

The Difference Counting Number of Platelets with Impedance Method, Direct and Barbara Brown

Dewi Ratih Maharani¹, Herlisa Anggraini², Joko Teguh Isworo³

1. Diploma IV of Health Analyst Study Program, Nursing and Health Faculty, Muhammadiyah University Semarang.
2. Clinical Pathology Laboratory Muhammadiyah University Semarang.

ABSTRACT

Calculating the number of platelets in the blood is important to determine some health problems or illness. Platelets can be calculated directly or indirectly. Each methods has advantages and disadvantages. The purpose of this research is to know the difference of calculation result of thrombocyte count with Impedance method, Direct and Barbara Brown.

This research uses analytical research with cross sectional design. The independent variables are Impedance method, Direct and Barbara Brown. The bound method is the number of platelets. Sampling technique used is quota sample of 8 patients with 3 treatments.

The result showed the number of Impedance method thrombocyte with an average value of 244.375 ; Direct with an average value of 244.083 ; Barbara Brown with an average value of 244.667. Based of statistical test of Repeated Anova on difference of Impedance method and Direct got significancy value 0,615 ; Impedance method and Barbara Brown got significancy value 0,558 ; and Direct method and Barbara Brown got significancy value 0,129. Thus it can be concluded that there is no difference in the number of platelets count between the Impedance method, Direct and Barbara Brown.

Key words: Number of Platelets, Impedance, Direct, Barbara Brown