

Apremilast adherence in patients with psoriasis and psoriatic arthritis

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Background

A limited number of studies have evaluated medication adherence in psoriasis (PS) or psoriatic arthritis (PsA), reporting rates between 29% and 88% (medication possession ratio (MPR)>80%). However, until now none study has included apremilast as the evaluated drug.

Purpose

To evaluate adherence to Apremilast treatment in patients with PsO and PsA and to assess the possible factors associated to a MPR<100%.

Materials and methods

Retrospective observational study including all patients starting apremilast in an outpatient pharmacy service from a tertiary university hospital. Exclusion criteria: patients with less than one medication pharmacy refill (early discontinuation or recent treatment initiation). Apremilast was given as an initial 5-day titration period and a maintenance dose of 30 mg twice daily. Dose reductions due to adverse effects indicated by the prescriber were not considered as lack of adherence.

Data collected: demographics, treatment indication, previous biological treatment, incidence of adverse events (AE) and adherence to apremilast using the MPR.

$$\text{MPR} = \frac{\text{Sum of days' supply for all fills in period}}{\text{Number of days in period}} \times 100\%$$

Differences between patients with a MPR_≥100% vs. MPR<100% were evaluated in the univariate-analysis.

Results

Forty-one patients were included with a median age of 47 (23-68) years; 56.1% were males. Of them, 70.7% were receiving apremilast for Psoriatic arthritis (PsA) and 26.8% had received previous biologic therapy. Adherence to apremilast is depicted in Figure 1.

At least one adverse effect was reported in 9 (21.9%) patients, mainly diarrhea, nausea and headache (Table 1).

Seventeen patients (41.6%) patients discontinued apremilast during the study period (Figure 2).

Figure 1. Adherence to Apremilast

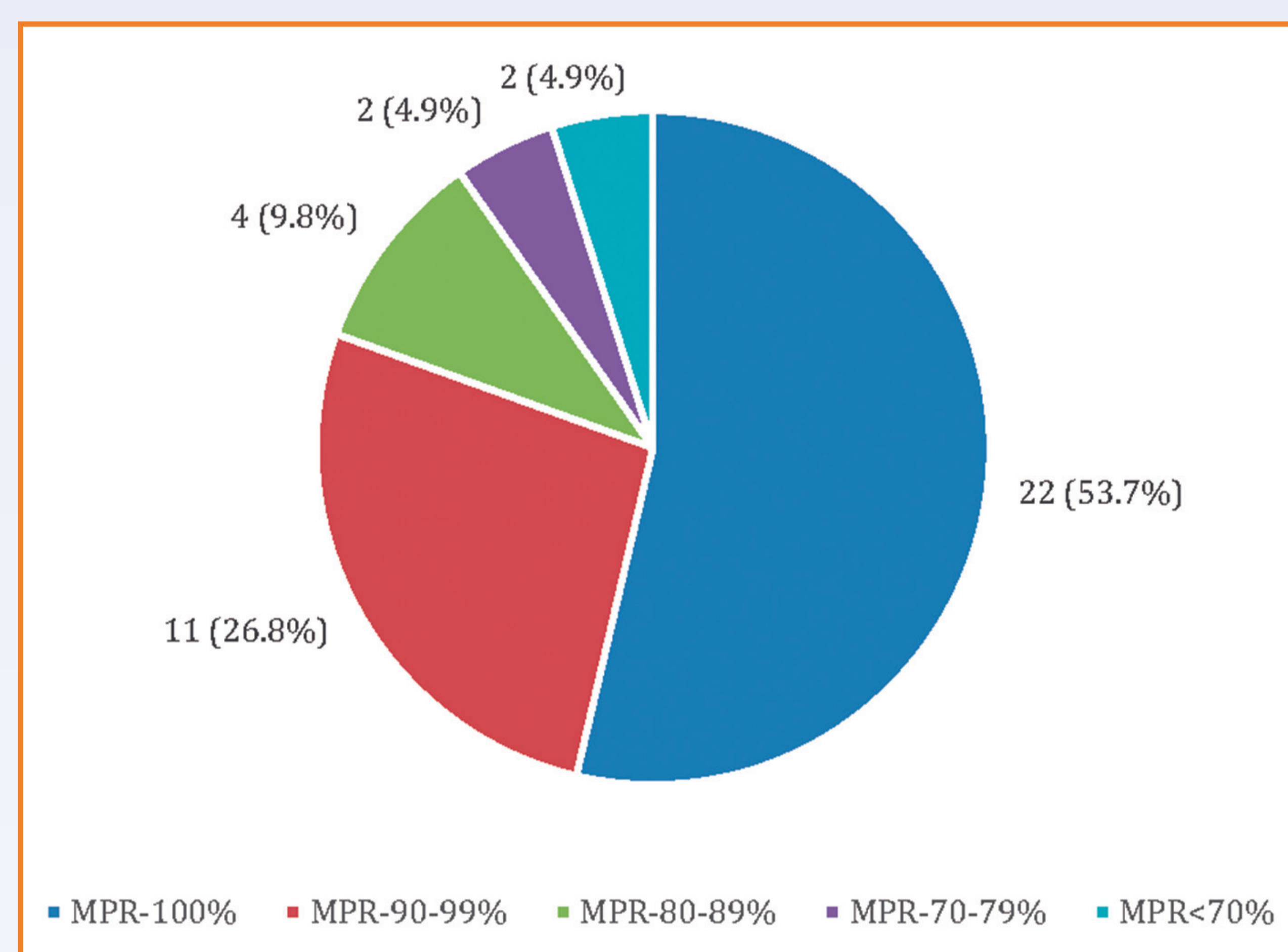


Figure 2. Patients discontinuing treatment with apremilast (n=17, 41.6%)

