

Revolutionizing standard of care in immunology

An introduction to orismilast in hidradenitis suppurativa

December 2024

Copyright 2024 UNION therapeutics A/S. All rights reserved



Legal disclaimer



THIS PRESENTATION IS BEING PROVIDED TO YOU SOLELY FOR YOUR INFORMATION AND MAY NOT BE REPRODUCED OR PUBLISHED (IN WHOLE OR IN PART) OR FURTHER DISTRIBUTED TO ANY PERSON FOR ANY PURPOSE.

This presentation, which includes oral statements made or videos shown at the presentation hereof, any question-and-answer session and any written or oral material discussed or distributed during the meeting to present this document or otherwise in connection with it (this "Presentation") contains confidential information regarding UNION therapeutics A/S (the "Company") and is being provided on a strictly confidential basis. This Presentation is strictly confidential and may not be copied, reproduced, redistributed, passed on, or disclosed, directly or indirectly, to any other person or published, in whole or in part, by any medium or for any purpose. Any unauthorized disclosure of this Presentation or any information contained in or relating to it could damage the interests of the Company and have serious consequences.

This Presentation has been prepared by the Company for information purposes only in connection with discussions relating to the Company as set out in this Presentation and may in particular not be used in making any investment decision. Further, the information contained in the Presentation may not be relied upon for any purpose. Neither the Company nor any other person, legal or natural, accepts any responsibility, obligation or liability in any manner whatsoever for any information contained in this Presentation.

This Presentation is being distributed to selected recipients only and is not intended for distribution to, or use by any person or entity in, any jurisdiction or country where such distribution or use would be contrary to local law or regulation and does not constitute an offer of securities. This Presentation was prepared solely based on information obtained from the Company and public sources on or prior to the date hereof and has not been independently verified. This Presentation only contains summary information and no representation warranty or undertaking, express or implied, is made by the Company, its shareholders (the "Shareholders"). Carnegie Investment Bank, Filial af Carnegie Investment Bank AB (publ), Sverige, Danske Bank A/S or J. P. Morgan SE (collectively, the "Banks") or any of the Company's, each Shareholder's or the Banks' respective affiliates or any of its of their respective directors, officers, employees, advisors or agents (collectively, the "Representatives") or any other person as to, and no reliance should be placed on, the fairness, accuracy, completeness or correctness of the information or the opinions contained therein or any other statement made or purported to be made in connection with the Company, for any purpose whatsoever, including but not limited to any investment considerations. No responsibility, obligation or liability whatsoever. whether arising in tort, contract or otherwise, is or will be accepted by the Company, the Shareholders or the Banks or any of their respective Representatives or any other person for any loss, cost or damage howsoever arising from any use of the information, or for information or opinions or for any errors, omissions or misstatements contained therein or otherwise arising in connection therewith.

All hyperlinks in this Presentation are provided for convenience only. The company does not take responsibility for the referenced content and such content is not incorporated into the Presentation.

This Presentation contains "forward-looking statements". All statements, other than statements of historical facts, included in this Presentation are forward-looking statements. These statements include, but are not limited to, statements regarding the potential benefits the Company's product candidates, including orismilast, will provide for patients; the development and scope of, and the timing and progress (including as to enrolment and data readouts) from, the Company's clinical trials; the success of orismilast as a treatment option for patients with AD, HS, psoriasis or other diseases; the Company's ability to commercialize its product candidates, achieve anticipated milestones and develop, acquire or in-license new clinical programs, the competitive advantage of the Company's product candidates; the Company's business prospects and opportunities including pipeline product development, future plans and intentions, results, level of activities, performance, goals or achievements or other future events; and the potential regulatory approval of the Company's product candidates.

Forward-looking statements can be identified by the use of forward-looking terminology, including but without limitation the terms "believes", "estimates", "anticipates", "projects", "expects", "intends", "may", "will", "seeks" or "should" or, in each case, their negative or other variations or comparable terminology, or by discussions of strategy, plans, objectives, goals, future events or intentions. These statements are based on current expectations and involve risk and uncertainty because they relate to events and depend upon circumstances that may or may not occur in the future. There are a number of factors which could cause actual results or developments to differ materially from those expressed or implied by such forward-looking statements, including changes in the regulatory and compliance environment: undesirable side effects caused by the Company's product candidates; challenges in patient enrolment; the Company's ability to attract and retain management and other key personnel; risks related to the Company's reliance on third-parties; obtaining and maintaining required regulatory approvals; the results and timing of clinical trials conducted regarding the Company's products in development, including the risk of delays with product development and/or clinical trials; the Company's ability to commercialize its product candidates: and risks related to intellectual property rights, and the impact of worsening macroeconomic conditions on the Company's business, financial position, strategy and anticipated milestones, including the Company's ability to conduct ongoing and planned clinical trials. Any of the assumptions underlying forward-looking statements could prove inaccurate or incorrect and therefore any results contemplated in forward-looking statements may not actually be achieved. Nothing contained in these slides and/or the presentation of them should be construed as a profit forecast or profit estimate. Investors and any other recipients of such communications are cautioned not to place reliance on any forward-looking statements.

Further, this Presentation may include market and industry data obtained by the Company from industry publications and surveys. The Company may not have access to the facts and assumptions underlying the numerical data, market data and other information extracted from public sources and as a result neither the Company nor any of the Company's advisors or representatives are able to verify such information and assume no responsibility for the correctness of any such information. Any information contained or views expressed in this Presentation do not purport to be comprehensive and are based on financial, economic, market and other conditions prevailing as of the date of this Presentation and are subject to change without notice. No person shall have any right of action against the Company or any other person in relation to the accuracy or completeness of the information contained in the Presentation.

