

# Icotrokinra, a Novel Targeted Oral Peptide (IL-23R-inhibitor), in Adolescents With Moderate-to-Severe Plaque Psoriasis: Results of Subgroup Analyses From a Phase 3, Randomized, Double-Blind, Placebo-Controlled Study (ICONIC-LEAD)

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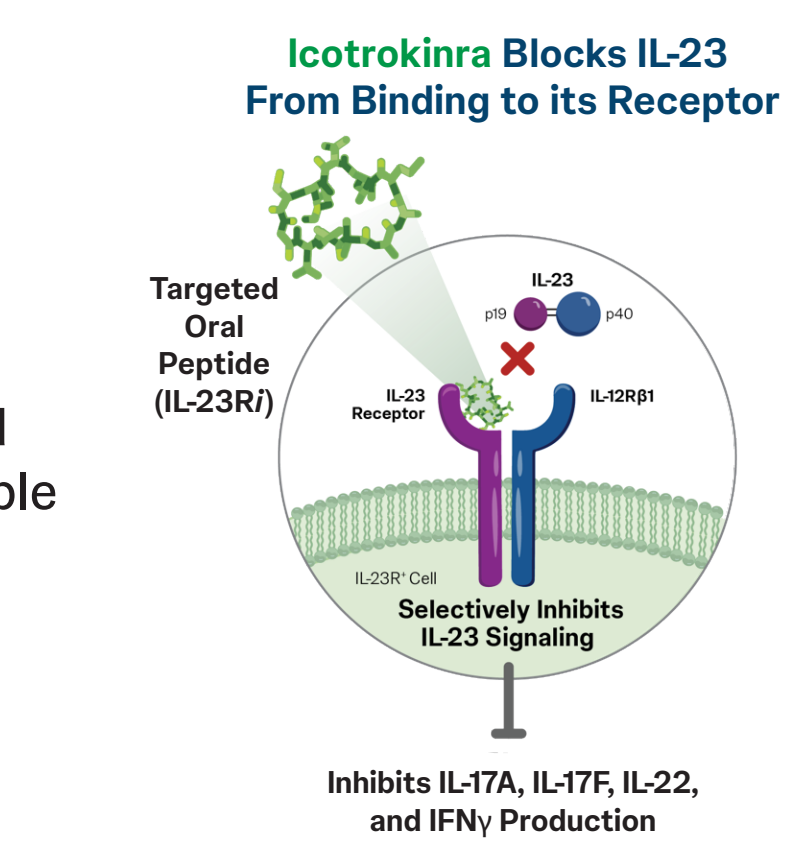
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## Background

**Pediatric plaque psoriasis (PsO)**  
Approximately one-third of patients with plaque PsO report onset before adulthood; however, few advanced treatment options are available<sup>1</sup>

**Icotrokinra**  
Patients with moderate-to-severe plaque PsO are generally limited to injectable therapies to achieve high-level efficacy with a favorable safety profile

Icotrokinra (ICO) is a first-in-class, targeted oral peptide that:  
- Selectively binds the interleukin (IL)-23 receptor and inhibits IL-23 signaling<sup>2</sup>  
- Demonstrated significant skin clearance and no safety signals through 1 year in Phase 2 PsO studies<sup>3,4</sup>  
- Demonstrated significantly higher rates of almost clear and/or completely clear skin vs placebo (PBO) at Week (W)16 and no safety signals through W24 among all participants with moderate-to-severe plaque PsO in ICONIC-LEAD, the first pivotal Phase 3 trial evaluating a systemic advanced therapy in adults and adolescents<sup>5</sup>



## Objective

Key clinical outcomes and adverse events (AEs) from the ICONIC-LEAD adolescent subgroup through W24 are reported

