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PEER-REVIEW REPORT

Name of journal: World Journal of Clinical Cases

Manuscript NO: 61630

Title: Allogeneic hematopoietic stem cell transplantation in a 3-year-old boy with congenital pyruvate kinase deficiency: A case report

Reviewer's code: 05481282
Position: Peer Reviewer
Academic degree: MD
Professional title: Doctor
Reviewer's Country/Territory: China
Author's Country/Territory: China

Manuscript submission date: 2020-12-14
Reviewer chosen by: AI Technique
Reviewer accepted review: 2020-12-16 01:21
Reviewer performed review: 2020-12-24 03:39
Review time: 8 Days and 2 Hours

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish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) [Y] Accept (General priority) [ ] Minor revision [ ] Major revision [ ] Rejection
Re-review	[ ] Yes [Y] No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

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SPECIFIC COMMENTS TO AUTHORS

Pyruvate kinase deficiency is a kind of rare disease with limited therapeutic options and is currently treated mainly by blood transfusion support. PKD is a disease characterized by hemolytic anemia, and splenectomy is one of the effective treatments for transfusion-dependent patients aged 5 to 6 years or older. The 3-year-old patient reported in this paper had more severe anemia, was obvious transfusion-dependent, and was much younger. The author's team boldly borrowed from the treatment ideas of thalassemia and choose non-blood allogeneic hematopoietic stem cell transplantation to effectively help the patient overcome transfusion dependency, which provides new ideas for clinical treatment of this kind of patients and has a high meaning of practical reference. Therefore, I recommend acceptance of this manuscript.

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PEER-REVIEW REPORT

Name of journal: World Journal of Clinical Cases

Manuscript NO: 61630

Title: Allogeneic hematopoietic stem cell transplantation in a 3-year-old boy with congenital pyruvate kinase deficiency: A case report

Reviewer's code: 01564123
Position: Editorial Board
Academic degree: PhD
Professional title: Professor
Reviewer's Country/Territory: Spain
Author's Country/Territory: China

Manuscript submission date: 2020-12-14

Reviewer chosen by: Li Ma

Reviewer accepted review: 2020-12-15 05:46

Reviewer performed review: 2021-01-04 01:22

Review time: 19 Days and 19 Hours

Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] 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) [ ] Minor revision [Y] Major revision [ ] Rejection
Re-review	[Y] Yes [ ] No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

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SPECIFIC COMMENTS TO AUTHORS

The manuscript presented by Ma et al. reports a clinical case of an allogeneic hematopoietic transplant of a 3-year old child affected with Pyruvate Kinase Deficiency. The results presented are good and the patient seems to be recovered after a 6-month follow up. The paper is a good case to be published as a case report in World Journal of Clinical Cases. However, some improvements need to be addressed before being ready for publication. Major points The manuscript includes only a table with the analytics of the patients at birth, 12-days-old and 2-months-old, with very short information about the last two times. A more extensive information about the analytics, as well as other clinical analyses should be included. Moreover, in this table or in an additional one data about the pre-transplant situation of the patient and the follow up after transplantation (1 month, 2 month and 6 month post-transplant, or so) should be included as well. A detailed discussion of this additional table should be included in the results chapter In the discussion chapter, a long text discussing the potential similarities between PKD and Thalassemia in included. This part is not clearly written and should be rephrased and re-oriented. The name of the patient appears in different parts of the text. Taking into account the rules of the Data Protection Act in the different countries, the name and any information related with the personal identification of the patient and relatives should be removed from the text. In general, the whole text needs to be improved because there are many language mistakes, typing errors. In addition, the case presentation should be written in past tense. Now, the text is a mixture of present and past. Minor points Data are reflected in different units at different parts of the text. Hemoglobin is shown as g/dL and also as g/L. Thus, units should be homogenized as the most common use, g/dL in the opinion of this reviewer. HS are capitals that have not been expanded.