

# Observational study to assess guselkumab adherence in clinical practice in patients with moderate-to-severe psoriasis

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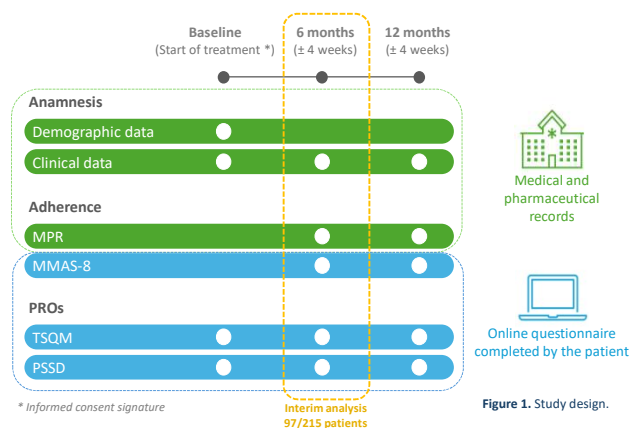
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## Background and importance

- Despite the established relationship between clinical outcomes and patient-reported outcomes (PROs), discrepancies often arise between clinical remission and patients' perceptions of their symptoms.
- Integrating PROs is essential for comprehensive assessment, and effective monitoring and optimization of biologic therapies is especially important in implementing value-based healthcare for patients with psoriasis.

## Aim and objectives

- The main objective is to assess 12-month adherence to guselkumab in patients with moderate-to-severe psoriasis in real-world clinical setting. Secondary objectives include the relationship between adherence and PROs.



## Results

- Of 215 patients (50.6 years, SD 11.9), 97 (45.1%) completed the 6-month visit.
- Mean psoriasis progression was 17.2 years (SD 13.56, n=149), 31.3% had psoriatic arthritis, 48.8% had  $\geq 10\%$  BSA, and 86.2% had previously received biologics (Table 1).
- Mean basal PASI was 10.5 (SD 7.8, n=92), with 75.5% having PASI >5, and mean basal DLQI was 10.4 (SD 6.5, n=83) (Table 1).

### Demographic and clinical data at baseline

	N=215
<b>Sex, n (%)</b>	n=211
Male	116 (55.0)
Female	95 (45.0)
<b>Age (years), mean (SD)</b>	n=211 50.6 (11.9)
<b>BMI (Kg/m<sup>2</sup>), mean (SD)</b>	n=200 28.6 (6.0)
<b>Comorbidities, n (%)</b>	n=211 152 (72.0)
Psoriatic Arthritis	66 (31.3)
Dyslipidaemia	65 (30.8)
Hypertension	57 (27.0)
Anxiety/ Depression	46 (21.8)
<b>Time since the first symptoms (years), mean (SD)</b>	n=149 17.2 (13.6)
<b>Bio-experience treatment for psoriasis, n (%)</b>	n=196 169 (86.2)
<b>BSA <math>\geq 10\%</math>, n (%)</b>	n=162 79 (48.8)
<b>PASI, mean (SD)</b>	n=151 10.5 (7.8)
<b>PASI &gt; 5, n (%)</b>	n=151 114 (75.5)
<b>DLQI, mean (SD)</b>	n=83 10.4 (6.5)

Table 1. Demographic and clinical data at baseline

- At 6 months, 79 (n=94, 84.0%) patients were adherent according to MPR, 48 (n=62, 77.4%) according to MMAS-8, and 39 (n=60, 65.0%) combining MPR and MMAS-8 criteria (Figure 2A).
- At baseline, TSQM for global satisfaction and PSSD lacked significant differences between adherent (combined assessment) and non-adherent patients (Figure 2 B-C).
- At 6 months, mean (SD) TSQM scores were 80.5 (13.6) in adherent patients and 66.1 (18.2) in non-adherent (p=0.0010); mean (SD) PSSD symptoms and PSSD signs of adherent and non-adherent patients were 16.2 (15.7) and 35.1 (28.1) (p=0.0080) and 17.7 (15.3) and 36.6 (24.3) (p=0.0031), respectively (Figure 2 B-C).

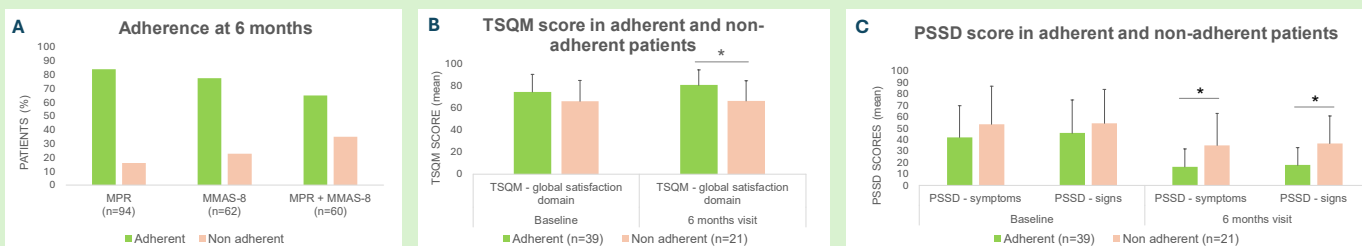
## Materials and methods

- Observational, prospective multicentre study (39 centres) including adult patients with moderate-to-severe psoriasis who started guselkumab treatment.
- Baseline characteristics including psoriasis area severity index (PASI), body surface area (BSA), and dermatology life quality index (DLQI) were recorded.
- Medication Possession Ratio (MPR)<sup>1</sup> and Morisky Medication Adherence Scale (MMAS-8)<sup>2</sup> were used to assess optimal adherence (MPR  $\geq 90\%$  and/or MMAS-8 = 8).
- PROs questionnaires completed online included medication satisfaction questionnaire (TSQM)<sup>3</sup> and the psoriasis signs and symptoms diary (PSSD)<sup>4</sup>.
- We present a 6-months interim analysis (Figure 1).

## Conclusion and Relevance

- At 6-months of guselkumab treatment, a significant proportion of patients (>65%) remained adherent according to the three adherence criteria.
- Adherent patients have a lower perception of psoriasis symptoms and higher satisfaction with treatment compared to non-adherent.

Figure 2.



**Figure 2.** Percentage of adherent patients (A) after 6 months of guselkumab treatment according to indicated measures. Mean TSQM score for global satisfaction (B) and mean PSSD symptoms and PSSD signs scores (C) at baseline and after 6 months of guselkumab treatment in adherent and non-adherent patients, as determined by the combination of MPR and MMAS-8 criteria. (MPR  $\geq 90\%$  and/or MMAS-8 = 8) \*  $p < 0.01$

**Abbreviations:** BMI: Body Mass Index; BSA: Body Surface Area; DLQI: Dermatology Life Quality Index; PASI: Psoriasis Area and Severity Index; TSQM: Treatment Satisfaction Questionnaire for Medication; PSSD: Psoriasis Symptoms and Signs Diary; MPR: Medication Possession Ratio; MMAS-8: Morisky Medication Adherence Scale

**References:** 1. Sperber, C., et al. Patient Prefer. Adherence Volume 11, 1469–1478 (2017). 2. Morisky, D. E., et al. J. Clin. Hypertens. 10, 348–354 (2008). 3. Atkinson, M. J. et al. Health Qual Life Outcomes 2 (2004). 4. Feldman, S. R. et al. J. Dermatology Dermatologic Surg. 20, 19–26 (2016).

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