



VELA program week 16 readout

R&D Update

Monday, 29 September 2025

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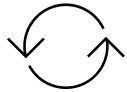
Instructions for this session



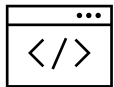
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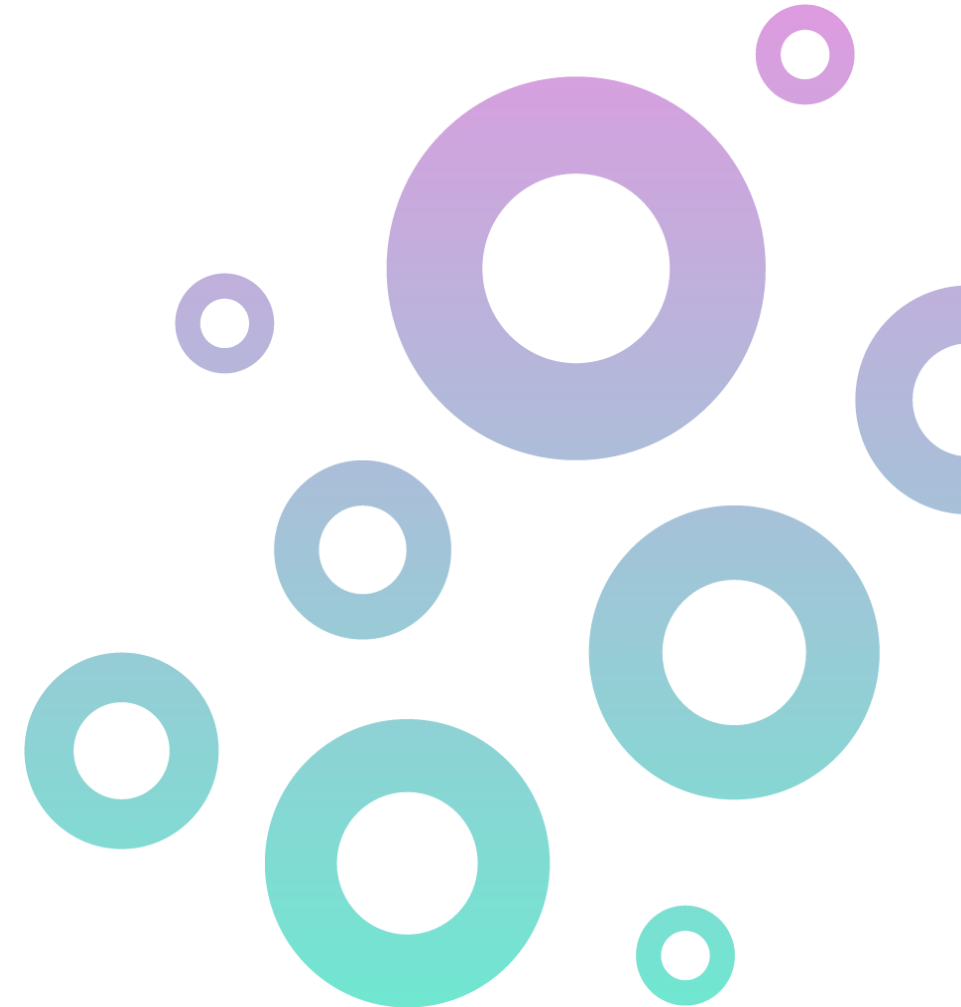
The presentation and a **replay** will be made available on our IR website



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Other requests should be directed to ir@moonlaketx.com or media@moonlaketx.com



VELA-1 and VELA-2 are two identical studies to evaluate efficacy and safety of sonelokimab in adults with moderate-to-severe HS, with the primary endpoint readout at week 16

Combined VELA program demonstrated clinically meaningful and statistically significant improvement across all primary and key secondary endpoints at week 16 using both pre-specified strategies ($p < 0.001$)

- VELA-1 achieved statistical significance for all primary and key secondary endpoints
- In VELA-2, intercurrent events in the higher-than-expected placebo arm precluded the study from achieving statistical significance at week 16 using composite strategy ($p = 0.053$) – using the pre-specified treatment policy strategy VELA-2 also demonstrates statistically significant HiSCR75 response rates at week 16

In VELA-1 and VELA-2 the active sonelokimab arm demonstrated strong responses across endpoints, including competitive HiSCR75 response rate (35% and 36% respectively, treatment policy) and HiSCR50 response rate

Sonelokimab continues to show a differentiated profile, including:

- Leading Patient Reported Outcomes (PROs), e.g., quality-of-life and pain scores
- Favorable safety profile
- Convenient sub-cutaneous dosing scheme with fewer and lower volume injections

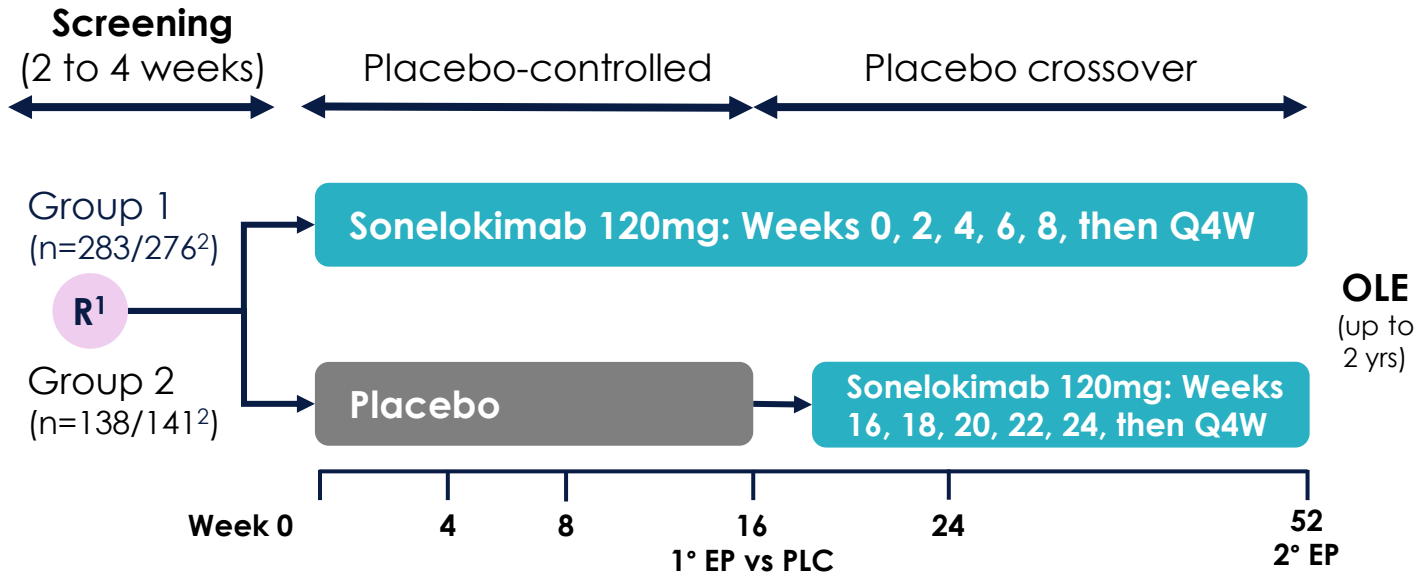
VELA trial progresses and will now seek to confirm the path to registration in HS with the appropriate regulatory authorities

MoonLake continues to advance its pipeline with near-term catalysts approaching in PsA, PPP, and axSpA

Recap: Phase 3 design and endpoints of VELA trials

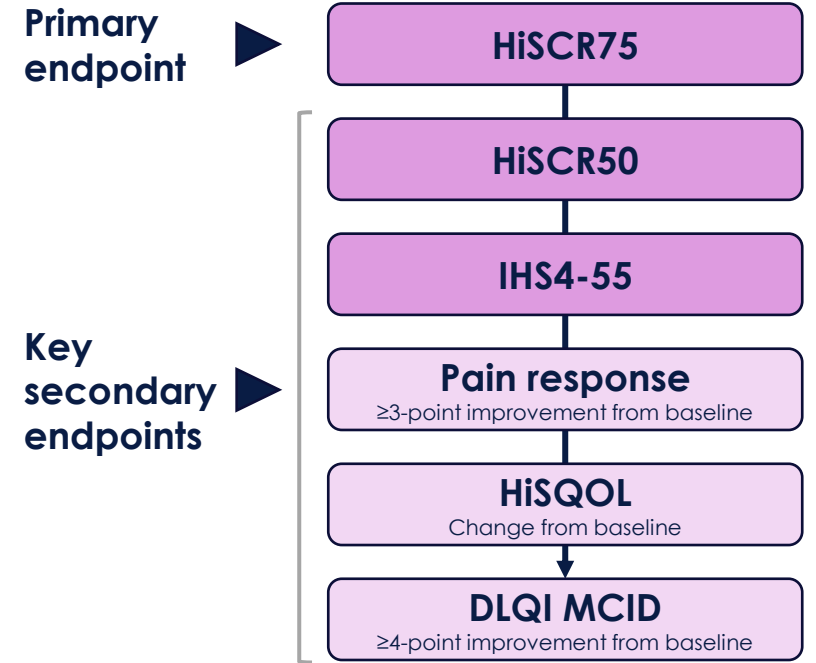
Lesions PROs

Phase 3 study design for VELA-1 and VELA-2



Protocol repeated 2x (n=838 pts) – VELA-1 and VELA-2 (both follow the same protocol)

