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### "Recurrent Non-Typhoidal Salmonella Bacteremia in a Patient with Interleukin -12p40 Deficiency "

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#### Abstract:

The South eastern region of Iran is an endemic area for salmonellosis. Sometimes bacteremia due to nontyphoidal salmonella occurs but certain patients are at increased risk for recurrent bacteremia. The risk of invasive salmonellosis and recurrent bacteremia is increased in the patients with immunosuppression, especially impaired cell-mediated immunity, lymphoproliferative diseases and in patients with IL-12 deficiency. In recent years, a series of inherited disorders of IL-12-IFN- $\gamma$  axis have been described that predispose affected individuals to disseminated disease caused by environmental mycobacteria and non-typhoidal salmonella. We report here the first such patient originating from and living in Iran. The patient was a 26-year-old man, suffering from IL-12p40 deficiency and presented with recurrent episodes of systemic salmonellosis. This report indicates that there are patients with inherited defects of the IL-12-IFN- $\gamma$  circuit in Iran. We recommended to consider this group of disorders in all patients with recurrent non-typhoidal salmonella bacteremia, wherever they are found.

#### Keywords:

Interleukin-12 . Salmonellosis

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