

عنوان مقاله:

Plasma Protein Profile of Lactating Women from Two Primary Health Centers in Jakarta, Indonesia

محل انتشار:

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خلاصه مقاله:

Background: Plasma protein profile test is a potential laboratory method to assess nutritional status especially albumin and globulins levels which reflects protein adequacy. The purpose of this study is to evaluate plasma protein profile of lactating women from two primary health centers in Jakarta. Methods: A cross-sectional study was conducted involving lactating women attending routine maternal examinations in two public primary health centers in Jakarta, Indonesia. The mother's plasma total protein, albumin, globulin, and immunoglobulin levels were measured. Results: Sixty lactating women were recruited, mostly were ۲۸ years old, slightly overweight, bearing two children, and their recent children were ۲ months old. The mean total protein level was ۸.۱۳ g/dl, albumin ۵.۰۰ g/dl, globulin ۳.۱۸ g/dl, albumin: globulin ratio ۱.۵۵۸, mean total IgG level of ۱۲۵۵.۹۸ and mean total IgM level of ۱۳۵.۸۱۹. All the measured plasma protein parameters were shown to be not correlated with maternal age, maternal BMI, or maternal parity. Discussion: The plasma total protein, albumin, globulin, as well as total IgG and IgM level of lactating women in Jakarta were within normal range. These biochemical parameters were shown to be not correlated with anthropometrical data such as maternal age and BMI. The small and relatively homogenous samples were supposed to be the cause of such findings. Conclusions: The plasma protein profile of lactating women in Jakarta was adequate. Further studies are required to evaluate the eligibility of plasma protein profile as biochemical parameter of nutritional status in lactating women.

کلمات کلیدی:

.Blood protein, lactation, protein, albumin/globulin, immunoglobulin M/G

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