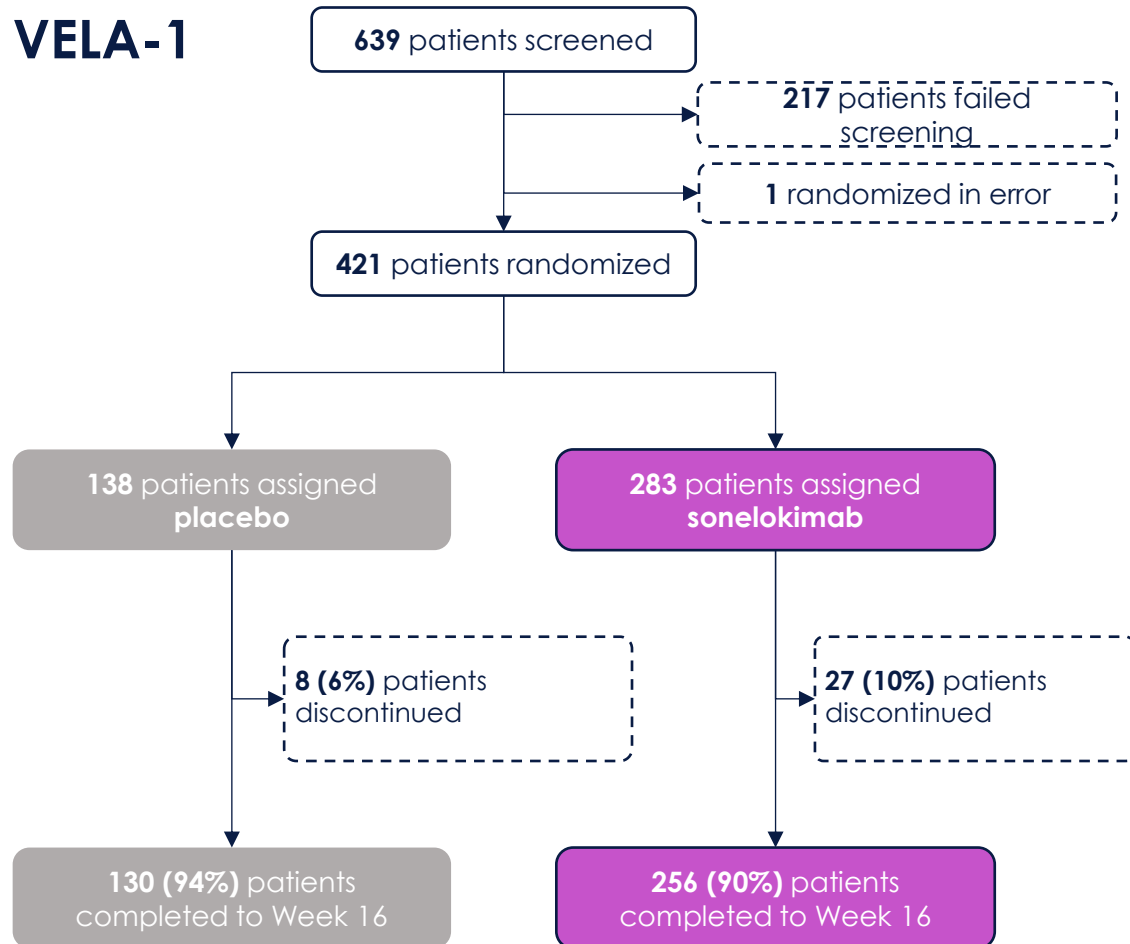
Endpoints – SLK vs placebo W16



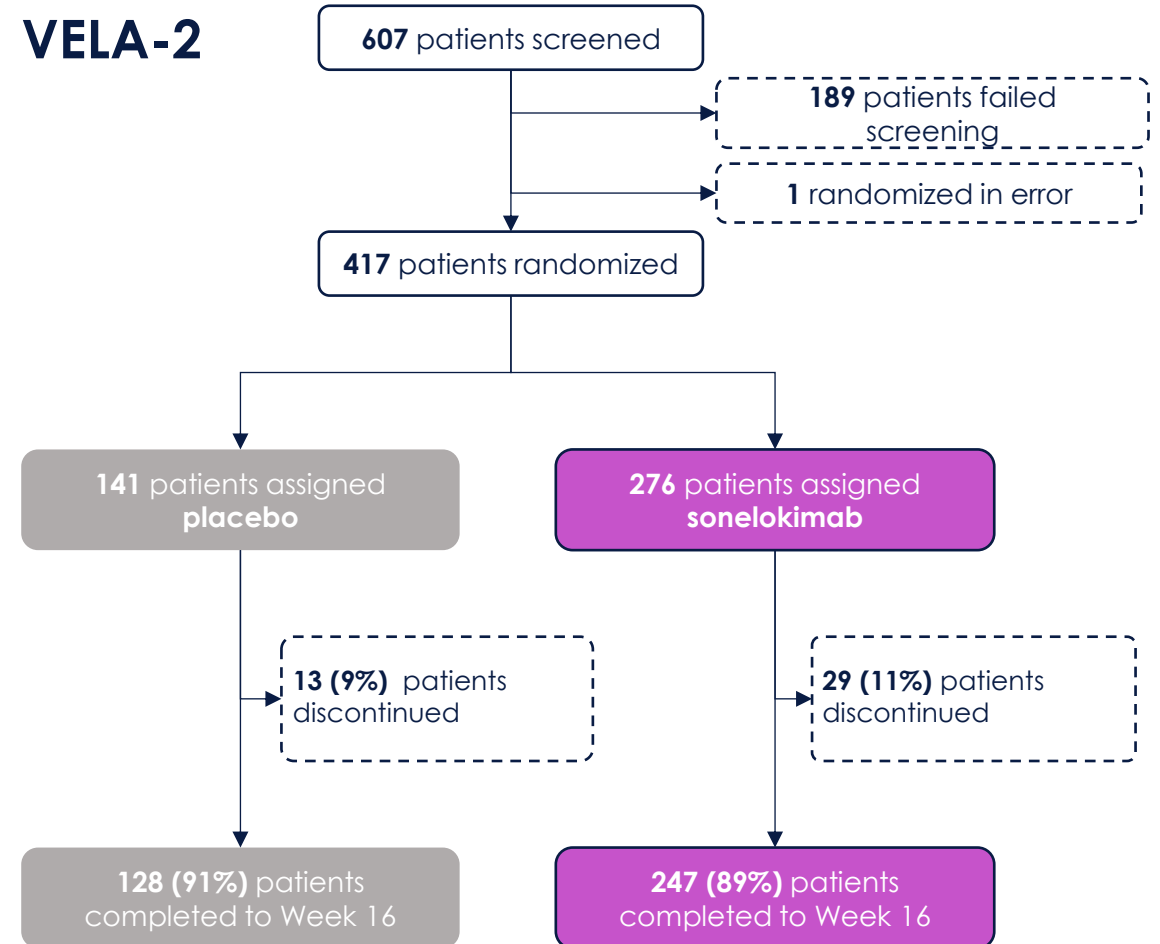
¹ Randomization stratified by Hurley stage status (II vs. III), prior biologic use (Y/N) and geographic region (NA/EU). Patients in Hurley stage III limited to ~40% EoPh2, End of Phase 2; 2 n for VELA-1 and VELA-2 respectively

