

**ACELYRIN** 

# Accelerating Medicines to Transform Patients' Lives

Q2 2024 Financial Results  
August 13, 2024



# Forward Looking Statements & Disclaimer

This presentation contains statements that are not of historical facts, considered forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended. Forward-looking statements include, but are not limited to, statements about our expectations regarding the potential benefits, effectiveness, and safety of our product candidates including with respect to lonigutamab's potential for its composition and subcutaneous administration to provide for sustained and/or improved treatment over time, or potential for a longer-term treatment duration and generally well-tolerated safety profile; izokibep's ability to offer clinically meaningful, differentiated benefits, and/or deepening of response over time, and its safety profile; our expectations with regard to our research, development and regulatory plans, including the design (including, potentially registrational design) of preclinical and clinical trials, anticipated commencement of trials, the timing and availability of data from such trials, and the timing or likelihood of regulatory filings and approvals for our product candidates; our expectations with regard to our ability to explore selective pipeline expansion opportunities; the potential market size and size of the potential patient populations for our product candidates and any future product candidates and those indications we target; our expectations about our ability to maintain existing, and establish new, strategic collaborations, licensing, or other arrangements; the scope of protection we are able to establish and maintain for intellectual property ("IP") rights covering our product candidates and any future product candidates; our business strategy; and our future results of operations and financial position.

Such forward-looking statements reflect the current views of ACELYRIN with respect to future events, and are subject to known and unknown risks (including, without limitation, business, regulatory, economic and competitive risks), uncertainties, assumptions and contingencies about ACELYRIN, including, without limitation, those associated with: ACELYRIN's successful completion of development and regulatory activities for its product candidates, including the risk that future clinical trial results could differ materially and adversely from early clinical trial results and other data, and the risk that the U.S. Food and Drug Administration may not agree with ACELYRIN's planned registrational program for lonigutamab and may ultimately require more Phase 3 clinical trials prior to any regulatory submissions or approval; ACELYRIN's ability to achieve projected cost savings in connection with the suspension of further internal investment in the development of izokibep development in HS, PsA and AxSpA, and the corporate restructuring, and the potential failure to realize the expected benefits of the foregoing and unintended consequences from the foregoing that may impact ACELYRIN's business; maintaining and defending IP protection; the ability to timely secure adequate supply of its product candidates; and legal proceedings, as well as other risks and uncertainties described under the heading "Risk Factors" in the Company's Quarterly Report on Form 10-Q for the quarter ended June 30, 2024 filed with the U.S. Securities and Exchange Commission ("SEC") and in subsequent filings made by us with the SEC, which are available on the SEC's website at [www.sec.gov](http://www.sec.gov).

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# Today's Agenda

1

Charting A New Path Forward  
*Mina Kim, Chief Executive Officer*

2

Announcing Phase 3 Hidradenitis Suppurativa Top line Results  
*Shep Mpofo, MD, MRCP, FRCP, Chief Medical Officer*

3

Prioritizing Lonigutamab in Thyroid Eye Disease  
*Shep Mpofo, MD, MRCP, FRCP, Chief Medical Officer*

4

Enabling 3-years of Critical Milestones  
*Gil Labrucherie, Chief Financial Officer & Chief Business Officer*

# Experienced Leadership Team

Successful Track Record of Delivering Some of the Most Transformative Medicines for Patients



Mina Kim  
CEO



Gil Labrucherie  
CFO & CBO



Shep Mpofu | MD, MRCP, FRCP  
CMO



Melanie Gloria  
COO



Ken Lock  
CCO



Sanam Pangali  
CLO & Head of People



Patricia Turney  
CTOO

## Leaders In Immunology

AMGEN

abbvie

HORIZON

NOVARTIS

NEKTAR

GILEAD

zymergen



Pfizer

HUMIRA  
adalimumab

Skyrizi  
risankizumab-rzaa

TEPEZZA  
teprotumumab-trbw

Cosentyx  
(secukinumab)

RINVOQ  
upadacitinib

Enbrel  
etanercept

SILIQ  
(brodalumab) injection

KRYSTEXXA  
pegloticase

## Board of Directors

Mina Kim

Bruce C. Cozadd

Dan Becker

Alan Colowick

Henry Gosebruch

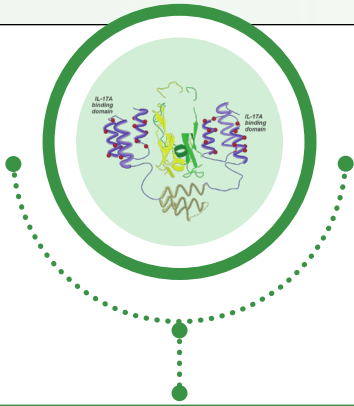
Patrick Machado

Beth Seidenberg

Dawn Svoronos

Lynn Tetrault

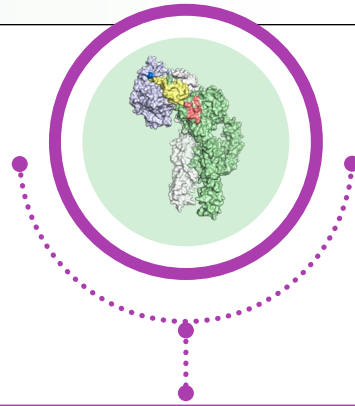
# Following Two Years of Progress, We Are at An Inflection Point



## Izokibep (anti IL-17)

Positive Phase 3 Data in  
Psoriatic Arthritis

Positive Phase 3 Data in  
Hidradenitis Suppurativa

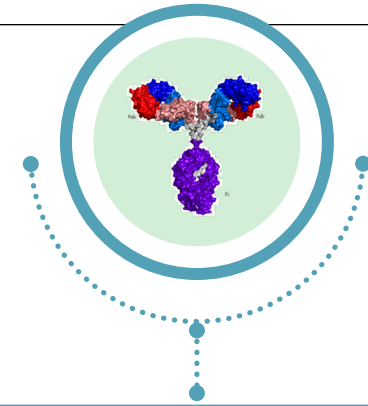


## Lonigutamab (anti-IGF-1R)

Single Ascending Dose Study  
Completed in Healthy Volunteers

First SubQ anti-IGF-1R to Demonstrate  
Proof-of-Concept in TED Patients<sup>1</sup>