Neither the Company nor any other person undertakes any obligation to update or revise (publicly or otherwise) any information, statement or forward-looking statement contained in the Presentation, whether as a result of new information, future events or otherwise, except to the extent required by law.

This Presentation does not constitute and is not intended to form part of any offer, or the solicitation of any offer, to buy, subscribe for or sell any shares (or any other security) in the Company or any subsidiary of the Company and nothing in this Presentation shall in any way constitute or form part of any legal agreement or be relied on in connection with, any contract, commitment or investment decision. Each recipient of the information contained in this Presentation is responsible for making its own independent assessment of the business, financial condition, prospects, status and affairs of the Company.

The publication, release, distribution, copy or disclosure of this Presentation in any jurisdiction, including the United States, Australia, Canada, South Africa or Japan, may be restricted by law, including relevant securities regulation and must be made if restricted by such and not pursuant to applicable exemptions. Persons into whose possession this Presentation comes should inform themselves about and observe any such restrictions.

This Presentation and the information contained herein are not a solicitation of an offer to buy securities or an offer for the sale of securities in the United States (within the meaning of Regulation S under the United States Securities Act of 1933, as amended (the "Security Act")). The Company has not and does not expect to register any securities that it may offer under the Securities Act, or the securities laws of any state of the United States or any other jurisdiction thereof, and any such securities Act or an available exemption from it.

This Presentation does not constitute a prospectus for the purposes of Regulation (EU) 2017/1129 of the European Parliament and of the Council of 14 June 2017 on the prospectus to be published when securities are offered to the public or admitted to trading on a regulated market, and repealing Directive 2003/71/EC.

The terms and conditions, under which the Presentation is provided, are governed by Danish law without regard to choice of law principles.

By attending this Presentation and/or receiving this document, you are agreeing to the terms and conditions set forth above.

Introduction to orismilast

Ole, HS patient

ION

UNION's orismilast aims to change standard of care in Hidradenitis Suppurativa (HS)



Significant opportunity in Hidradenitis Suppurativa (HS) for a safe oral with fast pain relief

- HS affects at least 2m people across the US and EU5 and the HS market is expected to grow to around \$4bn by 2034
- Large unmet medical need insufficiently addressed by currently available MoAs with medium efficacy on lesions, limited impact on pain reduction and no benefits for associated cardiovascular comorbidities

Orismilast is a next-generation, oral, high potency, selective PDE4 B/D inhibitor

- PDE4-inhibition commercially and clinically validated by successfully marketed drugs
- Next-generation, higher potency on multiple inflammatory pathways driven by sub-type selectivity
- PDE4-inhibition associated with metabolic benefits clinically translating to weight reduction

Orismilast potential in HS and beyond

- First-in-class opportunity in hidradenitis suppurativa with much needed new mode-of-action early stage data indicates potential to have efficacy on par with or better than existing treatment options
- · First-in-class opportunity as safe oral in atopic dermatitis with fast onset on itch
- Broad potential across other immunological indications, leveraging broad MoA coupled with wellestablished safety profile
- IP protection expected to protect orismilast into 2040s

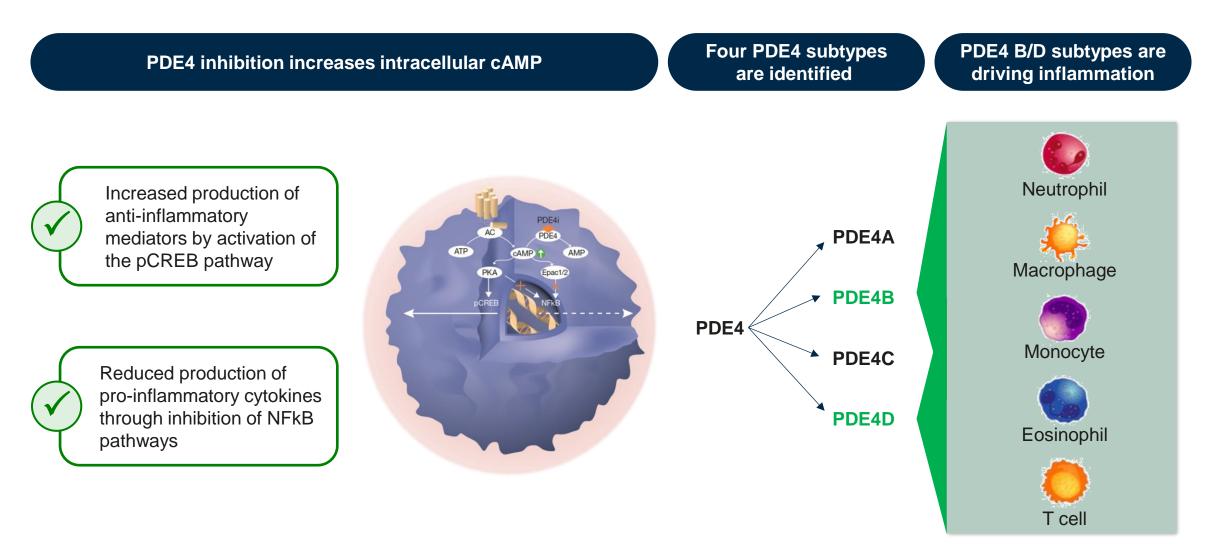
Led by **team with significant clinical development expertise** and more than 15 FDA/EMA approvals, and a scalable, immunology-focused search and development business model

