

**POLITEKNIK KESEHATAN TANJUNGPINANG PROGRAM STUDI  
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**Gambaran Profil Eritrosit dan Jenis Anemia Berdasarkan Indeks Pada  
pasien Talasemia Mayor di RSUD Pringsewu Tahun 2021**

xv + 33 halaman, 4 tabel, 3 gambar, 7 lampiran

**ABSTRAK**

Talasemia merupakan salah satu penyakit genetik terbanyak di dunia yang ditandai dengan tidak terbentuk atau berkurangnya salah satu rantai globin baik itu rantai globin  $\alpha$  ataupun rantai globin  $\beta$  yang merupakan komponen penyusun utama molekul hemoglobin normal. Menurut WHO, bahwa 7% dari populasi dunia merupakan pembawa sifat talasemia dan Setiap tahun sekitar 50.000 hingga 100.000 anak meninggal akibat talasemia. Manifestasi klinis penyakit talasemia adalah anemia, anemia pada talasemia disebabkan karena eritropoesis inefektif. Penelitian ini bertujuan untuk mengetahui gambaran profil eritrosit dan jenis anemia berdasarkan indeks eritrosit pada pasien talasemia mayor di RSUD Pringsewu. Jenis penelitian ini bersifat deskriptif menggunakan data sekunder dan analisis data univariat, dengan populasi seluruh pasien talasemia tahun 2021. Sampel pada penelitian ini adalah pasien talasemia yang melakukan pemeriksaan hematologi rutin sebelum terapi transfusi yang diambil dari data rekam medik yang teregistrasi lengkap (usia, jenis kelamin, Hb, Ht, RBC, MCV, MCH, dan MCHC) di RSUD Pringsewu Tahun 2021 yaitu 36 pasien. Hasil penelitian menunjukkan profil eritrosit talasemia mayor, HB memiliki mean  $\pm$  SD  $7.9 \pm 1.1$  g/dl dan median 7.9 g/dl, HCT memiliki mean  $\pm$  SD  $28.4 \pm 2.7$  % dan median 18%, RBC memiliki mean  $\pm$  SD  $3.05 \pm 0.37$  juta sel/mm<sup>3</sup> dan median 3.14 juta sel/mm<sup>3</sup>, pada MCV memiliki mean  $\pm$  SD  $74.4 \pm 3.32$  fl dan median 75.7 fl, MCH memiliki mean  $\pm$  SD  $25.4 \pm 1.7$  pg dan median 25.6 pg, dan MCHC memiliki mean  $\pm$  SD  $31.7 \pm 2.2$  % dan 32%. Adapun jenis anemia berdasarkan indeks eritrosit ditemukan 36 pasien talasemia (100%) mengalami anemia hipokromik mikrositik dan tidak ditemukan anemia normokrom normokromik serta anemia normokromik makrositik (0%).

Kata Kunci : Talasemia Mayor, Anemia, Indeks Eritrosit

Daftar Bacaan : 16 (2009-2019)

**TANJUNGKARANG HEALTH POLYTECHNIC STUDY PROGRAM OF  
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**Description of Erythrocyte Profile and Type of Anemia Based on Erythrocyte  
Index at Pringsewu General Hospital**

xv + 33 page, 4 table, 3 picture, 7 attachment

**Abstract**

Thalassemia is one of the most common genetic diseases in the world which is characterized by the absence or reduction of one of the globin chains, either globin chains or globin chains, which are the main components of the normal hemoglobin molecule. According to WHO, that 7% of the world's population is a carrier of thalassemia trait. The clinical manifestations of thalassemia disease are anemia, anemia in thalassemia is caused by ineffective erythropoiesis. This study aims to determine the profile of erythrocytes and the type of anemia based on the erythrocyte index in thalassemia major patients at Pringsewu Hospital. This type of research is descriptive using secondary data and univariate data analysis, with a population of all thalassemia patients in 2021. The sample in this study was thalassemia patients who performed routine hematological examinations before transfusion therapy which were taken from complete registered medical record data (age, gender). , Hb, Ht, RBC, MCV, MCH, and MCHC) at Pringsewu Hospital in 2021, namely 36 patients. The results showed the erythrocyte profile of thalassemia major, HB had a mean  $\pm$  SD of  $7.9 \pm 1.1$  g/dl and a median of 7.9 g/dl, HCT had a mean  $\pm$  SD of  $28.4 \pm 2.7\%$  and a median of 18%, RBC had a mean  $\pm$  SD of  $3.05 \pm 0.37$  million cells. /mm<sup>3</sup> and a median of 3.14 million cells/mm<sup>3</sup>, where MCV had a mean  $\pm$  SD of  $74.4 \pm 3.32$  fl and a median of 75.7 fl, MCH had a mean  $\pm$  SD of  $25.4 \pm 1.7$  pg and a median of 25.6 pg, and MCHC had a mean  $\pm$  SD of  $31.7 \pm 2.2\%$  and 32%. As for the type of anemia based on the erythrocyte index, 36 thalassemia patients (100%) had microcytic hypochromic anemia and no normochromic normochromic anemia and macrocytic normochromic anemia (0%) were found.

**Kata Kunci** : Talasemia Mayor, Anemia, Indeks Erythrocyte

**Daftar Bacaan** : 16 (2009-2019)