Reviewer's report

Title: Acute-on-chronic liver failure due to methimazole in a patient with hyperthyroidism and trilogy of Fallot: case report

Version: 1 Date: 11 July 2010

Reviewer: Raúl J J Andrade

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This manuscript describes a case report of fatal liver failure associated with methimazole in a patient with pre-existing liver disease presumably related to hyperthyroidism and/or Fallot trilogy. The case is interesting and the paper is well-written, and nicely discussed with useful information.

Specific comments
The background’s abstract is incompletely ended (missing words).
In the introduction the terms toxic hepatitis and cholestatic jaundice are little informative. What do they mean?
In case’s description the authors state that a lymphocyte stimulation test for methimazole was positive. Please, provide more details on how the test was performed. Also more detailed information on the final outcome leading to death should be provided.
The authors discuss thoroughly the potential implication of thyroidal and cardiac patient’s condition as causes of pre-existing liver disease. However, they do not discuss the fact that chronic liver disease in this patient was unknown until the acute episode.
The final statement on the need of physician awareness about the fact “MMI-induced acute liver injury in the setting of chronic advanced fibrosis increases the risk of poor outcome due to the impairment of hepatic regeneration”, rather a particular recommendation, should actually be a general attitude in this setting.

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