

PEER-REVIEW REPORT

Name of journal: World Journal of Clinical Cases

Manuscript NO: 61722

Title: Genetic mutations of sensitivity to neoadjuvant chemotherapy in metastatic colon cancer: an evidence-based case report and literature review

Reviewer's code: 03468910

Position: Editorial Board

Academic degree: PhD

Professional title: Assistant Professor, Surgeon

Reviewer's Country/Territory: Italy

Author's Country/Territory: China

Manuscript submission date: 2020-12-26

Reviewer chosen by: Ya-Juan Ma

Reviewer accepted review: 2021-03-01 15:01

Reviewer performed review: 2021-03-02 08:42

Review time: 17 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input checked="" type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

The topic of this manuscript falls within the scope of World Journal Clinical Cases. Advancements in next generation sequencing (NGS) can provide more precise prognosis for cancer patients and help to guide clinical treatment. The Authors present a relatively rare case of stage IV colon cancer with liver metastases with APC/TP53/KRAS mutations, who showed a good therapeutic response to continuous 12 courses ofXELOX regimens combined with Bevacizumab. And five genes with seven detected SNPs were identified to better response to chemotherapy drugs. This manuscript is very interesting. It is well written. Discussion is well organized. Complete the References.

PEER-REVIEW REPORT

Name of journal: World Journal of Clinical Cases

Manuscript NO: 61722

Title: Genetic mutations of sensitivity to neoadjuvant chemotherapy in metastatic colon cancer: an evidence-based case report and literature review

Reviewer's code: 00058381

Position: Editorial Board

Academic degree: MD

Professional title: Professor

Reviewer's Country/Territory: Austria

Author's Country/Territory: China

Manuscript submission date: 2020-12-26

Reviewer chosen by: Ya-Juan Ma

Reviewer accepted review: 2021-03-02 04:07

Reviewer performed review: 2021-03-02 12:19

Review time: 8 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input checked="" type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

This manuscript deals with prediction of response to neoadjuvant chemotherapy for liver metastases from colon cancer; however, further studies will be needed to evaluate the significance of different SNPs and to optimize the identification of promising candidates for various treatment regimens. Additional Comments: The title ("High sensitivity mutations to neoadjuvant chemotherapy in a patient with liver metastasis of colon cancer: an evidence-based case report and literature review") should be improved. Some passages require clarification/correction; e.g., "History of present illness": "The patient have no obviously symptoms like any pain or other discomfort"; "Literature selection and assessment", first paragraph: "Generally, in this study, due to the lack of direct evidence of "gene mutations on sensitivity to neoadjuvant chemotherapy", we regarded as a sensitivity to neoadjuvant chemotherapy if a published record reported a good prognosis no matter whether all the participants were totally received the treatments of adjuvant chemotherapy"; "Discussion", second paragraph: "However, the genetic mutations and SNPs that predict high sensitivity to neoadjuvant chemotherapy is in patients with metastatic colorectal cancer remain unclear", "Discussion", third paragraph: "From the evidence of literature review, we could found that KRAS[19-24], TP53[25-33], and APC[34] are potentially related to poor prognosis after chemotherapy or surgery, and so is the mutational status of SMAD4[35, 36], which were out of eight mutations detected in the patient". Reference list: In parts, the format of the references is not consistent with the guidelines of the journal. Figure legend 1 should be more informative (and, moreover, power of magnification and staining technique should be added). Figure 3 and Table 1: "Fankel" -> "Frankel". Table 2: "mutation/Mb" (obviously a misprint in the abstract by Lin et al.) -> "mutations/Mb"; "to longer OS" -> "to longer OS."; "highly expression of mRNA related to immune response" -> "high expression...". Table 3: "for a patients with..." -> "for



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patients with..."; "conclusions" -> "conclusions."; "genotype, But comparing" -> "genotype,
but comparing"; "relate a poor OS" -> "relate to a poor OS".

RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: World Journal of Clinical Cases

Manuscript NO: 61722

Title: Genetic mutations of sensitivity to neoadjuvant chemotherapy in metastatic colon cancer: A case report and literature review

Reviewer's code: 00058381

Position: Editorial Board

Academic degree: MD

Professional title: Professor

Reviewer's Country/Territory: Austria

Author's Country/Territory: China

Manuscript submission date: 2020-12-26

Reviewer chosen by: Le Zhang (Online Science Editor)

Reviewer accepted review: 2021-06-01 06:32

Reviewer performed review: 2021-06-01 11:17

Review time: 4 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input checked="" type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS



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Comments on the revised manuscript: I am sorry to see that this manuscript has not been revised sufficiently; some passages still could not be clarified; e.g., "At the meantime, in these including studies, due to the lack of the direct evidence on "genetic mutations of sensitivity to platinum-based neoadjuvant chemotherapy", we regarded as a genetic mutations of sensitivity to neoadjuvant chemotherapy when a published record showed a good prognosis no matter whether all patients were received the adjuvant chemotherapy". The authors will require help with the linguistic/stylistic problems (probably the language editors did not check the last version). Figure legend 1 has not become more informative. NB: Conclusion: "the small sample size is a obviously limitation" -> the small sample size is an obvious limitation (or: the small sample size is obviously a limitation); page 6, first paragraph: "predicators of the effectiveness..." -> predictors of the effectiveness...