## ICONIC-LEAD – Study Design & Adolescent Subgroup

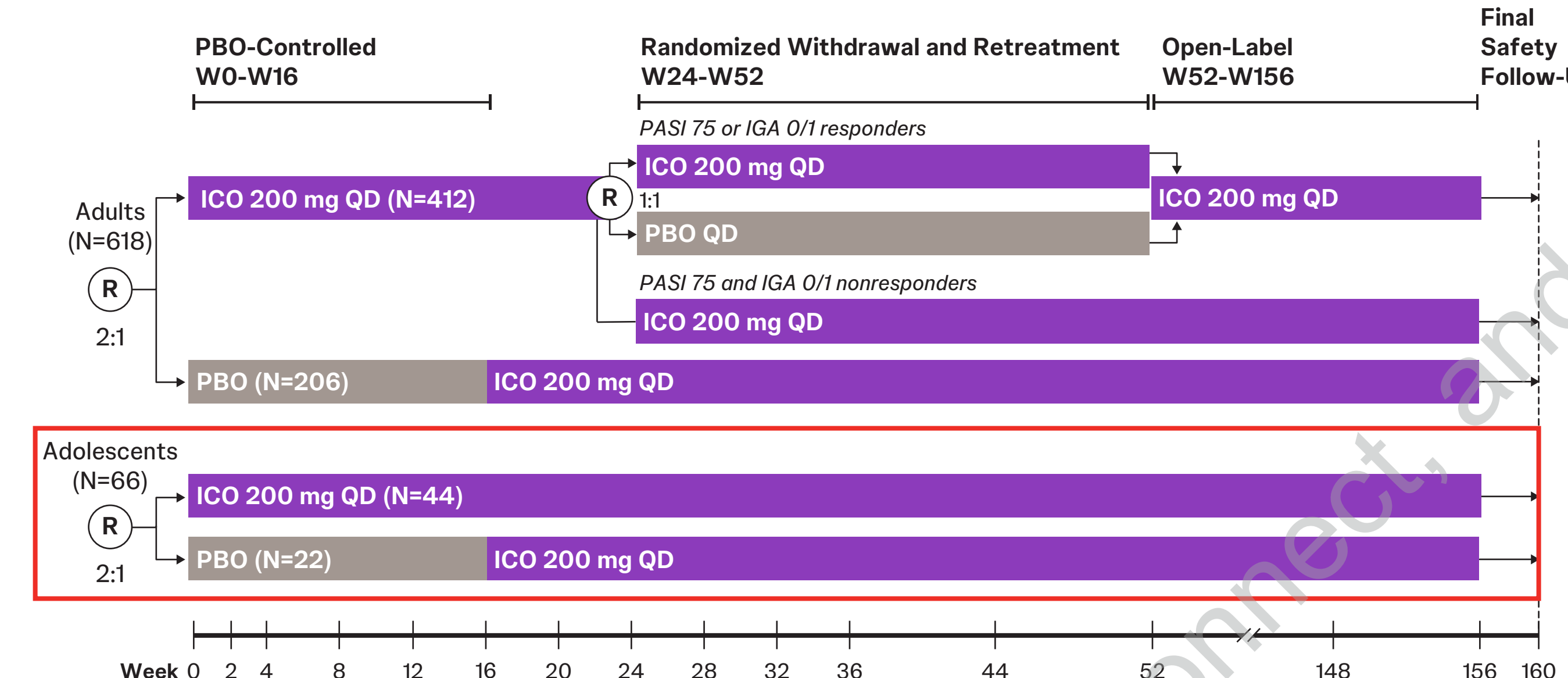
Moderate-to-severe plaque PsO (N=684)

### Key inclusion criteria:

- ≥12 years, including
  - Adults (≥18y)
  - Adolescents (12<18y)
- Plaque PsO ≥26 weeks
- BSA ≥10%, PASI ≥12, IGA ≥3
- Candidate for photo-therapy or systemic PsO treatment

### Adolescent-specific inclusion criteria:

- Body weight ≥40 kg<sup>3</sup>



<sup>3</sup>Weight limit was set to ensure similar exposures between adults and adolescents. BSA=body surface area, IGA=Investigator Global Assessment, PASI=Psoriasis Area and Severity Index, QD=once daily.

## Methods

### Endpoints & Statistical Considerations

#### Endpoints in adolescents

- Overall ICONIC-LEAD co-primary endpoints at W16
  - IGA 0/1 response (IGA score of cleared [0] or minimal [1] and ≥2-grade improvement from baseline)
  - PASI 90 response (≥90% improvement from baseline in total PASI score)
- Select key secondary endpoints assessing complete skin clearance at W16
  - IGA 0 response
  - PASI 100 response
- Assessment of clinical response and AEs continued through W24

#### Statistical considerations

- Adolescents were analyzed as a subgroup of the ICONIC-LEAD study
- Nominal p-values for ICO vs PBO at W16 were based on Cochran-Mantel-Haenszel chi-square test stratified by geographic region (the Americas, the European Union, Asia-Pacific; 2-sided α=0.05)
- Participants with the following intercurrent events (ICE) were considered as nonresponders:
  - Discontinued study drug due to lack of efficacy or AE of worsening of PsO (ICE 1)
  - Initiated prohibited medication that could impact PsO (ICE 2)
- Observed data were used for participants with an ICE of discontinuing study agent due to other reasons
- After accounting for these ICE, nonresponder imputation (NRI) was applied to participants with missing data