VELA disposition: More than 90% of patients completed Week 16

VELA-1



VELA-2



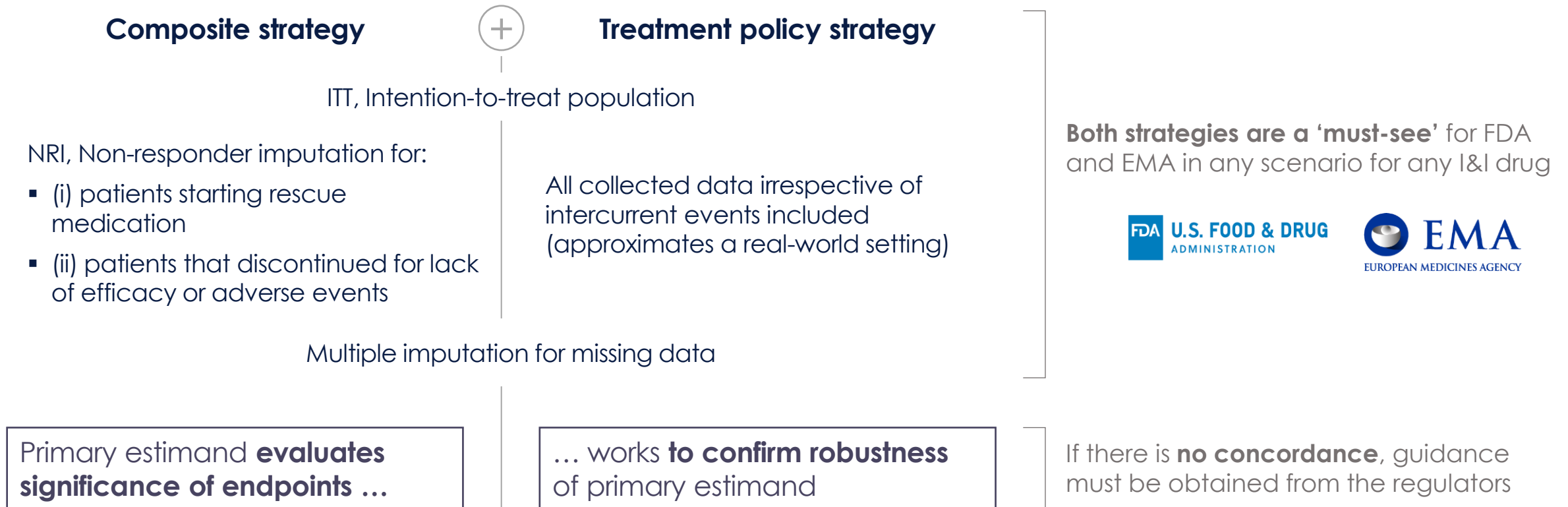
VELA baseline: Patient characteristics balanced across trials



Patient demographics and characteristics	VELA-1		VELA-2	
	Placebo N=138	Sonelokimab N=283	Placebo N=141	Sonelokimab N=276
Age [years], mean	36.1	37.2	38.0	37.2
Female, %	62.3	61.5	49.6	53.6
Race, %				
White	76.1	77.7	85.1	81.5
Black or African American	15.2	12.0	10.6	9.4
BMI [kg/m ²], mean	33.6	33.5	32.7	33.0
Current smoker, %	41.3	43.8	56.0	51.8
Hurley Stage, %				
II	63.8	64.0	67.4	63.0
III	36.2	36.0	32.6	37.0
Years since diagnosis, mean	8.4	8.1	7.7	7.5
Lesions, mean				
AN count	13.3	13.5	13.8	14.5
DT count	2.8	3.2	3.5	3.9
DLQI Total, mean	11.8	11.7	11.3	12.6
HiSQOL Total, mean	27.6	26.5	23.8	28.0
Patient Global Assessment of Skin Pain NRS, mean	4.9	4.7	5.0	4.9
Prior biologic use, %	15.9	15.5	22.0	19.6
Concomitant antibiotics, %	8.7	6.7	7.8	10.5

AN, abscess or inflammatory nodule; BMI, body mass index; DT, draining tunnel; DLQI, Dermatology Life Quality Index; HiSQOL, HS Quality of Life; NRS, numerical rating scale; SD, standard deviation

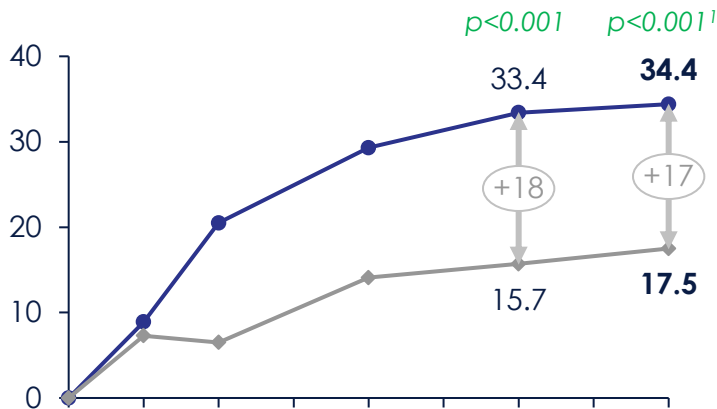
Protocol includes two pre-specified analysis strategies in accordance with regulatory advice



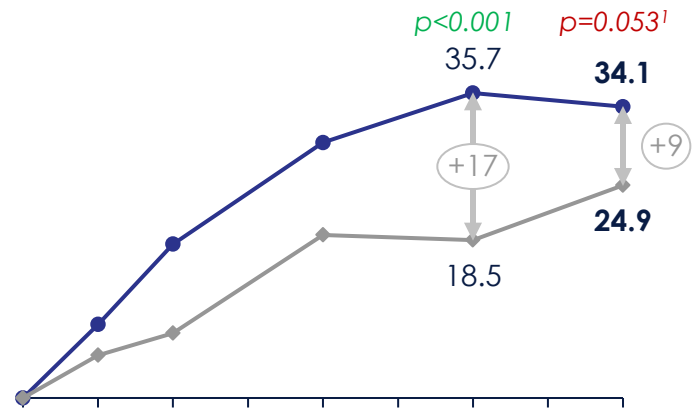
VELA efficacy: SLK shows consistent response – high W16 pbo in VELA-2

Composite strategy analysis (ITT-mNRI)

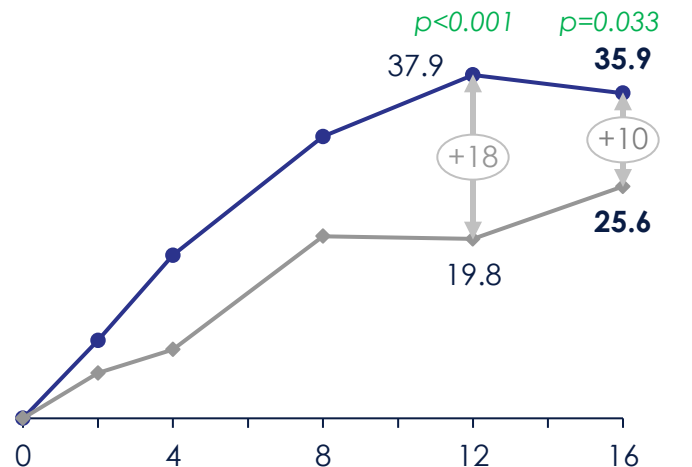
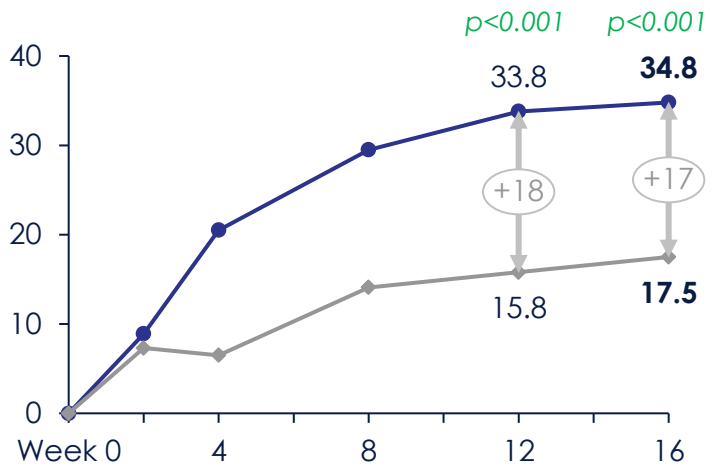
VELA-1 – HiSCR75 response, %



