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HEMATOCRIT AS A SCREENING TEST OF IRON DEFICIENCY OCCURRENCE IN TETRALOGY OF FALLOT

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Abstract

Tetralogy of Fallot (TF) is a cyanotic congenital heart disease, characterized by a shunt from right to left and a decrease in blood flow to the lungs. Erythropoiesis as compensation for chronic hypoxia in TF patients often cannot be balanced with adequate reserves of iron, causing iron deficiency and the "relative anemia". Parameters for determining iron deficiency in patients with cyanotic congenital heart disease still in debate. The purpose was to study the use of hematocrit as a screening test incidence of iron deficiency in patients with TF. This was a cross sectional study in patients with Tetralogy of Fallot in Children Cardiac Outpatient Clinic Dr. Soetomo hospital Surabaya during July and August 2004. Samples were taken in consecutive. Result was analyzed with McNemar test and cut-off point was determined with receiver operator characteristic (ROC) curve and contingency C test. Of the 33 patients who were found 14 (42.4%) patients with a hematocrit (HCT) less than or equal to 45% and 19 (57.6%) more than 45%. There was significant positive relationship (r = -0.401, p = 0.021) between the hematocrit with the presence or absence of iron deficiency (transferrine saturation < 11.5%) and MCV < 80 fl). The optimum value of hematocrit in predicting iron deficiency ranged 40% to 45%, with highest sensitivity at 40% hematocrit (94.4%). Conclusion: Hematocrit levels < 40% can be used as screening tests incidence of iron deficiency in patients with TF.

Keyword : hematocrite, iron, deficiency, Tetralogy, of, Fallot, screening, test,

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