\$A

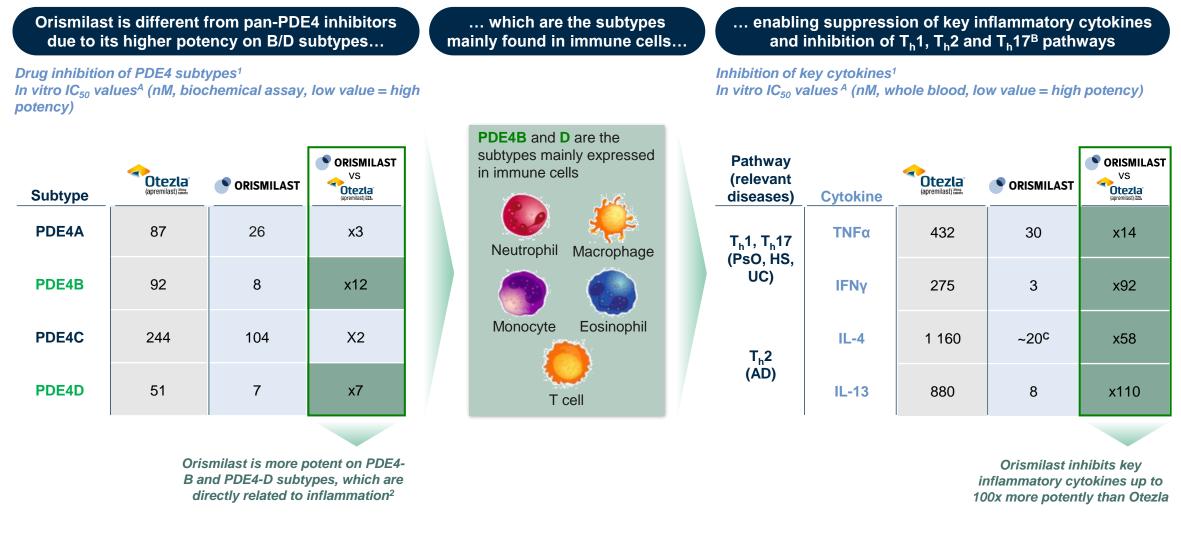


PDE4 B/D subtypes are central mediators of inflammation, constituting a promising target for broad cytokine inhibition and therapeutic application within immunology

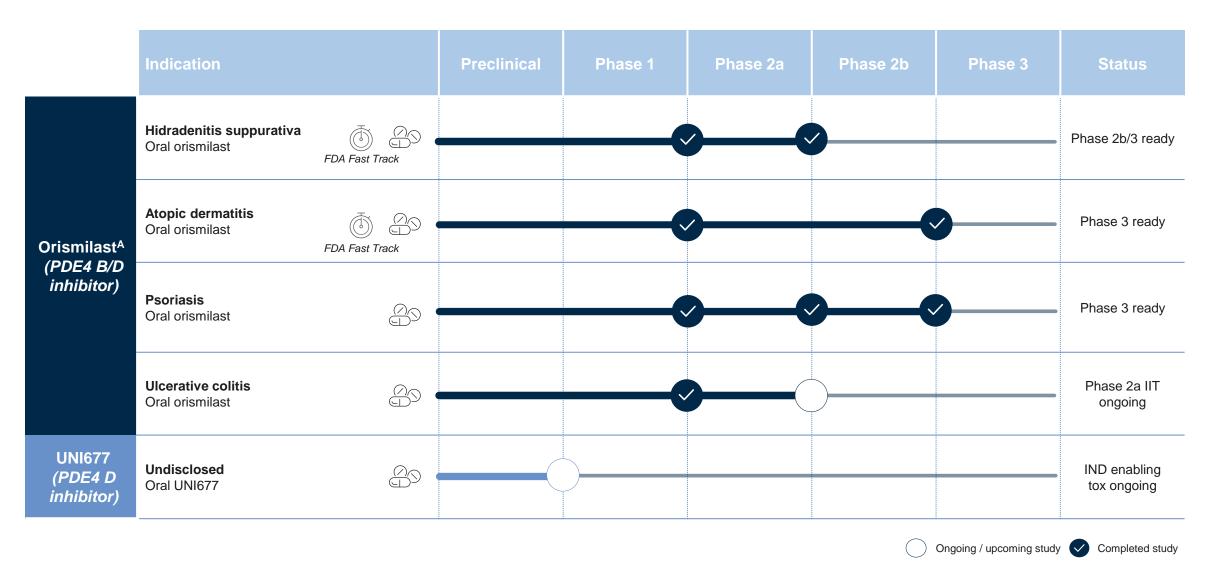




Notes: cAMP = Cyclic adenosine monophosphate. pCREB = phosphorylated cAMP response element-binding protein. NFkB = Nuclear factor kappa-light-chainenhancer of activated B cells. Sources: Silverberg et al. (2023); Blauvelt et al. (2023) Orismilast demonstrates potent and selective inhibition of PDE4 B/D subtypes resulting in up • UNION to 100x higher potency than Otezla on key cytokines



UNION is advancing a late-stage clinical pipeline targeting indications with major unmet needs for safe, oral treatments





