Manuscript Title:
Serum levels of negative costimulatory molecules and their correlations with innate immunocyte-related cytokines in patients with pulmonary tuberculosis

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Abstract:
Objective: To investigate factors influencing pulmonary tuberculosis (PTB) and to analyze serum levels of negative costimulatory molecules and their correlation with innate immunocyte-related cytokines in patients with PTB.
Methods:
The data of 280 patients and 280 healthy controls were collected via questionnaires. Peripheral blood was collected from all of the subjects. The serum levels of soluble programmed cell death protein 1 (sPD-1) and soluble T-cell immunoglobulin- and mucin-domain–containing molecule 3 (sTim-3), their corresponding ligand molecules soluble programmed death ligand 1 (sPD-L1) and soluble galectin-9 (sGal-9), and innate immunocyte- and T-cell-related cytokines were detected using enzyme-linked immunosorbent assay (ELISA). Univariate, multivariate, and...