

Mentzer Index Diagnostic Value in Predicting Thalassemia Diagnosis

Publons ID	28214471
Wos ID	WOS:000481624500004
Doi	10.1088/1755-1315/255/1/012004
Title	Mentzer Index Diagnostic Value in Predicting Thalassemia Diagnosis
First Author	
Last Author	
Authors	Siswandari, W; Rujito, L; Indriani, V; Djatmiko, W;
Publish Date	2019
Journal Name	1ST INTERNATIONAL CONFERENCE ON LIFE AND APPLIED SCIENCES FOR SUSTAINABLE RURAL DEVELOPMENT
Citation	2
Abstract	<p>Thalassemia diagnosis requires gen examination using Polymerase Chain Reaction (PCR) device or hemoglobin (Hb) electrophoresis using electrophoresis or High Performance Liquid Chromatography (HPLC) device which is only available in certain hospitals. Therefore, it is important to develop easily examined parameters which are useful to assess thalassemia carrier diagnosis. This study aims at figuring out the diagnostic value of Mentzer Index in predicting beta-thalassemia carrier compared to the results of HB electrophoresis examination. Data were taken from 37 anemia patients at Prof. Dr. Margono Soekarjo Regional Public Hospital in Purwokerto who underwent Hb electrophoresis examination using electrophoresis instrument and routine blood count. Furthermore, Mentzer Index was calculated, odds ratio (OR) was analyzed, and diagnostic values were compared to the results of Hb electrophoresis. Mentzer index OR value was 2.4 (0.5 - 11.5, CI95%). Mentzer Index sensitivity (Sn) was 0.36 with specificity (Sp) at 0.81, positive predictive value (PPV) at 0.44 and negative predictive value (NPV) at 0.75. Mentzer index could be used to predict the diagnosis of beta-thalassemia carrier.</p>
Publish Type	Book in series
Publish Year	2019
Page Begin	(not set)
Page End	(not set)
Issn	1755-1307
Eissn	
Url	https://www.webofscience.com/wos/woscc/full-record/WOS:000481624500004
Author	Dr Dr dr. VM WAHYU SISWANDARI, S.Ked, Sp.P.K, M.Si.Med