A Phase 2b, Long-term Extension, Dose-ranging Study of Oral JNJ-77242113 for Treating Moderate-to-Severe Plaque Psoriasis: FRONTIER-2



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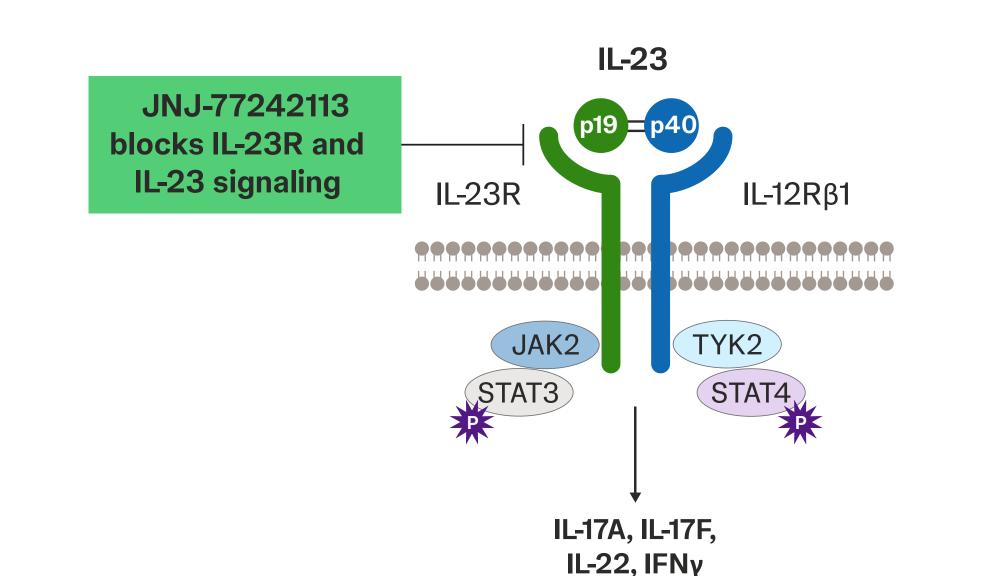
Background



FRONTIER 1, a randomized, double-blind, placebo (PBO)-controlled, dose-ranging, phase 2 study, evaluated the efficacy and safety of JNJ-77242113 in patients (pts) with moderate-to-severe plaque psoriasis (PsO)

 JNJ-77242113 showed superior efficacy and similar safety compared to PBO at Week 16¹

In the FRONTIER 2 long-term extension (LTE) study, FRONTIER 1 participants who entered the LTE were evaluated through 1 year



IFN=Interferon; IL=Interleukin; JAK=Janus kinase; STAT=Signal transducers and activators of transcription; TYK=Tyrosine kinase.

