

Pengaruh transportasi tabung pneumatik terhadap jumlah sel darah ldh kalium dan indeks hemolisis = Effect of pneumatic tube transportation on blood cell count ldh kalium and hemolysis index

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Abstrak

ABSTRAK
Penggunaan transportasi tabung pneumatik di laboratorium berpotensi mengakibatkan kerusakan sel darah dan mempengaruhi hasil pemeriksaan Penelitian ini bertujuan mendapatkan data perbedaan hasil pemeriksaan jumlah eritrosit leukosit trombosit LDH kalium dan indeks hemolisis antara darah yang ditransportasi kurir dan tabung pneumatik Desain penelitian potong lintang dengan 58 subjek menggunakan darah K3EDTA berpasangan dan darah beku berpasangan Pada penelitian ini tidak ada perbedaan statistik pada jumlah eritrosit leukosit trombosit dan kalium antara kedua cara transportasi Terdapat peningkatan LDH dan indeks hemolisis yang bermakna secara statistik pada darah yang ditransportasi tabung pneumatik Peningkatan LDH melebihi batas ketelitian laboratorium tetapi tidak bermakna secara klinis

ABSTRACT
The use of pneumatic tube system has a possibility to induce damage on blood cells and affects laboratory result This study aim to obtain the difference between the result of erythrocyte leukocyte thrombocyte LDH kalium and hemolysis index in blood transported by courier and by pneumatic tube system The method used was a cross sectional study with 58 voluntary subjects using paired K3EDTA blood and paired coagulated blood There was no significant statistical difference between erythrocyte leukocyte thrombocyte count and kalium in blood transported by courier and by pneumatic tube system There was an increased in LDH and hemolysis index in blood transported by pneumatic tube The increase of LDH caused by pneumatic tube was higher than laboratory precision limit but not clinically significant