



12-Month Persistence and Multi-Domain Effectiveness of Guselkumab in Adults With Active Psoriatic Arthritis: Real-World Data From the PPD CorEvitas Psoriatic Arthritis/Spondyloarthritis Registry


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Background

 Guselkumab (GUS), a fully human, dual-acting IL-23p19 subunit inhibitor, has demonstrated significant efficacy in treating psoriatic arthritis (PsA) in Phase 3 clinical trials¹⁻³

- GUS was approved by the US FDA in July 2020 for adults with active PsA (dosing regimen: GUS 100 mg subcutaneously at Week [W]0, W4, then every 8 weeks [Q8W])⁴

 Real-world data on GUS persistence and effectiveness are available from the prospective, multicenter, observational PPD™ CorEvitas™ PsA/Spondyloarthritis (SpA) Registry of adults with rheumatologist-diagnosed active PsA⁵

 In a previous analysis of CorEvitas data, persistence through 6 months (6M) of on-label GUS therapy was associated with significant improvements in PsA signs and symptoms⁵

Objective

 To assess real-world effectiveness and persistence of on-label GUS at 12M in participants (pts) with active PsA

Methods

 CorEvitas PsA/SpA Registry

- Prospective, multicenter, observational registry of adults in the US with rheumatologist-diagnosed active PsA
- Collects data from healthcare providers and pts at the time of outpatient clinical rheumatology encounters

- This analysis included data from GUS initiators (October 12, 2017 – July 31, 2025)

SA=body surface area, **cDAPSA**=clinical Disease Activity Index for PsA, **CI**=confidence interval, **csDMARD**=conventional synthetic disease-modifying antirheumatic drug, **LDA**=low disease activity, **PsO**=psoriasis, **REM**=remission



Study Population

- GUS On-Label Initiators**
 - CorEviTas registry pts with PsA who initiated GUS after FDA approval for active PsA (July 13, 2020) using the FDA-approved (on-label) dosing regimen (GUS 100 mg subcutaneously at W0, W4, then Q8W), either as monotherapy or in combination with a csDMARD
 - Had a valid baseline visit associated with GUS initiation and a 12M follow-up visit

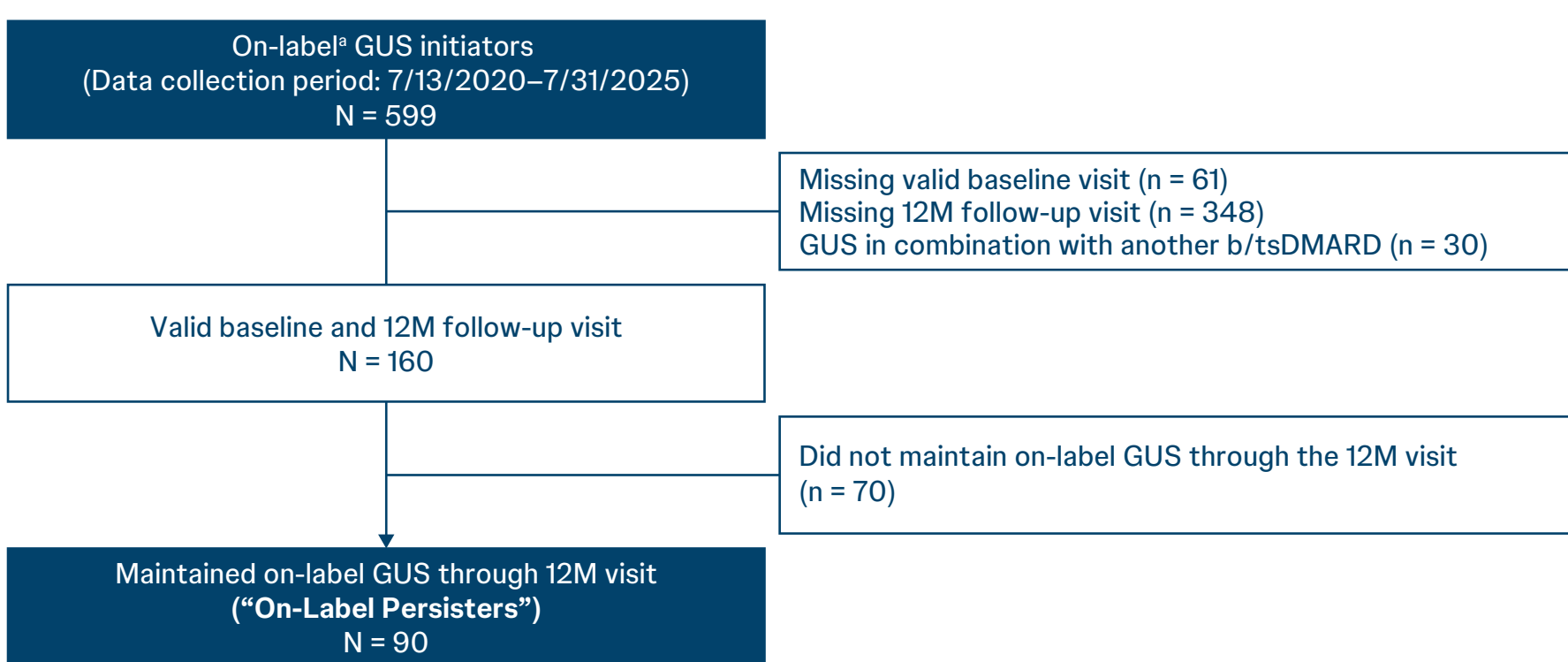
- **GUS On-Label Persisters**
 - Pts who maintained on-label use of GUS through the 12M visit