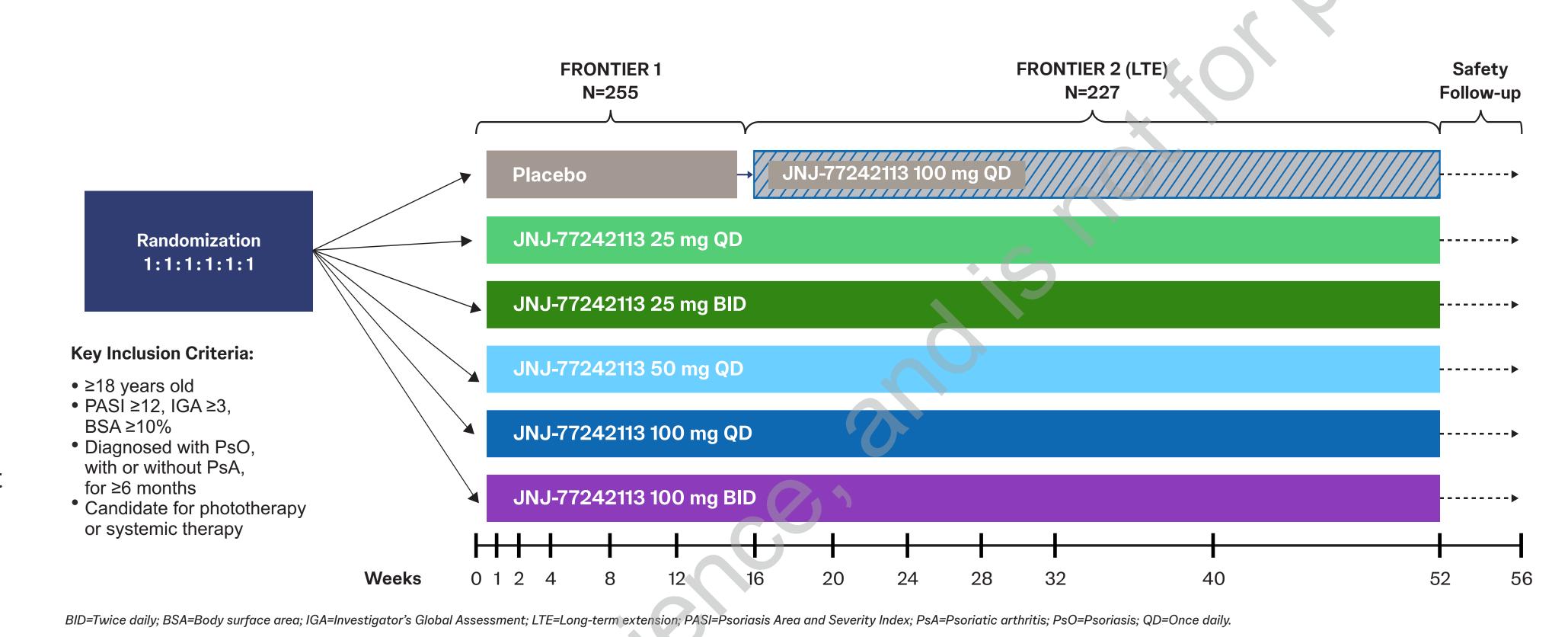
Objective



The efficacy and safety of JNJ-77242113, orally administered across a range of doses, were assessed through 1 year in pts with moderate-to-severe plaque PsO

Methods

- In FRONTIER 2, pts randomized to a JNJ-77242113 dosing group in FRONTIER 1 continued treatment through Week 52
- Pts from the FRONTIER 1 PBO group crossed over to JNJ-77242113 100 mg daily (QD) at Week 16 (PBO→100 mg QD)
- Efficacy endpoints (dichotomous and continuous endpoints utilized non-responder imputation [NRI] and mixed models for repeated measures [MMRM], respectively):
- All JNJ-77242113-randomized pts
- 35 PBO→100 mg QD pts
- Scalp-specific Investigator's Global Assessment (ss-IGA): assessed in pts with a ss-IGA ≥2 at baseline (BL)
- Adverse events (AEs): assessed in pts who entered the LTE and received ≥1 dose of JNJ-77242113 treatment



Key Takeaways

- In the FRONTIER 2 study, which evaluated the efficacy and safety of JNJ-77242113 in pts with moderate-to-severe plaque PsO through 1 year:
- The proportions of pts achieving the FRONTIER 1 primary efficacy endpoint were maintained from Week 16 to Week 52
- At Week 52, 76% of pts receiving 100 mg twice daily (BID) achieved PASI 75 response
- Across all efficacy endpoints, the highest response rates at Week 52 were achieved in the JNJ-77242113 100 mg BID group, including response rates of:

Near Complete Clearance

Complete Clearance

PASI 90: 64%

ss-IGA 0/1: 75%

- PASI 100: 40%

- IGA 0/1: 74%

- IGA 0: 43%

ss-IGA 0: 67%



Pt-reported improvements in PsO symptoms and signs were sustained through Week 52 At Week 52, response rates increased substantially in pts who crossed over from PBO to



In the context of data through Week 16¹, during which the combined JNJ-77242113 and PBO groups showed similar safety profiles, JNJ-77242113 remained well-tolerated; no safety signals were identified through Week 56

