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Basic Study

Preliminary study on overproduction of reactive oxygen species by neutrophils in diabetes mellitus

Noridzzaida Ridzuan, Cini John Matthew, Pratheep Sandrasaigaran, Maryam Maqbool, Lee Chuen Liew, Jonathan Lim, Rajesh Ramasamy

Abstract

AIM: To assess the amount and pattern of reactive oxygen species (ROS) production in diabetic patient-derived neutrophils.

METHODS: Blood samples from type 2 DM patients and volunteers (control) were subjected to neutrophil isolation and the assessment of neutrophil oxidative burst using chemiluminescence assay. Neutrophils were activated by using phorbol myristate acetate (PMA)

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The aim of the present study was to evaluate the neutrophil apoptosis in relation to IL-8, ... in vitro by neutrophils of patients suffering from diabetes mellitus (DM)1 and the ... LPS-dependent IL-12 overproduction by neutrophils is responsible for the ...



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