Effectiveness Endpoints Evaluated in GUS On-Label Persisters

- **Primary outcome:** Mean change (95% CI) in cDAPSA score from baseline to 12M visit
- **Secondary outcomes** (in order of multiplicity-controlled testing):
Mean (95% CI) change from baseline to 12M visit in:
 - Physician Global Assessment of arthritis+PsO (0-100)
 - Patient-reported pain (Patient Pain; 0-100)
 - % BSA with PsO (0-100%)
- For primary and secondary outcomes, paired t-tests were used to determine statistical significance ($\alpha = 0.05$)
 - To control for multiplicity, a fixed-sequence statistical strategy was used to test primary and secondary outcomes in a predefined order, all at the same significance level ($\alpha = 0.05$)
- **Other outcomes** (not multiplicity-controlled) included:
 - Proportions of pts achieving cDAPSA LDA/REM among pts with moderate or high disease activity at baseline

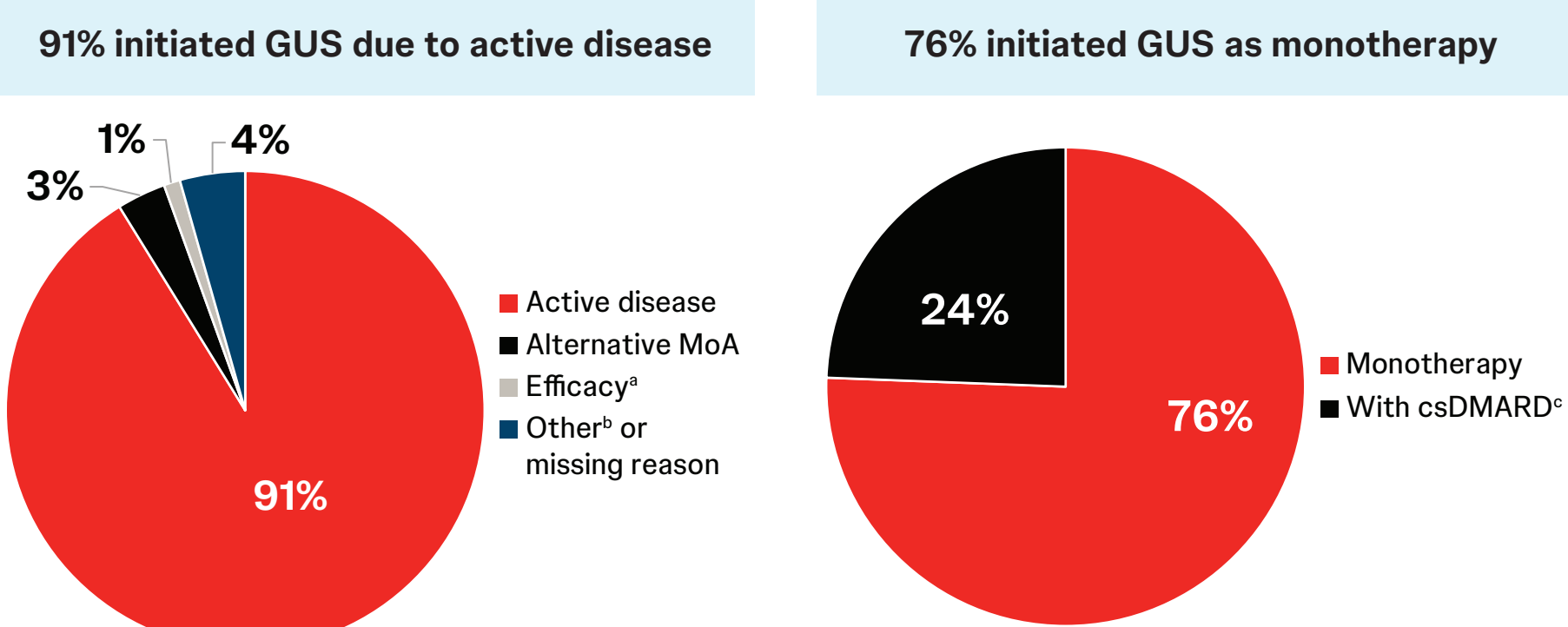
Results

Of 160 on-label GUS initiators^a with eligible baseline and 12M visits, 56% maintained on-label use through 12M



CorEvitas PsA/SpA Registry pts who initiated GUS after US FDA approval (7/13/2020) using the FDA-approved dosing regimen (100 mg at W0, W4 then Q8W). **bDMARD**=biologic disease-modifying antirheumatic drug, **tsDMARD**=targeted synthetic disease-modifying antirheumatic drug.

The majority of GUS on-label persisters initiated GUS due to active disease and as monotherapy