Results

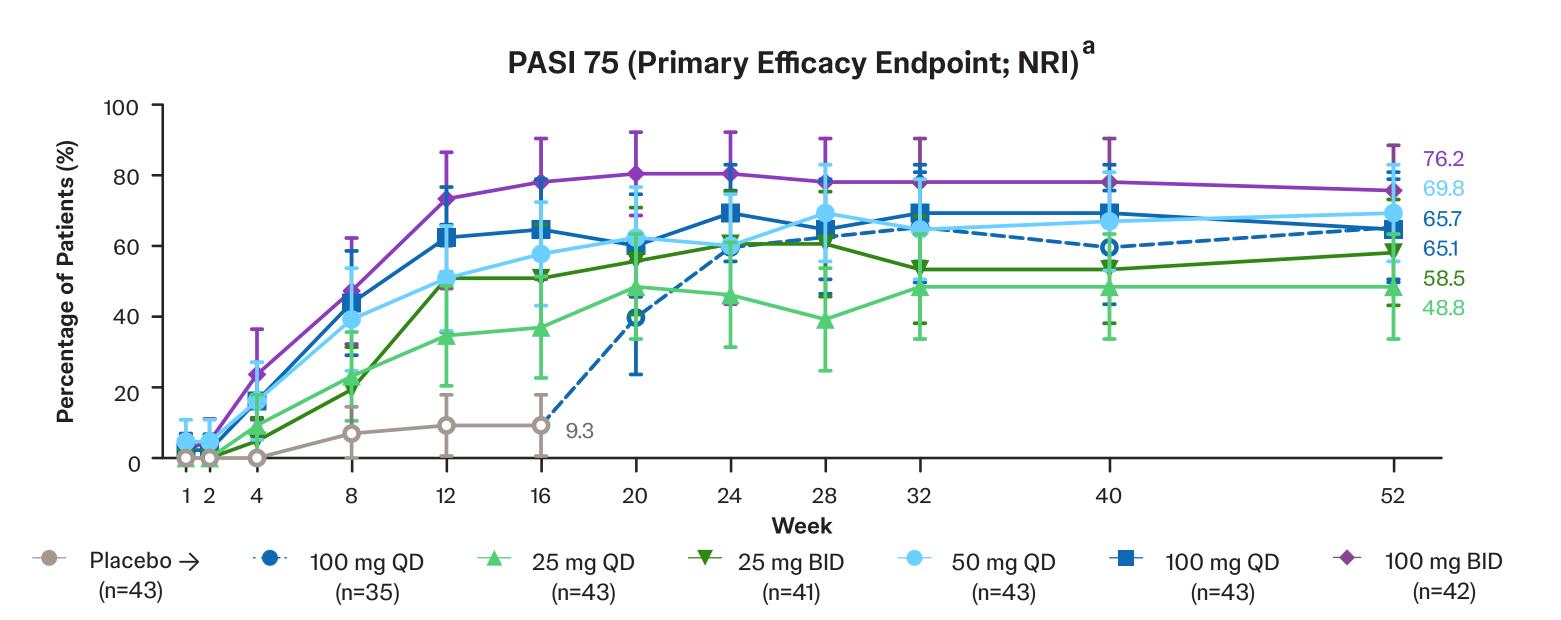
FRONTIER 2 assessed FRONTIER 1 pts with moderate-to-severe plaque PsO entering the LTE

FRONTIER 1 BL Characteristics			JNJ-77242113						
		PBO (N=43)	25 mg QD (N=43)	25 mg BID (N=41)	50 mg QD (N=43)	100 mg QD (N=43)	100 mg BID (N=42)	Combined ^a (N=212)	Total (N=255)
Р	t Demographics								
	Age, yrs	43.9 (14.7)	44.5 (12.7)	45.7 (11.9)	45.1 (11.1)	44.7 (14.1)	42.0 (11.3)	44.4 (12.2)	44.3 (12.6)
	Weight , kg	92.1 (24.7)	89.0 (19.4)	90.8 (22.1)	87.6 (19.2)	85.4 (22.5)	88.5 (16.9)	88.2 (20.0)	88.9 (20.9)
Р	sO Characteristics								
all	PsO disease duration, yrs	17.9 (14.4)	15.5 (11.8)	18.1 (11.8)	21.5 (11.2)	19.5 (13.3)	16.7 (13.8)	18.3 (12.5)	18.2 (12.8)
	PASI total score [0-72]	19.0 (5.3)	18.9 (5.3)	18.5 (5.8)	19.2 (5.1)	18.4 (6.9)	20.3 (6.5)	19.1 (5.9)	19.0 (5.8)
	BSA [0-100], %	26.1 (15.7)	21.1 (9.3)	20.9 (11.9)	23.9 (13.6)	20.5 (13.7)	24.2 (12.6)	22.1 (12.3)	22.8 (13.0)
(30)	IGA 3 or 4,* %	88.4/11.6	69.8/30.2	80.5/19.5	83.7/16.3	81.4/18.6	71.4/28.6	77.4/22.6	79.2/20.8
(ر ۱	ss-IGA ≥2 (mild-severe), ^b %	81.4	86.0	80.0	93.0	93.0	87.8	88.1	87.0
Р	PROs								
	PSSD symptom score [0-100]	47.3 (20.7)	59.0 (23.6)	51.9 (24.0)	53.9 (24.5)	43.0 (21.3)	55.9 (26.3)	52.7 (24.4)	51.8 (23.8)
	PSSD sign score [0-100]	62.9 (16.6)	69.5 (16.5)	64.1 (18.9)	64.7 (19.4)	60.4 (18.6)	66.3 (19.1)	65.0 (18.6)	64.6 (18.3)
Р	rior Medications								
S	Prior Biologics, ^c %	16.3	16.3	31.7	25.6	20.9	21.4	23.1	22.0

and Severity Index; PBO=Placebo; PROs=Patient-reported outcomes; PsO=Psoriasis; PSSD=Psoriasis Symptoms and Signs Diary; Pt=Patient; QD=Once daily; SD=Standard deviation; ss-IGA=Scalp-specific IGA; yrs=Years.

