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PEER-REVIEW REPORT

Name of journal: *World Journal of Clinical Cases*

Manuscript NO: 77190

Title: Myeloproliferative Neoplasms Complicated with β-thalassemia: Report on Two Cases and Review of the Literature

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05430684
Position: Peer Reviewer
Academic degree: MD, MSc, PhD
Professional title: Chief Doctor
Reviewer's Country/Territory: Greece
Author's Country/Territory: China

Manuscript submission date: 2022-04-28

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-06-04 16:02

Reviewer performed review: 2022-06-06 19:27

Review time: 2 Days and 3 Hours

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [ ] Grade C: Good [Y] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[ ] Grade A: Priority publishing [Y] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [ ] Accept (General priority) [ ] Minor revision [Y] Major revision [ ] Rejection
Re-review	[Y] Yes [ ] No

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Peer-reviewer statements	Peer-Review: [ ] Anonymous [Y] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

I studied carefully the manuscript entitled "Myeloproliferative Neoplasms Complicated with β-thalassemia: Report on Two Cases and Review of the Literature" by Xu NW and Li LJ. The manuscript is a report of two cases of simultaneous presence of a myeloproliferative neoplasm (MPN) with beta thalassemia minor. Moreover, another six cases are summarized in a narrative way. The topic is quite interesting for the specialized hematologist. The main hypothesis beyond the two reported cases is that thalassemia could affect MPN clinical course. However, some queries have to be discussed with the authors before considering publication. Major queries 1) Abstract: Though attractive, the conclusion that "MPN complicated with beta thalassemia can lead to rapid disease progression and poor prognosis" is not more than a hypothesis, as evidence to judge for or against still lack. The authors are at least prompted to amend "suggest" for "hypothesize". 2) Introduction: Sickling disorders are not thalassemias. The authors are strongly recommended to rephrase the sentence "Thalassemia is one of the most common monogenic diseases worldwide, which includes alpha and β forms and sickling disorders". 3) Case presentation: The joint presentation of the two cases used by the authors is unfamiliar to most readers. The two cases could be better be presented separately. 4) Discussion: Splenomegaly is not a definite clinical characteristic of thalasemia minor (see: Ntaios G, Chatzinikolaou A. The spleen in beta thalassaemia minor: splenomegaly or just 'scanomegaly'? Br J Haematol. 2008 Oct;143(1):143. doi: 10.1111/j.1365-2141.2008.07306.x. Epub 2008 Jul 28. PMID: 18665837). The authors are encouraged to discuss and clarify this issue.

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Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 04729411
Position: Peer Reviewer
Academic degree: MD
Professional title: Associate Professor
Reviewer's Country/Territory: Iran
Author's Country/Territory: China

Manuscript submission date: 2022-04-28

Reviewer chosen by: Dong-Mei Wang

Reviewer accepted review: 2022-06-16 16:03

Reviewer performed review: 2022-06-16 16:55

Review time: 1 Hour

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[ ] Grade A: Priority publishing [Y] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [ ] Accept (General priority) [Y] Minor revision [ ] Major revision [ ] Rejection
Re-review	[ ] Yes [Y] No

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Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

Dear Authors, Thank you for sharing your experience. As you can find my comments on your manuscript file, there are two points which should be corrected: 1- In the introduction you wrote:" Thalassemia is one of the most common monogenic diseases worldwide, which includes alpha and β forms and sickling disorders. " But Sickle cell anemia is not part of thalassemia syndrome, you may consider Sickle-thalassemia as a subtype of thalassemia. 2- In the presentation of case one which was a female, you wrote: "The karyotype showed 46 normal chromosomes, including XY chromosomes, in 20 cells (Fig. 1c)." But as shown in the Figure 1C, patient has 46XX chromosomes not XY!

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RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: *World Journal of Clinical Cases*

Manuscript NO: 77190

Title: Myeloproliferative Neoplasms Complicated with β-thalassemia: Report on Two Cases and Review of the Literature

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05430684
Position: Peer Reviewer
Academic degree: MD, MSc, PhD
Professional title: Chief Doctor
Reviewer's Country/Territory: Greece
Author's Country/Territory: China

Manuscript submission date: 2022-04-28

Reviewer chosen by: Ji-Hong Liu

Reviewer accepted review: 2022-07-26 04:54

Reviewer performed review: 2022-07-27 21:33

Review time: 1 Day and 16 Hours

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[Y] Grade A: Priority publishing [ ] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [Y] Accept (General priority) [ ] Minor revision [ ] Major revision [ ] Rejection
Peer-reviewer	Peer-Review: [ ] Anonymous [Y] Onymous

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statements	Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

I re-reviewed the manuscript entitled "Myeloproliferative Neoplasms Complicated with β-thalassemia: Report on Two Cases and Review of the Literature" by Xu N and Li L. The authors responded to all queries raised and performed all necessary corrections. Since the two cases presented are characterized by originality and the core message is sound, the manuscript could be considered as acceptable for publication upon Editor's priorities.