

Hubungan hemoglobin pra-transfusi dan profil besi dengan gangguan pertumbuhan fisik pada pasien thalassemia di RS Cipto Mangunkusumo (RSCM) Jakarta = Association between pra transfusion hemoglobin and iron profile with physical growth retardation among thalassemia patients in Cipto Mangunkusumo Hospital (RSCM) Jakarta

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Abstrak

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Latar Belakang: Thalassemia merupakan hemoglobinopati hereditas yang menyebabkan anemia kronis, sehingga pasien membutuhkan transfusi darah secara rutin yang dapat menyebabkan kelebihan besi. Kelebihan besi dapat memicu beberapa komplikasi, salah satunya adalah gangguan pertumbuhan. Tujuan: Mengetahui hubungan antara kadar hemoglobin dan profil besi dengan gangguan pertumbuhan pada pasien thalassemia. Metode: Studi cross-sectional pada 102 pasien thalassemia di Pusat Thalassemia RSCM Jakarta. Hasil: Empat puluh lima 44,1 subjek adalah perempuan dan 57 55,9 subjek adalah laki-laki dengan rentang usia 9-14 tahun. Tiga puluh sembilan 38,2 subjek memiliki perawakan pendek dan 63 61,8 subjek memiliki perawakan normal. Nilai median kadar feritin serum pada pasien perawakan pendek adalah 2062 318-8963 ng/mL dan pada pasien perawakan normal adalah 3315 422,9-12269 ng/mL p.

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 ABSTRACT

Background Thalassemia is a hereditary hemoglobinopathy which causes chronic anemia, thus the patients need regular blood transfusion which can cause iron overload. It leads to some complications, one of them is growth retardation. Aim To determine the association between hemoglobin level and iron profile with growth retardation on thalassemia patients. Methods cross sectional study on 102 patients in Thalassemia Center of RSCM Jakarta. Results Forty five 44.1 subjects are girls and 57 55.9 subjects are boys. Their age range was 9 14 years old. Thirty nine 38.2 subjects had short stature and 63 61.8 subjects had normal stature. Median of serum ferritin level in the short stature patients was 2062 318 8963 ng mL and normal stature was 3315 422.9 12269 ng mL p 0.001 . Median of transferrin saturation in the short stature patients was 88 19 100 and normal stature was 83 35 100 p 0.94 . Mean of pra transfusion hemoglobin level in the short stature patients was 8.14 SD 0.93 g dL and normal stature was 8.07 SD 0.86 g dL p 0.68 . Conclusion there is a significant association between serum ferritin level and growth retardation, but there is no significant association between transferrin saturation and pra transfusion hemoglobin level with growth retardation.