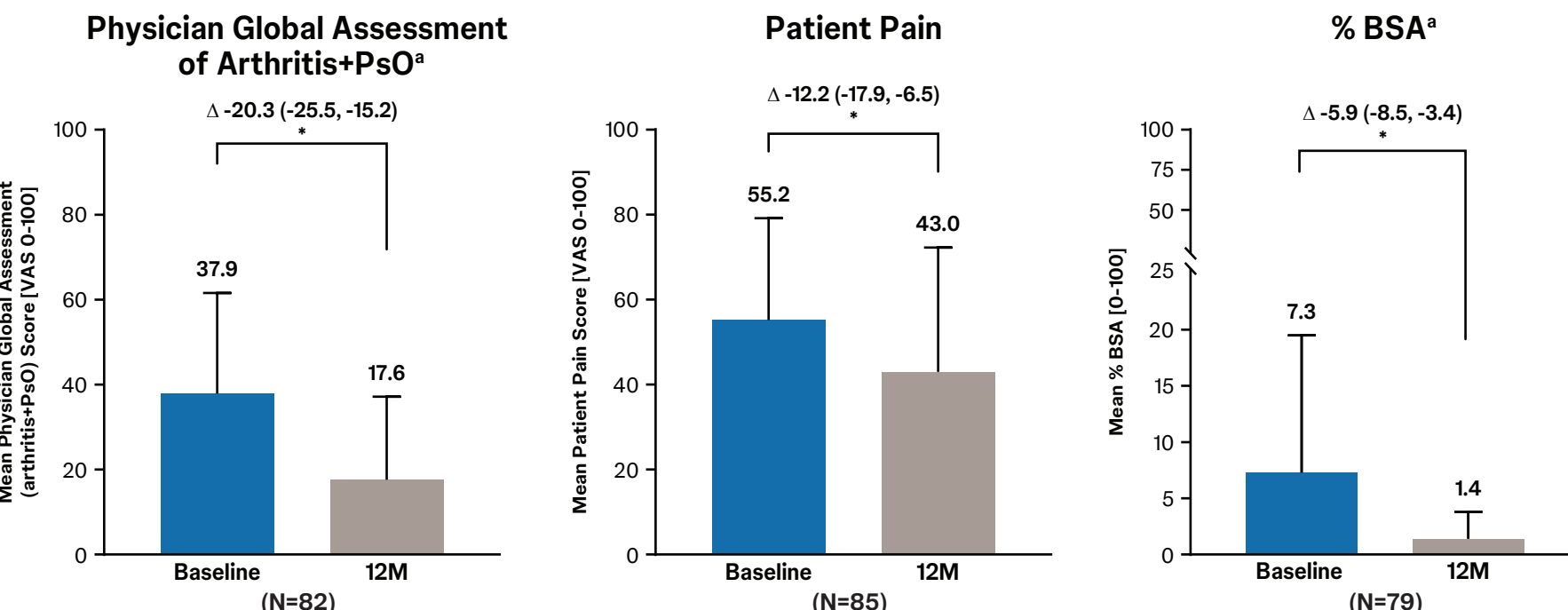
^aPercentages may not add to 100% due to rounding. ^bEfficacy reasons defined as inadequate initial response or failure to maintain initial response. ^cOther reasons defined as fear of future side effect; temporary interruption; pt preference; to improve compliance; to improve tolerability; frequency of administration; route of administration; pt doing well. No pts cited safety/intolerability as reason for stopping therapy. ^dReasons for discontinuation of GUS include serious side effect, minor side effect or insurance (co-pay/cost denied by the insurance) as their reason for initiating GUS. The sum of all reason categories may total more than 100% given that pts could provide up to 3 reasons (3 pts provided multiple reasons). ^eDefined as any csDMARD confirmed to be initiated as of GUS baseline visit. Concomitant therapy may have started prior to or concurrently with GUS initiation. ^fMoA=mechanism of action.

Key Takeaways

In this real-world population of pts with longstanding, active, and largely treatment-refractory PsA:

- ✓ **GUS on-label persists**
demonstrated statistically
significant improvements in clinical
measures of joint and skin disease
activity and PROs at 12M
- ✓ **50% of pts with moderate/**
high disease activity at baseline
achieved LDA/REM at 12M with
on-label, persistent GUS therapy