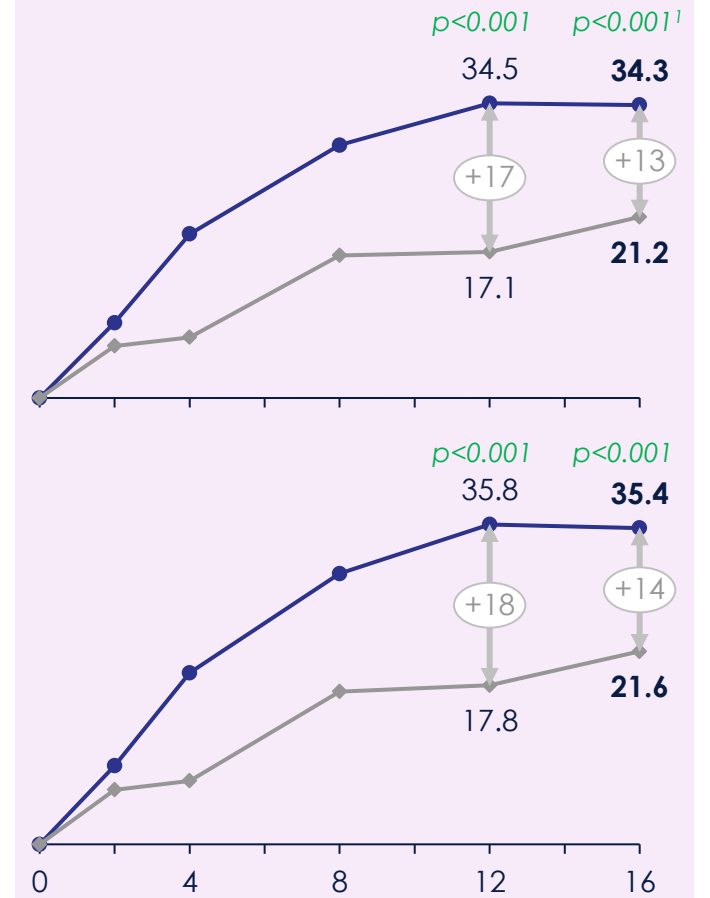
VELA-2 – HiSCR75 response, %



Treatment policy analysis (ITT-MI)



VELA combined – HiSCR75 response, %



Note: HiSCR75 responders, mNRI, VELA-1: SLK 120mg arm (n=283), PBO arm (n=138), VELA-2: SLK 120mg arm (n=276), PBO arm (n=141); 1 Multiplicity control was only applied for testing of the primary and key secondary endpoints at week 16 by composite strategy in VELA-1 and VELA-2 individually

VELA efficacy: SLK demonstrates strong and lasting cross-over response

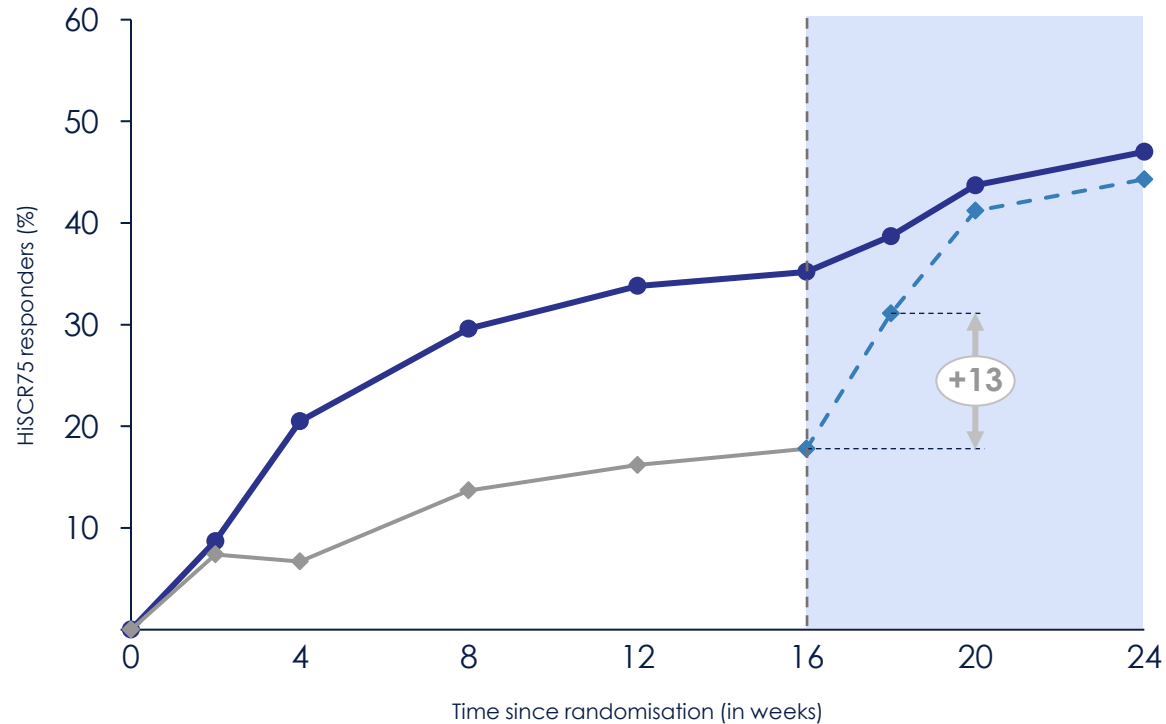


Preliminary data – subject to week 52 database lock

HiSCR75 response, % (as observed)

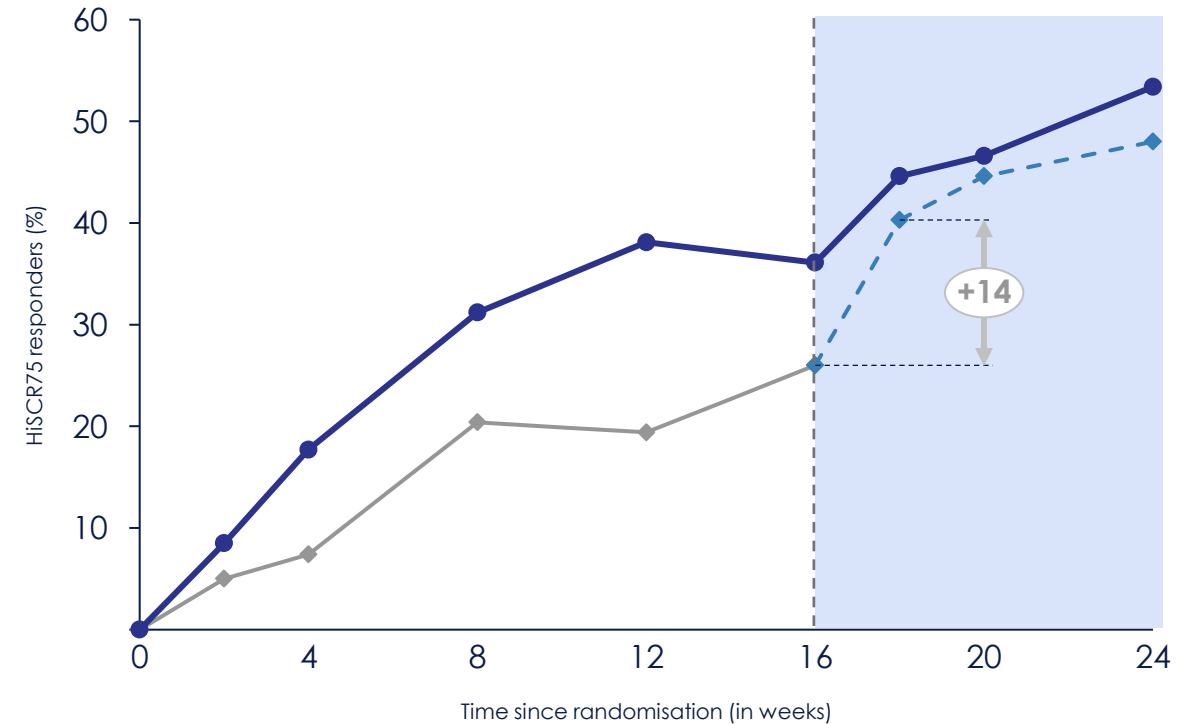
● SLK 120mg ◆ Placebo -◆- Placebo-to-SLK 120mg cross-over

VELA-1



n (SLK)	283	273	270	263	256	229	185
n (PBO)	138	134	131	130	129	114	97

VELA-2



n (SLK)	276	265	263	257	244	232	193
n (PBO)	141	136	137	129	127	121	98

Efficacy for SLK further builds up beyond week 16, with strong placebo cross-over results

