Reviewer’s report

Title: Sunitinib-induced severe toxicities in Japanese patient with the ABCG2 421 AA genotype

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Reviewer: Ghanshyam Upadhyay

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In the present manuscript authors have presented a case study suggesting ABCG2 polymorphism could be a reason for higher rate of sunitinib-related toxicities in Asians than in non-Asians and that the pharmacogenetic factors should be considered when suspected adverse drug reactions occur severely and promptly with sunitinib. They have tried to discuss it on the basis of available literature to make their point; however, some concerns should be addressed.

1. Abstract should be rewritten.
2. Background part should be extended to include information’s about the investigated genes, their polymorphism and roles in sunitinib toxicities.
3. Authors should discuss role of ABCG2 polymorphism on mechanistic basis. It seems that the results and discussion section are compilation of facts rather than mechanism. It could be because authors are presenting a case study, discussing results in light of mechanistic aspect will strengthen the paper.

Level of interest: An article of importance in its field

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:

None