Among GUS on-label persisters, significant mean improvements from baseline to 12M were observed in all major secondary endpoints: Physician Global Assessment, Patient Pain, and % BSA



^a<0.001, based on paired t-tests. ^brepresents mean change [95% CI] measured as 12M minus baseline. Error bars represent SDs. ^cEvaluated in pts with history of PSc.

Half of GUS on-label persisters with moderate/high disease activity at baseline achieved LDA/REM at 12M

cDAPSA at GUS initiation ^a		cDAPSA LDA/REM at 12M ^a
Moderate/High (n=54)		27/54 (50%)
Moderate (n=38)		21/38 (55%)
High (n=16)		6/16 (38%)

EM: cDAPSA ≤ 4 ; LDA: cDAPSA >4 to ≤ 13 ; moderate: cDAPSA >13 to ≤ 27 ; high: cDAPSA >27 .

Strengths and Limitations

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- Observational design of the CorEviitas PsA/SpA Registry captures real-world practice patterns and data on pts seen in routine clinical practice across several regions of the US
- More representative of the US PsA patient population than clinical trial populations
- Standardized data collection instruments and methods across all sites
- Primary and major secondary endpoints were controlled for multiplicity

Limitations

- Modest sample size
- May not be generalizable to regions outside the US
- Pt selection based on a 12M follow-up period requirement and further restricting to those who persist at follow-up may introduce time and selection biases