Completing Dose Exploration Phase 2



## SLRN-517 (anti-c-KIT)

Single Ascending Dose Study  
Completed in Healthy Volunteers

# Our Path Forward: Focused Value Creation



## Prioritize Lonigutamab

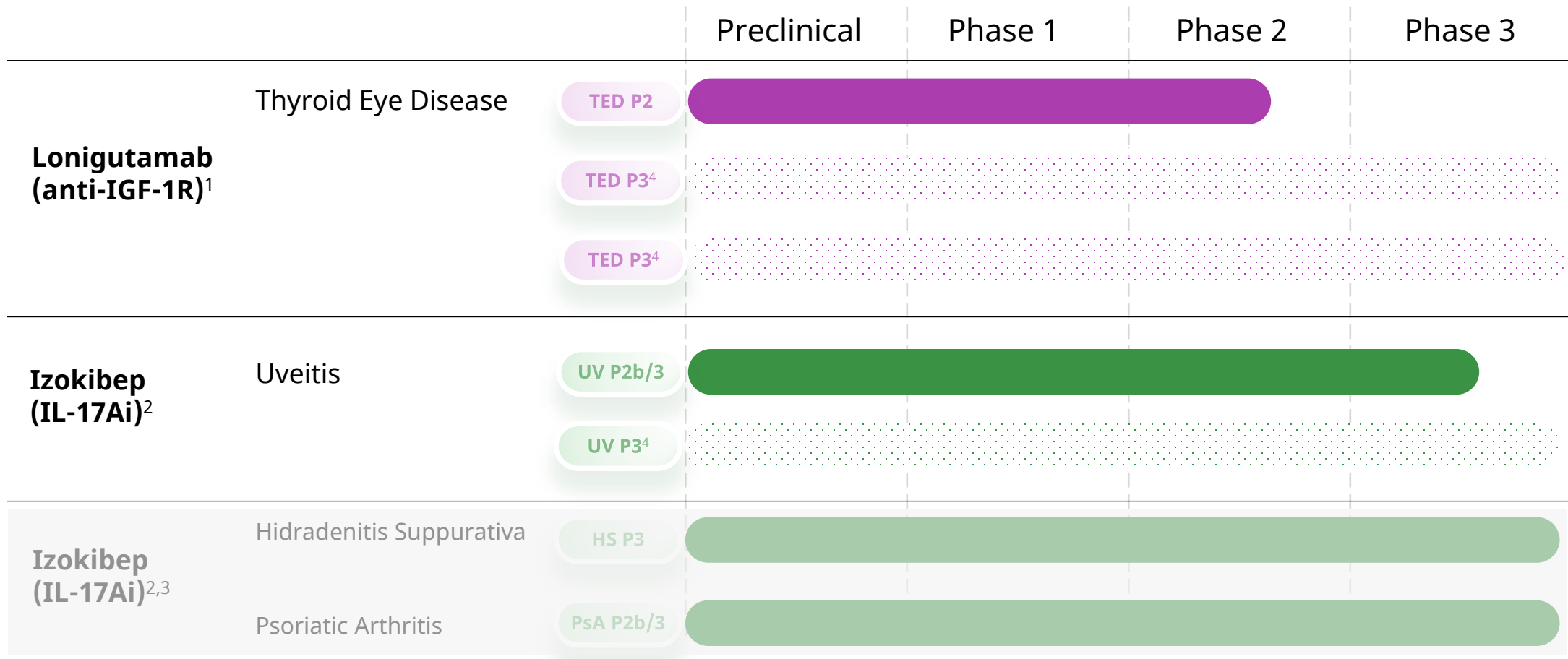
Prioritizing development of lonigutamab, which has best-in-class potential for thyroid eye disease and a clinical development program right-sized for ACELYRIN.



## Disciplined Capital Allocation

Projecting to extend runway to mid-2027 with program prioritization and corporate restructuring - open to selective pipeline expansion opportunities.

# Portfolio of Late-Stage Clinical Programs



<sup>1</sup> IGF-1R Inhibitor; Worldwide rights to non-oncology indications. Potential opportunity to extend certain IP protection into 2043.

<sup>2</sup> IL-17A Inhibitor; Excludes (i) development, commercialization and manufacturing rights in mainland China, Hong Kong, Macau, South Korea and Taiwan, and (ii) development rights in certain other Asia Pacific countries including, without limitation, Australia, India, New Zealand and Singapore. We retain decision making authority for izokibep global development. Potential opportunity to extend certain IP protection into early 2040's.

<sup>3</sup> On August 13, 2024, ACELYRIN announced plans to complete these two ongoing trials and suspend new investment in these two indications.

<sup>4</sup> Not yet initiated; denotes trials anticipated to be required for registration in the United States



# Izokibep:

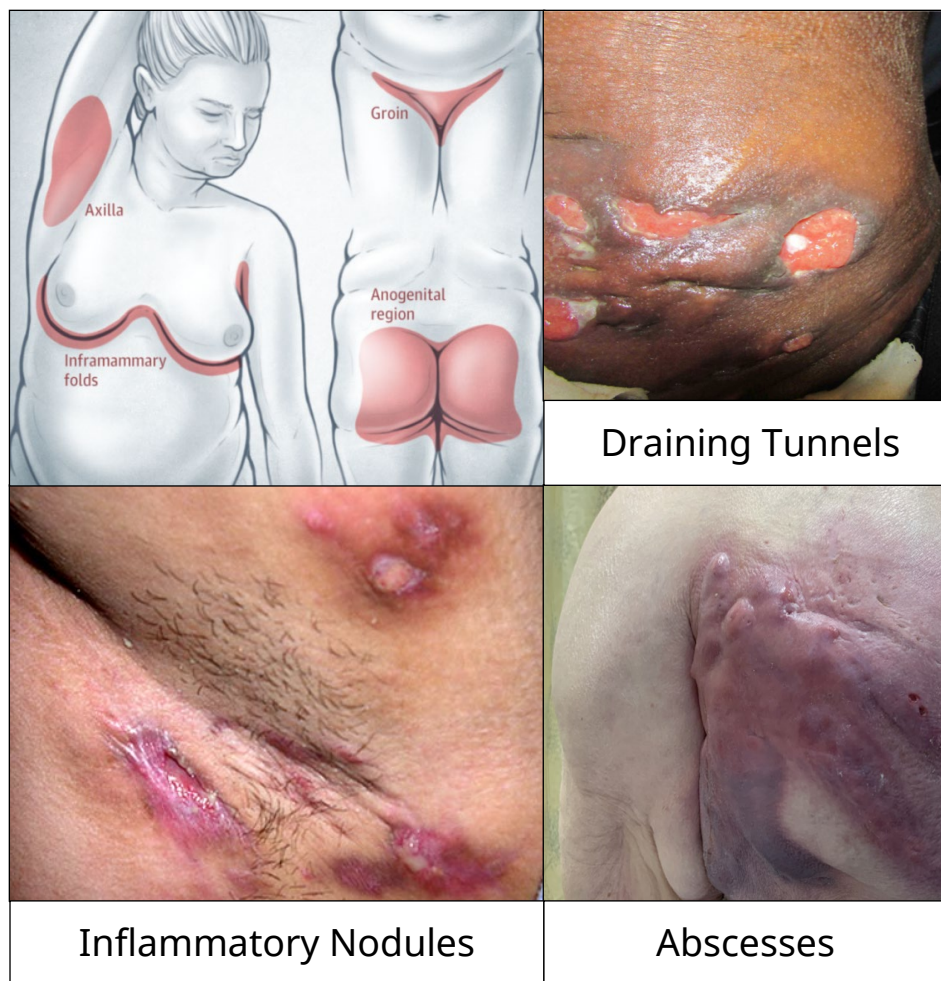
Phase 3 Hidradenitis Suppurativa Top line Results