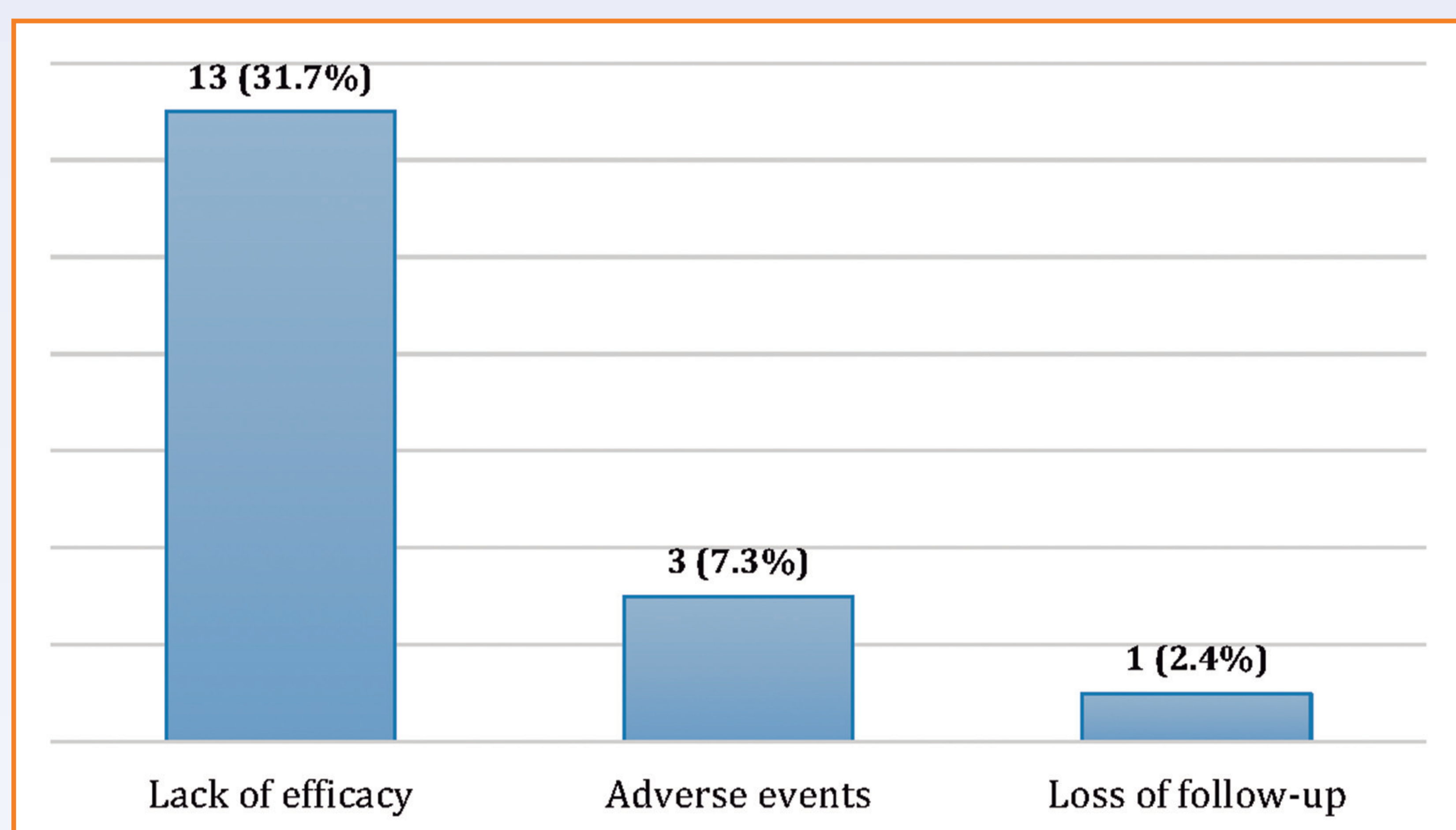


Table 1. Univariate analysis of variables to identify differences between patients with and without 100%-adherence (MPR =100% vs. MPR<100%).

	MPR<100% (n=19)	MPR-100% (n=22)	P-value (Fisher)
Age, median(range)	44.0(30-62)	51.5(23-68)	0.630
Age> 50 years, n(%)	7(36.8)	12(54.5)	0.350
Males, n(%)	12(63.2)	11(50.0)	0.531
Psoriatic arthritis, n(%)	12(63.1)	17(77.3)	0.493
Previous biologic therapy, n(%)	4(21.1)	7(31.8)	0.499
Treatment discontinuation due to adverse event, n(%)	2(10.5)	1(4.5)	0.588
Discontinuation (none-response), n(%)	5(26.3)	8(36.4)	0.524
Any adverse event, n(%)	7(36.8)	3(13.6)	0.144
Diarrhoea	3 (15.8)	4 (18.2)	1.000
Nausea	1 (5.3)	1(4.5)	1.000
Headache	4 (21.1)	1(4.5)	0.164

Conclusions

- Apremilast adherence rate was >90% in more than 80% of the patients.
- Considering MPR> 80% reported in literature, this rate was achieved in approximately 90% of patients, probably related to a multidisciplinary attention.
- None factor was associated to a poorer adherence, however further studies including a greater number of patients are needed.



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