

PSORIASIS

ASSOCIATION OF MULTIPLE SCLEROSIS WITH PSORIASIS: A SYSTEMATIC REVIEW AND META-ANALYSIS OF OBSERVATIONAL STUDIES

Ching-chi Chi⁽¹⁾ - Chia-yu Liu⁽²⁾ - Chin-yu Lee⁽²⁾ - Tao-hsin Tung⁽³⁾ - Kuo-hsuan Chang⁽⁴⁾ - Shu-hui Wang⁽⁵⁾

Department Of Dermatology, Chang Gung Memorial Hospital, Linkou, Taoyuan⁽¹⁾ - School Of Medicine, Fu Jen Catholic University, New Taipei⁽²⁾ - Department Of Medical Research And Education, Cheng Hsin General Hospital, Taipei⁽³⁾ - Department Of Neurology, Chang Gung Memorial Hospital, Linkou, Taoyuan⁽⁴⁾ - Department Of Dermatology, Far Eastern Memorial Hospital, New Taipei⁽⁵⁾

Background: Previous studies have found multiple sclerosis and psoriasis may share similar predisposing genes and mechanisms.

Objective: We aimed to investigate the association between psoriasis and multiple sclerosis.

Materials and methods: We searched MEDLINE, EMBASE, and CENTRAL in June 2017 for case-control, cross-sectional, or cohort studies that examined either the odds or risk of psoriasis in subjects with multiple sclerosis. The risk of bias of included studies was assessed by using the Newcastle-Ottawa Scale. The random-effects model meta-analysis was used to calculate the odds ratio (OR) for case-control/cross-sectional studies and hazard ratio (HR) for cohort studies.

Results: We included 8 case-control/cross-sectional (5 case-control and 3 cross-sectional studies) and 2 cohort studies with 546,758 study subjects. Three studies were rated with a high risk of bias in comparability, non-response rate, and selection of controls, respectively. Multiple sclerosis was associated with increased odds (OR 1.43; 95% confidence interval (CI) 1.12-1.83) and risk for psoriasis (HR 1.92; 95% CI 1.32-2.80).

Conclusions: Patients with multiple sclerosis are prone to have psoriasis.