UNION is initially prioritizing orismilast development in HS and AD with first-in-class safe oral positioning



Hidradenitis suppurativa

2.1m patients with moderate-severe HS^B



- · Limited treatment options
- No effective oral available^D
- Desire for safe, **biologic sparing** option

Atopic dermatitis

17.4m patients with moderate-severe AD^A



- No safe oral treatments available^C
- High non-responder rates with existing Rx
- Lack of convenience with injectables

• ORISMILAST obiectives

First-in-class oral HS treatment with broad inflammatory effects and potential to reduce need for biologics and surgery First-in-class safe oral AD treatment alternative with broad inflammatory effects and potential 1st line use 9 2m potionto

8.3m patients with moderate-severe psoriasis^A

Psoriasis



 Need for simple, efficacious orals without safety concerns

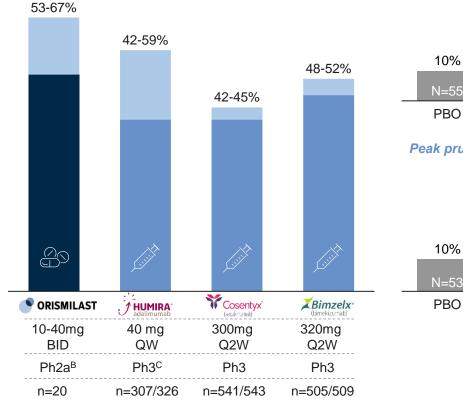
Best-in-class oral psoriasis treatment with higher potency and selectivity driving better efficacy

Notes: [A] Diagnosed patient numbers incl. US, EU5, and Japan, [B] Prevalent patient numbers incl. US and EU5 based on meta-analysis by Phan et al (2020). [C] Two JAKs are approved for oral treatment but carry boxed warnings for increased risk of serious heart-related events, cancer, blood clots and death; [D] Only biologics are approved for HS. Sources: EvaluatePharma (November 2024)



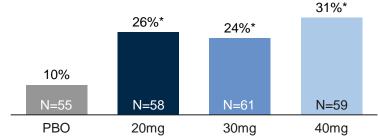


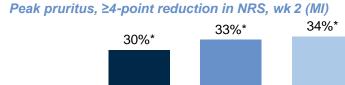
HiSCR50 scores, wk 16



Atopic dermatitis: Orismilast Ph2b study demonstrating effect on lesions as well as fast onset of itch reduction

IGA0/1, wk 16 (MI)





N=55

20mg

N=60

30mg

ORISMILAST

Ph2b

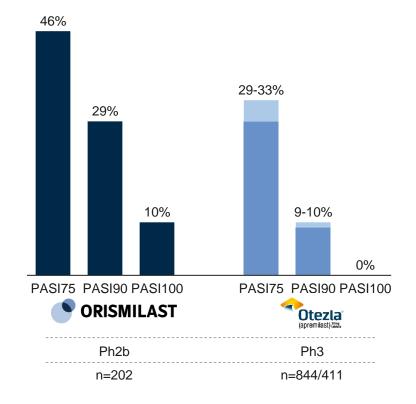
n=233

N=56

40mg

Psoriasis: Orismilast Ph2b study demonstrating a higher and deeper response than previously observed for Otezla

PASI75, PASI90 and PASI100 scores, wk 16, 20/30 mg^A BID (NRI) for orismilast 30 mg BID (LOCF) for Otezla



Notes: MI = multiple imputation; NRI = non-responder imputation; LOCF = Last observation carried forward; IIT = Investigator initiated trial; A) Weight-based dosing regimen (n=48); B) Orismilast range based on completers (n=9) and a modified LOCF (subjects with >2 weeks of treatment, n=17); C) Data at W12 for Humira. Sources: Orismilast study reports OSIRIS, ADESOS, IASOS; Otezla Ph3 studies <u>ESTEEM-1</u>, <u>ESTEEM-2</u>; Sotyktu Ph3 studies <u>POETYK-1</u>, <u>POETYK-2</u>; Cosentyx Ph3 studies SUNSHINE, SUNRISE; Humira Ph3 studies PIONEER-1/2 and Frew JW., et al. (2019); Bimekizumab Ph3 studies BE HEARD-1/2 (AAD, 2023)

8%

4%



Safety profile confirmed with very few SAEs across larger, controlled Ph2b studies

Pooled safety data across Ph2b trials in AD and psoriasis

All

Depression

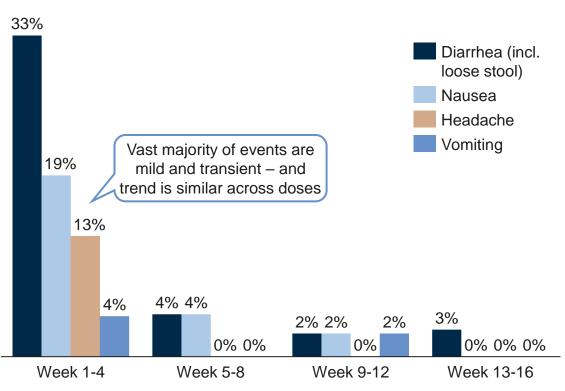
Category		Placebo (N=106)	Orismilast (all) (N=329)			
Death	IS	0	0			
Treatment emerge (benign or m		0	0			
Treatment emergent event		0	4			
Only one possible related SAE (from Ph2b in AD): 'Vasovagal syndrome, pre-syncope and mild hypokalaemia'						
System-organ class Preferred term		Placebo	Orismilast (all)			
Infections and infestations	All	18%	16%			

