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A Humoral Immune Index of Clinically Normal Human Subject

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ABSTRACT A study of the Humoral Immune Index of normal and clinically challenged human subjects has become pertinent to understand or diagnosis and therapeutical needs. Hitherto, reports have been made as to the levels of B-Cells and the IgG in sera. The present study focuses on a correlation between the B-Cells possessing IgG determinant molecules on the surface and the subject's Immunoglobulin G levels in the peripheral circulation. Ten subjected with no apparent clinical abnormalities were selected and used as donors of 1ml blood each. Further to the density gradient separation of the blood components using the Ficoll-Hypaque method, the plasma were screened for the IgG levels employing the Single Radial Immuno Diffusion (SRID) technique. The lymphocytes were stained with Anti Human IgG-Horse radish Peroxidase conjugate to identify and enumerate the B-Cells with surface IgG markers. The results indicate B-Cell with surface IgG markers to fall in a range of 0.10×10^6 to 0.19×10^4 per ml of blood. The IgG levels range from 8.1 mg/ml to 10mg/ml. The conclusions obtained from the present study is that there is no linear relationship between the levels of B-Cells with surface IgG markers with the corresponding IgG levels in circulation under normal clinical conditions and there exists a range of normal levels of B-Cells and IgG in peripheral circulation.

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