# Sustained Improvements in Psoriasis Area and Severity Index and in Percent Body Surface Area of Psoriasis With JNJ-77242113 in Patients With Moderate-to-Severe Plague Psoriasis: Treat-to-Target Analyses in the FRONTIER 1 & 2 Studies



through W52

PASI ≤2 is a relevant treat-to-target (T2T) endpoint in th

BSA ≤1% represents a target response at W12 of treatment<sup>2</sup>

JNJ-2113 vs PBO at W12 and/or W16: Cochran-Mantel-Haensze

chi-square test stratified by baseline weight (≤90 kg vs >90 kg);

Absolute PASI thresholds of ≤5, ≤3, ≤2, ≤1, and 0

clinical setting¹ PASI ≤1 and 0 represent stringent disease control

PASI <5 <3 and <2 represent

PsO BSA thresholds of ≤3% and ≤1%

**Key Takeaways** 



Treatment with JNJ-2113 provided robust and sustained skin improvements, consistent with achievement of important treatment targets, in patients with moderate-to-severe PsO



The highest levels of improvement and response rates were observed with JNJ-2113 100 mg BID, with two-thirds of patients achieving PASI ≤2 or BSA ≤3% and approximately half achieving PASI ≤1 or BSA ≤1% at W16



Patient- and group-level data indicated maintenance

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### Background

Defined thresholds for Psoriasis Area and Severity Index (PASI) and psoriatic body surface area (BSA) are relevant disease endpoints that inform treat-to-target (T2T) management strategies in psoriasis (PsO)12



Interleukin (IL)-23 pathway inhibition via monoclonal antibodies has demonstrated efficacy and safety in patients with moderate-to-severe PsO3



Currently, no oral therapies selectively target the IL-23 pathway

## JNJ-77242113 (JNJ-2113)

• First and only targeted oral peptide that inhibits IL-23 signaling by binding to the IL-23 receptor

Showed superior clinical efficacy vs placebo (PBO) in the phase 2 FRONTIER 1 study, which was durable through 1 year of the FRONTIER 2 long-term extension (LTE) study in patients with moderate-to-severe plaque PsO<sup>4,5</sup>

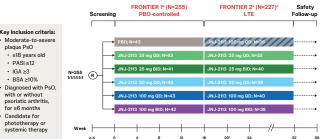
### **Objectives**



(a) To assess the effect of JNJ-2113 on the achievement of defined treatment goals in patients with moderate-to-severe plaque PsO through 1 year in FRONTIER 1 and 2

### Methods

FRONTIER 1 & FRONTIER 2 Study Designs



#### Assessments & Analyses Achievement of PASI and BSA treatment targets Percent change from baseline in the PASI score

### through W52 The PASI assesses PsO severity based on three PsO

Least squares (LS) means and p-values are based on mixe odels for repeated measures (MMRM) with treatment group, visit, treatment group-by-visit interaction, baseline weight category (≤90 kg, >90 kg), baseline weight and baseline PASI total score-by-visit interaction as

- Patients who discontinued study agent due to lack of efficacy worsening of PsO, or initiation of a prohibited
- Missing data were handled by MMRM under missing a

Among PBO-randomized patients, only those who crossed over from PBO to JNJ-2113 (PBO→100 mg QD) were included beyond W16

nominal p-values

### Nonresponder imputation (NRI): Patients who discontinued study agent due to lack of efficacy, worsening of PsQ or initiation of a prohibited PsQ treatment esponders after the occurrence Remaining patients with missing data were considered

of JNJ-2113 stringent response through W52

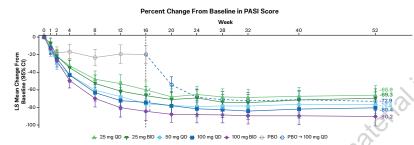
Results

### FRONTIER 1 participants had established, moderate-to-severe plaque PsO

			JNJ-2113						
		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)	All (N=212)	All Groups (N=255)
Demographic	5								
ÅÅ	Age, years	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)
	Female	42%	26%	27%	37%	26%	29%	29%	31%
	White/Asian	86%/12%	70%/28%	66%/17%	72%/21%	81%/16%	71%/21%	72%/21%	74%/19%
	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)
Characteristics									
iii	PsO disease duration, years	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 (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)
	Psoriatic BSA, %	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)
<u> </u>	IGA								
1	Moderate (3)/Severe (4)	88%/12%	70%/30%	80%/20%	84%/16%	81%/19%	71%/29%	77%/23%	79%/21%
Medication use at baseline									
Ø	Phototherapy <sup>a</sup>	44%	40%	37%	56%	49%	33%	43%	43%
	Biologics <sup>b</sup>	16%	16%	32%	26%	21%	21%	23%	22%
	Systemics <sup>c</sup>	79%	77%	80%	81%	79%	74%	78%	78%

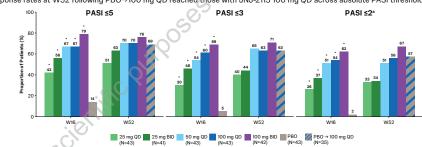
Percent improvements in PASI score were greater with JNJ-2113 than PBO as early as W4, with continued and sustained improvement over time

Highest mean percent improvements in PASI score were seen with JNJ-2113 100 mg BID, with approximately 90% improvement at W52



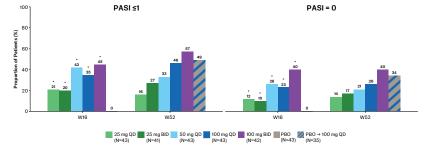
Greater proportions of patients treated with JNJ-2113 vs PBO achieved absolute PASI thresholds of ≤5, ≤3, and ≤2 at W16; rates were maintained at W52

- 67% of patients receiving JNJ-2113 100 mg BID achieved PASI ≤2 at W52, a clinically relevant T2T threshold
- Response rates at W52 following PBO→100 mg QD reached those with JNJ-2113 100 mg QD across absolute PASI thresholds



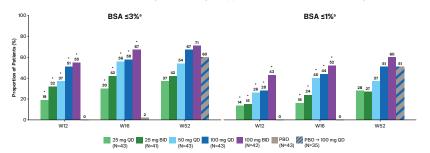
Greater proportions of patients treated with JNJ-2113 vs PBO achieved stringent PASI thresholds of ≤1 and 0 at W16; rates were maintained or increased at W52

- 45% and 40% of patients receiving JNJ-2113 100 mg BID achieved PASI ≤1 and PASI=0, respectively, at W16
- Following PBO→100 mg QD, W52 rates for both PASI thresholds approached those with JNJ-2113 100 mg BID



Greater proportions of patients treated with JNJ-2113 vs PBO achieved PsO BSA thresholds of ≤3% and ≤1% at W12 and W16; rates were maintained or increased at W52

- At W52, 71% and 60% of patients treated with 100 mg BID achieved acceptable (≤3%) and target (≤1%) BSA responses, respectively
- Rates for both BSA thresholds at W52 following PBO→100 mg QD approached those with JNJ-2113 100 mg QD



86% and 82% of patients treated with 100 mg BID achieving BSA ≤3% and ≤1% at W16, respectively, maintained response at W52