8%

4%

Tolerability profile comparable to that of other marketed PDE4s – mild and transient GI events

Share of patients with event onset in period (20mg orismilast example from Pso Ph2b)



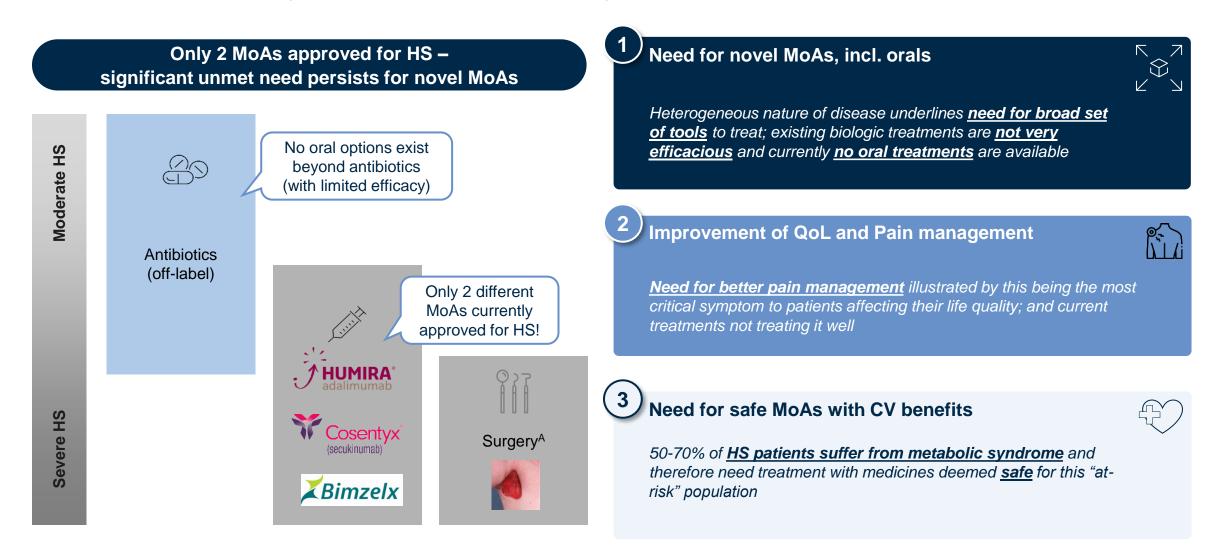
Psychiatric disorders

PDE4-inhibition for hidradenitis suppurativa

Ole, HS patient

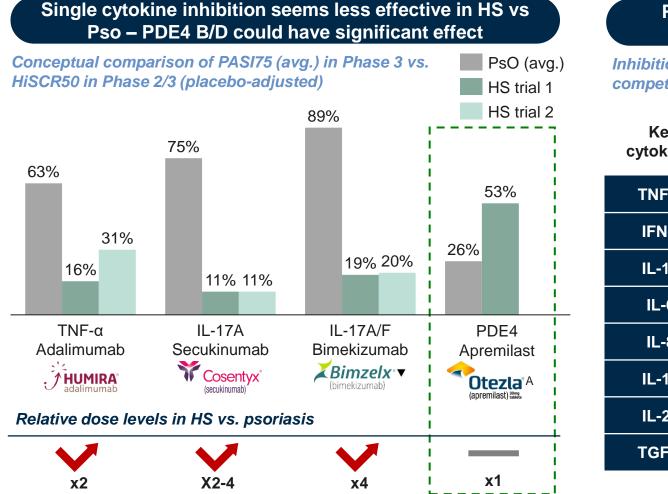
Current HS treatment space leaves high unmet need for novel MoAs to address lesions as well as improve core symptom of pain – and ideally also benefit CV comorbidities





Broad MoA of PDE4-inhibition a good fit with HS; narrow single-cytokine inhibitors have needed 2-4x dosing to obtain substantial efficacy





PDE4B/D inhibition is associated with suppression of key HS-related cytokines

Inhibition of cytokines involved in HS by PDE4 inhibition vs marketed competitors