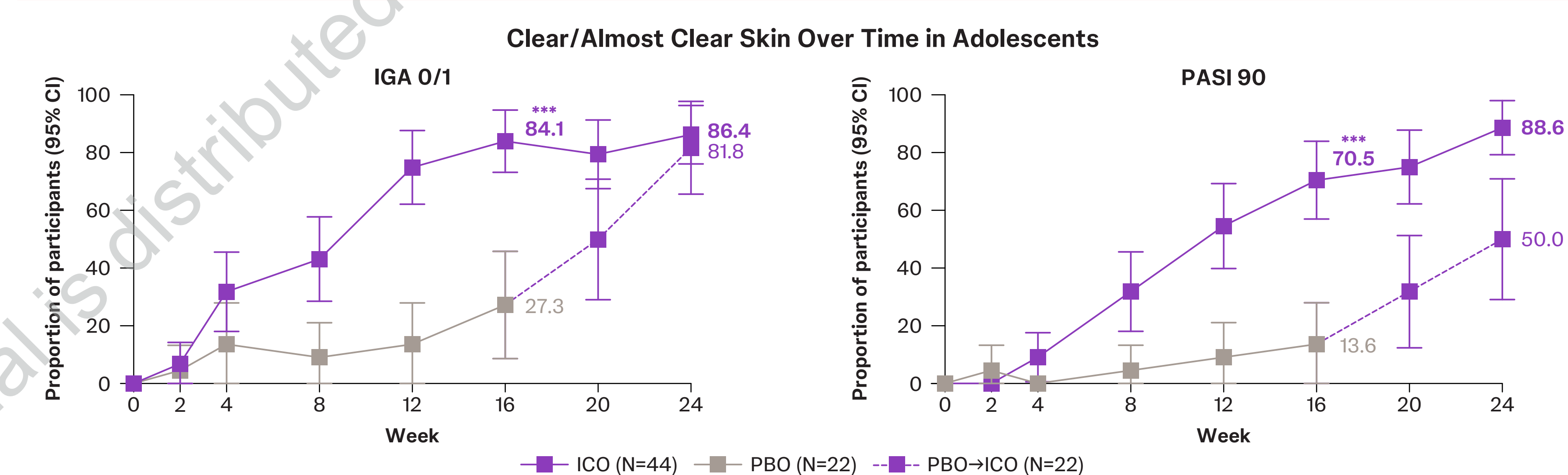
## Results

### Adolescent characteristics were generally balanced across groups

Baseline Characteristics of Adolescents	ICO 200 mg QD (N=44)	PBO (N=22)
<b>Demographics</b>		
Age, yrs	15.0 (1.8)	15.0 (1.5)
Female	52%	64%
Race, Asian/Black/White	23/4/70%	23/0/77%
BMI, kg/m <sup>2</sup>	26.0 (7.1)	24.4 (7.9)
<b>Characteristics</b>		
PsO disease duration, yrs	4.9 (4.0)	5.8 (3.4)
% BSA with PsO	26.1 (15.6)	27.1 (14.0)
IGA score		
Moderate (3)	70%	82%
Severe (4)	30%	18%
PASI (0-72)	19.8 (8.2)	18.6 (4.0)
<b>Prior treatments for PsO</b>		
Systemic therapy <sup>a</sup>	52%	50%
Biologic therapy <sup>b</sup>	14%	41%
Phototherapy (PUVA or UVB)	23%	14%

