Icotrokinra, a Targeted Oral Peptide That Selectively Blocks the Interleukin-23–Receptor, for the Treatment of Moderate-to-Severe Plaque Psoriasis: Results Through Week 24 of the Phase 3, Randomized, Double-blind, Placebo-Controlled ICONIC-LEAD Trial

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ICONIC-LEAD study design

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

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Background



Patients with moderate-to-severe plaque psoriasis (PsO) are generally limited to injectable therapies to achieve high-level efficacy with a favorable safety



peptide that:

Icotrokinra (ICO) is a first-in-class, targeted oral

- Selectively binds the interleukin (IL)-23 receptor and inhibits IL-23 pathway signaling¹
- Demonstrated significant skin clearance and no safety signals through 1 year in Phase 2 PsO studies^{2,3}
- Is being evaluated in Phase 3 studies in adults and adolescents with moderate-to-severe plague PsO (ICONIC-LEAD)

Icotrokinra Blocks IL-23 From Binding to its Receptor

nhibits IL-17A, IL-17F, IL-22,

and IFNy Production

Co-primary endpoints:

Key inclusion criteria

Plaque PsO for ≥26 weeks

• ≥12 years

Endpoints

- IGA 0/1 at W16
- PASI 90 at W16

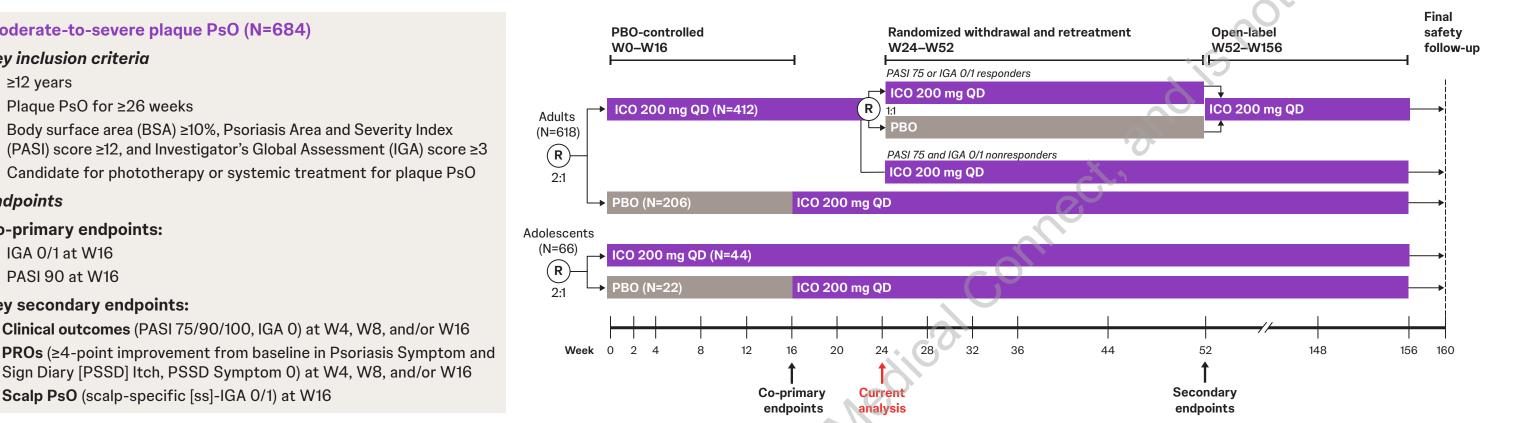
Key secondary endpoints:

Clinical outcomes (PASI 75/90/100, IGA 0) at W4, W8, and/or W16

Body surface area (BSA) ≥10%, Psoriasis Area and Severity Index

• Candidate for phototherapy or systemic treatment for plaque PsO

- PROs (≥4-point improvement from baseline in Psoriasis Symptom and Sign Diary [PSSD] Itch, PSSD Symptom 0) at W4, W8, and/or W16
- Scalp PsO (scalp-specific [ss]-IGA 0/1) at W16



Key Takeaways



In ICONIC-LEAD, among the first pivotal trials evaluating the novel targeted oral peptide ICO in adults and adolescents with moderate-to-severe plaque PsO:

- **✓** ICO demonstrated *significantly* higher rates of clear/almost clear skin and scalp disease and PsO symptom relief than PBO at W16
- ✓ ICO demonstrated separation from PBO as early as W4, with increasing response rates through W24
- ✓ Rates of AEs were similar between the ICO and PBO groups
- ✓ No safety signal was identified through W24

Objectives



Here we report key clinical and patient-reported outcomes (PROs) and safety-related findings from the pivotal ICONIC-LEAD study through Week (W) 24

