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Maintenance of Response With Icotrokinra, a Targeted Oral Peptide, for the Treatment of Moderate-to-Severe Plaque Psoriasis

Randomized Treatment Withdrawal in Adults (Weeks 24-52) and Continuous Treatment in Adolescents (Through Week 52) From the Phase 3, ICONIC-LEAD Trial

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Conflicts of Interest

JS: Served as a speaker, consultant, advisory board member and/or investigator for AbbVie, Amgen, Arcutis, Aslan, Bristol Myers Squibb, Coval Biopharma, Dermavant, Eli Lilly, Johnson & Johnson, KoBio Labs, National Psoriasis Foundation, Novartis, Pfizer, Regeneron/Sanofi, and UCB.

YC: No conflicts of interest reported.

RB: Served as an advisory board member, consultant, speaker and/or investigator for and received honoraria and/or grants from, AbbVie, Alumis, Amgen, AnaptysBio, Arcutis, BMS/Celgene, Dermavant, Eli Lilly, Johnson & Johnson, LEO Pharma, Nimbus, Takeda, UCB, VentyxBio, Vyne, Xencor, Zai Lab, and Zurabio; and is an employee and shareholder of Innovaderm Research.

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Background and Objective



Icetrokinra for plaque psoriasis

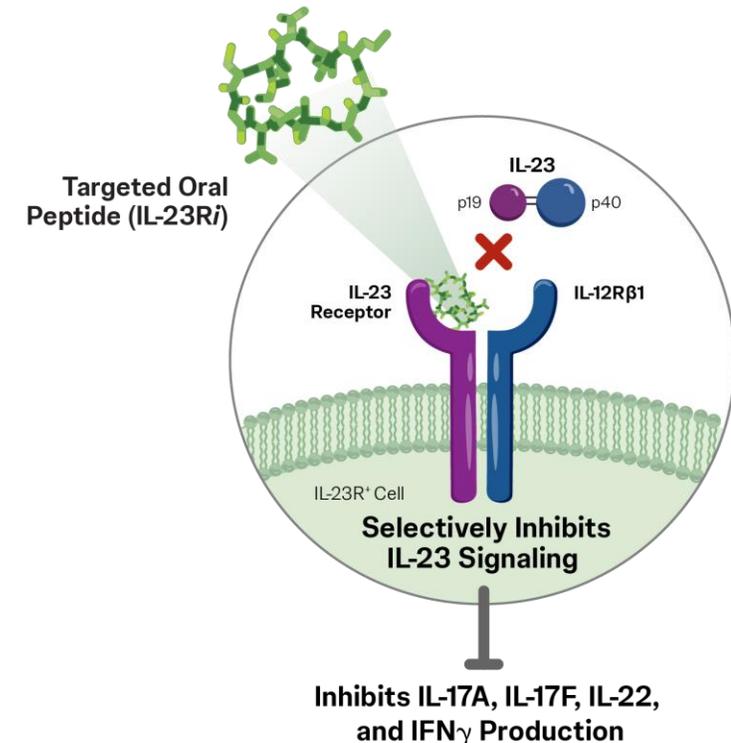
- Patients with moderate-to-severe plaque psoriasis (PsO) are limited to injectable therapies to achieve high-level efficacy with a favorable safety profile
- Icetrokinra (ICO) is a first-in-class targeted oral peptide that:
 - Selectively binds the interleukin (IL)-23 receptor and inhibits IL-23 pathway signaling¹
 - Demonstrated significantly higher rates of skin clearance vs placebo (PBO) at Week (W)16, with increasing response rates and no safety signal through W24 in adults & adolescents with moderate-to-severe plaque PsO in the phase 3 ICONIC-LEAD study²



Objective

- Report maintenance of ICO clinical response during the randomized-withdrawal period in adults (ICO vs PBO from W24-52), longer-term ICO effects in adolescents (through W52), and safety through W52 of ICONIC-LEAD