Psoriasis Area and Severity Index (PASI) 75 response rates at Week 16 were maintained through Week 52

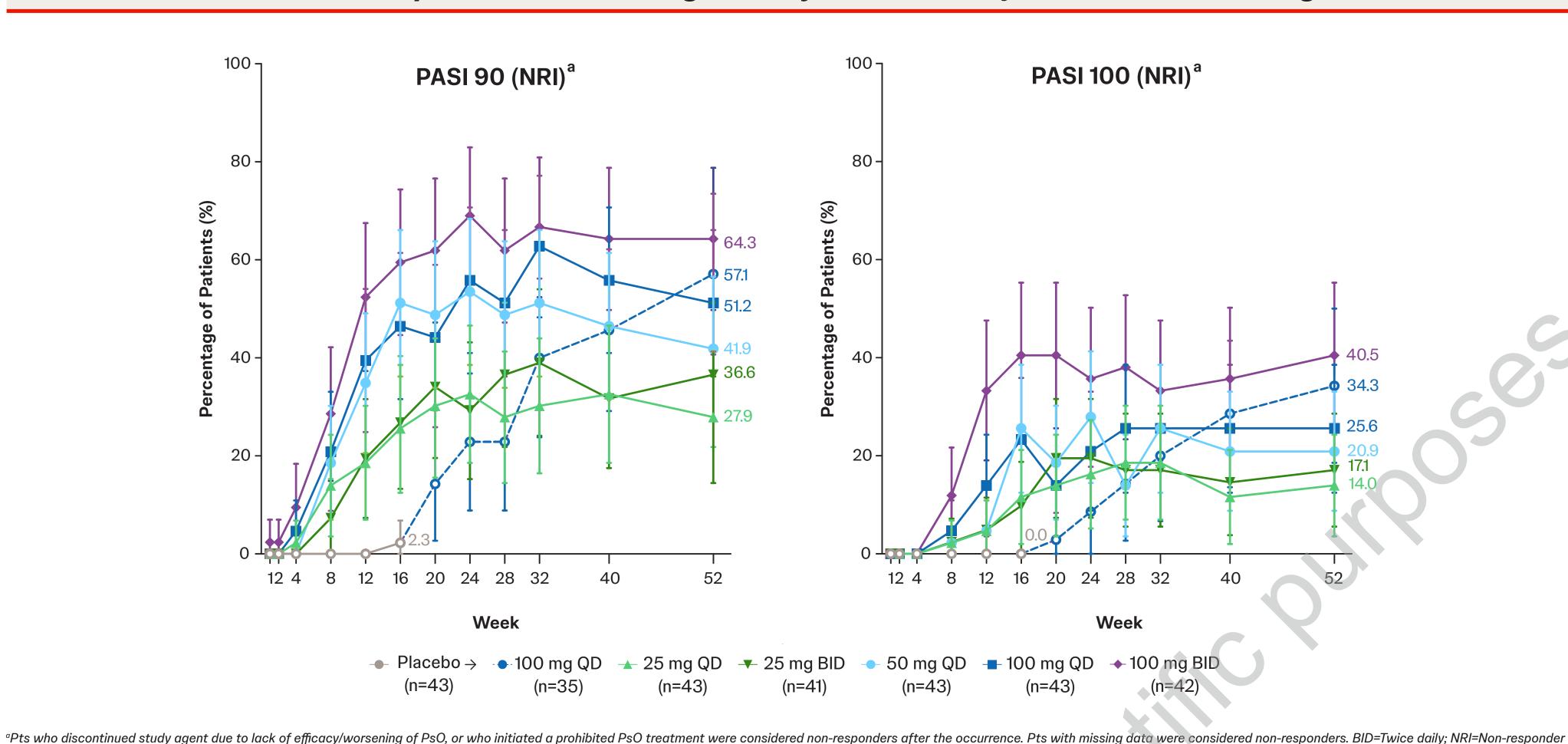
 Among pts who crossed over from PBO→100 mg QD at Week 16, PASI 75 response rates rapidly converged with those of JNJ-77242113-randomized pts



^aPts who discontinued study agent due to lack of efficacy/worsening of PsO, or who initiated a prohibited PsO treatment were considered non-responders after the occurrence. Pts with missing data were considered non-responders. BID=Twice daily; NRI=Non-responder imputation; PASI=Psoriasis Area and Severity Index; PsO=Psoriasis; Pts=Patients; QD=Once daily.

