

Scalp Psoriasis and DLQI: 12-Year Data From Malaysian Psoriasis Registry, a retrospective study



<u>Leong WC</u>, Khoo FY, Tang JJ Dermatology Department, Hospital Raja Permaisuri Bainun

Background

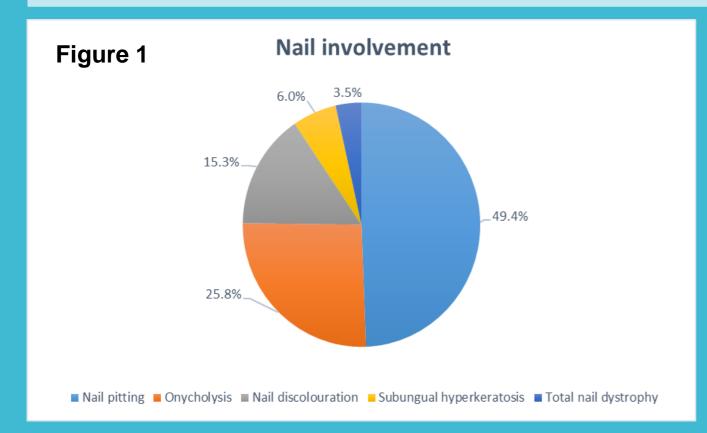
Psoriasis affects about 2-3% of the population worldwide, although the overall prevalence of psoriasis in Asia is < 0.5%. Scalp psoriasis is a common initial presentation of psoriasis which affects almost 80% of patients with psoriasis.

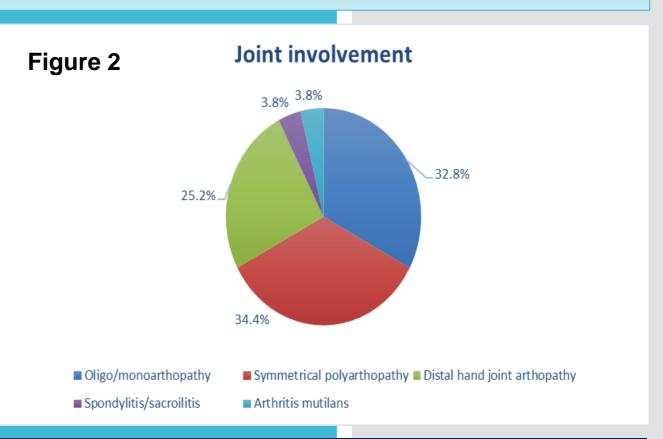
Method

This is a retrospective descriptive study of all psoriasis patients with scalp involvement registered in the Malaysian Psoriasis Registry (MPR) from January 2007-December 2018 (n=1671).

Results

A total of 21859 patients with psoriasis were registered in the MPR during this period, of which scalp involvement was seen in 7.6% (n=1671) of patients. Female preponderance (61%) was observed with a majority of Malay patients (58.5%), followed by Chinese (16.9%), Indian (17.1%), and others (7.5%). A positive family history of psoriasis was seen in 22.7% (n=380) of patients. Nail changes was observed in 34.8%(n=581) of patients and 11%(n=172) of patients had psoriatic arthropathy. For treatment modalities, the mainstay was topical treatment (93.6%), followed by systemic therapy (10%) and phototherapy (0.5%). Comorbidities seen among patients with scalp psoriasis included hypertension (27.9%), obesity (26%), dyslipidemia (21%), diabetes mellitus (18.4%), ischemic heart disease (5.4%) and cerebrovascular disease (1.3%). About 23% of patients with scalp psoriasis in our study reported a Dermatology Life Quality Index (DLQI) score of >10, which indicates moderate to severe impairment. Figure 1 and 2 shows nail and joint involvement among patients with scalp psoriasis.





Discussion

The proportion of patients with nail changes in our cohort was lower than the 57.1% observed in the MPR which may be due to different screening strategies employed.^{1,3} The risk of developing psoriatic arthropathy was increased 3.89 times among patients with scalp psoriasis and 3 times higher among patients with nail dystrophy.⁴ Factors influencing the choice of treatment include disease severity, patient preference, prior response, and cost.⁵ Comorbidities among scalp psoriasis patients in our cohort were similar to those from the MPR with hypertension (27.9%) the commonest.¹ From our study, 23% of patients reported DLQI >10, which indicates moderate to severe impairment of health-related quality of life. Scalp psoriasis is associated with significant impairment in DLQI which can be attributed to the visibility of the scalp region which is a difficult to treat area as scalp skin is relatively difficult to access, therefore reducing the efficacy of topical treatment.

Conclusion

This study describes the demographic characteristics, clinical features, treatment modalities and DLQI among patients with scalp psoriasis in Malaysia. Demographic studies on scalp psoriasis are limited worldwide. There is a need for more demographic studies on scalp psoriasis to help improve the care and treatment for scalp psoriasis patients.

The authors have no conflict of interest to declare.

REFERENCES

- 1. Mohd Affandi A, Khan I, Ngah Saaya N. Epidemiology and Clinical Features of Adult Patients with Psoriasis in Malaysia: 10-Year Review from the Malaysian Psoriasis Registry (2007-2016). Dermatol Res Pract. 2018;2018:4371471.
- 2. Wang TS, Tsai TF. Managing Scalp Psoriasis: An Evidence-Based Review. Am J Clin Dermatol. 2017;18(1):17-43
- 3. Kumar R, Sharma A, Dogra S. Prevalence and clinical patterns of psoriatic arthritis in Indian patients with psoriasis. Indian J Dermatol Venereol Leprol. 2014;80(1):15-23.
- 4. Wilson FC, Icen M, Crowson CS, McEvoy MT, Gabriel SE, Kremers HM. Incidence and clinical predictors of psoriatic arthritis in patients with psoriasis: a population-based study [published correction appears in Arthritis Rheum. 2010 Apr;62(4):574]. Arthritis Rheum. 2009;61(2):233-239.
- 5. Frez ML, Asawanonda P, Gunasekara C, et al. Recommendations for a patient-centered approach to the assessment and treatment of scalp psoriasis: a consensus statement from the Asia Scalp Psoriasis Study Group. J Dermatolog Treat. 2014;25(1):38-45.