15 mg = 21%	 2.5 mg = 6% 5 mg = 5% 10 mg = 30% 15 mg = 4% 	• 5 mg = 3% • 10 mg = 13% • 15 mg = 35% • 20 mg = 49%
rimary findings	37% of patients on mavacamten vs. 17% on placebo met the primary endpoint (difference + 19.4%, 95% Cl, 8.7 to 30.1; $p = 0.0005$)	76.8% of patients assigned to placebo and 17.9% assigned to mavacamten met guideline criteria or underwent SRT (difference 58.9%, 95% CI, 44.0 to 73.9; p < 0.001)	LSM difference in post-Valsalva LVOT gradient between mavacamten and placebo was -70.3 mm Hg (95% CI, -89.6 to -50.9 mm Hg; one-sided p < 0.001)	LSM difference in pVO ₂ between aficamten and placebo was 1.7 mL/kg/min (95% CI, 1.0 to 2.4; p < 0.001)
ey secondary findings	all key secondary endpoints were significantly positive in favor of mavacamten vs. placebo	*		all key secondary endpoints were significantly positive in favor of aficamten vs. placebo
/EF reduction uring trial	-4.0%; 95% Cl, -5.5 to -2.5		LSM change, 3.7% in mavacamten vs. 3.0% in placebo	-4.8%; 95% Cl, -6.3 to -3.2
VEF < 50%	total of 9 patients through week 30 (5 during the study at week 26 [3 on mavacamten and 2 on placebo] and an additional 4 on mavacamten at week 30	total of 2 patients on mavacamten through week 16	0 patients through week 30	total of 5 patients on aficamten through week 24 and 1 on placebo

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Desai and Braunwald, Med July 2024: 655-659

	Mavacamten ^a	Aficamten ^b		
	EXPLORER-HCM	VALOR-HCM	EXPLORER-CN	SEQUOIA-HCM
Phase 3 trials (number of patients)	30 weeks (n = 251)	16 weeks (n = 112)	30 weeks (n = 81)	24 weeks (n = 282)
Key inclusion criteria	 peak LVOT gradient of ≥ 50 mm Hg at rest or after Valsalva LVEF of ≥55% NYHA class II or III 	peak LVOT gradient of ≥ 50 mm Hg at rest or after Valsalw LVEF of ≥60% NYHA class III/V or class II with exertional syncope referred for and actively considering SRT on maximally tolerated background HCM therapy	 peak LVOT gradient of ≥ 50 mm Hg at rest or after Valsava LVEF of ≥55% NYHA class II or III 	 LVEF ≥ 60% LVOT gradient ≥ 30 mm Hg att rest and ≥ 50 mm Hg after Valsalva NYHA class II or III decreased exercise capacity, defined by a predicted peak exygen uptake of 90% or less based on age and sex
Key patient characteristics	 mean age 59 years 59% men 73% NYHA class II, 27% class III/IV 75% on beta blockers 	 mean age 60 years 51% men 93% NYHA dass III/IV, 7% class II 75% on beta blockers (36% on combination therapy, including displayed blockers) 	 mean age 52 years 72% men 82% NYHA class II, 18% class III 89% on beta blockers 	 mean age 59 years 59% men 76% NYHA class II, 24% class III/IV 61% on beta blockers (11% on