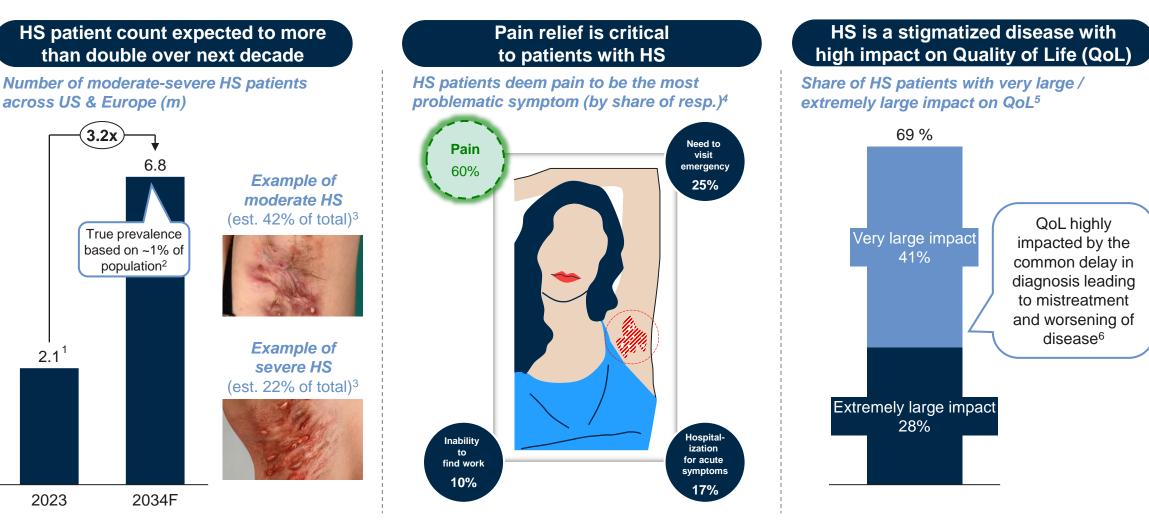
Key cytokines	• ORISMILAST	HUMIRA	(secukinumab)	(bimekizumab)	
TNF-α	\checkmark	$\checkmark\checkmark$	—	-	
IFN-γ	\checkmark	-	_	-	
IL-1β	\checkmark	(√)	_	-	
IL-6	\checkmark	(√)	_	-	
IL-8	\checkmark	(√)	_	-	
IL-17	\checkmark	-	\checkmark \checkmark	\checkmark \checkmark	
IL-23	\checkmark	-	_	-	
TGF-β	\checkmark	-	—	-	

Notes: [A] Apremilast (Otezla) not approved for treatment of HS.

1

Sources: Dalamaga M., et al. (2020); Au BT., et al. (1998); Vossen ARJV, et al. (2018); Humira SmPC; Otezla SmPC; Daxas SmPC; Vossen ARJV., et al. (2019); Rumberger BE., et al. (2020); Kim J., et al. (2018); FDA- and EMA-issued product labels and Ph2/3-Ph3 publications.

HS severely impacts life quality especially due to pain symptoms and affects at least ~2m people across the US and EU5 countries



Sources: [1] Prevalent patient numbers incl. US and EU5 based on meta-analysis by Phan et al (2020). [2] Jfri et al (2021); Phan et al (2020); Delaney et al (2018); Ingram et al (2018); Theut Riis et al (2019). [3] Spherix HS whitepaper (Nov 2024). [4] [1] Garg, et al., (2020). [5] HS Uncovered: Results from a global survey revealing patient perspective in hidradenitis suppurativa. EADV 2023. Berlin. [6] Kokolakis et al (2020)

2

UNION THERAPEUTICS



PDE4s target metabolic pathways similarly to GLP1s

 PDE4-inhibition directly impacts energy sensors and metabolism in metabolic cell types

3

- Most important isoform is PDE4-D5 for metabolic effects, where orismilast has 18 times the potency for PDE4-D5, compared to apremilast
- Non-clinical cell assay indicates that, at Ph3 dosing, orismilast stimulates metabolic cells similarly to oral semaglutide (Rybelsus) 14 mg daily

HS patients are commonly overweight and have CV disease

- 68.7% of HS patients in the US are obese (vs. 29.8% in the background population)²
- Danish HS patients have nearly 4 times higher odds ratio for metabolic syndrome³
- HS patients in a Danish cohort study (n=5964) had double the risk of CVassociated death⁴
- In conclusion, many HS patients will likely not be able to use JAKs* due to increased risk of major cardiovascular events and thrombosis

Clinically orismilast and other PDE4s have impacted weight

- Apremilast has clear CV benefits in recent publication at EADV 2024¹
- Consistent weight loss observations in clinical trials with orismilast
 - Mean weight loss in the HS pts.
 completing 16 weeks treatment with orismilast was 4.8 kg
 - Weight loss on par with oral semaglutide (Rybelsus) 14 mg daily

Note: *) The JAK class is still in development for HS with no marketed drugs to date. Boxed warning is included for all approved oral JAKs in dermatogological

Souces: [1] Treichel et al., EADV Amsterdam (2024); [2] Balgobind et al.(2020); [3) Miller et al. (2014); [4] Egeberg et al. (2016)

Orismilast in hidradenitis suppurativa

Ole, HS patient

The OSIRIS study was sponsored by global KOL Professor Gregor Jemec to generate clinical proof-of-concept with orismilast in HS



OSIRIS was an exploratory, open-label, single-center, single-armed trial

Objectives

 To explore safety and efficacy of oral orismilast in the treatment of HS

Design

 To explore tolerability of the proposed dosing regimen in patients with HS



Prof. Gregor Jemec

PhD, MD, Lead investigator of the OSIRIS study Most cited KOL in the HS field

Eligibility

Diagnosis of mild, moderate and severe HS

- Abscesses and nodules (AN) count ≥2
- Draining fistula count ≤30
- Age 18+
- Any prior treatment was allowed



