

عنوان مقاله:

Hematological Reference Values for Healthy Males in the Central Part of Iran

محل انتشار:

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خلاصه مقاله:

Background and Objectives: Laboratory reference values are an important tool for clinical management of patients. Reference values being used in most laboratories in Iran have been provided from the established reference values from developed countries. However, several variables can affect on these laboratory parameters. Therefore, this study was carried out to establish the reference values of hematological parameters in the blood donors of central province of Iran as a general population. **Methods:** Blood samples of 1100 male blood donors were collected consecutively from Blood Transfusion Organization. Complete blood cell (CBC) count in 2012 and differential was performed using an automated hematology analyzer. **Results:** The median and 95% reference values (2.5th-97.5th) for Hb and platelet counts were 15.5 g/dl (14.1-17.7) and 209×10^9 cells/L (151-322) respectively. The median for total WBC count, neutrophil, lymphocyte, monocyte and eosinophil were 6.7×10^9 cells/L (4.3-11.2), 58% (50%-70%), 40% (30-49%), 0% (0-2) and 1% (0-3%), respectively. **Conclusion:** The hematological profile of the population in central province of Iran was different from the reports of other countries and also the standards reference ranges described in textbook. So, further nationwide study should be carried out to establish the hematological reference values of the Iranian population as a whole.

کلمات کلیدی:

Hematology; Reference Value; Male; Iran

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