*Shep Mpofu, MD, MRCP, FRCP, Chief Medical Officer*



# Hidradenitis Suppurativa is a Devastating Disease Where Exposures Matter

## High Potency and Small Size of Izokibep Could Improve Patient Outcomes



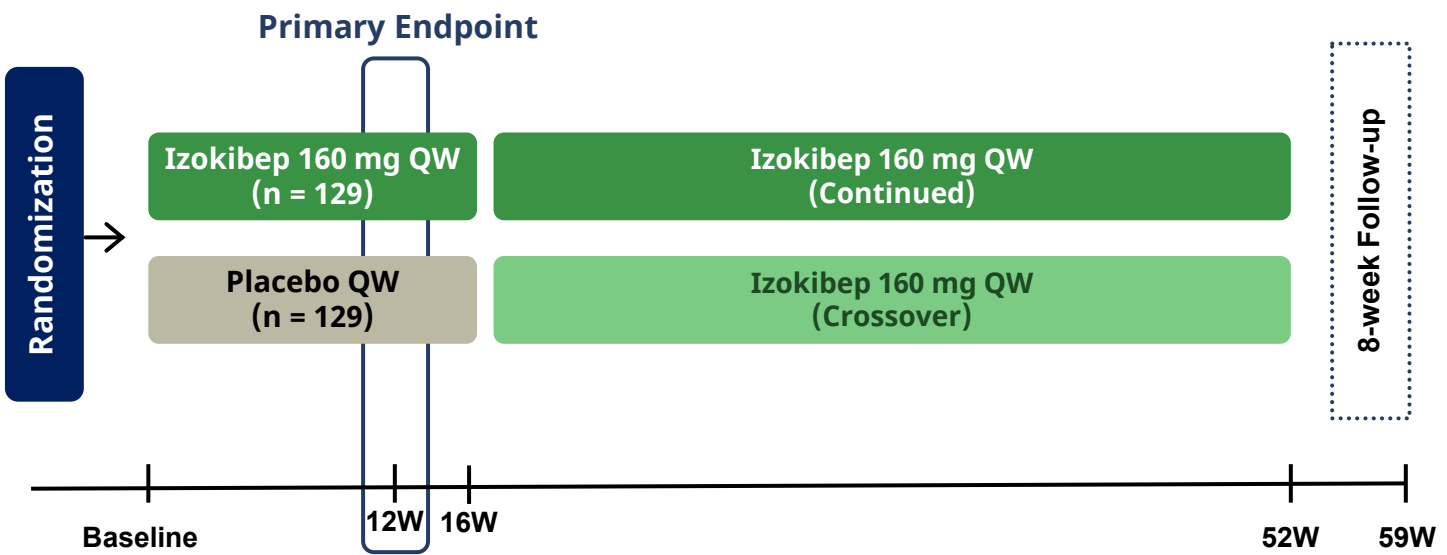
- ✓ Chronic Inflammatory disease characterized by skin abscesses, inflammatory nodules, fistulae, scar tissue, malodor and pain, often resulting in permanent disfigurement and social stigma negatively impacting quality of life
- ✓ **~370,000 HS patients in the U.S.;** approximately half of patients are considered to have moderate-to-severe disease
- ✓ Diagnosis rates are estimated to **increase 1-3% annually**
- ✓ **Current therapy options are limited;** more complete and faster resolution of disease symptoms remain an unmet need for patients

# Izokibep Phase 3 Hidradenitis Suppurativa Trial

## Randomized, Double-blind, Placebo-controlled

### Screening/ Eligibility

- ✓ Moderate-to-severe HS
- ✓ HS > 6 months
- ✓ HS lesions in ≥2 distinct anatomic areas, one of which is Hurley Stage II or III
- ✓ Minimum abscess/nodule (AN) count of 5
- ✓ Inadequate response, intolerance or contraindication to oral antibiotics allowed in up to 30% of enrolled patients



### Efficacy Endpoints

Primary & secondary endpoints wk 12

- HiSCR75 (primary)
- Secondary
  - HiSCR90/100/50
  - Flares (%)
  - DLQI
  - AN = 0, 1 or 2 (%)
  - Skin Pain 3 pt reduction (%)

### Safety Endpoints

All secondary endpoints wk 12

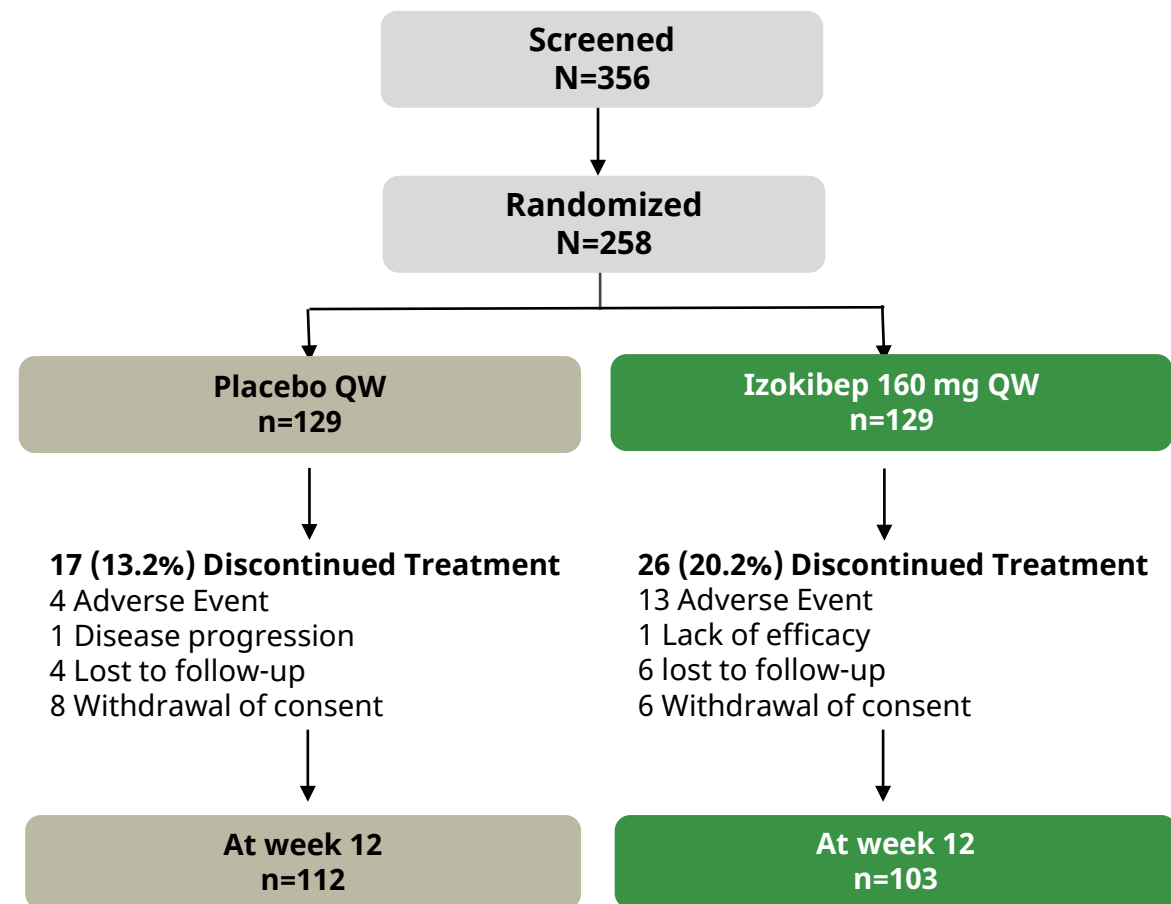
- AEs, SAEs, AESIs
- Safety laboratory, vital signs, physical examination
- Exploratory
  - Presence of ADAs

