Reviewer’s report

Title: Anastrozole-related acute hepatitis with autoimmune features: a case report.

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Reviewer: Raúl J J Andrade

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In this manuscript, Inno et al. present a case of anastrozole induced acute liver injury with mild titer of antinuclear antibodies. The authors conclude that anastrozole can cause liver injury through an immune mechanism. The case report is well documented and interesting since only two cases of hepatotoxicity attributed to the compound have been previously reported. The main problem is that the discussion regarding the mechanisms potentially involved in anastrozole-related hepatic injury is not focused enough.

General suggestions to consider for improving the manuscript are as follow:

1. Abstract: the first 3 lines of the conclusions are speculative and should be removed.

2. Case description: normal values for liver enzymes should be listed. The mild dilatation of intrahepatic bile ducts elicited by abdominal ultrasound and CT scan would suggest an obstructive process in biliary tract. Why did the authors not perform another imaging technique to rule out this possibility? Please, explain.

3. Discussion: this subsection needs to be more focused. Rather than general comments on the several mechanisms and underlying pathways leading to drug-induced liver injury, a detailed comparison with the other two reports published is necessary. Besides, comments on the most specific finding of this case report, the presence of antinuclear antibodies that disappeared upon normalization of liver enzymes as compared with other typical instances of hepatotoxicity with autoimmune features (i.e. minocycline, nitrofurantoin.,) is also advisable. Autoimmune like DILI is a controversial and poorly understood issue. A recent article that could help shed light on this area is available (Hepatology 2010; 51:2040-2048).

Level of interest: An article whose findings are important to those with closely related research interests

Quality of written English: Needs some language corrections before being published

Statistical review: No, the manuscript does not need to be seen by a statistician.
Declaration of competing interests:

I declare that I have no competing interests