Results

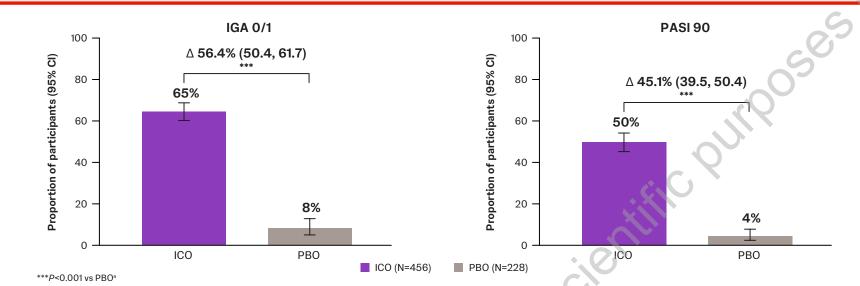
Baseline characteristics were similar between groups

• Overall, 5% of participants (ICO: 4%; placebo [PBO]: 6%) discontinued prior to W16°

Baseline characteristics		ICO 200 mg QD (N=456)	PBO (N=228)
	phic characteristics	(11 450)	(11 220)
3	Age, year, mean (SD)	42.4 (16.3)	43.2 (16.6)
	Adolescent cohort, year	15.0 (1.8)	15.0 (1.5)
	Male	64%	68%
	White	72%	72%
	BMI, kg/m², mean (SD) ^b	29.2 (6.9)	29.3 (7.0)
Disease o	characteristics		
	Psoriasis disease duration, year, mean (SD)	17.3 (13.9)	16.6 (12.7)
	% BSA with psoriasis, mean (SD)	24.6 (14.3)	27.1 (16.2)
	IGA score		
	Moderate (3)	75%	76%
	Severe (4)	25%	24%
	PASI (0-72), mean (SD)	19.4 (7.1)	20.8 (8.1)
PsO involving the scalp area			
(3)	ss-IGA score°		
()	Moderate (3)		51%
ا ا	Severe (4)	17%	22%
Prior trea	tment for PsO		
***	Phototherapy (PUVA and UVB)	30%	29%
•	Systemic therapy ^d	72%	71%
	Biologic therapy ^e ticipants who discontinued prior to W16 (ICO: n=19 [4%]; PBO: n=14 [6%]	32%	37%

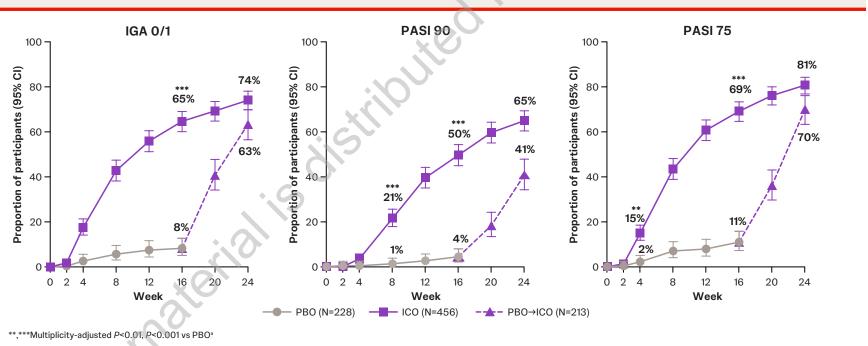
withdrawal by participant in the ICO group (n=8 [2%]) and lack of efficacy in the PBO group (n=8 [4%]). "ICO: N=455; PBO: N=227. "ICO: N=451; PBO: N=227. "Conventional nonbiologic systemics, novel nonbiologic systemics, 1,25-vitamin D3 and analogues, phototherapy, and biologics. "Adalimumab, alefacept, briakinumab, brodalumab, certolizumab pegol, efalizumab, etanercept, guselkumab, infliximab, ixekizumab, natalizumab, risankizumab, secukinumab, tildrakizumab, and ustekinumab. BMI=Body mass index, BSA=Body surface area; ICO=Icotrokinra, IGA=Investigator's Global Assessment, PASI= Psoriasis Area and Severity Index, PBO=Placebo, PsO=Psoriasis, PUVA=Psoralen plus ultraviolet A, QD=Once daily, SD=Standard deviation, ss-IGA=Scalp-specific Investigator's Global Assessment, UVB=Ultraviolet B, W=Week

ICO demonstrated significantly higher rates of IGA 0/1 and PASI 90 vs PBO at W16 (co-primary endpoints)



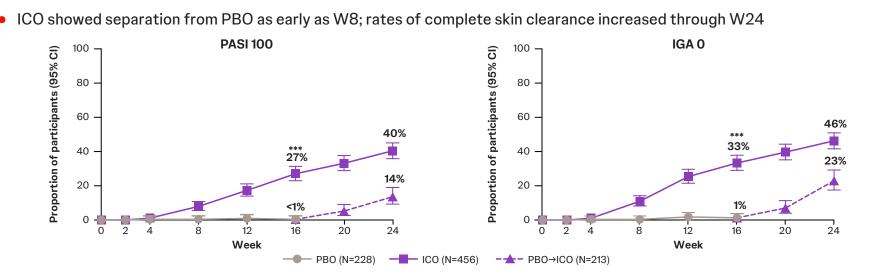
P values were calculated based on Cochran-Mantel-Haenszel chi-square test stratified by age group, baseline weight category (adults only), and geographic region. CI=Confidence interval. ICO=Icotrokinra. IGA=Investigator's Global Assessment IGA 0/1=IGA score of 0 (clear)/1 (almost clear) and a ≥2-grade improvement, PASI=Psoriasis Area Severity Index, PASI 90=Reduction from baseline of 90% in the PASI score, PBO=Placebo