Icetrokinra Blocks IL-23 From Binding to its Receptor

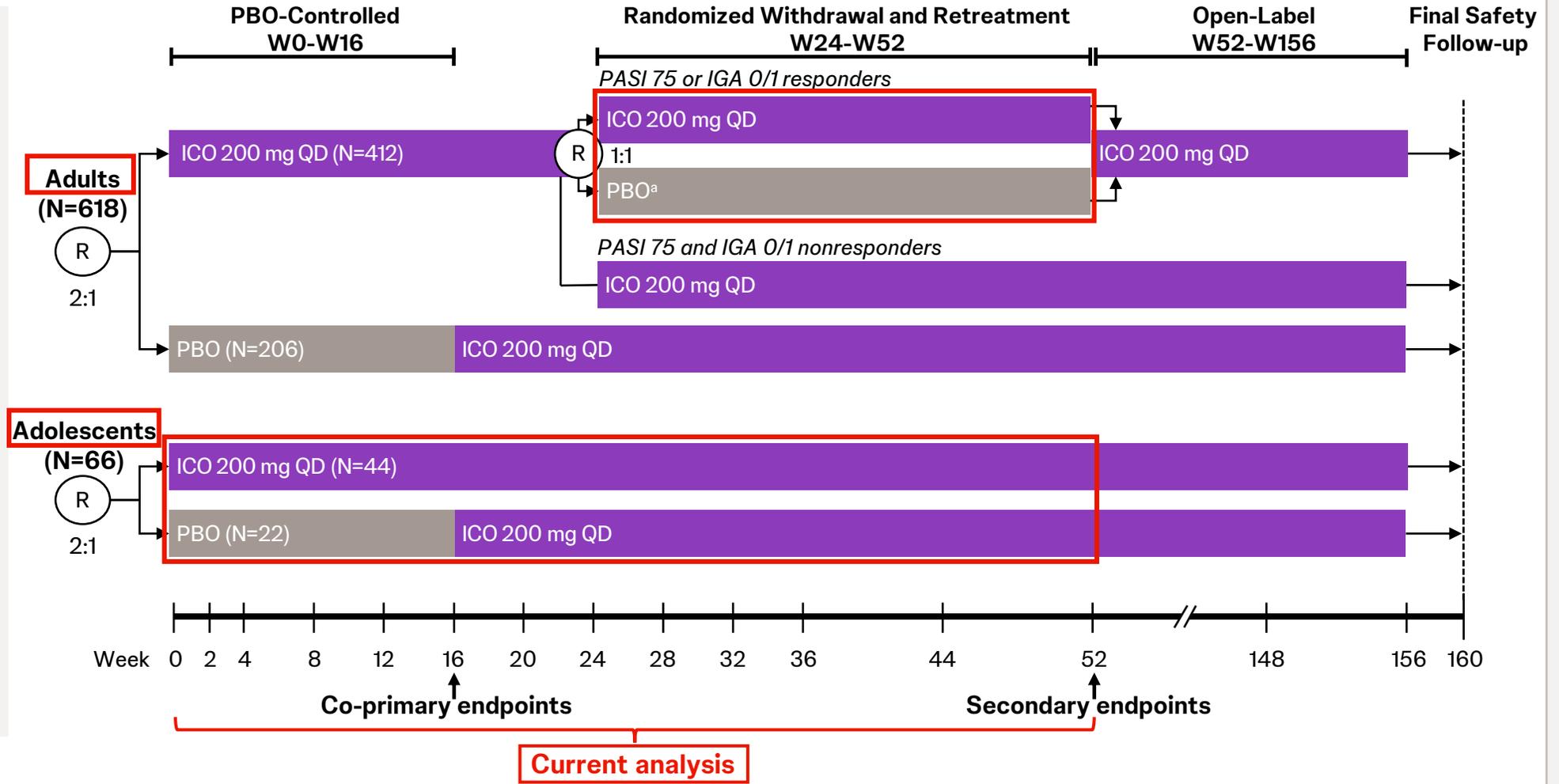


ICONIC-LEAD – Study Design

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

Key inclusion criteria

- ≥12 years
- Plaque PsO for ≥26 weeks
- BSA ≥10%
- PASI score ≥12
- IGA score ≥3
- Candidate for phototherapy or systemic treatment for plaque PsO



^aParticipants retreated with ICO upon loss of ≥50% PASI improvement observed at W24. BSA=body surface area, ICO=icotrokinra, IGA=Investigator's Global Assessment, PASI=Psoriasis Area and Severity Index, PBO=placebo, PsO=psoriasis, QD=once daily, W=week.