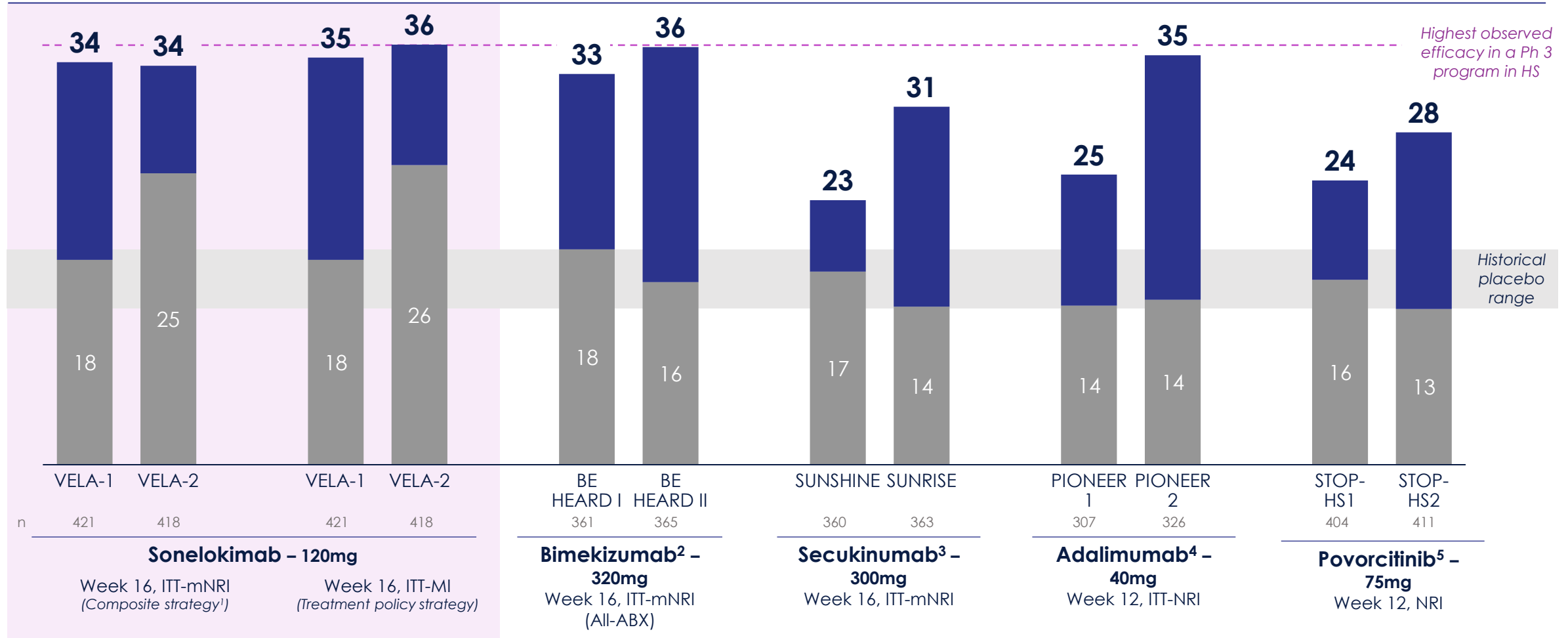
Note: Preliminary, pre-specified analysis suggests continued improvement beyond week 16, subject to week 52 database lock. Not multiplicity-controlled. Week 20 and week 24 n-numbers reflect incomplete data due to trial ongoing.

VELA efficacy: Absolute HiSCR75 response across Ph3 HS programs



HiSCR75 response, % (primary endpoint for SLK)

■ Delta to Placebo
■ Placebo

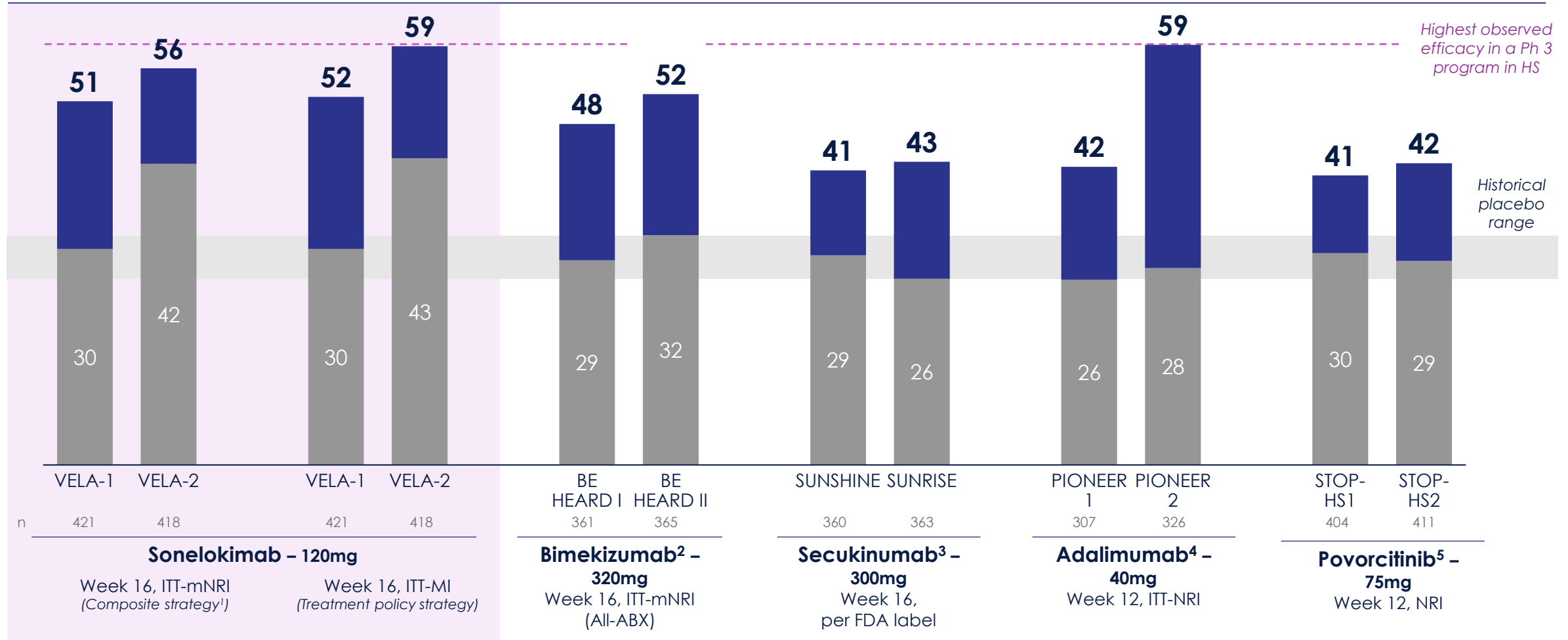


Note: These data are derived from different clinical trials at different points in time, with differences in trial design and patient populations. As a result, cross-trial comparisons cannot be made, and no head-to-head clinical trials have been conducted; 1 Primary estimand; 2 BE HEARD I & II (Kimball A et al. Lancet 2024; 403:2504-2519), considers all patients in Q2W arm until W16; 3 SUNSHINE & SUNRISE (Kimball A et al. EADV 2023), considers all patients in Q4W arm; 4 PIONEER I & II (Porter M, et al. SHSA 2022, P3814 (integrated post-hoc analysis of HiSCR 75 response in PIONEER I and II)), considers all patients; 5 Incyte Investor Presentation March 17, 2025, considers all patients in 75mg arm

VELA efficacy: Absolute HiSCR50 response across Ph3 HS programs

HiSCR50 response, % (primary endpoint for other Ph 3 HS programs)

■ Delta to Placebo
■ Placebo



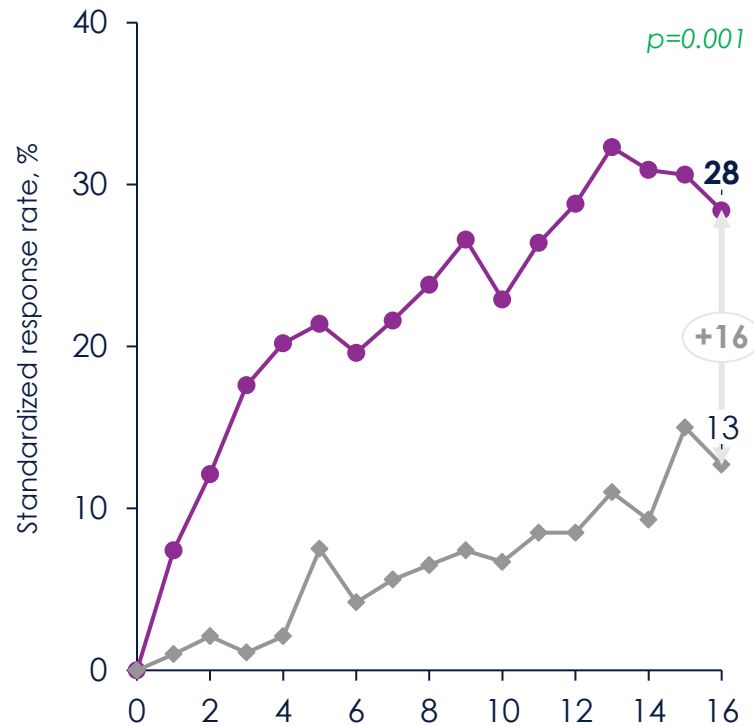
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PRO: Sonelokimab significantly improves pain in HS patients

