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Glucose 6 Phosphate Dehydrogenase (G6PD) Deficiency in Bad Pregnancy History in St. Vincentius A Paulo Catholic Hospital, Surabaya

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Abstract

G6PD is an enzyme that has been proved to have cytoprotective effect against oxidative stress. It has been widely known that exposure of oxidants could trigger hemolytic in G6PD deficient patients. Researches have found that there is a correlation between G6PD deficiency and miscarriage or spontaneous abortion in pregnant women. G6PD is very important for normal embryonal development, during this time the G6PD activity is increased because of increasing oxidative stress, especially after the maternal fetal blood circulation begins to function. Researchers have proved the increase of intrauterine fetal death rate, stillbirth and fetal abnormality in G6PD deficient rats. This study analyzed the G6PD enzyme in women who experienced abortion, either once or recurrent. Using descriptive study samples are women, aged 21 years or more who showed no abnormality reproduction organs, no TORCH infection, diabetes mellitus, thyroid abnormalities and heart disease. The results showed that 10 (43.5%) of samples are G6PD deficiency. Hemoglobin levels, erythrocyte and reticulocyte count of the samples that could influence G6PD activity levels were normal.

Keyword : abortion, G6PD, deficient, oxidative, stress, ,

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