Endpoints & Statistical Considerations



Adult W24 ICO Responders^a: PASI & IGA Responses From W24 Through W52

- **Key Secondary Endpoints^b**
 - **Response rates at W52^c**
 - PASI 75 among PASI 75 responders at W24
 - PASI 90 among PASI 90 responders at W24
 - **Time to loss of response (LOR) through W52^c**
 - Loss of PASI 75 among PASI 75 responders at W24
 - Loss of PASI 90 among PASI 90 responders at W24
- **Other Secondary Endpoints**
 - **Response rates at W52^c**
 - IGA 0/1 & ≥ 2 -grade-improvement from baseline among IGA 0/1 responders at W24
 - **Time to LOR through W52^c**
 - Time to loss of IGA 0/1 among IGA 0/1 responders at W24



Adolescents: PASI & IGA Responses Through W52^c

- PASI 75
- PASI 90
- IGA 0/1 & ≥ 2 -grade-improvement from baseline

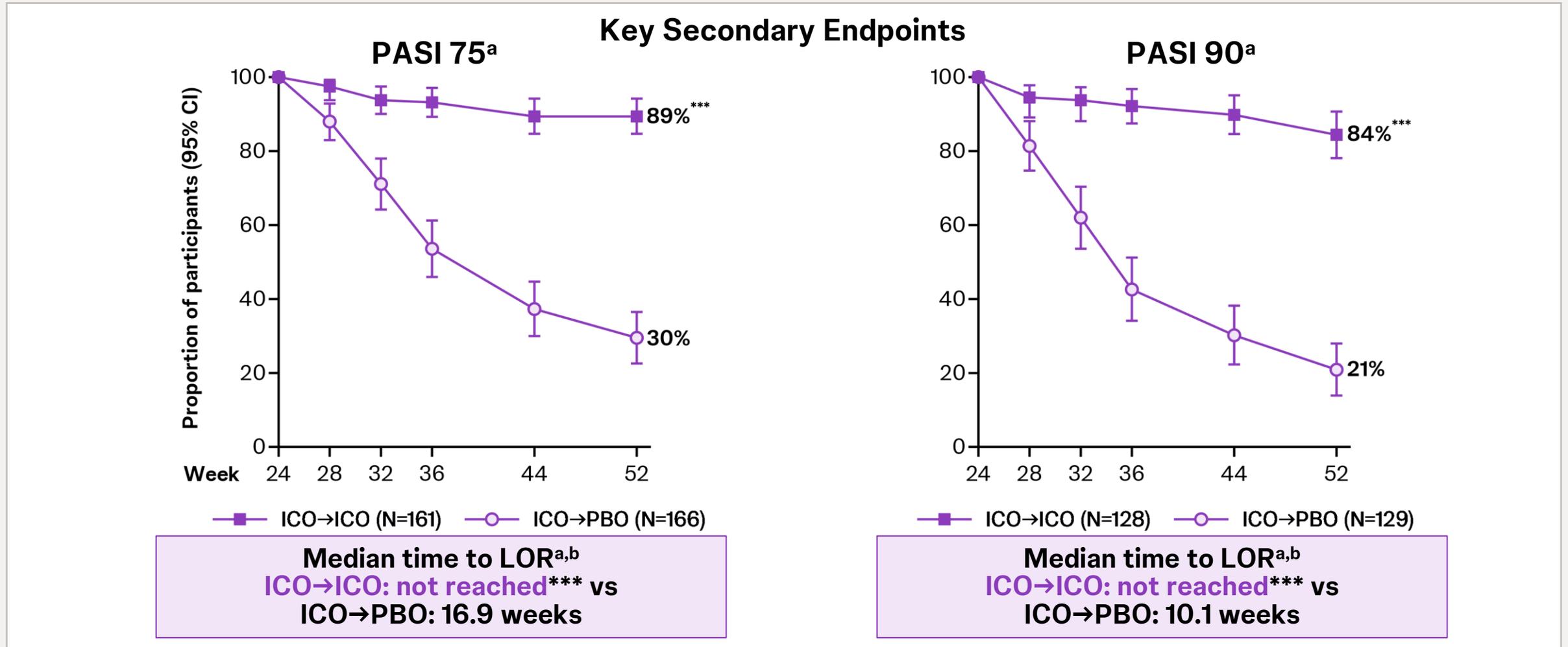
^aAdults randomized to ICO at baseline who were PASI 75 or IGA 0/1 responders at W24; ^bMultiplicity-adjusted p-values for ICO vs PBO at/through W52; ^cParticipants (pts) considered nonresponders or to have LOR: discontinued study drug due to a lack of efficacy or AE of worsening PsO; initiated a prohibited medication that could impact PsO; or met retreatment criterion for pts randomized to PBO at W24. For binary endpoints, nonresponder imputation was used for missing data (not imputed for LOR). **AE**=adverse event, **ICO**=iclotrokinra, **IGA**=Investigator's Global Assessment, **PASI**=Psoriasis Area and Severity Index, **PBO**=placebo, **W**=week.

