# 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



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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 PsO4.6

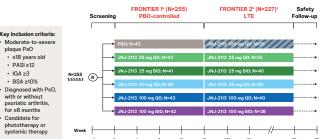
## **Objectives**



(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

#### Percent change from baseline in the PASI score through W52

#### The PASI assesses PsO severity based on three PsO s (erythema induration and descuamation)

### Least squares (LS) means and p-values are based on mixed nodels 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 PsQ, or initiation of a prohibited
- Missing data were handled by MMRM under missing a

#### Achievement of PASI and BSA treatment targets through W52

#### Absolute PASI thresholds of ≤5, ≤3, ≤2, ≤1, and 0 PASI <5 <3 and <2 represent to ASI ≤2 is a relevant T2T endpoint in the clinical setting

#### PASI ≤1 and 0 represent stringent disease control Pe∩ RSA thresholds of <3% and <1%

- 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 hi-square test stratified by baseline weight (≤90 kg vs >90 kg); nominal p-values

- Nonresponder imputation (NRI):

  Patients who discontinued study agent due to lack of efficacy, worsening of PsO, or initiation of a prohibited PsO treatment were considered nonresponders after the occurrence
- Remaining patients with missing data were considered

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

## **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



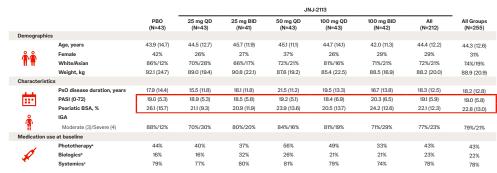
The highest levels of improvement and response rates were observed with JNJ-2113 100 mg BID, with two-thirds of patients achieving PASI ≤2 or BSA ≤3% and approximately half achieving PASI ≤1 or BSA ≤1% at W16



Patient- and group-level data indicated maintenance of JNJ-2113 stringent response through W52

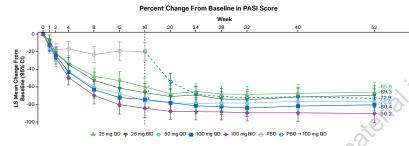
## Results

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



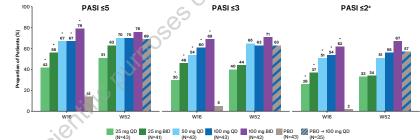
Percent improvements in PASI score were greater with JNJ-2113 than PBO as early as W4, with continued and sustained improvement over time

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



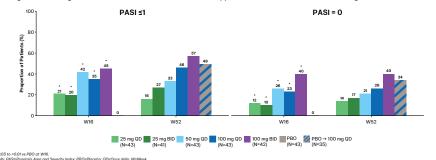
### Greater proportions of patients treated with JNJ-2113 vs PBO achieved absolute PASI thresholds of ≤5, ≤3, and ≤2 at W16; rates were maintained at W52

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



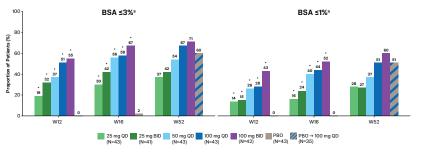
Greater proportions of patients treated with JNJ-2113 vs PBO achieved stringent PASI thresholds of ≤1 and 0 at W16; rates were maintained or increased at W52

- 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

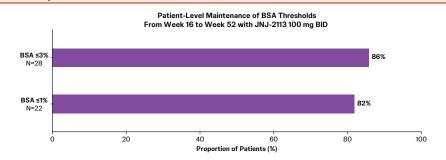


Greater proportions of patients treated with JNJ-2113 vs PBO achieved PsO BSA thresholds of ≤3% and ≤1% at W12 and W16; rates were maintained or increased at W52

- 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



BID=Twice daily: BSA=Body surface area