### Statistical Analysis

- Multiple Imputation
- Use of antibiotics that treat HS imputed as NR
- Stratified by prior TNFi use for HS (Yes/No) and Hurley Stage (II or III)

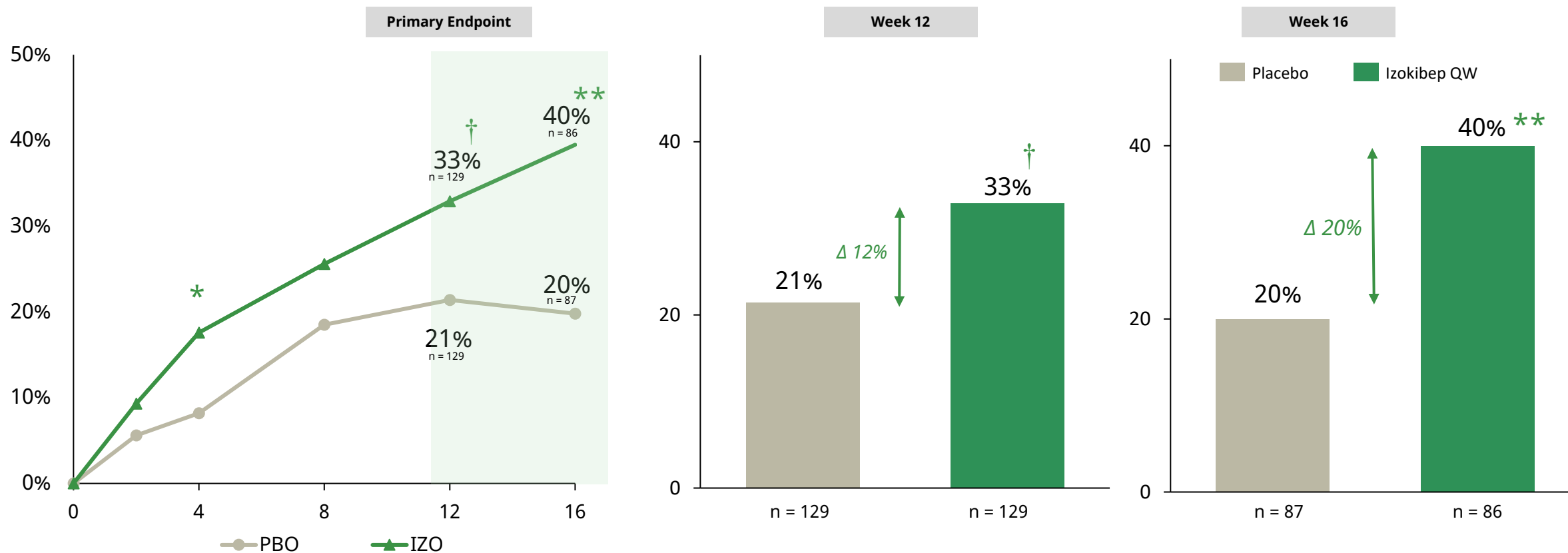
# Baseline Characteristics & Patient Disposition Through Week 12

	Overall N = 258	Placebo N = 129	160mg QW N = 129
<b>Mean age (years)</b>	37.3	37.4	37.1
<b>White (%)</b>	69.8	70.5	70.2
<b>Black (%)</b>	19.0	21.7	16.3
<b>Female (%)</b>	69.0	69.0	69.0
<b>Mean BMI</b>	34.0	34.1	34.0
<b>Smoking status current (%)</b>	43.0	45.0	41.1
<b>Mean disease duration (years)</b>	10.2	10.2	10.2
<b>Mean AN count</b>	13.4	13.2	13.5
Mean abscess count	2.5	2.7	2.4
Mean inflammatory nodule count	10.8	10.5	11.1
<b>Mean Draining Tunnels</b>	2.2	2.2	2.2
<b>Hurley Stage (%)</b>			
Stage II	62.0	63.6	60.5
Stage III	38.0	36.4	39.5
<b>Mean DLQI Score</b>	11.9	11.4	12.3
<b>Prior TNFi (%)</b>	14.7	15.5	14.0