Baseline characteristics were generally comparable across re-randomized treatment groups

Baseline Characteristics: Adult W24 ICO Responders*		ICO → ICO (N=169)	ICO → PBO (N=172)
Demographics			
	Age, yrs	46.5 (14.4)	44.5 (14.4)
	Female	30%	38%
	Race, Asian/Black/White	23% / 1% / 74%	24% / 1% / 73%
	BMI, kg/m ²	29.0 (6.8)	29.7 (6.7)
Disease Characteristics			
	PsO disease duration, yrs	19.2 (14.1)	18.6 (13.9)
	% BSA with PsO	24.8 (14.0)	24.9 (14.7)
	IGA score		
	Moderate (3)	74%	78%
	Severe (4)	26%	22%
PASI (0-72)	19.6 (6.7)	19.2 (7.3)	
Prior PsO Treatments			
	Phototherapy (PUVA or UVB)	31%	31%
	Systemic therapy ^a	76%	72%
	Biologic therapy ^b	35%	33%

*Among 412 adults randomized to ICO at baseline, 341 (83%) were recorded as PASI 75 or IGA 0/1 responders at W24

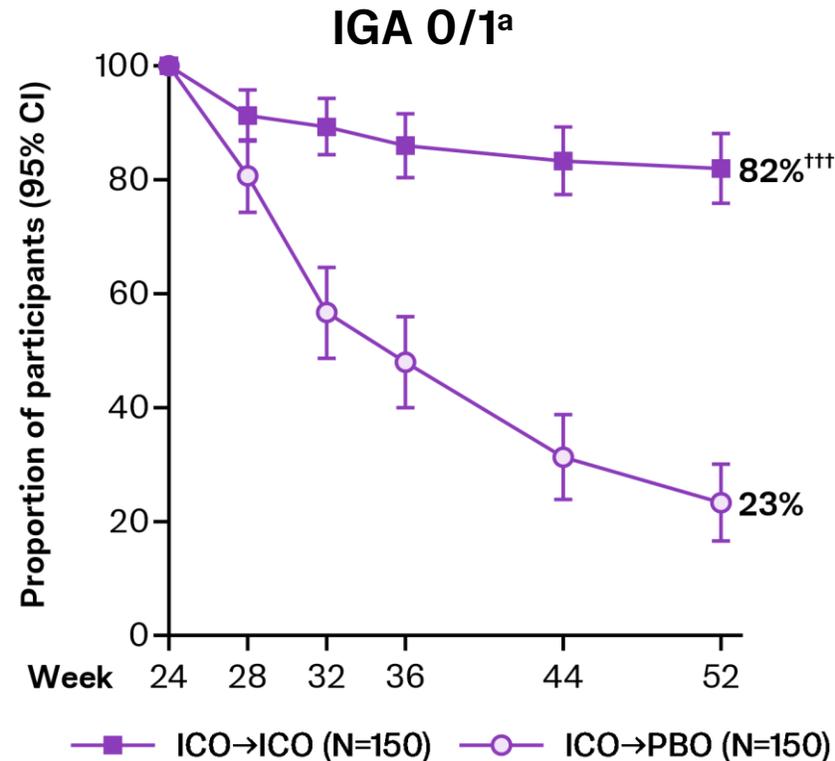
W24 ICO responders re-randomized to ICO demonstrated superior maintenance of PASI response vs PBO at W52



