

## PEER-REVIEW REPORT

**Name of journal:** *World Journal of Transplantation*

**Manuscript NO:** 77425

**Title:** Vitamin D deficiency may predispose patients to increased risk of kidney transplant rejection

**Provenance and peer review:** Unsolicited manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 05573866

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Assistant Professor

**Reviewer's Country/Territory:** Egypt

**Author's Country/Territory:** Turkey

**Manuscript submission date:** 2022-04-29

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-04-29 11:47

**Reviewer performed review:** 2022-05-06 16:19

**Review time:** 7 Days and 4 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input 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 Grade E: Do not publish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
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

<b>Peer-reviewer statements</b>	Peer-Review: [ <input checked="" type="checkbox"/> ] Anonymous [ <input type="checkbox"/> ] Onymous Conflicts-of-Interest: [ <input type="checkbox"/> ] Yes [ <input checked="" type="checkbox"/> ] No
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## SPECIFIC COMMENTS TO AUTHORS

Authors investigated the association between the serum 25(OH) vitamin D, as and immunomodulatory factor can predispose transplant recipients to rejection and chronic allograft nephropathy rates. The current manuscript is interesting and well-structured. However, there are numerous comments and questions the authors should address, all were detailed below: Major concerns; • Authors didn't specify the inclusion criteria for selecting patients included in this study. • In page 6: authors mentioned " Biopsy specimens were considered adequate if they had  $\geq 10$  glomeruli and two arteries; patients with inadequate biopsy specimens were excluded from the study". What was the number of patients that were excluded due to defective specimens? • Did their data were removed from all results? • Did their number were considered from the totally excluded patients that they didn't meet the inclusion criteria? • Section of materials and methods: showed no details about the detection kits used for estimation of all biochemical parameters? • What was the criteria for selecting donors for kidney transplantation? • No key words

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**Reviewer's code:** 03761355

**Position:** Editorial Board

**Academic degree:** FASN, FRCP, MD

**Professional title:** Professor

**Reviewer's Country/Territory:** United States

**Author's Country/Territory:** Turkey

**Manuscript submission date:** 2022-04-29

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-04-29 11:11

**Reviewer performed review:** 2022-05-07 22:39

**Review time:** 8 Days and 11 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
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<b>Peer-reviewer statements</b>	Peer-Review: [ <input checked="" type="radio"/> ] Anonymous [ <input type="radio"/> ] Onymous Conflicts-of-Interest: [ <input type="radio"/> ] Yes [ <input checked="" type="radio"/> ] No
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## SPECIFIC COMMENTS TO AUTHORS

In this single center retrospective study (n=52), the authors evaluated the association between vitamin D deficiency and risk for kidney transplant rejection. In multivariable analysis, vitamin D deficiency was not found to be an independent predictor of kidney transplant rejection. Overall, the manuscript is written well. I have the following comments/critiques: 1. There have been previous studies that tried to answer the same question. So the concept is not novel. Main limitation of the current study is the retrospective design and small sample size. 2. Why were patients in the first year of transplant excluded? Most of the acute rejections usually happen during the first year after transplant. 3. What time point was vitamin D level measured? How many patients were on vitamin D replacement? 4. It was not surprising to see that serum phosphorus and PTH levels were higher in rejection group since those patients had lower GFR which can stimulate PTH release and reduce renal phosphorus clearance.