

Comparative Study of Haematological Values Using Manual and Automated Techniques in Apparently Healthy Adult Nigerians.

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ABSTRACT

Background: Many public medical laboratories use automated techniques for analysis of samples due to the few number of laboratory staff required and the speed at which it operates. This study was carried out to compare haematological values obtained from automated techniques and manual techniques.

Method: A total of 86 apparently healthy adult Nigerians, aged 18-50 years comprising 50 males and 36 females who came for medical examination between June, 2004 and May, 2005 at Aminu Kano Teaching Hospital, Kano were used for the study. Standard manual methods and cell-dyn® 3700cs system techniques were used to determine haematocrit, total and differential leucocyte counts.

Results: Statistically significant differences were found between automated and manual techniques in males with regard to haematocrit levels, total white cell counts, differential monocyte and basophil counts ($0.45 \pm 0.03\%$, $5.1 \pm 1.9 \times 10^9/l$, $0.54 \pm 0.19 \times 10^9/l$ and $0.11 \pm 0.08 \times 10^9/l$ respectively) for automation and $0.42 \pm 0.04\%$, $4.4 \pm 1.4 \times 10^9/l$, $0.05 \pm 0.06 \times 10^9/l$ and $0.004 \pm 0.013 \times 10^9/l$ respectively for manual methods at $P < 0.001$, $P < 0.05$, $P < 0.001$ and $P < 0.001$ respectively while there were no significant differences in differential neutrophil, lymphocyte and eosinophil counts ($2.1 \pm 0.7 \times 10^9/l$, $2.2 \pm 0.7 \times 10^9/l$ and $0.14 \pm 0.16 \times 10^9/l$ respectively) of the automation when compared to $2.1 \pm 0.5 \times 10^9/l$, $2.1 \pm 0.5 \times 10^9/l$ and $0.09 \pm 0.09 \times 10^9/l$ respectively using manual methods ($P > 0.05$). There were no statistically significant differences between automated and manual methods in females with regard to total white cell count, differential neutrophil, lymphocyte and eosinophil counts ($5.8 \pm 2.3 \times 10^9/l$, $2.6 \pm 0.9 \times 10^9/l$, $2.4 \pm 0.8 \times 10^9/l$ and $0.1 \pm 0.1 \times 10^9/l$ respectively) of the automation when compared to $4.9 \pm 1.6 \times 10^9/l$, $2.5 \pm 0.7 \times 10^9/l$, $2.3 \pm 0.6 \times 10^9/l$ and $0.06 \pm 0.09 \times 10^9/l$ respectively of manual techniques ($P > 0.05$) while significant differences were observed in haematocrit, differential monocyte and basophil counts ($0.39 \pm 0.03\%$, $0.55 \pm 0.3 \times 10^9/l$ and $0.1 \pm 0.09 \times 10^9/l$ respectively) of automation when compared to $0.37 \pm 0.03\%$, $0.03 \pm 0.04 \times 10^9/l$ and $0.002 \pm 0.01 \times 10^9/l$ respectively of the manual methods at $P < 0.01$, $P < 0.001$ and $P < 0.001$ respectively.

Conclusion: The results have proven that differential monocyte and basophil counts from automation are unreliable and efforts should be made to carry out manual differential counts for confirmation.

KEYWORDS: Haematological values; manual and automated techniques.

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INTRODUCTION

The concept of counting blood cells automatically began in the mid-1930s with a report discussing a photoelectric method for counting cells passing through a capillary tube using darkfield optics¹. In the late 1940s and early 1950s, two instruments were introduced and the first one was the modification of the original capillary method using darkfield optics while the second instrument was based on a completely new monoptical principle of cell counting through electrical gating or electrical impedance^{2,3}. In the early 1970s, two different techniques for automating differentials were refined sufficiently to be acceptable for clinical laboratory use and the principle of one is based on detecting cell images electronically and interpreting them with a computer programmed with descriptions while the other is based on light scatter and cytochemical staining for the identification of leucocytes⁴. The development of the automated haematology analyzer has been continuous with each step increasing the number of tests performed simultaneously, increasing the speed and decreasing the required sample volume^{5,6}.

Manual semi-automated or automated techniques can be used to determine the various elements of the full blood counts. Manual techniques are generally of low cost with regard to equipment and reagents but are labour intensive while automated techniques entail high capital costs but permit rapid performance of large number of counts by a small number of laboratory workers⁷. However, automated techniques are not designed to identify immature cells or other abnormal features of morphology such as toxic granulations, blast forms which can be categorized as between lymphocytes and monocytes while increased number of eosinophils may blend with other granulocytes or fall between monocytes and granulocytes^{8,9}.

Many laboratories now use automated

Manual Detremination Of Haematological Values

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