

C19. PLATELET COUNT VARIATION ON PLATELET CONCENTRATE DONORS WITH REPEATED DONATION BY APHERESYS.

E. Negoita

B.B.T.C

Introduction: The platelet count of platelet concentrate by apheresys donors can vary with each donation session, thus setting their eligibility for the next donation.

Aim: The study of platelet count variation from one donation to the next on platelet concentrate donors with repeated, successive donations by apheresys.

Materials and method: The study was made on 163 platelet concentrate donors who donated at the Bucharest Blood Transfusion Center, for a period of one year, with 30 days interim between donations, on Haemonetics MCS +.

Results: It has been found that out of the 163 donors, 103 (63%) shown a decrease in platelet count, while 60 (37%) had an increase in platelet count on the following donation.

Platelet counts decreased with 1000/ μ L to 170000/ μ L and increased with 1000/ μ L to 100000/ μ L.

Donors with more than 5 successive donations registered a decrease in platelet count, over the initial value at first donation, in 67% of the cases and an increase in 33%, the variation ranging from 3000 / μ L to 100 000 / μ L.

Conclusions: Platelet concentrate by apheresys donors exhibit a decrease in platelet count in 60% of the cases and an increase in 30%, at an interval of 30 days between donations, a pattern which remains constant even after more than 5 successive donations by apheresys.