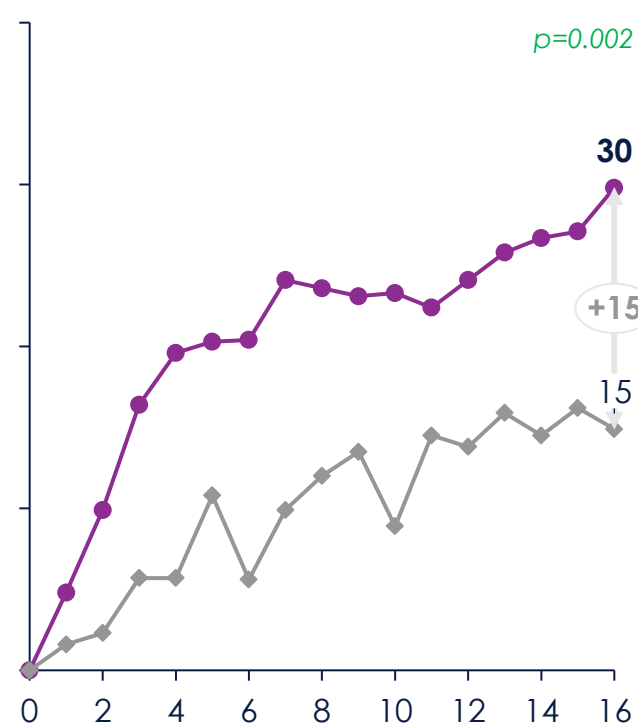


**Pain
NRS-3¹**

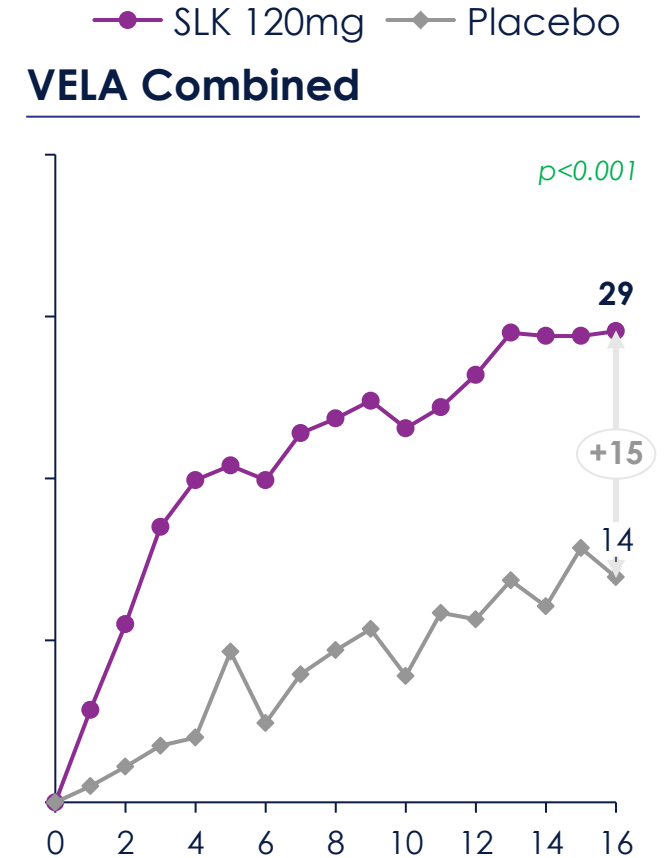
VELA-1



VELA-2



VELA Combined

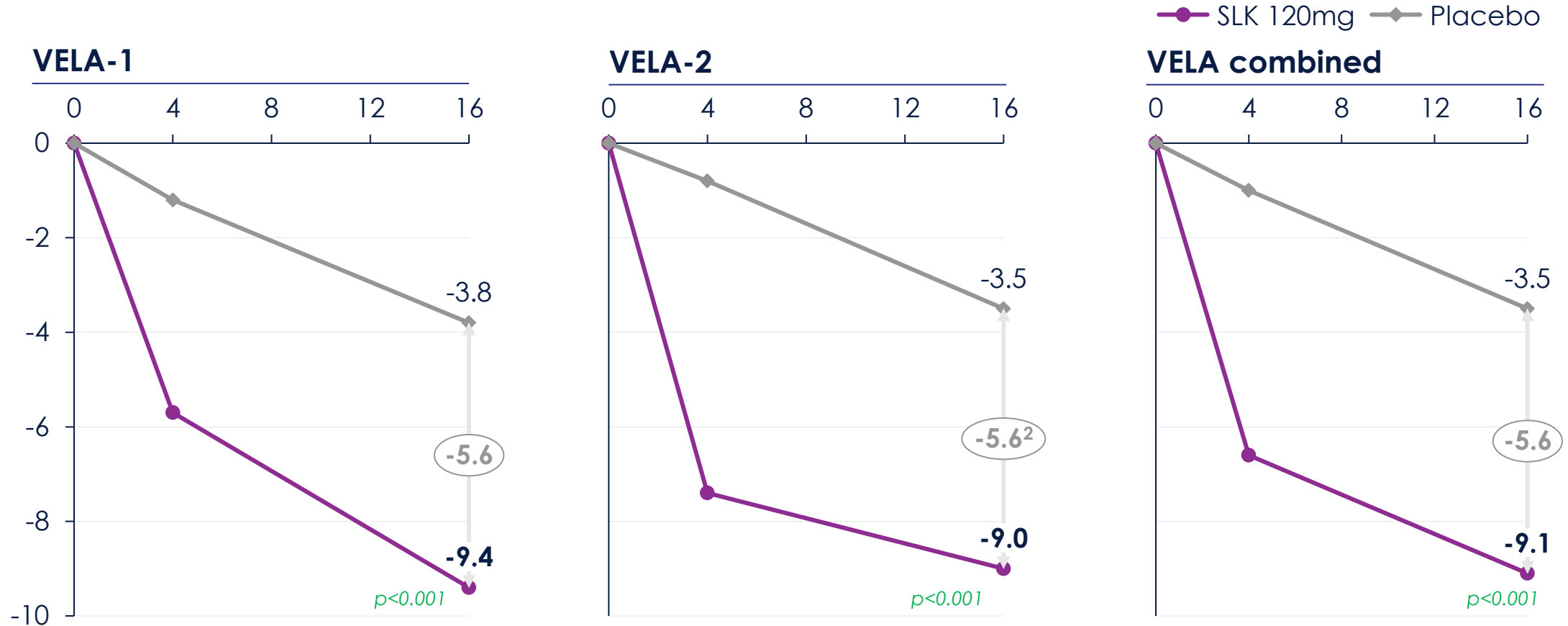


In VELA-1 and VELA-2, ~30% of patients experienced a marked reduction of pain – in line with MIRA (22% response in SLK 120mg)

Note: VELA-1: SLK 120mg arm (n=283), PBO arm (n=138), VELA-2: SLK 120mg arm (n=276), PBO arm (n=141); 1 Pain NRS-3 refers to Worst Pain NRS reduction of at least 3 points, ITT, pre-specified treatment policy strategy, deltas to placebo vary between treatment policy and composite strategy by less than 1.5 percentage points

PRO: Sonelokimab demonstrates high HiSQOL response

HiSQOL
total score
CfB¹



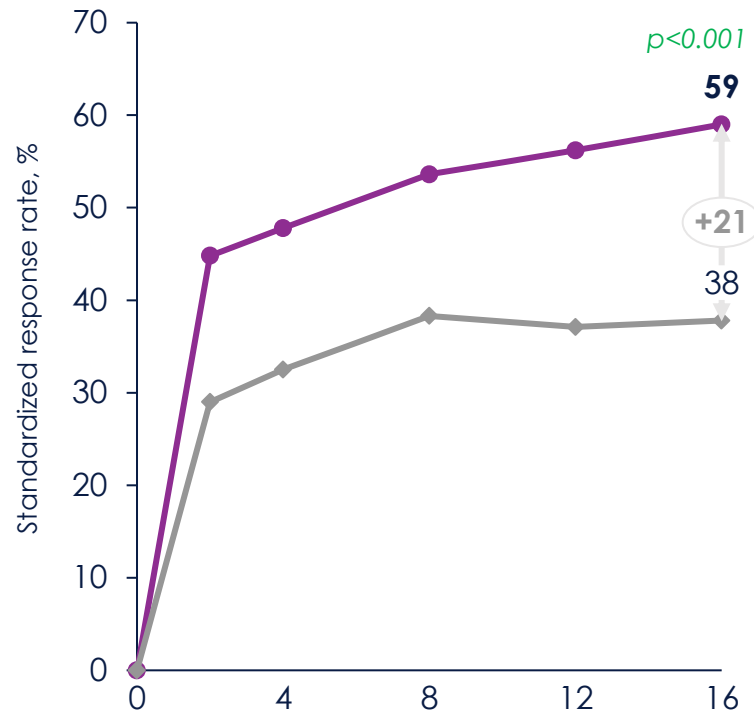
VELA-1 and VELA-2 show strong HiSQOL response – better than MIRA (-4.4pp delta to PBO). Response is highly relevant for patients, capturing unique aspects of HS burden and factors that most strongly affect QOL in real-world clinical practice³