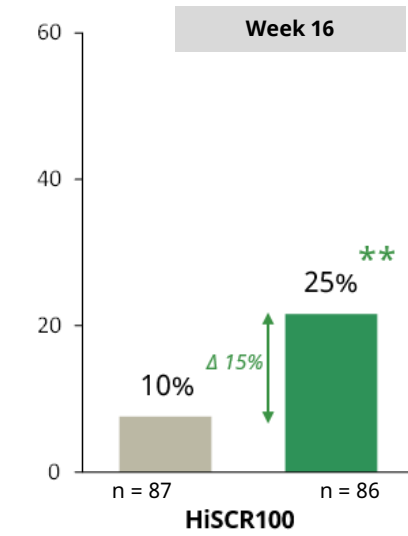
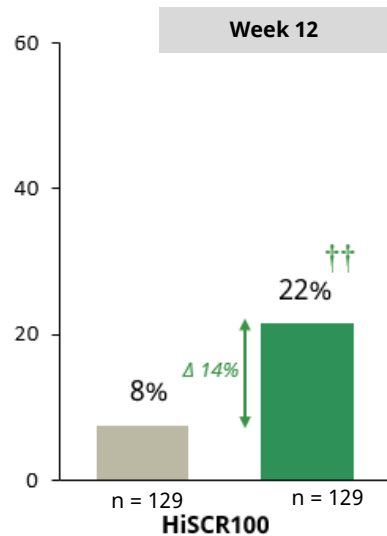
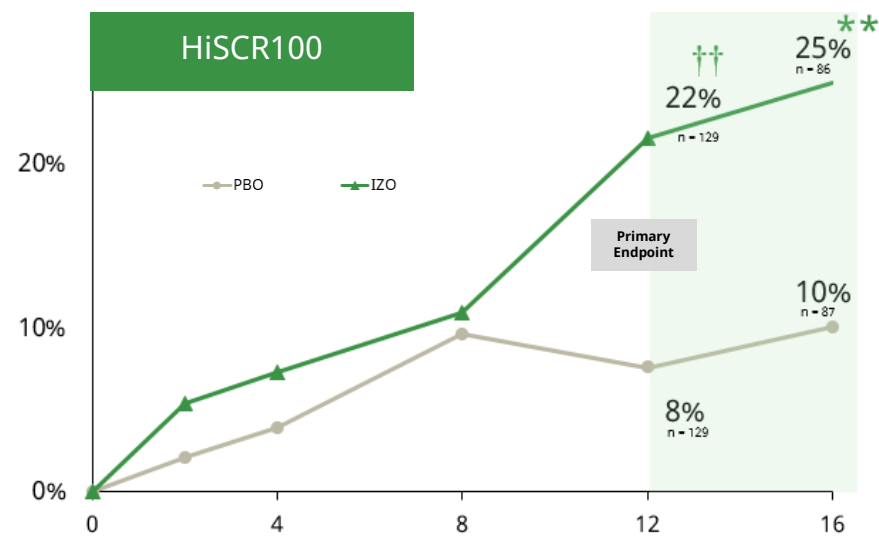
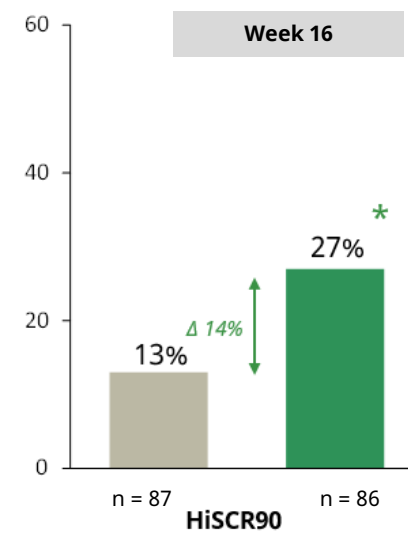
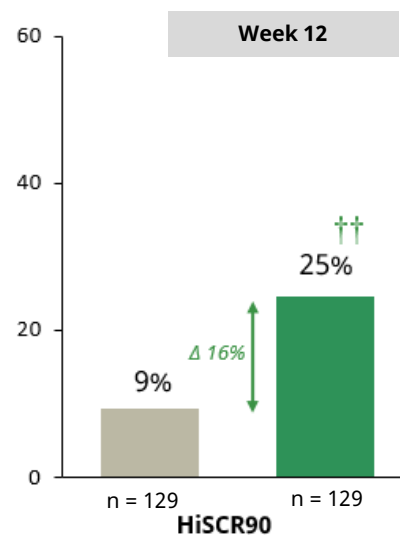
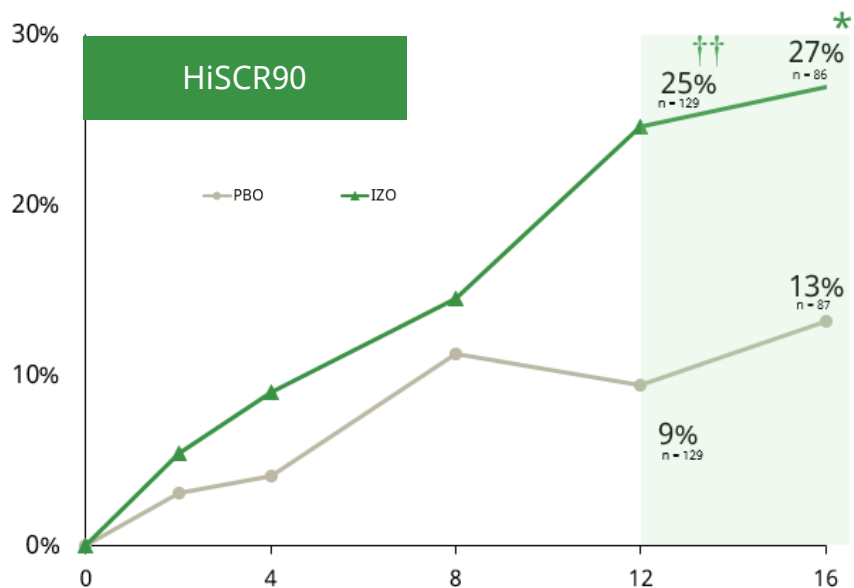
# Primary Endpoint : HiSCR75

## HiSCR75 Week 12 <sup>(1)</sup> and 16 <sup>(2)</sup> - Placebo Controlled



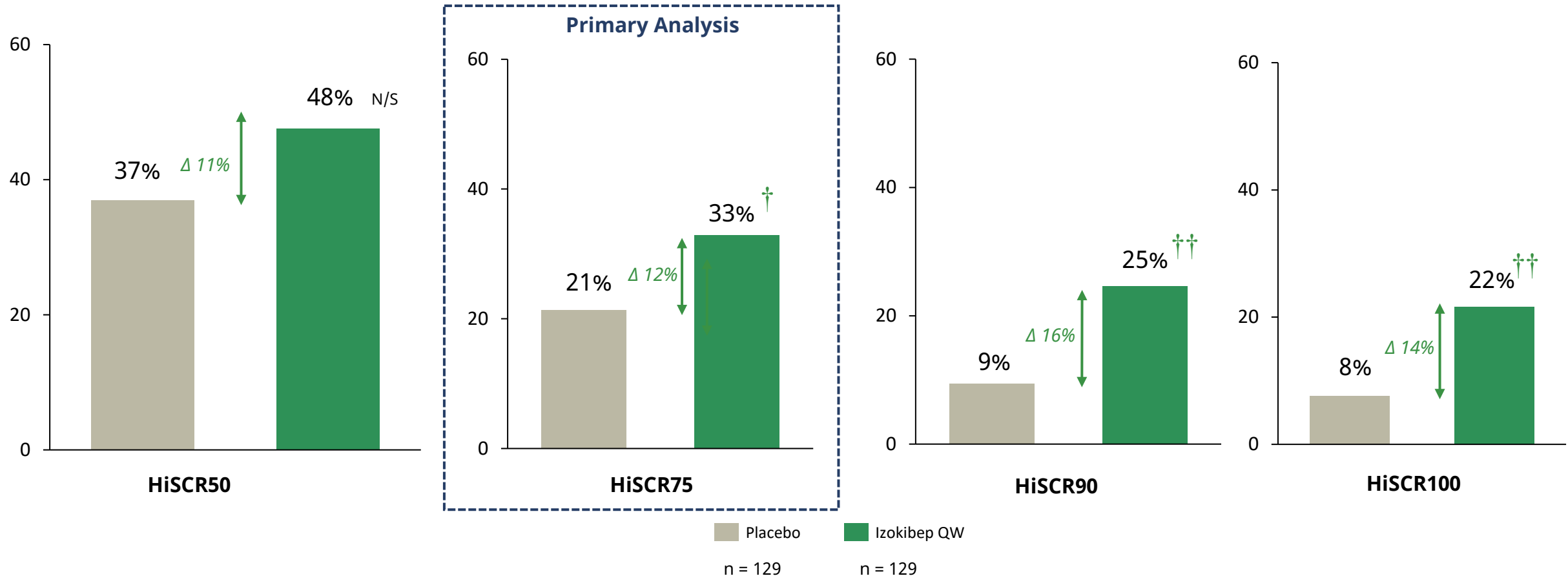
(1) Week 12 data are from the full analysis set (n=129) using prespecified multiple imputation; Significance per prespecified statistical hierarchy: †P<0.05 vs placebo; ††P<0.01 vs placebo  
 (2) All patients have reached Week 16. Interim Week 16 data using prespecified multiple imputation, of 2/3 of patients (n = 86 active and n = 87 placebo), is presented. This interim data is not necessarily indicative of, and could materially differ from, complete Week 16 results. Nominal p value: \*p<0.05 vs placebo; \*\*P<0.005 vs placebo