Multiplicity-adjusted *** $p < 0.001$ vs PBO^c

^aAmong W24 ICO PASI 75 and PASI 90 responders, respectively. ^bBased on life table method. ^cP-values for response rates (Cochran-Mantel-Haenszel chi-square test) and time to LOR (log-rank test) were stratified by geographic region (and for PASI 75, also stratified by PASI 90 response status at W24). CI=confidence interval, ICO=iclotrokinra, LOR=loss of response, PASI=Psoriasis Area and Severity Index, PBO=placebo, W=week.

W24 ICO responders re-randomized to ICO demonstrated greater maintenance of IGA 0/1 response vs PBO at W52

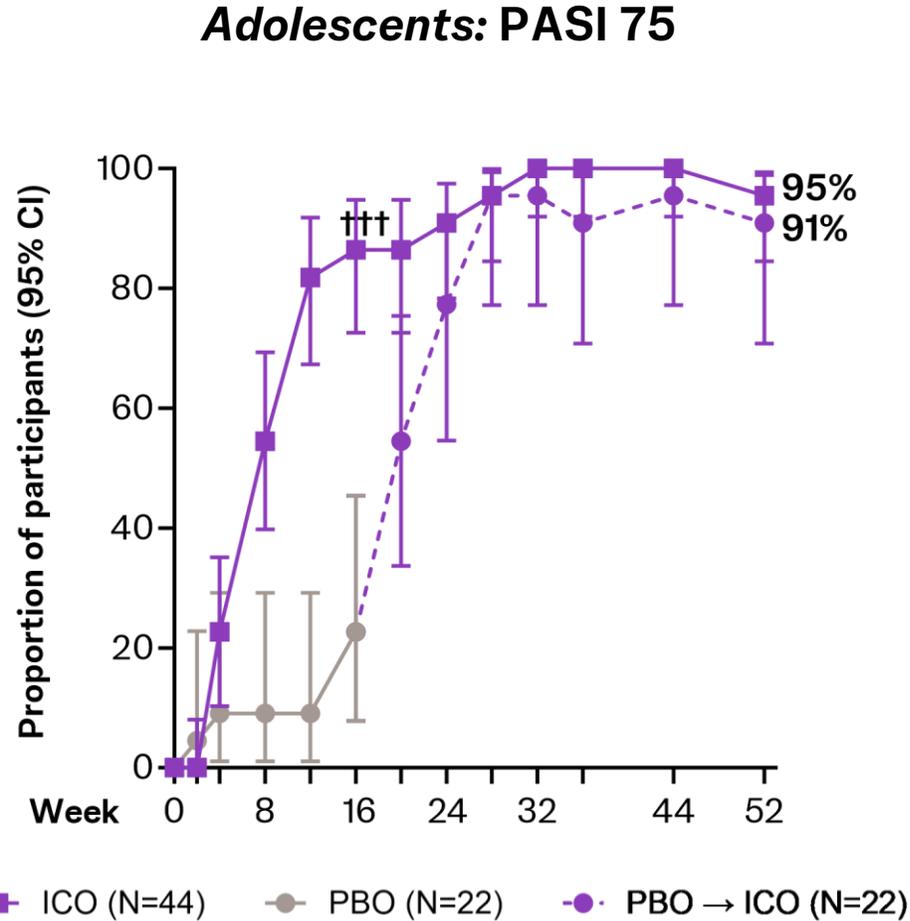


Median time to LOR^{a,b}
ICO→ICO: not reached^{†††} vs
ICO→PBO: 10.1 weeks

Nominal ^{†††} $p < 0.001$ vs PBO^c

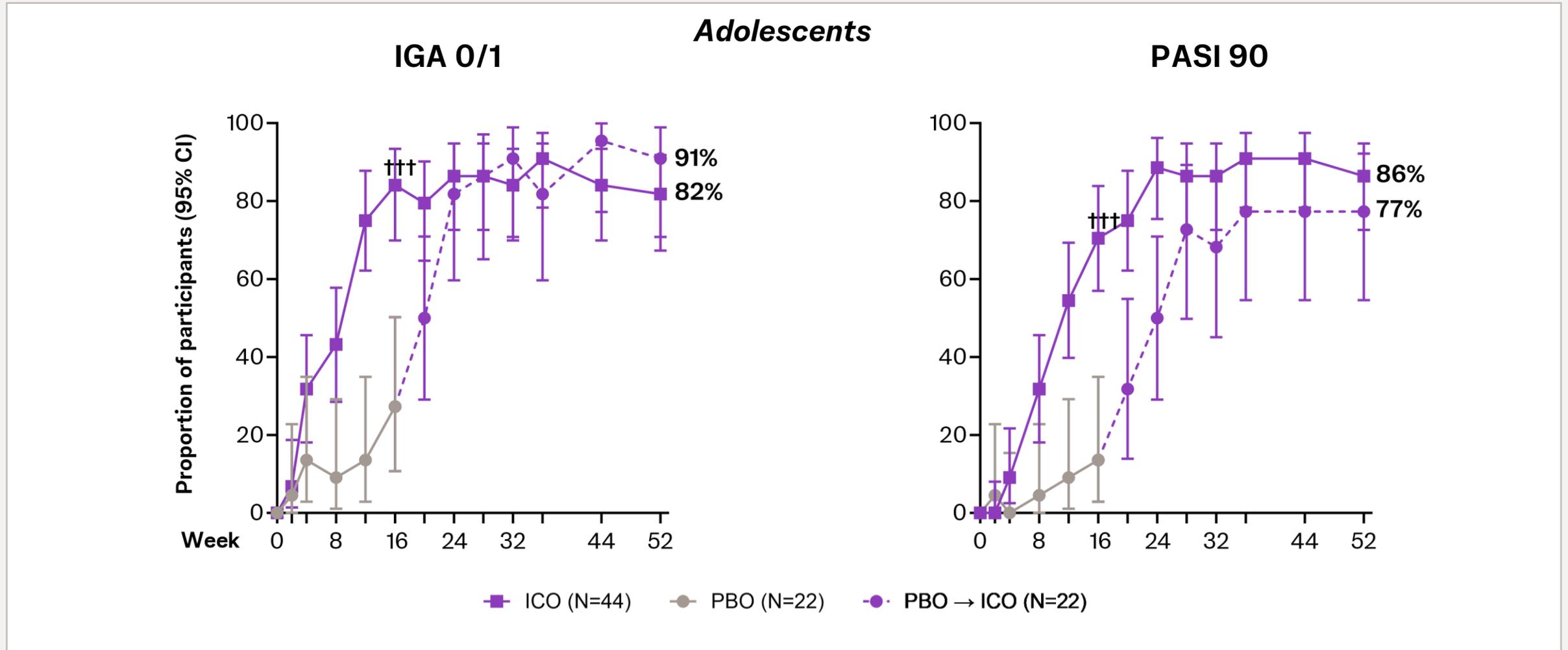
^aAmong W24 ICO IGA 0/1 responders. ^bBased on life table method. ^cP-values for response rates (Cochran-Mantel-Haenszel chi-square test) and time to LOR (log-rank test) were stratified by geographic region and PASI 90 response status at W24. CI=confidence interval, ICO=icotrokinra, IGA=Investigator's Global Assessment, IGA 0/1=IGA score 0/1 & ≥2-grade improvement from baseline, LOR=loss of response, PBO=placebo, W=week.

