

Kesesuaian nilai reticulocyte hemoglobin equivalent dan reticulocyte hemoglobin content pada pasien penyakit ginjal kronik dengan hemodialisis = The concordance between reticulocyte hemoglobin equivalent and reticulocyte hemoglobin content in chronic kidney disease patients undergoing hemodialysis

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Abstrak

Kesesuaian antara reticulocyte hemoglobin equivalent (RET-He) dan reticulocyte hemoglobin content (CHr) untuk menilai status besi pasien penyakit ginjal kronik dengan hemodialisis (PGK-HD) belum diketahui. Penelitian ini bertujuan mendapat kesesuaian antara RET-He dan CHr, serta nilai cut off RET-He sebagai target terapi besi pasien PGK-HD.

Desain penelitian potong lintang. Subyek 106 pasien PGK-HD yang diperiksa RET-He menggunakan Sysmex XN-2000 dan CHr dengan Siemens ADVIA 2120i. Didapatkan korelasi sangat kuat ($r=0,91$; $p<0,0001$) dan kesesuaian yang baik antara RET-He dan CHr (perbedaan rerata 0,5 pg). Nilai cut off RET-He 29,2 pg sebagai target terapi besi pasien PGK-HD memiliki sensitivitas 95,5%, spesifisitas 94%.

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The concordance between reticulocyte hemoglobin equivalent (RET-He) and reticulocyte hemoglobin content (CHr) to assess iron status in chronic kidney disease patients undergoing hemodialysis (CKD-HD) was unknown. The aim of this study was to evaluate the concordance between RET-He and CHr, and to obtain the cut off value of RET-He as iron supplementation target in CKD-HD patients.

A cross sectional study from 106 CKD-HD patients were analysed on both Sysmex XN-2000 and Siemens ADVIA 2120i. There was very strong correlation ($r=0.91$; $p<0.0001$) and good concordance between RET-He and CHr (mean bias 0.5 pg). The cut off value of RET-He 29.2 pg were obtained to assess iron supplementation target in CKD-HD patients with sensitivity and specificity were 95.5% and 94% respectively.