

Reticulocyte Hemoglobin Content (CHr): A Reliable indicator in Iron Deficiency Anemia

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Abstract

Introduction: To estimate a cut off for Reticulocyte Hemoglobin Content (CHr) and compare it with Serum Ferritin for diagnosis of Iron Deficiency Anemia (IDA). **Material & Methods:** A total of 188 samples were included in the analytical study out of which 126 were categorized as study samples and 62 as control. CBC and Reticulocyte analysis were carried out and the parameters were compared. **Results:** CHr has a better sensitivity and specificity compared to Serum Ferritin. Low CHr is a marker for early diagnosis of iron deficiency whereas a raised CHr is an early sign of response to iron therapy. A CHr cut-off of 28.4 pg was established which is comparable with that of other studies. **Conclusion:** The study demonstrates that CHr is a useful parameter that can be confidently used in the diagnosis of IDA.

Keywords: Reticulocyte Hemoglobin Content (CHr), Iron Deficiency Anemia (IDA), ROC curve