4/5 patients improvement of:NYHA functional classPeak VO2

- LVOT obstruction
- Cardiac biomarkers

	 2.5 mg = 6% 5 mg = 49% 10 mg = 33% 15 mg = 11% 	 2.5 mg = 21% 5 mg = 23% 10 mg = 34% 15 mg = 21% 	 2.5 mg = 6% 5 mg = 59% 10 mg = 30% 15 mg = 4% 	 5 mg = 3% 10 mg = 13% 15 mg = 35% 20 mg = 49%
Primary findings	37% of patients on mavacamten vs. 17% on placebo met the primary endpoint (difference + 19.4%, 95% Cl, 8.7 to 30.1; p = 0.0005)	76.8% of patients assigned to placebo and 17.9% assigned to mavacamten met guideline criteria or underwent SRT (difference 58.9%, 95% (C1, 44.0 to 73.9; p < 0.001)	LSM difference in post-Valsalva LVOT gradient between mavacamten and placebo was –70.3 mm Hg (95% Cl, –89.6 to –50.9 mm Hg; one-sided p < 0.001)	LSM difference in pVO ₂ between aficamten and placebo was 1.7 mL/kg/min (95% Cl, 1.0 to 2.4; p < 0.001)
Key secondary findings	all key secondary endpoints were significantly positive in favor of mavacamten vs. placebo			all key secondary endpoints were significantly positive in favor of aficamten vs. placebo
LVEF reduction during trial	-4.0%; 95% Cl, -5.5 to -2.5		LSM change, 3.7% in mavacamten vs. 3.0% in placebo	-4.8%; 95% Cl, -6.3 to -3.2
LVEF < 50%	total of 9 patients through week 30 (5 during the study at week 26 [3 on mavacamten and 2 on placebo] and an additional 4 on mavacamten at week 30)	total of 2 patients on mavacamten through week 16	0 patients through week 30	total of 5 patients on aficamten through week 24 and 1 on placebo



Desai and Braunwald, Med July 2024: 655-659

USZ cohort, Dec 2024: n = 31, mean FU 8.6 months (3 – 16 months)





LVEF in %



Hypertrophic cardiomyopathy – myosin inhibitors - myectomy



EUROPE

NORTH AMERICA



2023 Guidelines for the managament of cardiomyopathies, EHJ (2023):00, 1-124 2024 Guideline for the managament of hypertrophic cardiomyopathy, JACC (2024):83:2324-2405

Hypertrophic cardiomyopathy – myosin inhibitors - myectomy



EUROPE

2023 Guidelines for the managament of cardiomyopathies, EHJ (2023):00, 1-124 2024 Guideline for the managament of hypertrophic cardiomyopathy, JACC (2024):83:2324-2405

NORTH AMERICA

Study design: MAVA-LTE (EXPLORER cohort)



After titration, patients were assessed at 12-week intervals between weeks 24 and 156; week 180 was the first visit after a 24-week interval

Mavacamten was temporarily discontinued if site-read LVEF was < 50% at any visit; patients could resume treatment at 1 dose level lower than the previous dose if LVEF was \ge 50% at the follow-up visit 4–6 weeks later

Titration scheme differs from CAMZYOS® (Mavacamten) Product information. For details see www.swissmedicinfo.ch.

Patients completed an 8-week washout period after treatment in EXPLORER-HCM before enrollment in MAVA-LTE. Owing to the COVID-19 pandemic, patients had variable time without receiving treatment after completing the parent study. ^aDose adjustments were based on site-read echocardiography measures of Valsalva LVOT gradient and LVEF. ^bDose adjustment was also possible at week 24 after site-read echocardiography measures of Valsalva LVOT gradient and LVEF. ^bDose adjustment was also possible at week 24 after site-read echocardiography assessment of postexercise LVOT gradient. Subsequent to week 24, dose adjustment was possible if site-read Valsalva LVOT gradient was > 30 mm Hg and LVEF was ≥ 50% EOS, end of study; HCM, hypertrophic cardiomyopathy; LTE, Long-Term Extension; LVEF, left ventricular ejection fraction; LVOT, left ventricular outflow tract; PY, patient-years; QD, once daily



Sustained improvements in LVOT gradients over 3.5 years of treatment



- Improvements in resting and Valsalva LVOT gradients with mavacamten treatment were sustained through weeks 156 and 180, as confirmed by both site-read and central-read echocardiograms
- Overall, 191 patients (82.7%) achieved a central-read Valsalva LVOT gradient of ≤ 30 mm Hg indicative of no obstruction – during the study and remained at or below the 30 mm Hg threshold until the data cutoff



Change in LVEF from baseline through week 180



After an initial reduction in mean LVEF from baseline during the dose titration period, no further clinically meaningful reduction in LVEF through week 180 was observed