Key endpoints

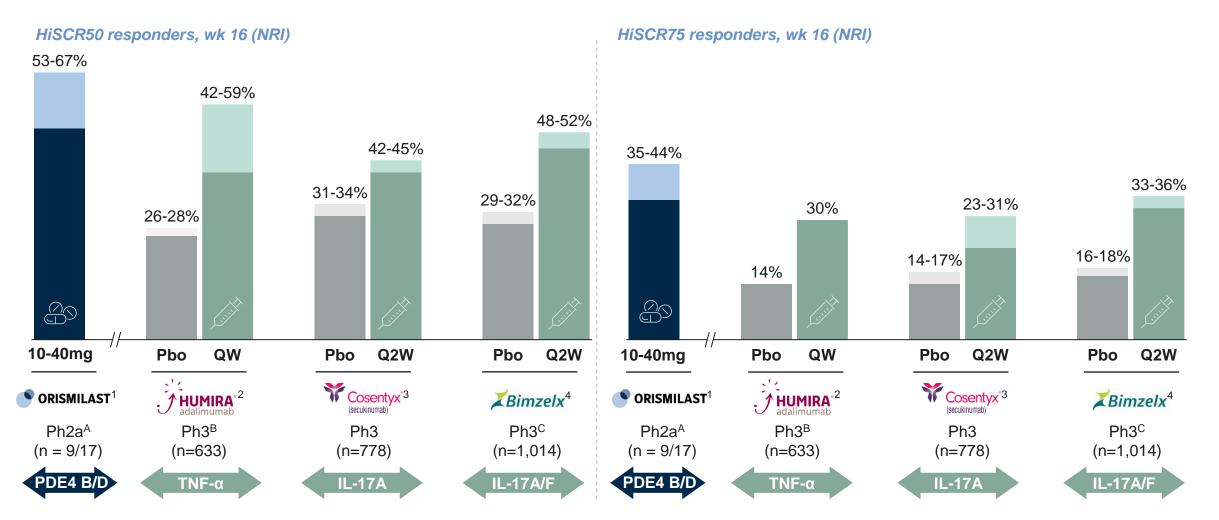
Efficacy (at week 16)

- Change in AN and lesion count
- Share achieving HiSCR50/75 at week 16
- Change in global pain and QoL

Safety and tolerability

 Occurrence of treatment emergent adverse events (TEAE) Indirect comparison between orismilast data and results for marketed HS drugs shows promising efficacy on lesions...



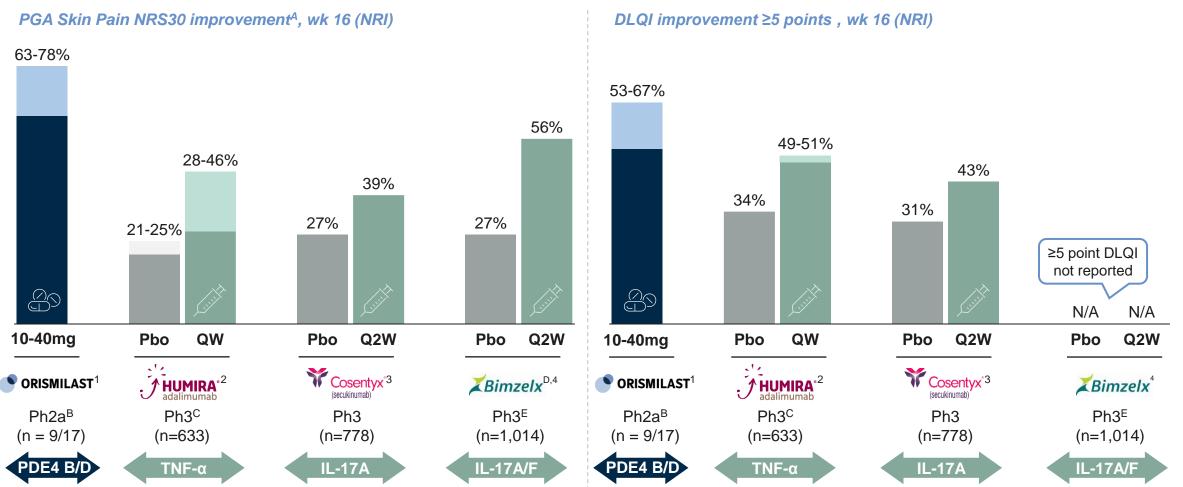


Notes: [A] Orismilast range based on completers (n=9) and a modified LOCF (subjects with >2 weeks of treatment (n=17). [B] Week 12 data. [C] mNRI for bimekizumab.

Sources: [1]Orismilast IIT, PoC study OSIRIS (completed from Frederiksen et al (2023), mLOCF not published) [2] Kimball et al (2016) [3] Kimball et al (2023) [4] Kimball et al (2024)

As well as on pain and life quality – key symptoms affecting the lives of HS patients