# HiSCR90 and HiSCR100 - Week 12 <sup>(1)</sup> and Week 16 <sup>(2)</sup> - PBO Controlled



# Summary of HiSCR Responses at Week 12

Approx. 1 of 4 Patients achieved HiSCR90/100 by week 12

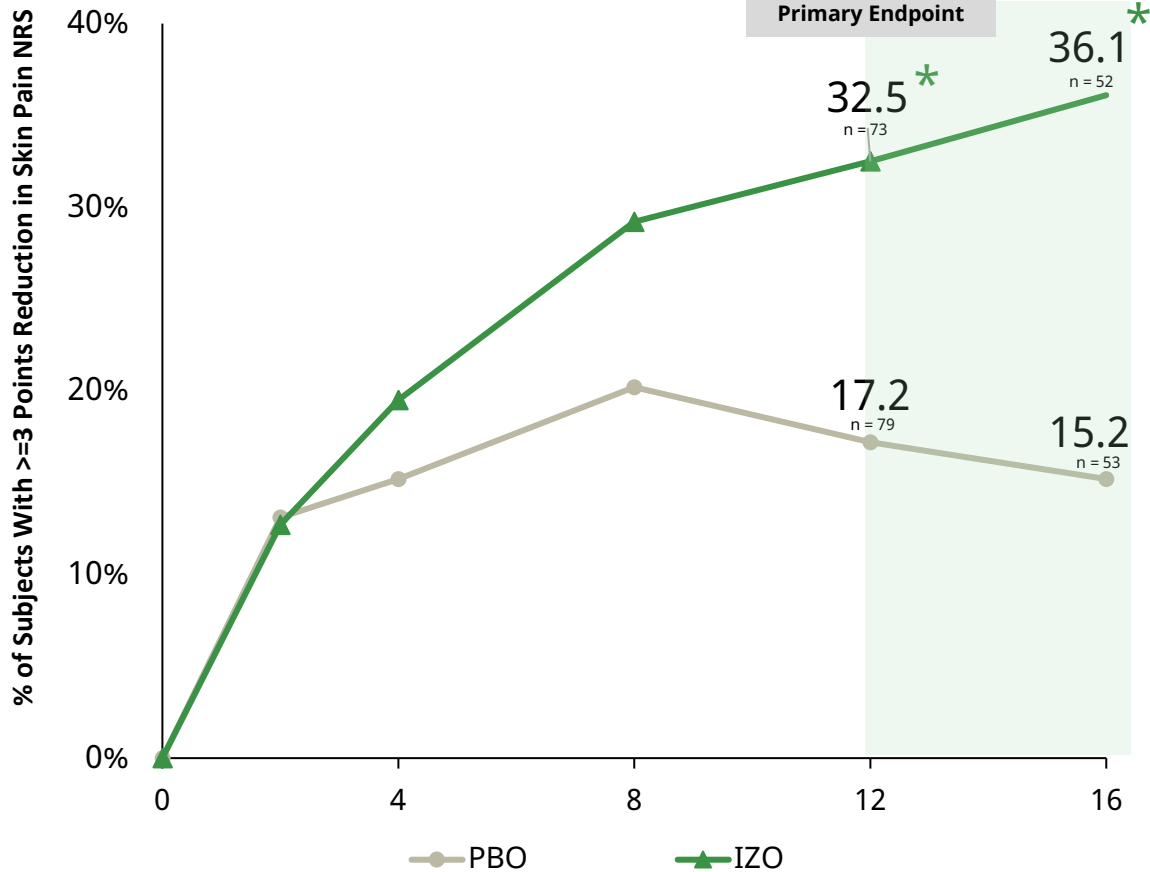




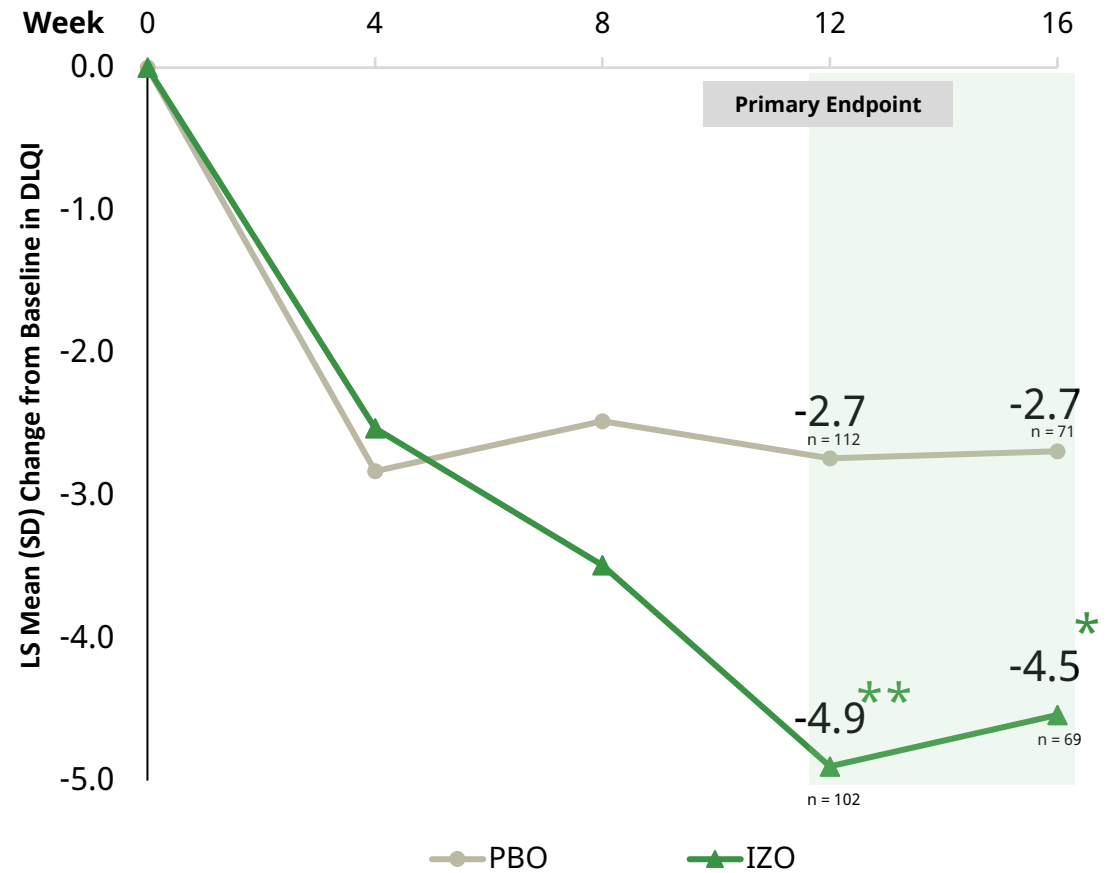
# Reduction in Skin Pain and Improvement in DLQI

Skin Pain Reduction Week 12 <sup>(1)</sup> and 16 <sup>(2)</sup> - Placebo Controlled

(Patients With NRS ≥4 at Baseline)