Note: VELA-1: SLK 120mg arm (n=283), PBO arm (n=138), VELA-2: SLK 120mg arm (n=276), PBO arm (n=141); 1 Change from Baseline LS Mean (+/- SE), ITT, pre-specified treatment policy strategy, deltas to placebo vary between treatment policy and composite strategy by less than 0.5 percentage points; 2 Numbers do not add up due to rounding; 3 Garg et al. Br J Dermatol. 2025; 192:261-268

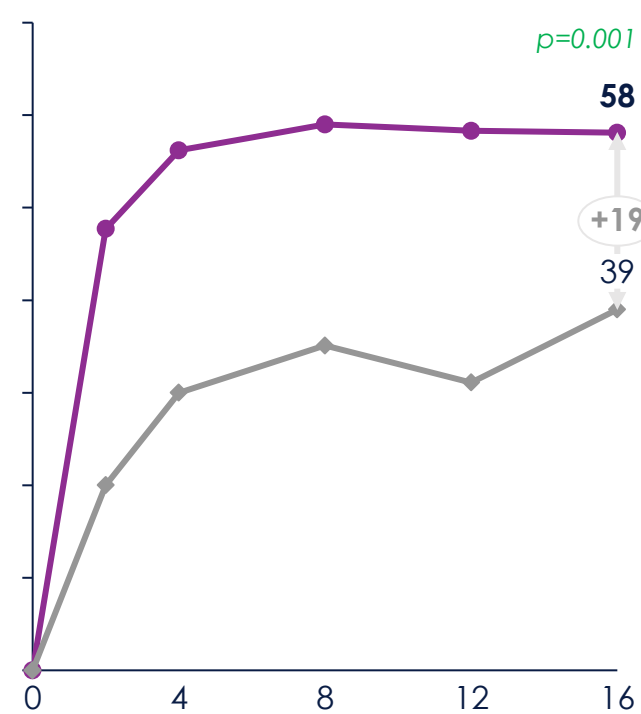
PRO: Sonelokimab demonstrates high DLQI response

DLQI-MCID¹

VELA-1

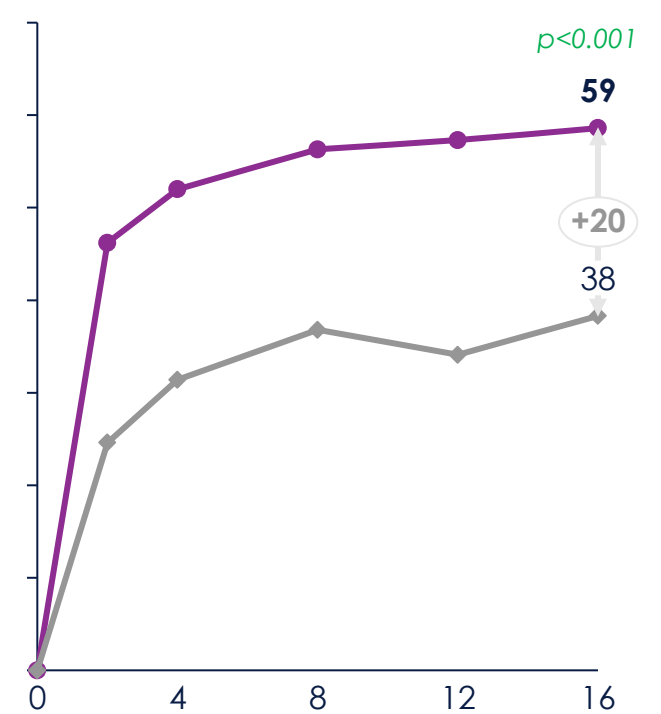


VELA-2



—●— SLK 120mg —●— Placebo

VELA Combined



VELA-1 and VELA-2 shows beneficial DLQI-MCID response – in line with MIRA (22pp delta to PBO)

Note: VELA-1: SLK 120mg arm (n=283), PBO arm (n=138), VELA-2: SLK 120mg arm (n=276), PBO arm (n=141); 1 MCID refers to minimally clinically important difference which reflects a reduction of at least 4 points in the score, ITT, pre-specified treatment policy strategy, deltas to placebo vary between treatment policy and composite strategy by less than 1.5 percentage points

Efficacy: Summary of primary and key secondary endpoints

	VELA-1				VELA-2				VELA combined			
	Placebo (N=138)	SLK 120mg (N=283)	Delta	p-value	Placebo (N=141)	SLK 120mg (N=276)	Delta	p-value	Placebo (N=279)	SLK 120mg (N=559)	Delta	p-value
Composite Strategy (Primary Estimand)												
HiSCR75 (%)	17.5	34.4	16.9	<0.001	24.9	34.1	9.2	0.053	21.2	34.3	13.1	<0.001
HiSCR50 (%)	30.3	51.0	20.7	<0.001	42.2	55.6	13.4	0.011	36.3	53.3	17.0	<0.001
IHS4-55 (%)	33.9	53.2	19.3	<0.001	43.0	54.9	11.9	0.024	38.4	54.1	15.6	<0.001
Pain NRS-3 (%)	11.5	28.4	16.9	<0.001	14.9	29.1	14.1	0.003	11.3	26.4	15.4	<0.001
HiSQOL LSM Cfb	-3.1	-8.8	-5.7	<0.001	-3.3	-8.3	-5.0	<0.001	-3.2	-8.5	-5.3	<0.001
DLQI-4 (%)	36.2	56.8	20.6	<0.001	38.1	55.1	16.9	0.002	37.1	55.9	18.9	<0.001
Treatment Policy												
HiSCR75 (%)	17.5	34.8	17.3	<0.001	25.6	35.9	10.3	0.033	21.6	35.4	13.8	<0.001
HiSCR50 (%)	30.3	51.6	21.3	<0.001	43.0	58.7	15.6	0.003	36.7	55.1	18.4	<0.001
IHS4-55 (%)	34.2	54.4	20.3	<0.001	44.7	56.9	12.3	0.021	39.4	55.7	16.3	<0.001
Pain NRS-3 (%)	12.7	28.4	15.8	0.001	14.9	29.8	14.9	0.002	13.9	29.1	15.2	<0.001
HiSQOL LSM Cfb	-3.8	-9.4	-5.6	<0.001	-3.5	-9.0	-5.6	<0.001	-3.5	-9.1	-5.6	<0.001
DLQI-4 (%)	37.8	59.0	21.2	<0.001	39.0	58.1	19.0	0.001	38.3	58.6	20.3	<0.001