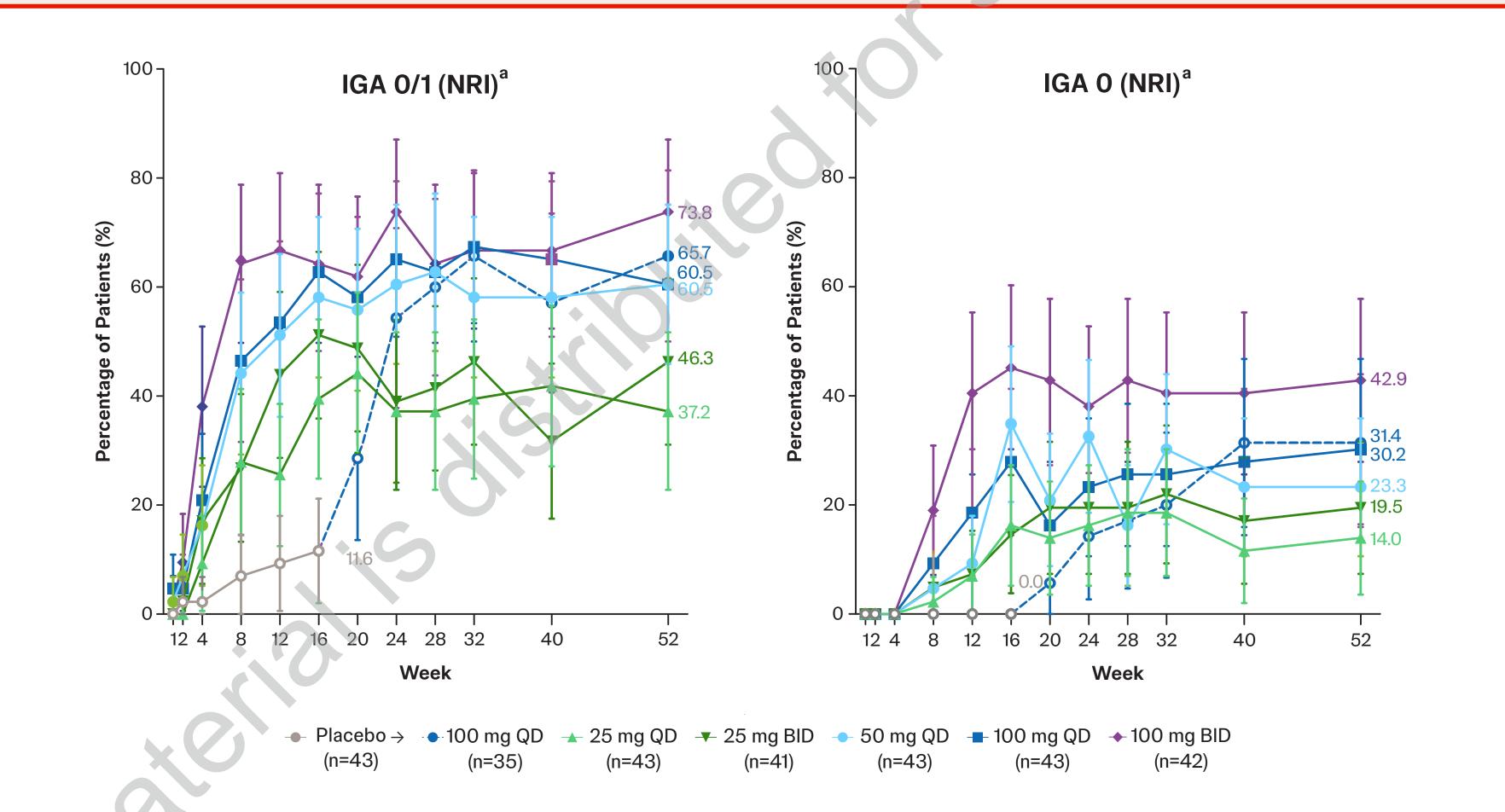
presented at AAD 2024; San Diego, CA, USA; March 8-12, 2024 and FSR 2024; Orlando, FL, USA; July 11-14, 2024 and RhAPP 2024; Nashville, TN, USA; September 26-28, 2024.

PASI 90 and PASI 100 response rates were generally maintained from Week 16 through Week 52



imputation; PASI=Psoriasis Area and Severity Index; PsO=Psoriasis; Pts=Patients; QD=Once date

IGA 0/1 and IGA 0 response rates were generally maintained from Week 16 through Week 52



Global Assessment; NRI=Non-responder imputation; PsO=Psoriasis; Pts=Patients; QD=Once daily.