DLQI through Week 12 <sup>(1)</sup> and 16 <sup>(2)</sup> - Placebo Controlled



# Safety Results at Week 12

	Placebo N = 129 N (%)	160mg QW N = 129 N (%)
<b>Any TEAE</b>	68 (52.7)	102 (79.1)
<b>Serious TEAE</b>	4 (3.1) <sup>1</sup>	1 (0.8) <sup>2</sup>
TEAE leading to discontinuation of study treatment	4 (3.1)	10 (7.8)
Injection Site Reactions leading to discontinuation	0	7 (5.4)
<b>Death</b>	0	0
<b>Infections and Infestations</b>	31 (24)	27 (20.9)
<b>TEAE Preferred Term (≥5%)</b>		
Injection Site Reactions	10 (7.8)	84 (65.1) <sup>4</sup>
Headache	12 (9.3)	13 (10.1)
Nasopharyngitis	9 (7)	9 (7)
Fatigue	3 (2.3)	7 (5.4)
Diarrhea	2 (1.6)	7 (5.4)
<b>AE of Special Interest</b>		
Candidiasis	3 (2.3) <sup>3</sup>	0
Inflammatory bowel disease	0	0
Suicidal ideation behavior	0	0

# Lonigutamab:

Thyroid Eye Disease

*Shep Mpofu, MD, MRCP, FRCP, Chief Medical Officer*

# TED: Unmet Needs Persist for Greater Efficacy, Safety & Convenience

## Multifaceted Disease Whose Impact Extends Beyond Visual Disfigurement

**TED is a rare debilitating disease with many life-impacting manifestations**

- Impacts >100,000 patients in the U.S.
- Characterized by progressive inflammation that can lead to **irreversible damage to tissues around the eye**, threatening vision

**Proptosis**



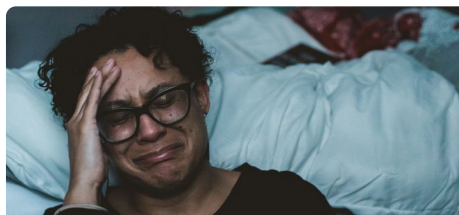
**Redness**



**Diplopia**



**Patient QoL**



**Opportunities to improve on SoC to positively impact lives of patients living with chronic disease**

**Rapid & deeper responses** across TED manifestations, resulting in **improved patient quality of life**

**Minimize or delay retreatment** by providing more **durable** responses and **patient-specific** treatment duration

Avoid risk of **serious, potentially long-term AEs** (e.g., hearing impairment) that result from high doses of SoC

Increase **convenience** through at-home **subcutaneous** administration and/or less frequent dosing

