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Intravenous Methylprednisolone Pulse Therapy Target CD8+ Regulatory T Cell in Lupus Nephritis with Refractory Proteinuria

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Abstract Text:

Rationale: Rationale: We evaluated whether Intravenous methylprednisolone (IVMP) administration in patients with active class III/IV lupus nephritis (LN) is related to changes in CD8*FoxP3* regulatory T (Treg) cell population, enhance CD8*Treg suppressive function in peripheral blood mononuclear cells (PBMCs) and renal tissues.

Methods: Methods: Fourty patients with class III/IV lupus nephritis were treated with IVMP. PBMCs were isolated from patients before and after two weeks of IVMP.

Results: Results: IVMP therapy significantly increased CD8*Foxp3* Treg cells expression with intracellular IL-10 and granzyme B in PBMCs. IVMP-treated CD8*CD25* Treg cells directly suppressed CD4* T cell proliferation and induced CD4*CD45RO* cell apoptosis. Histologically, a few of both CD4*FoxP3* and CD8*FoxP3* Treg cells in renal tissue of LN patients before IVMP by double immunohistochemical stain. CD8*FoxP3* Treg cells increased in ten cases of follow-up renal biopsy specimens after IVMP. Difference of CD8*CD25*FoxP3*Treg cells in PBMCs before and two weeks after IVMP correlated with decrease of Δ daily urine protein and anti-ds DNA Ab titers. siRNA of FoxP3 significantly suppressed granzyme B expression and decreasing CD8*CD25*Treg cell induced CD4*CD45RO*cell apoptosis.

Conclusions: Conclusion: IVMP therapy induces immunomodulatory effect partly by inducing CD8*CD25*Treg cell function, and hence may have therapeutic impact on treatment of LN.

Title:Intravenous Methylprednisolone Pulse Therapy Target CD8+ Regulatory T Cell in Lupus Nephritis with Refractory Proteinuria Submitter's E-mail Address:cylin@mail.cmuh.org.tw Keywords:Autoimmune Disease, T Cell Response Studies and T Cells

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