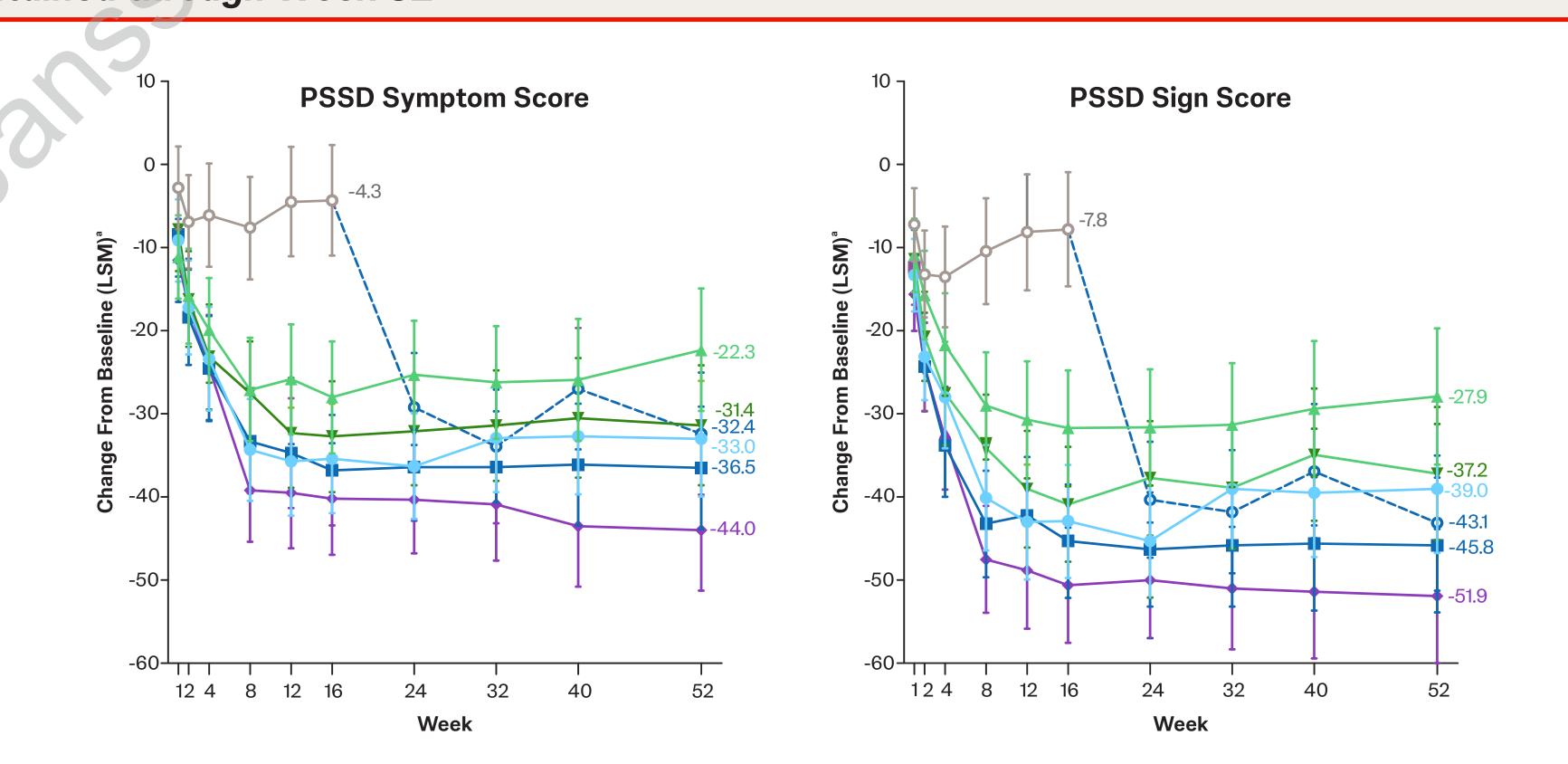
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<text>and/or advisory board member for honoraria from AbbVie, Alumis, And To: Employees of Janssen, Elily, MSD, Mylan, Novartis, Parexel, Pharma, Lilly, Janssen, Elica from Abovie, Bausch Health, Boston, Boston,

Improvements in Psoriasis Symptoms and Signs Diary (PSSD) scores at Week 16 were generally maintained through Week 52

