Comparison of Common Paraclinical Tests' Results in Semnan Province with the Global Reference Ranges: a Cross Sectional Study with High Sample Size

Alavy Toussy, J. (MD)
Pathologist, Semnan University of Medical Sciences, Semnan, Iran

Soltany, S. (MD)
Associate Professor, Department of Surgery, Semnan University of Medical Sciences, Semnan, Iran

Semnani, V. (MD)
Associate Professor, Pathology department, Semnan University of Medical Sciences, Semnan, Iran

Corresponding Author:
Soltany, S.

Email:
setaresoltany@yahoo.com

Abstract

Background and Objective: Knowledge about normal range of tests is one of the most important parameters in correct interpretation of the results. Accordingly, we decided to determine normal range of common paraclinical tests in Semnan and compare them with global reference ranges.

Material and Methods: The data from Khatam-al-Anbia laboratory from year 2011 to 2013 evaluated and the results compared with global reference ranges.

Results: Results and normal ranges of biochemistry, serology and hormonal tests were calculated. Normal range for Triglyceride was significantly higher than global reference range. Other tests' normal ranges were similar to global ranges.

Conclusion: Given large sample size, the results can be used confidentially in Semnan province and as a prototype for IRAN too.

Keywords: Clinical Laboratory Services; Diagnosis; Reference Values.