Note: Primary endpoint HiSCR75 in bold

Safety: SLK continues favorable safety profile, with no new signals

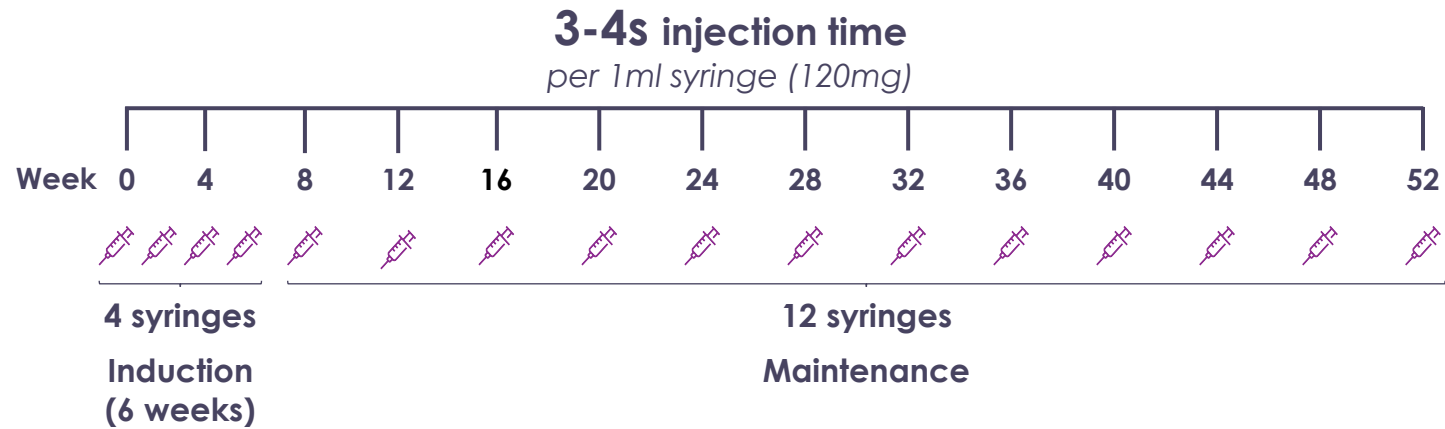


Participants with event, n (%)	Placebo n=279	Sonelokimab 120 mg n=559
Any TEAE	155 (55.6)	376 (67.3)
Any serious TEAE	5 (1.8)	14 (2.5)
Any TEAE leading to treatment discontinuation	4 (1.4)	16 (2.9)
Most frequent TEAEs¹		
Nasopharyngitis	28 (10.0)	48 (8.6)
Headache	14 (5.0)	27 (4.8)
URTI	21 (7.5)	24 (4.3)
Safety topics of interest		
IBD ²	0	0
Diarrhea (non-infectious) ³	1 (0.4)	2 (0.4)
Oral candidiasis ⁴	1 (0.4)	41 (7.3)
Serious hypersensitivity	0	0
Dermatitis & Eczema ⁵	7 (2.5)	20 (3.6)
Serious infections	2 (0.7)	4 (0.7)
SI/B ⁶	0	0
Hepatic events ⁷	3 (1.1)	1 (0.2)
MACE ⁸	0	0

Sonelokimab continues to show a **favourable safety profile** with no new safety signals detected – including an **absence of IBD, SI/B and hepatic event signals**

1 Most frequent TEAEs exclude safety topics of interest and TEAEs with data presentation potentially unblinding the ongoing VELA studies; 2 AESI: Adverse Events of Special Interest; events in adjudication; 3 AESI; 4 Three cases of oesophageal candida and two of oropharyngeal candida reported on SLK; 5 PTs: eczema and dermatitis; 6 Reported adverse events; 7 Hepatic events include all hepatic AEs and lab investigations in adjudication to possible DILI; 8 Events in adjudication.

Sonelokimab treatment scheme – as per VELA trial



Available treatment options
with **up to 18 syringes in
induction phase** and **longer
injection time (up to 25
seconds)**

Note: These data are derived from different clinical trials at different points in time, with differences in trial design and patient populations.

Invited expert: Alexa Kimball (MD, MPH) – disclosures

Institution receives grants: Acelyrn, AnaptysBio, Avalo, Bristol Myers Squibb, Eli Lilly, Incyte, Janssen, Moonlake, Novartis, Pfizer, Prometheus, Regeneron, Sanofi, Sonoma Bio, UCB

Consulting or Honoraria: Abbvie, Avalo, Boehringer Ingelheim, Cellarity, Citryll, Eli Lilly, Evoimmune, Janssen, Merck, Moonlake, Novartis, Nurix, Pfizer, Sanofi, Sonoma Bio, Takeda, Target RWE, UCB, Union Therapeutics, Ventyx, Zura Bio

Other: Member, Board of Directors, Almirall

Invited expert



Alexa Kimball – MD, MPH







Professor of Dermatology at Harvard Medical School

CEO and President of Harvard Medical Faculty Physicians at Beth Israel Deaconess Medical Center (>2400 employees and > USD 1 bn revenue)

Internationally renowned HS and PsO researcher:

- Lead author for all three programs leading to biologics approval in HS – bimekizumab, secukinumab, adalimumab
- >385 published papers
- >150 clinical trials
- Multiple patents and licensing agreements
- Several awards incl. recent American Skin Association 2025 Research Achievement Award in Inflammatory Skin Diseases
- Book author in HS, e.g., “Hidradenitis Suppurativa: Your Questions, Expert Answers.”

MLTX continues to progress its development program

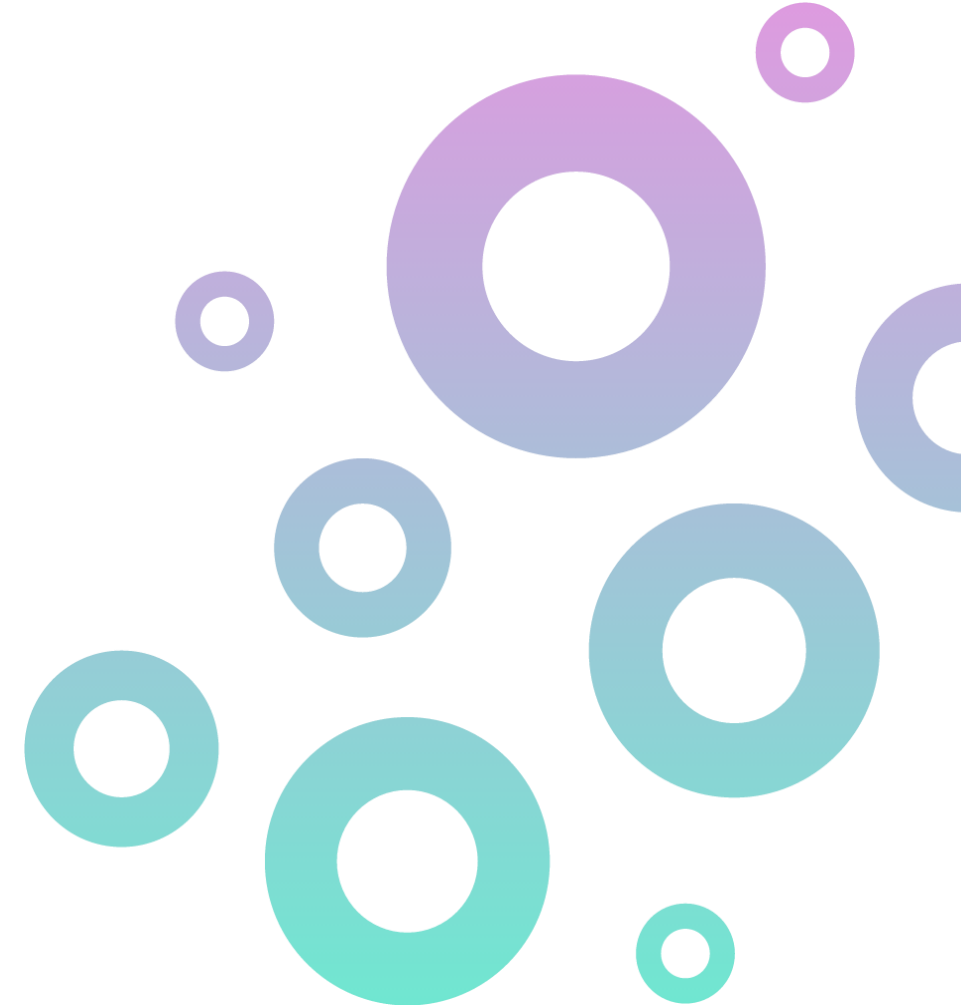
	Indication	Trial	Phase	Key dates ¹ – expected timings		
				Read-out	Filing	Approval
Base indications	Hidradenitis suppurativa <i>Dermatology</i>		3 <i>FPI</i> May 2024	Q3 2025 (1° EP) Q2 2026 (1-year)	Q3 2026	Mid-2027
			3 <i>FPI</i> Dec 2024	H1 2026	Q3 2026	Mid-2027
	PsA <i>Rheumatology</i>		3 <i>FPI</i> Nov 2024	H1 2026 (1° EP) H1 2027 (1-year)	Q3 2027 (sBLA)	Q3 2028
			2	H2 2026 (1° EP)	Q3 2027 (sBLA) ²	
New indications	PPP <i>Dermatology</i>		2 <i>FPI</i> Nov 2024	Q2 2025 (interim) Q4 2025 (1° EP)	TBC	TBC
	axSpA <i>Rheumatology</i>		2 <i>FPI</i> Dec 2024	Q1 2026 (1° EP)	TBC	TBC

¹ Based on current management plans, dates shown are for the US; ². Filing date is only for the PsA part of the study; PPP; palmoplantar pustulosis; PsA, psoriatic arthritis; EP, end point; sBLA, supplemental BLA; axSpA, axial spondyloarthritis

MLTX believes that it has a clear path forward in HS

- MLTX believes that the HS package should be approvable based on all relevant SLK data to date (incl. VELA and MIRA trial data), internal and external assessments, and precedents in HS
- Company will now seek to confirm registration path with the appropriate regulatory authorities
- To that end, guidance from the FDA is being sought in the coming weeks
- SLK continues to show a differentiated profile, matching efficacy, impact on pain and quality of life, safety and convenience

MLTX will present VELA topline data at the 10th Annual Symposium on Hidradenitis Suppurativa Advances (SHSA) in Nashville, TN (October 31 – November 2, 2025)



Q & A





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