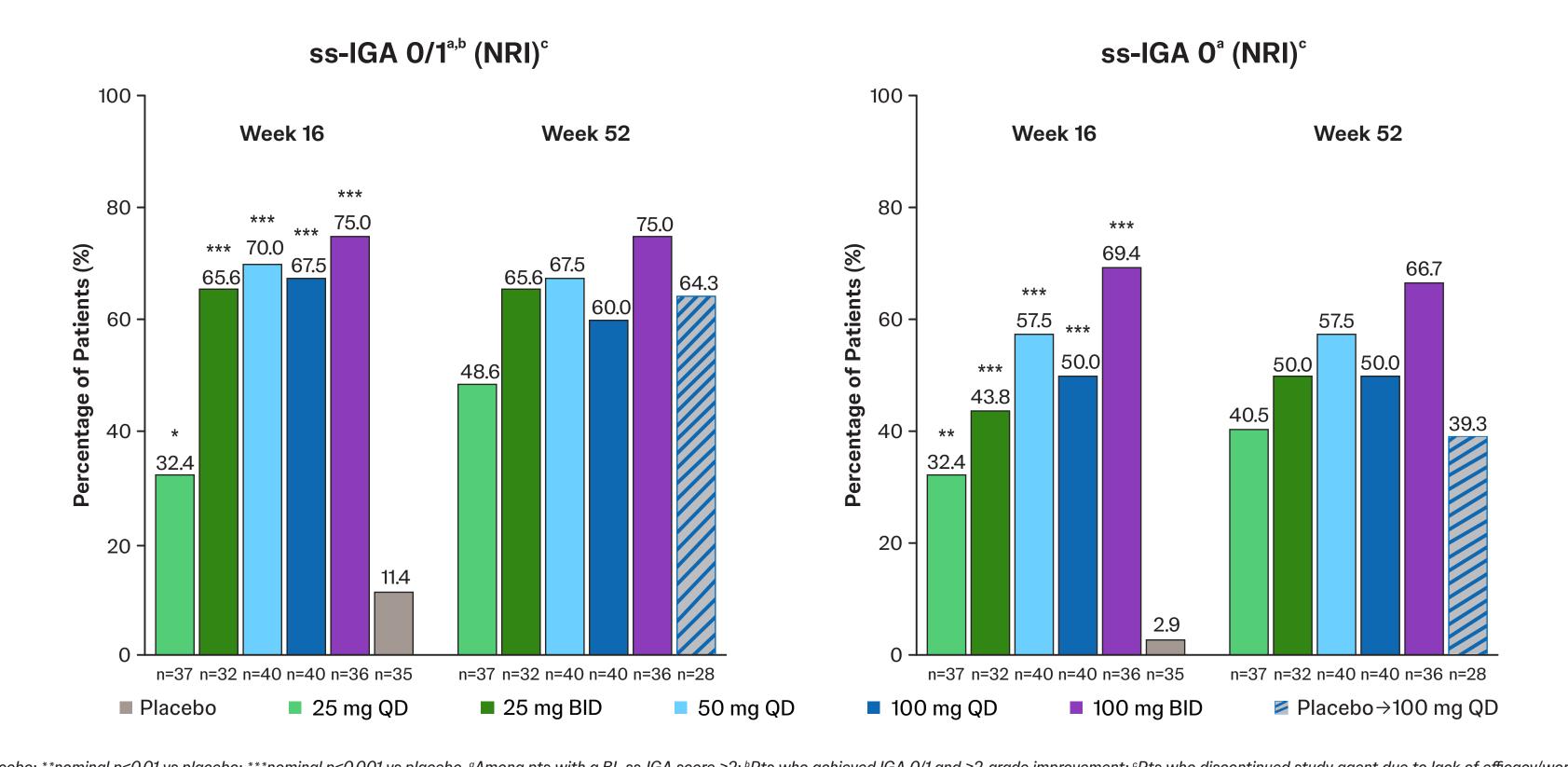


'LSM are based on the MMRM model with treatment group, visit, treatment group by visit interaction, BL weight category (<90 kg, >90 kg), BL weight category by visit interaction, BL PSSD symptom/sign score, and BL PSSD symptom/sign score by visit interaction as covariates. Zero change was assigned after pts discontinued study agent due to lack of efficacy/worsening of PsO or initiated a prohibited PsO treatment. Missing data was handled by MMRM under missing at random assumption. BID=Twice daily; BL=Baseline; LSM=Least square mean; MMRM=Mixed models for repeated measurements; PsO=Psoriasis; PSSD=Psoriasis Symptoms and Signs Dairy; Pts=Patients; QD=Once daily.