Adolescents: All (100%) ICO-randomized adolescents achieved PASI 75 by W32, with response rates maintained through W52



Nominal $†††p < 0.001$ vs PBO^a

~90% of ICO-randomized *adolescents* achieved clear/almost clear skin by W24, with durable response rates through W52



Nominal $^{+++}p < 0.001$ vs PBO^a

^aP-values based on Cochran-Mantel-Haenszel chi-square test stratified by geographic region. CI=confidence interval, ICO=icotrokinra, IGA=Investigator's Global Assessment, IGA 0/1=IGA score 0/1 & ≥2-grade improvement from baseline, PASI=Psoriasis Area and Severity Index, PBO=placebo, W=week.

ICO AE profile through W52 was consistent with that observed through W16

AEs Through W52	PBO-Controlled ¹ (Adults & Adolescents)		Active Treatment (Adults & Adolescents)		ICO Responders Re-Randomized at W24 (Adults)	
	ICO (W0-16; N=456)	PBO (W0-16; N=228)	ICO ^a (W16-52; N=213)	ICO (W0-52; N=456)	ICO → ICO (W24-52; N=168)	ICO → PBO ^b (W24-52; N=172)
Mean weeks of follow-up	15.9	15.8	35.3	43.4	27.7	27.8
Any AE	226 (50%)	112 (49%)	132 (62%)	313 (69%)	92 (55%)	82 (48%)
Most Common AEs						
Nasopharyngitis	31 (7%)	15 (7%)	23 (11%)	64 (14%)	21 (12%)	20 (12%)
Upper respiratory tract infection	30 (7%)	16 (7%)	24 (11%)	52 (11%)	9 (5%)	15 (9%)
SAE	6 (1%)	6 (3%)	4 (2%)	16 (4%)	3 (2%)	5 (3%)
Serious infection	1 (<1%)	0	1 (<1%)	1 (<1%)	0	1 (1%)
AE Leading to Discontinuation	6 (1%)	1 (<1%)	4 (2%)	10 (2%)	1 (1%)	3 (2%)
Gastrointestinal AE ^c	26 (6%)	13 (6%)	9 (4%)	51 (11%)	7 (4%)	8 (5%)
Active TB	0	0	0	0	0	0
Malignancy ^d	2 (<1%)	0	0	2 (<1%)	0	0

ICO AE profile in *adolescents* through W52 was consistent with that observed in the overall study population

¹Bissonnette R, et al. Presented at: AAD Annual Meeting; March 8, 2025; Orlando, FL, USA. Safety analysis set included all randomized and treated participants (pts). ^aIncludes data after W16 for PBO-randomized pts who crossed over to receive ICO. ^bCombined withdrawal and retreatment group. ^cBased on gastrointestinal disorders SOC. ^dIncluded adenocarcinoma of colon and prostate cancer. AE=adverse event, ICO=icotrokinra, PBO=placebo, SAE=serious adverse event, SOC=system organ class, TB=tuberculosis, W=week.

Key Takeaways

In the pivotal phase 3 ICONIC-LEAD study evaluating the targeted oral peptide icotrokinra (ICO) through 1 year in adults & adolescents with moderate-to-severe plaque PsO:



Continuous ICO demonstrated superior maintenance of skin response among **adult** W24 ICO responders:

- *89% and 84% maintained PASI 75 and PASI 90, respectively, at W52*
- *LOR vs ICO withdrawal: Not reached vs 17 weeks (PASI 75) or 10 weeks (PASI 90)*



Continuous ICO demonstrated robust and durable skin clearance rates in **adolescents** through W52:

- *PASI 90: 86%*
- *PASI 75: 95%*
- *IGA 0/1: 82%*



- *ICO AE profile through W52 was consistent with that observed through W16*
- *No ICO safety signal was identified through W52*