# Next Generation Best-In-Class Anti-IGF-1R Designed to Optimize Patient Benefit

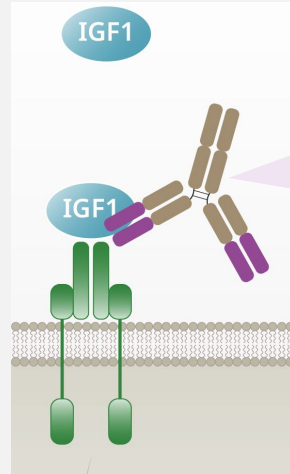
## High Potency

20-75x more potent than other anti-IGF-1Rs<sup>1,2</sup>



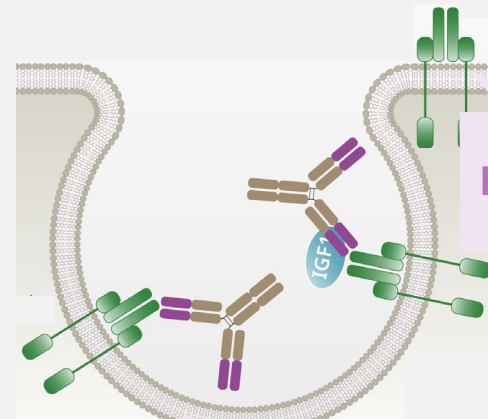
Lower drug exposure

## Unique Binding Epitope



Peripheral IGF-1 binding side: does not compete with IGF-1 binding

## IGF-1 Internalization



Maintains homeostatic IGF-1

IGF-1 internalization within minutes enables faster kinetics



## Potential Patient Benefits

Faster Time to Response

Deep & Durable Responses

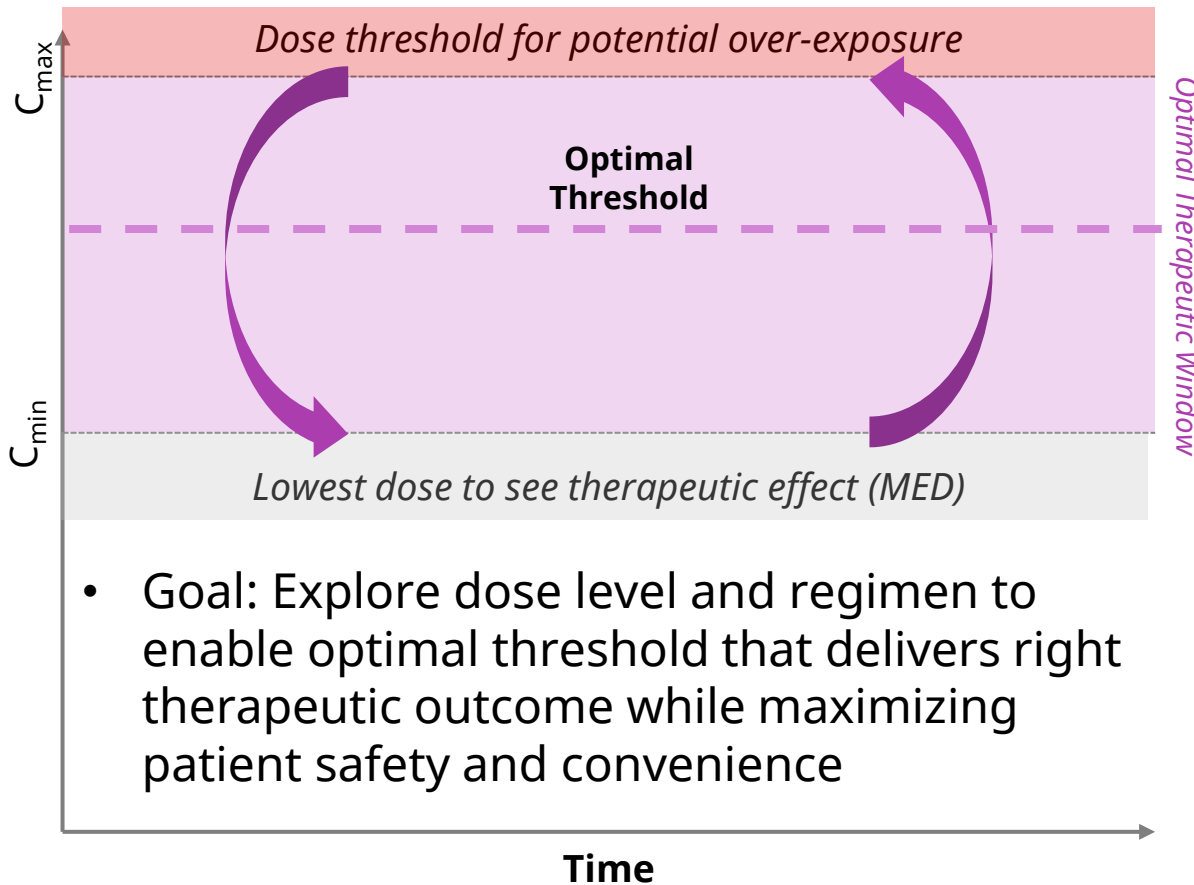
Minimize Safety Risks

Patient-Centric Convenient Administration

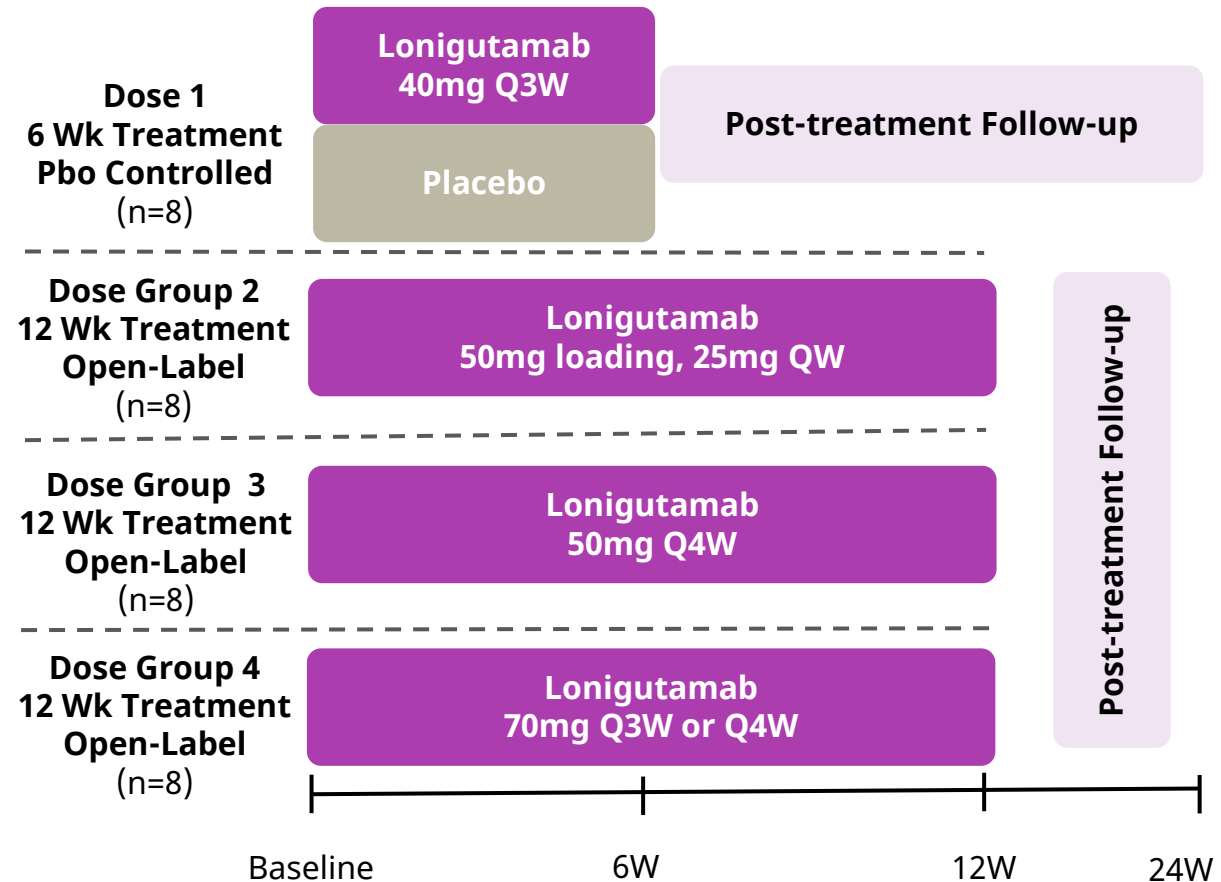
# Applying Our Innovative Approach to Clinical Development

## A Patient-Centric Approach Designed to Optimize Benefit-Risk

Iterative & robust approach to optimize anti-IGF-1R dosing...



...targeting an optimal therapeutic benefit





# Cash Runway and Milestones

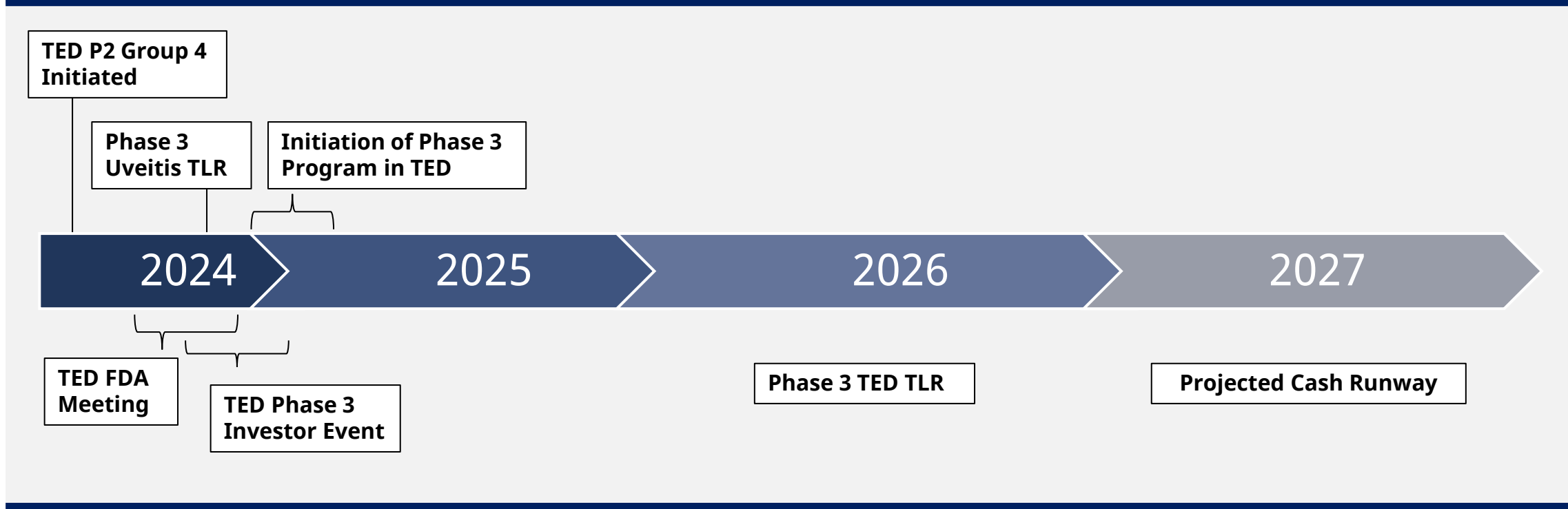
*Gil Labrucherie, Chief Financial Officer & Chief Business Officer*

# Strategic Initiatives Enable 3-Year Runway to Mid-2027

Existing ~\$635M Projected to Fully Fund Lonigutamab Phase 3 Trials & Potential Pipeline Expansion



## Anticipated Milestones



# Closing Summary

*Mina Kim, Chief Executive Officer*

# Our Path Forward: Focused Value Creation



## Prioritize Lonigutamab

Prioritizing development of lonigutamab, which has best-in-class potential for thyroid eye disease and a clinical development program right-sized for ACELYRIN.



## Disciplined Capital Allocation

Projecting to extend runway to mid-2027 with program prioritization and corporate restructuring - open to selective pipeline expansion opportunities.

**ACELYRIN** 

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