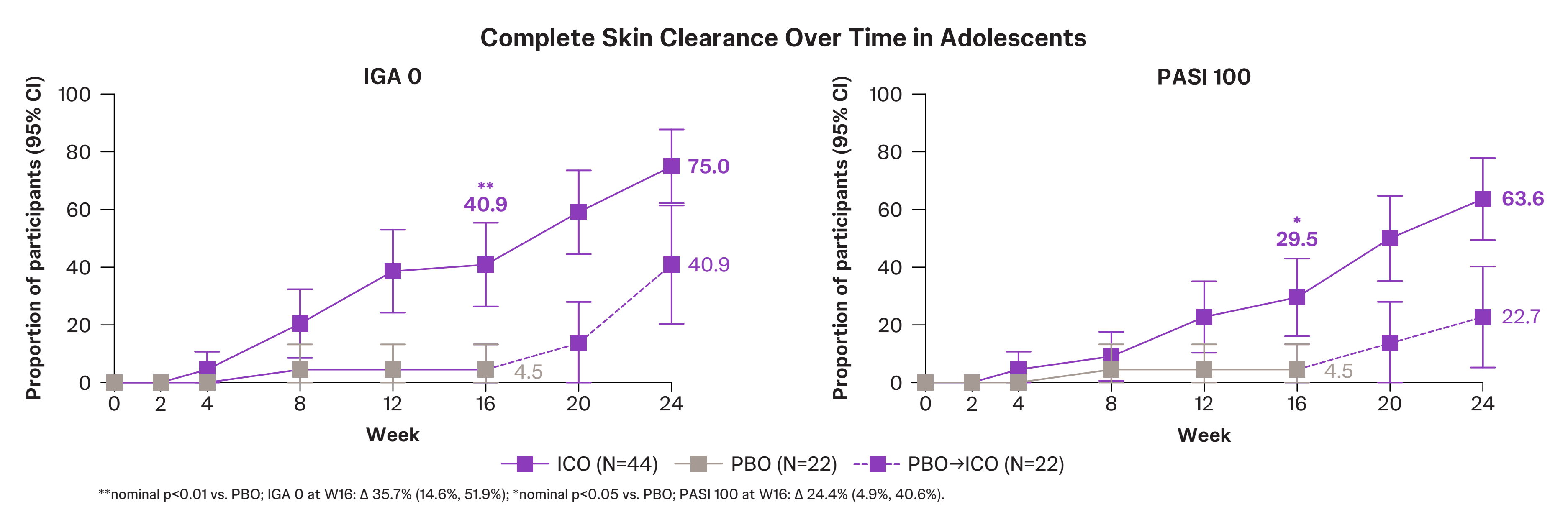
Data shown are mean (SD) unless specified otherwise. <sup>a</sup>Includes conventional nonbiologic, novel nonbiologic, IL-23/24, and analogs, phototherapy, and biologics. <sup>b</sup>Includes etanercept, infliximab, adalimumab, ustekinumab, brodalumab, secukinumab, ixekizumab, brodalumab, guselkumab, risankumab, bimekizumab, olpasocic, efalizumab, natalizumab, and certolizumab pegol. BMI=body mass index; PUVA=psoralen plus ultraviolet A; UVB=ultraviolet B.

### ICO demonstrated high rates of clear/almost clear skin in adolescents at W16 and W24



\*\*\*nominal p<0.001 vs. PBO; IGA 0/1 at W16: Δ 56.2% (33.2%, 74.1%); PASI 90 at W16: Δ 56.3% (32.5%, 73.0%).

### ICO demonstrated high rates of completely clear skin in adolescents at W16 and W24



\*nominal p<0.01 vs. PBO; IGA 0 at W16: Δ 35.7% (14.6%, 51.9%); PASI 100 at W16: Δ 24.4% (4.9%, 40.6%).

### ICO demonstrated a favorable safety profile through W16 in adolescents, consistent with the overall study population

AEs Through W16	Adolescents		Overall Study Population	
	ICO 200 mg QD (N=44)	PBO (N=22)	ICO 200 mg QD (N=456)	PBO (N=228)
Mean weeks of follow-up	16.2	16.2	15.9	15.8
Any AE, n (%)	22 (50)	16 (73)	225 (49)	112 (49)
Infection, n (%)	14 (32)	6 (27)	107 (24)	51 (22)
Upper respiratory tract infection	6 (14)	1 (4)	30 (7)	16 (7)
Nasopharyngitis	5 (11)	3 (14)	31 (7)	15 (7)
SAE, n (%)	2 (4) <sup>a,b</sup>	0	6 (1)	6 (3)

<sup>a</sup>17-year-old female with a medical history of obesity and a gastric sleeve procedure leading to rapid weight loss before entering the study. CT and ultrasound showed paracetamol due to cholelithiasis. Cholecystectomy was performed and she was discharged in good condition. Treatment was interrupted but resumed after resolution and she continues in the study. <sup>b</sup>17-year-old female with medical history of joint pain was admitted to the hospital at W4 of the study for further diagnostic evaluation of joint pain. No imaging studies were completed. Treatment was continued without interruption. She was discharged the next day in good condition. No diagnosis was confirmed. SAE=serious AE.

- In adolescents through W24 of ICO:
  - Most common AEs were consistent with those observed through W16 (upper respiratory tract infection, nasopharyngitis)
  - No active TB, malignancy, or death
  - No safety signal emerged
- The proportions of adolescents with clinical laboratory abnormalities were similar between ICO and PBO groups through W16 and remained low through W24 of ICO