

Degree of chronic hepatitis c severity and insulin resistance

Type: Article

Abstract:

Background: Diagnosis of fibrosis on chronic hepatitis C still needs invasive method such as liver biopsy. Aspartate Transaminase to Platelet Ratio Index (APRI) is a cheap and widely used assessment to indicate the presence of fibrosis in the liver. Insulin resistance as one an extra complication of chronic hepatitis C. We determined the correlation between degree of chronic hepatitis C severity based on APRI and the incidence of insulin resistance in chronic Hepatitis C patients. Methods: Degree of chronic hepatitis C severity was determined based on APRI and insulin resistance were determined using HOMA-IR. Correlation were analyzed using Chi-square and phi coefficient test, respectively. Results: Thirty chronic hepatitis C patients in this study consisted of in men was 16 male (53.3%) and 14 female (46.7%) patients with an average age of 51.63 ± 12.29 . Frequency distributions of severity based on dominant APRI showed fibrosis in 18 patients (60%) and no fibrosis in 12 patients (40%). Insulin resistance distribution based on HOMA-IR showed no insulin resistance in 16 patients (53.3%) and insulin resistance in 14 patients (46.7%). There was a correlation between degree of chronic hepatitis C severity based on APRI and insulin resistance based on HOMA-IR with $p = 0.006$ and $r = 0.491$, respectively. Conclusion: There was a correlation between chronic hepatitis C severity based on APRI and insulin resistance based on HOMA-IR.

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