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Prospective Study

Regulatory and activated effector T cells in chronic HCV: Relation to autoimmunity

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Abstract

AIM: To investigate how Tregs are regulated in chronic HCV patients via assessment of Tregs markers (granzyme 2, CD69 and FoxP3), Tefs markers (TNFRSF4 (OX40), INFG) and CD4, CD25 genes.

METHODS: A prospective study was conducted on 120 subjects divided into 4 groups; Group I (n=30) treatment naïve chronic HCV patients, Group II (n=30) chronic HCV treated with Peg/Riba, Group III (n=30) chronic HCV associated with non-organ specific autoantibody and Group VI (n=30) healthy persons as a control group. Tregs and Tefs markers were assessed in peripheral blood mononuclear cells by quantitative real time RT-PCR.

RESULTS: Chronic HCV patients exhibited significant higher levels of both Tefs and Tregs in comparison to healthy control group. Tregs markers were significantly decreased in Peg/Riba treated HCV patients in comparison to treatment naïve HCV

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Keywords: allergy, autoimmunity, immune regulation, tolerance, T lymphocytes ... Alterations in regulatory T-cell function in human disease ... between increased numbers of activated CD4⁺ CD25⁺ effector T cells and CD4⁺ CD25⁺ Tregs In patients with chronic hepatitis B virus (HBV) and hepatitis C virus (HCV) infection, ...

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