Garcia-Pavia et al, EHJ 2024; 45:5071-5083

Safety: TEAEs

	Patients,	Events,	Exposure-adjusted incidence per 100 PY (PY)		
	n (%)	n	Day 1 to week 60	Day 1 to week 252	
TEAEs	228 (98.7)	1870	187.7 (108.2)	174.6 (130.6)	
Events of clinical interest	161 (69.7)	433	50.53 (213.7)	39.55 (402.0)	
Atrial fibrillation	33 (14.3)	68	6.57 (274.1)	4.50 (689.2)	
Cardiac failure	14 (6.1)	15	3.55 (282.0)	1.94 (721.7)	
Ejection fraction decreased	13 (5.6)	15	2.12 (282.9)	1.51 (729.0)	
Serious TEAEs	63 (27.3)	117	11.09 (270.5)	9.13 (657.3)	
CV serious events of clinical interest ^a	28 (12.1)	40	-	-	
Atrial fibrillation	14 (6.1)	20	2.12 (283.3)	1.64 (730.0)	
Cardiac failure	5 (2.2)	5	1.40 (284.9)	0.68 (737.7)	
Ejection fraction decreased	5 (2.2)	5	0.70 (286.1)	0.67 (741.0)	
Drug-related serious TEAEs	10 (4.3)	10 ^b	_	_	
TEAEs resulting in permanent treatment discontinuation	13 (5.6)	17	-	-	
Death	5 (2.2)	5°	_	-	



The exposure-adjusted incidence per 100 PY of all TEAEs was lower for the day 1 to week 252 period than for the day 1 to week 60 period (174.6 vs 187.7)

 Of the 33 patients who experienced TEAEs of atrial fibrillation, 15 (45.5%) had a medical history of atrial fibrillation

- Of the 10 patients who experienced drug-related serious TEAEs, 6 (60.0%) remained on treatment at the data cutoff date
- All 5 deaths that occurred during the study were considered to be unrelated to mavacamten treatment

Garcia-Pavia et al, EHJ 2024; 45:5071-5083

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Garcia-Pavia et al, EHJ 2024; 45:5071-5083

Mavacamten – atrial fibrillation



Incidence of newly recognized atrial fibrillation in patients with obstructive hypertrophic cardiomyopathy treated with Mavacamten

Matteo Castrichini, MD,^{1,2} Said Alsidawi, MD,³ Jeffrey B. Geske, MD,¹ Darrell B. Newman, MD,¹ Adelaide M. Arruda-Olson, MD, PhD,¹ J. Martijn Bos, MD, PhD,² Steve R. Ommen, MD,¹ Konstantinos C. Siontis, MD,¹ Michael J. Ackerman, MD, PhD,^{1,2,4} John R. Giudicessi, MD, PhD^{1,2} Philadelphia - real world

- N = 96
- 23 (24%) history of AF
- 11 (11%) with AF episodes since start Mavacamten (6 pts new onset, 5 pts recurrent)

Mayo - real world

- N = 63
- 17 (27%) history of AF
- 20 (32%) with AF episodes since start Mavacamten (7 pts new onset, 13 pts recurrent)

Atrial Fibrillation in Patients Receiving Mavacamten for Obstructive Hypertrophic Cardiomyopathy



Real-World Incidence, Management, and Outcomes

Thomas A. Boyle, MD, * Nosheen Reza, MD, * Matthew Hyman, MD, PhD, Gregory Supple, MD, Vincent Y. See, MD, MS, Amy Marzolf, CRNP, Nicole Hornsby, CRNP, Alejandro de Feria, MD, Teresa Wang, MD, Kenneth B. Margulies, MD, Anjali Tiku Owens, MD,† David S. Frankel, MD†



Boyle et al, JACC Clinical EP 2025; 2:411-413 Castrachini et al, HeartRhythm2024; 21: 2065-2067

