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 1 **Name of Journal:** *World Journal of Clinical Cases*
 2 **Manuscript NO:** 50583
 3 **Manuscript Type:** CASE REPORT
 4
 5 **Isolated elevated aspartate aminotransferase in an asymptomatic woman due**
 6 **to macro-aspartate aminotransferase: A case report**
 7
 8 Meng-Ru Zhan, Xu Liu, Ming-Yuan Zhang, Jun-Qi Niu
 9 **BACKGROUND**
 10 Macro-aspartate aminotransferase (AST), a macroenzyme, is a high-molecular
 11 mass complex formed by self-polymerization or association with other serum
 12 components that are difficult for the kidney to clear, leading to the isolated
 13 elevation of serum AST activity. Cases of the formation of macro-AST are rare,
 14 with only 3 published in the English language literature up to September 2019
 15 in China. In this paper, we present a case in which an asymptomatic woman
 16 with persistent isolated elevated AST was confirmed as having macro-AST by

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Isolated Aspartate Aminotransferase Elevation: Think Macro-AST. During this period of time, the patient's fatigue resolved and she was asymptomatic. The striking elevation of AST with normal ALT levels and negative work-up for the presence of liver disease led to consideration of the presence of macro-aspartate aminotransferase (macro-AST).

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In this report a case of macro-aspartate aminotransferase in a 34-year-old pregnant woman is presented. Awareness of the existence of a macroenzyme is important because of their ability to cause diagnostic confusion, which leads to unnecessary investigations. Confirmation with a polyethylene glycol precipitation test is simple to perform and not expensive. Key Words

Macro-AST: A benign cause of persistently elevated ...

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We report two cases: firstly, a macro-aspartate aminotransferase (macro-ASAT) discovered in an 82-year-old woman who presented with an isolated and persistent elevation of the ASAT activity that ...

[PDF] Case re Port isolated elevated aspartate ...

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Isolated elevation of aspartate aminotransferase (AST) due to macro-enzyme-AST (macro-AST) is a benign and rare condition. Because of its rarity, macro-enzyme testing is not routinely performed in clinical practice. Therefore, the diagnosis is often delayed with a prolonged work-up and may include invasive evaluations like a liver biopsy.

Author: Neha Sharma, Umar Darr, Amir Darr, ...

Publish Year: 2019