ICO demonstrated early separation from PBO; rates of clear/almost clear skin increased through W24



*P values were calculated based on Cochran-Mantel-Haenszel chi-square test stratified by age group, baseline weight category (adults only), and geographic region, if applicable. CI=Confidence interval, ICO=Icotrokinra, IGA=Investigator's Global Assessment, IGA 0/1=IGA score of 0 (clear)/1 (almost clear) and a ≥2-grade improvement, PASI=Psoriasis Area Severity Index, PASI 75/90=Reduction from baseline of 75%/90% in the PASI score, PBO=Placebo

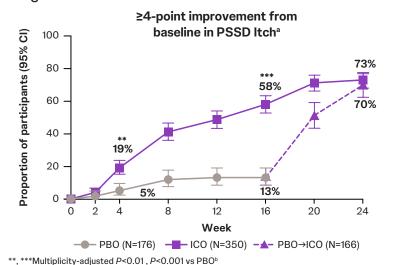
ICO demonstrated significantly higher rates of complete skin clearance vs PBO

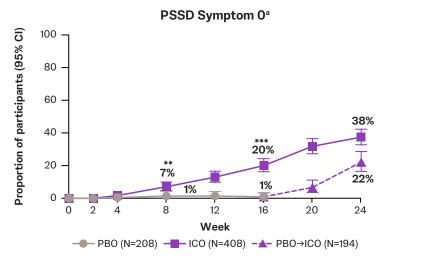


P values were calculated based on Cochran-Mantel-Haenszel chi-square test stratified by age group, baseline weight category (adults only), and geographic region, CI=Confidence interval, ICO=(cotrokinra, IGA=(nvestigator's Global Assessment, IGA 0=IGA score of 0 (clear) and a ≥2-grade improvement, PASI=Psoriasis Area Severity Index, PASI 100=Reduction from baseline of 100% in the PASI score, PBO=Placebo

Significantly higher proportions of ICO- vs PBO-treated participants reported meaningful improvements

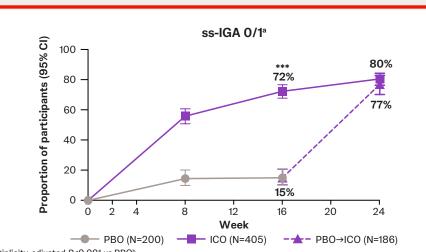
• ICO demonstrated early separation from PBO on improving itch and resolving symptoms; response rates increased





*Among participants with a baseline PSSD Itch score ≥4 or PSSD Symptom score >0. *P values were calculated based on Cochran-Mantel-Haenszel chi-square test stratified by age group, baseline weight category (adults only), and geographic region, if

ICO demonstrated significantly higher rates of clear/almost clear scalp PsO vs PBO



group, baseline weight category (adults only), and geographic region. CI=Confidence interval, ICO=Icotrokinra, PBO=Placebo, ss-IGA=Scalp-specific

Adverse event (AE) rates were generally similar between groups through W16

Through W24 of ICO treatment, the most commonly reported AEs were similar to those observed through W16 and no safety signal emerged

	ICO 200 mg QD (N=456)	PBO (N=228)
Safety through W16		
Mean weeks of follow-up	15.9	15.8
Any AE	225 (49%)	112 (49%)
Most common AEs (≥5%)		
Nasopharyngitis	31 (7%)	15 (7%)
Upper respiratory tract infection	30 (7%)	16 (7%)
SAE ^a	6 (1%)	6 (3%)
Infection	107 (23%)	51 (22%)
Serious infection	1 (<1%)	0
AE leading to discontinuation ^b	6 (1%)	1 (<1%)
Gastrointestinal AE	26 (6%)	13 (6%)
Active TB	Ô	Ô
Malignancy ^c	2 (<1%)	0

group; and adenocarcinoma of the colon, prostate cancer, pancreatitis, bacterial gastroenteritis (serious infection), arthralgia, and subarachnoid hemorrhage in the ICO group. bAEs leading to discontinuation through W16 included blood glucose increased in the PBO group; and adenocarcinoma of the colon, prostate cancer, hypertriglyceridemia, subarachnoid hemorrhage, erectile dysfunction, and psoriasis in the ICO group. "Malignancies reported were adenocarcinoma of the colon (n=1 in a participant who had a history of smoking; the participant reported mild gastroenteritis during screening, and severe colitis starting on study day 7, and severe ileus on day 14 leading up to the diagnosis of grade 3 adenocarcinoma of the colon on day 19) and prostate cancer (n=1 in a 62-year-old male, former smoker [30 pack years], with a family history [brother] of prostate cancer, and an elevated prostate-specific antigen level prior to baseline was diagnosed with grade 1 prostate cancer on study day 46 following a positive biopsy).

AE=Adverse event, ICO=Icotrokinra, PBO=Placebo, QD=Once daily, SAE=Serious adverse event, TB=Tuberculosis, W=Week