

Immune-mediated inflammation promotes subclinical atherosclerosis in recent-onset psoriatic arthritis patients without conventional cardiovascular risk factors

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Studies on the inflammatory burden in recent-onset psoriatic arthritis (PsA) patients without conventional cardiovascular risk factors (CVRFs) are not available. This preliminary study focuses on cardiovascular risk in cutaneous psoriasis (CPs) and recent-onset PsA patients. Blood biochemistry (glucose, cholesterol, uric acid, lipid profile and apolipoprotein B) was analyzed using standard kits. Proatherogenic inflammation markers, C-reactive protein (CRP) and interleukin-6 (IL-6), and endothelial activators monocyte chemoattractant protein-1 (MCP-1) and soluble intercellular adhesion molecule-1 (sICAM-1), were determined by enzyme-linked immunosorbent assay. Ultrasound images allowed measuring carotid intima-media thickness (cIMT). Our study first shows an increase in cIMT, and in serum levels of sICAM-1 and CRP in recent-onset PsA patients not presenting conventional CVRFs over the non-medicated time-period, from disease diagnosis to the beginning of pharmacological treatment, compared with healthy subjects. The outcome highlights the importance of monitoring serum level of sICAM1, CRP, and cIMT, and the value of primary prevention in psoriatic patients even with no history of cardiovascular events. © 2018

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Atherogenesis

Atherosclerosis

C-reactive protein

Carotid intima-media thickness

Chronic inflammation

IL-6

Psoriatic arthritis

Soluble intercellular adhesion molecule-1

C reactive protein

intercellular adhesion molecule 1

interleukin 6

monocyte chemotactic protein 1

tumor necrosis factor

adult

aged

anthropometry

arterial wall thickness

Article

atherosclerosis

body mass

cardiovascular risk

controlled study

disease activity score

echography

enzyme linked immunosorbent assay

female

human

hyperinsulinemia

hypertension

inflammation

male

metabolic syndrome X

Psoriasis Area and Severity Index

psoriatic arthritis