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Cut-off values of ischemia modified albumin for the exclusion of aortic aneurysm

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Aim: Due to disturbing symptoms and catastrophic outcomes, aneurysms require more attention and closer follow-up. We aimed to evaluate whether Ischemia Modified Albumin (IMA) values are increase in patients with aortic aneurysm and predictive to differentiate those patients.

Methods: Our study population consisted of patients with aortic aneurysm (n=57) and age-matched control subjects (control group) (n=58).

Results: The high sensitive C reactive protein (hsCRP), IMA, low-density lipoprotein (LDL) and total cholesterol levels were significantly higher in aneurysm group than the control group ($p<0.05$ for all). High-density lipoprotein (HDL) cholesterol level was significantly lower in the aneurysm group ($p<0.05$). LDL, total cholesterol, hsCRP and IMA levels were significantly correlated with maximum aortic diameter ($r=0.210$, $p=0.024$, $r=0.469$, $p<0.001$, $r=0.472$, $p<0.001$ and $r=0.698$, $p<0.001$, respectively). The cut-off value of IMA obtained by ROC curve analysis was 0.48 for prediction of aortic aneurysm (sensitivity: 100.0%, specificity: 100.0%).

Conclusion: Low IMA levels may be a useful marker in excluding an aortic aneurysm with a high sensitivity and specificity, preferably when aneurysm considered as low probability and in patients without any ischemic event ever.

Biography

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