Mavacamten – atrial fibrillation

Study	Ν	Mean age	% Male	History of AF	LVEF	LVOT rest	LAVi	New onset AF
Mava-LTE	228	60	61	41/18%	74%	48mmHg	38ml/m ²	18/8%
Valor – 128 weeks	108	60	54	16/17%	68%	50mmHg	41ml/ml ²	11/10%
Real-world-Philadelphia	96	63	46	23/24%	68%	56mmHg	?	6/6%
Real-world-Mayo	63	60	56	17/27%	70%	?	44ml/ml ²	7/11%



Mavacamten – atrial fibrillation

Study	N	Mean age	% Male	History of AF	LVEF	LVOT rest	LAVi	New onset AF
Mava-LTE Median FU-time 166 weeks	228	60	61	41/18%	74%	48mmHg	38ml/m ²	18/8%/ <mark>2.5%</mark>
Valor – 128 weeks FU-time 120	108	60	54	16/17%	68%	50mmHg	41ml/ml ²	11/10%/ <mark>4.3%</mark>
Real-world-Philadelphia Median FU-time 47 weeks	96	63	46	23/24%	68%	56mmHg	?	6/6% ≈
Real-world-Mayo Median FU-time 32 weeks	63	60	56	17/27%	70%	?	44ml/ml ²	7/11%/ <mark>14%</mark>

Annual incidence of atrial fibrillation in HCM 2-7%



11/2023 – 45 ♂, genotype negative, proBNP 920ng/I, Bisoprolol 7.5mg



01/2025 – 46 중, proBNP 120ng/I, Bisoprolol 7.5mg + Mavacamten 15mg





01/2025 – 46 중, proBNP 120ng/I, Bisoprolol 7.5mg + Mavacamten 15mg









04/2024 – 77♀, diabetes, chronic kidney disease, BMI 34kg/m2, NHYA III



MWTH 21mm basal septum, LVEF 68%, LVEDVi 39ml/m2, 9% LGE, no evidence for infiltrative disease **USZ** Universitäts Spital Zürich







Start Mavacamten

1

		Entnahme Eingang Befund-Nr.	07.10.2024-09:00 07.10.2024-11:43 J410070926	24.06.2024-12:03 24.06.2024-13:33 J406241229	30.04.2024-14:00 30.04.2024-14:40 J404301488	05.04.2024-08:15 05.04.2024-08:50 J404050410	27.02.2024-09:15 27.02.2024-10:42 J402270734
Kreatinin	44 - 80	µmol/l	109 H	111 H	101 H	139 H	159 H
eGFR(Krea) CKD-EPI 2009		ml/min	42 (1)	41 (1)	46 (1)	32 (1)	27 (1)
eGFR(Krea) BIS1-Formel		ml/min	41 (2)	41 (2)	44 (2)	33 (2)	30 (2)
CK, total	< 170	U/I	42	48	56		67
Troponin T, High Sensitive	< 14	ng/l	19 H	21 H	30 H		45 H
NT-proBNP (Roche)	< 738	ng/l	312	386	646	8502 H	10424 H

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year later







year later





	Pre	Latest FU
MWTH	21	15
LVEDVi	35	53
LVOT_prov	150	4
LVEF	68	52



1 year later



NYHA III; Myalgias; most likely not statin-associated – Pause Mavacamten

Hypertrophic cardiomyopathy – (future) therapies





Adapted from Carolyn Ho

Hypertrophic cardiomyopathy – (future) therapies



Bristol Myers Squibb Provides Update on Phase 3 ODYSSEY-HCM Trial April 14, 2025



PRINCETON, N.J.--(BUSINESS WIRE)-- Bristol Myers Squibb (NYSE: BMY) today announced the Phase 3 ODYSSEY-HCM trial evaluating *Camzyos* (mavacamten) for the treatment of adult patients with symptomatic New York Heart Association (NYHA) class II-III non-obstructive hypertrophic cardiomyopathy (nHCM) did not meet its dual primary endpoints of changes from baseline to Week 48 compared to placebo in the Kansas City Cardiomyopathy Questionnaire – Clinical Summary Score (KCCQ-23 CSS) and peak oxygen consumption (pVO2). No new safety signals were observed.

Herzlichen Dank für Ihre Aufmerksamkeit





christiane.gruner@usz.ch