Serum levels of visfatin and omentin-1 in patients with psoriasis and their relation to disease severity

S.A. Ismail and S.A. Mohamed

Abstract:

Background The association of the novel adipokines visfatin and omentin-1 with psoriasis is still obscure. Data concerning other inflammatory diseases suggest a possible role of these adipokines in the pathophysiology of psoriasis. Objectives To investigate serum levels of visfatin and omentin-1 in patients with psoriasis compared with healthy controls, and to consider their relation to disease duration, disease severity and obesity markers. Methods Visfatin and omentin-1 concentrations were measured in 46 patients with plaque-type psoriasis and 42 healthy controls by using specific enzyme-linked immunosorbent assays. Results Patients with psoriasis showed considerably higher serum levels of visfatin than healthy controls with significant positive correlation with disease severity and duration. They also showed lower levels of omentin-1 compared with healthy controls with significant inverse correlation with body mass index and waist circumference. Conclusions Coordinated roles for visfatin and omentin-1 are suggested in the modulation of the inflammatory environment in patients with psoriasis. Given the significant relations of omentin-1 with obesity markers, the health consequences of excessive weight should be better communicated to patients with psoriasis.

Published In:

British Journal of Dermatology