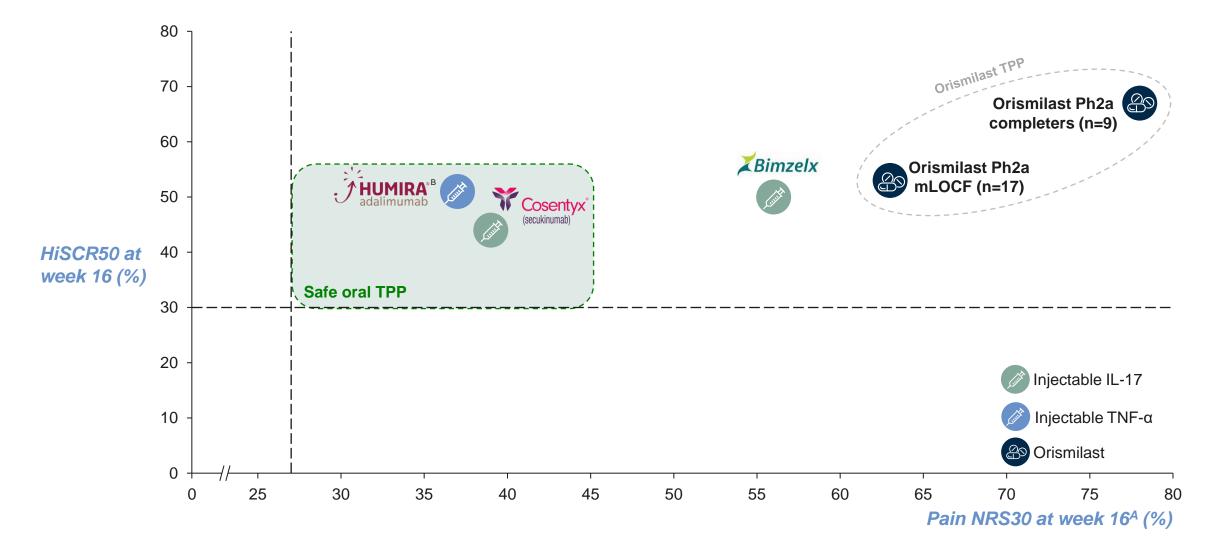




Notes: Baseline severity of kin Pain NRS score ≥3; Cosentyx (na.), Humira (DLQI score of ≥5); [A] Criteria vary slightly across trials. Humira requires 1-unit pain reduction, Cosentyx a 2-unit pain reduction. [B] Orismilast range based on completers (n=9) and a modified LOCF (subjects with >2 weeks of treatment (n=17). [C] Week 12 data. [D] Worst skin pain measured by HSSDD (HS Symptom Daily Diary) instead of skin pain NRS. ≥30% improvement and ≥1-point reduction. [E] mNRI for bimekizumab.

Sources: [1] Orismilast IIT, PoC study OSIRIS (not published) [2] Kimball et al (2016) [3] Kimball et al (2023) [4] Orenstein et al. (poster: Bimekizumab impact on pain moderate to severe hidradenitis suppurativa: Week 16 results from BE HEARD I&II, SHSA 2023 – mNRI)

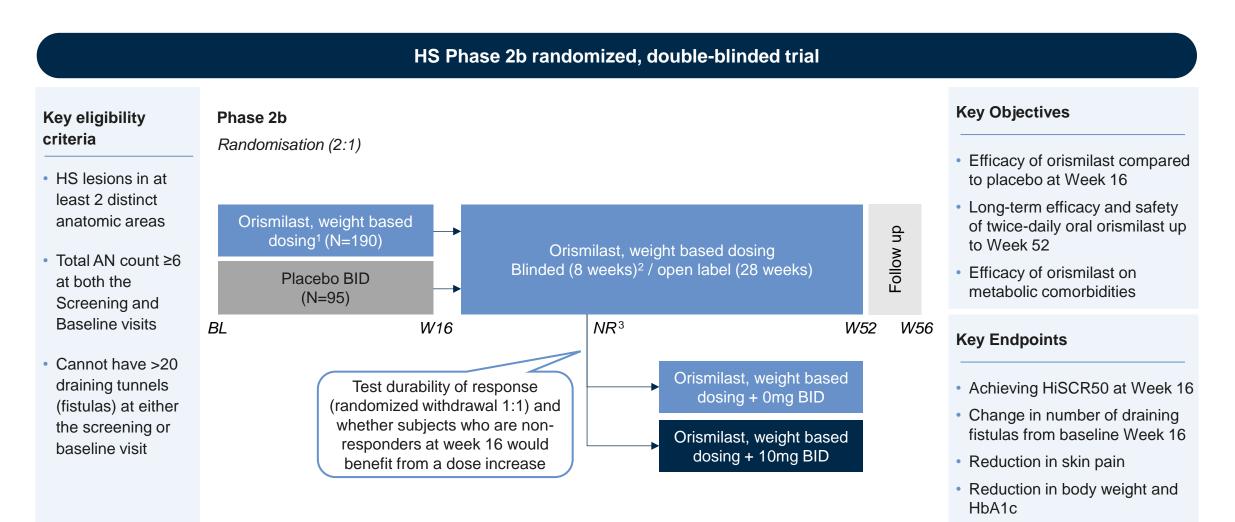
Orismilast shows promising potential based on OSIRIS Ph2a data – comparable to bestperforming biologics in development



Notes: Patient's Global Asssessment used for pain imputations across trials except Bimzelx, where Hidradenitis Suppurativa Symptom Daily Diary (HSSDD), a similar score, is used. [A] Pain NRS30 refers to share of patients achieving ≥30% and ≥1 point reduction in pain among those with NRS score ≥3 at baseline. [B] Week 12 data for Humira, week 16 for other compounds.

Sources: Ph3 publications (NRI except Cosentyx is MI and Bimzelx is mNRI); Orismilast Ph2a study (OSIRIS); HS TPP market research (Sermo, N=51, February 2024)

UNION THERAPEUTICS Next steps: UNION aims to further develop orismilast for HS in a Ph2b program designed to have upside potential as one of the pivotal trials



Notes: BID = twice daily; BL = baseline; HiSCR = Hidradenitis Suppurativa Clinical Response; NR: Non-response. [1] Orismilast weight-based dosing: 10mg (<60kg), 20mg (≥ 60 to <100kg) or 30mg (≥ 100 kg). Dose titration with once-daily dosing for the first 2 weeks and highest dose from Week 8 for participants ≥ 100 kg. [2] Titration of participants coming from the initial 16 weeks placebo treatment to maintain trial integrity. [3] Response defined as HiSCR50 achieved without prohibited medication.

UNION

Thank you for your attention

