

Blood Need Prediction Model for Mayor Thalassemia Patients

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| Abstract | <p>Patients with thalassemia major usually present within the first two years of life with severe anemia, need red blood cell transfusion. The objective of this study was to create a prediction model of blood transfusion need for patients with thalassemia mayor. This type of research was observational with cross sectional design. Samples are 79 patients with thalassemia major who perform routine transfusion at least once in a month at Banyumas hospital in 2012. Multiple linier regression analysis was used to create the model. The results showed that 80.7% blood requirements can be explained by variables of weight, haemoglobin level and age, while 19.3% is explained by other causes. Prediction formula states every increment of one year in age, the need for blood will increase by 0.816 millilitres and every increment of one kilogram of body weight, the need for blood will increase 13.4 millilitres, and when the haemoglobin level decreased 1 gr/dL the need for blood will increase by 81 millilitres.</p> |
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