→ Placebo
• 100 mg QD
★ 25 mg QD
▼ 25 mg BID
• 50 mg QD
■ 100 mg QD
◆ 100 mg BID

ss-IGA 0/1 and ss-IGA 0 response rates were generally maintained from Week 16 through Week 52

• In pts who crossed over from PBO→100 mg QD at Week 16, ss-IGA 0/1 and ss-IGA 0 response rates substantially increased by Week 52



nominal p<0.05 vs placebo; **nominal p<0.01 vs placebo; ***nominal p<0.001 vs placebo; ***nominal p<0.001 vs placebo. aAmong pts with a BL ss-IGA score ≥2; bPts who discontinued study agent due to lack of efficacy/worsening of PsO, or wh initiated a prohibited PsO treatment were considered non-responders after the occurrence. Pts with missing data were considered non-responders. BID=Twice daily; BL=Baseline; IGA=Investigator's Global Assessment; NRI=Non-responder imputation; PsO=Psoriasis; Pts=Patients; QD=Once daily; ss-IGA=Scalp-specific IGA.

Among FRONTIER 2 pts who received JNJ-77242113 from Week 16 to Week 52, no safety signals were identified through Week 56

JNJ-77242113

- Rates of gastrointestinal-related AEs did not increase in pts receiving JNJ-77242113 during the LTE (6% in the JNJ-77242113 combined group)
- FRONTIER 1 Week 16: 12% PBO vs 11% JNJ-77242113 combined group¹
- No evidence of dose-dependent increase in the occurrence of AEs
- 4% experienced serious AEs
- All considered not related to the study intervention by investigators
- No deaths occurred during the LTE

Pts With ≥1 TEAE of Frequency ≥5% of Preferred Terms in Any Treatment Group From Week 16 Through Week 56

	Placebo → 100 mg QD (N=35)	JNJ-11242113						
LTE Safety Analysis Set		25 mg QD (N=35)	25 mg BID (N=40)	50 mg QD (N=39)	100 mg QD (N=40)	100 mg BID (N=38)	Combined ^a (N=227)	
Avg duration of follow-up, weeks	37.8	36.6	35.0	38.4	35.9	38.6	37.0	
Pts with ≥1 AE, n (%)	23 (65.7)	18 (51.4)	27 (67.5)	19 (48.7)	27 (67.5)	19 (50.0)	133 (58.6)	
Nasopharyngitis	9 (25.7)	3 (8.6)	6 (15.0)	7 (17.9)	11 (27.5)	5 (13.2)	41 (18.1)	
Upper respiratory tract infection	4 (11.4)	6 (17.1)	3 (7.5)	3 (7.7)	2 (5.0)	4 (10.5)	22 (9.7)	
COVID-19	2 (5.7)	1 (2.9)	1 (2.5)	3 (7.7)	2 (5.0)	3 (7.9)	12 (5.3)	
Headache	0	2 (5.7)	3 (7.5)	0	3 (7.5)	0	8 (3.5)	
Influenza	1 (2.9)	0	3 (7.5)	1 (2.6)	1 (2.5)	1 (2.6)	7 (3.1)	
Urinary tract infection	2 (5.7)	1 (2.9)	1 (2.5)	1 (2.6)	0	2 (5.3)	7 (3.1)	
ALT increased	2 (5.7)	1 (2.9)	O	1 (2.6)	0	2 (5.3)	6 (2.6)	
Bronchitis	1 (2.9)	1 (2.9)	1 (2.5)	3 (7.7)	0	0	6 (2.6)	
Hypertension	1 (2.9)	0	2 (5.0)	1 (2.6)	1 (2.5)	1 (2.6)	6 (2.6)	
AST increased	1 (2.9)	1 (2.9)	O	1 (2.6)	0	2 (5.3)	5 (2.2)	
Arthralgia	1 (2.9)	0	O	1 (2.6)	2 (5.0)	0	4 (1.8)	
Meniscus injury	0	1 (2.9)	2 (5.0)	0	0	0	3 (1.3)	
Sinusitis	0	0	2 (5.0)	1 (2.6)	0	0	3 (1.3)	
Vomiting	0	0	0	0	2 (5.0)	0	2 (0.9)	

alncludes all JNJ-77242113 treatment columns. Pts are counted only once for any given event, regardless of the number of times they actually experienced the event. AEs are coded using MedDRA Version 25.1. AE=Adverse event; ALT=Alanine aminotransferase; AST=Aspartate aminotransferase; Avg=Average; BID=Twice daily; COVID-19=Coronavirus disease 2019; LTE=Long-term extension; MedDRA=Medical Dictionary for Regulatory Activities; Pts=Patients; QD=Once daily; TEAE=Treatment-emergent adverse event.