Cytokine Profiles of Typhoid Patients Hospitalized at Communicable Disease Wards, Dr Soetomo Hospital, Surabaya

Abstrak:

For a period of six months (from November 2001 to March 2002) we have observed 31 patients with typhoid fever who were hospitalized at Communicable Disease Wards, Dr Soetomo Hospital, Surabaya. The objective of this study was to identify correlations between immune response pattern and the predominance of Th1 and Th2 cells role in typhoid patients with and without complications. As parameters of immune response we observed Th1 using measurement of IFN-γ and IL-2, and Th2 by means of IL-4 and IL-10 measurement from PBMC (Peripheral Blood Mononuclear Cells) culture from the patients. It was found that typhoid patients showed increased IL-4 and IL-10 and decreased IFN-γ compared to normal. It indicates that immune response in patients with typhoid fever shifts toward the predominance of Th2 cells.

Keyword:

typhoid fever, immune response, cytokine profile, complication

Daftar Pustaka:

Harbeck RJ and Giclas PC Diagnostic immunology laboratory manual Raven Press 1991 -
Seder RA and Mosmann TM Differentiation of effector phenotypes of CD4+ and CD8+ T cells. In (Paul WE, ed.) Fundamental Immunology, 4th edition Lippincott-Raven 1999 -