

PERBEDAAN HASIL *CROSSMATCH* METODE GEL DENGAN INKUBASI DAN TANPA INKUBASI PADA PRE TRANSFUSI DARAH

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ABSTRAK

Pemeriksaan *crossmatch* yang digunakan di BDRS adalah metode semi otomatis, menggunakan metode tabung dan metode gel dengan waktu inkubasi $\pm 15-30$ menit suhu 37°C . Reaksi silang yang dilakukan hanya pada suhu kamar saja tidak dapat mengesampingkan aglutinin Rh yang hanya bereaksi pada suhu 37°C . Permasalahan terjadi, karena transfusi darah harus segera dilakukan, sementara untuk efisiensi petugas tidak melakukan inkubasi sesuai prosedur. Tujuan penelitian untuk mengetahui perbedaan hasil *crossmatch* metode Gel dengan inkubasi dan tanpa inkubasi pada pre transfusi darah. Jenis penelitian analitik dengan pendekatan *cross sectional*. Hasil penelitian menunjukkan hasil *crossmatch* mayor dengan dan tanpa inkubasi semuanya negatif. *Crossmatch* minor dengan inkubasi semuanya negatif (100%), tanpa inkubasi menunjukkan hasil negatif 12 sampel (75%), dan 4 sampel (25%) positif 1. Uji beda Wilcoxon menghasilkan $p = 0,046$ ($p < 0,05$) yang berarti terdapat perbedaan bermakna, sehingga dapat disimpulkan bahwa pemeriksaan *crossmatch* tanpa inkubasi beresiko memberikan hasil yang tidak tepat.

Kata kunci : *crossmatch mayor, minor, inkubasi*

THE RESULT DIFFERENCE OF CROSSMATCH GEL METHOD WITH INCUBATION AND WITHOUT INCUBATION ON PRE BLOOD TRANSFUSION

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ABSTRACT

Crossmatch examination which used in BDRS is semi automatic method, using tube method and gel method. The incubation time is \pm 15-30 minutes on 37 ° C temperature. Cross reaction which performed is only at room temperature alone that can not rule out Rh agglutinin that only reacts at 37 ° C. Problems was occur, because the blood transfusion must be done immediately, for officer's efficiency does not incubate according to the procedure. The research goal is to know the difference of crossmatch gel method with incubation and without incubation on pre blood transfusion. The research type is analytic research with cross sectional approach. The research result obtained was major crossmatch result with and without incubation were all negative. Minor crossmatch with incubation is all negative (100%), without incubation obtained was negative result 12 samples (75%), and 4 samples (25%) positive 1. Wilcoxon difference test generate $p = 0.046$ ($p < 0.05$) which means there was significant difference, so that can be concluded that crossmatch examination without incubation is risky gives incorrect result.

Keywords : major crossmatch, minor, incubation