

**KARAKTERISTIK PASIEN TRANSFUSI BERULANG
BERDASARKAN HASIL *COOMBS' TEST* POSITIF
DI RSUP DR. M. DJAMIL**



Skripsi
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ABSTRACT
REPEATED TRANSFUSION PATIENTS' CHARACTERISTICS BASED
ON COOMBS TEST POSITIVITY AT RSUP DR. M. DJAMIL

By

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Repeated transfusion when patients receive ransfusion of at least 3 PRCS bags or more increases the risk of autoimmunization and alloimmunization that can be detected with coombs' test. This study aims to determine the characteristics of repeated transfusions patients based on positive coombs' test results at RSUP Dr. M. Djamil Padang.

This study is a descriptive research conducted on repeated transfusions patients with positive DCT and/or ICT results. Samples were taken using consecutive sampling.

The 35 samples consisted of 24 positive DCT patients, 1 positive ICT patients, and 10 positive DCT and ICT patients. The samples were dominated by AIHA patients. The positive DCT group was dominated by women aged 19–65 years old, blood type A+, had been transfused 4–5 times, with a transfusion interval of 6–7 days, the average Hb was low, 5,56g/dl, and the average of leukocyte count was 7.515/uL. The positive ICT group was a 1 month old female baby with blood type A+, had been transfused 3 times with a transfusion interval of 2 days, the Hb level was 6,9 g/dl, and the leukocyte count was 24.610/uL. These results do not represent the ICT positive patients' characteristics because only 1 sample were included. The positive DCT and ICT group were dominated by female patients aged 19–65 years old, blood type O+, had been transfused 3–4 times with a transfusion interval of 1–2 days, average Hb level 4,42 g/dl, and leukocyte count 3.924,25/uL.

Doctors in charge need to be aware of autoimmunization and alloimmunization in repeated transfusions patients through Coombs' Test examination. Especially on female, AIHA, have undergone transfusions at least 3 times, with a transfusion interval of 1–7 days, and Hb levels below 7 g/dl. It necessary to suspect positive DCT result at the age of 19–65 years old, blood type A+, while positive DCT and ICT results at the age of 19–65 years old and blood type O+.

Keywords: *Direct Coombs' Test, Indirect Coombs' Test, Repeated Transfusions*

ABSTRAK
KARAKTERISTIK PASIEN TRANSFUSI BERULANG BERDASARKAN
HASIL COOMBS' TEST POSITIF DI RSUP DR. M. DJAMIL

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Transfusi sebanyak minimal 3 kantong PRCS atau transfusi berulang meningkatkan risiko autoimunitisasi dan alloimunitisasi yang dideteksi dengan *coombs' test*. Penelitian ini bertujuan untuk mengetahui karakteristik pasien transfusi berulang berdasarkan hasil *coombs' test* positif di RSUP Dr. M. Djamil Padang.

Penelitian ini adalah penelitian deskriptif pada pasien transfusi berulang dengan hasil DCT dan/atau ICT positif. Pengambilan sampel dilakukan secara *consecutive sampling*.

Sampel sebanyak 35 terdiri dari 24 pasien DCT positif, 1 pasien ICT positif, dan 10 pasien DCT dan ICT positif. Sampel didominasi oleh pasien AIHA. Kelompok DCT positif didominasi oleh perempuan berusia 19–65 tahun, golongan darah A+, sudah ditransfusi sebanyak 4–5 kali, dengan jarak transfusi 6–7 hari, rata-rata Hb rendah yaitu 5,56 g/dl, dan rata-rata jumlah leukosit 7.515/uL. Kelompok ICT positif merupakan bayi perempuan berusia 1 bulan dengan golongan darah A+, sudah ditransfusi sebanyak 3 kali dengan jarak transfusi 2 hari, kadar Hb 6,9 g/dl, dan jumlah leukosit 24.610/uL. Hasil ini tidak mewakili karakteristik pasien dengan ICT positif karena hanya 1 sampel. Kelompok DCT dan ICT positif didominasi pasien perempuan dengan usia 19–65 tahun, golongan darah O+, sudah ditransfusi sebanyak 3–4 kali dengan jarak transfusi 1–2 hari, rata-rata kadar Hb 4,42 g/dl, dan jumlah leukosit 3.924,25/uL.

Dokter penanggung jawab perlu mewaspadaikan autoimunitisasi dan alloimunitisasi pada pasien transfusi berulang melalui pemeriksaan *Coombs' Test*. Terutama pasien perempuan, AIHA, sudah menjalani transfusi minimal 3 kali, dengan jarak transfusi 1–7 hari, dan kadar Hb di bawah 7 g/dl. Perlu dicurigai hasil DCT positif pada usia 19–65 tahun, golongan darah A+, sedangkan hasil DCT dan ICT positif pada usia 19–65 tahun dan golongan darah O+.

Kata Kunci: *Direct Coombs' Test, Indirect Coombs' Test, Transfusi Berulang*