

## PEER-REVIEW REPORT

**Name of journal:** World Journal of Clinical Cases

**Manuscript NO:** 48393

**Title:** A novel frameshift mutation causes early termination of the TBG protein and complete thyroxine-binding globulin deficiency in a Chinese family-a case report

**Reviewer's code:** 03648962

**Position:** Editorial Board

**Academic degree:** MD, MPhil, PhD

**Professional title:** Assistant Professor, Doctor

**Reviewer's country:** Pakistan

**Author's country:** China

**Reviewer chosen by:** Ying Dou

**Reviewer accepted review:** 2019-06-11 10:15

**Reviewer performed review:** 2019-06-11 10:22

**Review time:** 1 Hour

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language	(High priority)	<input type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
<input type="checkbox"/> Grade E: Do not	language polishing	<input type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input type="checkbox"/> No

## SPECIFIC COMMENTS TO AUTHORS



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This is a very well written paper and discusses a novel mutation.

#### **INITIAL REVIEW OF THE MANUSCRIPT**

##### ***Google Search:***

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No

##### ***BPG Search:***

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No

## PEER-REVIEW REPORT

**Name of journal:** World Journal of Clinical Cases

**Manuscript NO:** 48393

**Title:** A novel frameshift mutation causes early termination of the TBG protein and complete thyroxine-binding globulin deficiency in a Chinese family-a case report

**Reviewer's code:** 04093850

**Position:** Editorial Board

**Academic degree:** MSc, PhD

**Professional title:** Assistant Professor

**Reviewer's country:** India

**Author's country:** China

**Reviewer chosen by:** Ying Dou

**Reviewer accepted review:** 2019-06-14 03:58

**Reviewer performed review:** 2019-06-17 16:03

**Review time:** 3 Days and 12 Hours

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input checked="" type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Accept	<input type="checkbox"/> Onymous
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<input type="checkbox"/> Grade E: Do not	language polishing	<input checked="" type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input checked="" type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

## SPECIFIC COMMENTS TO AUTHORS

Authors have described a novel frameshift mutation in the TBG protein leading to complete thyroxine-binding globulin deficiency. As a clinical case it explains why genome sequencing is important to address certain clinical cases. Instead of sequencing only a segment of TBG gene, complete gene should have been sequenced. The case report submitted by Dang et al. discusses a novel frameshift mutation in the TBG protein leading to complete thyroxine-binding globulin deficiency. There are certain clarifications and changes required as mentioned below. Upon satisfactory response this manuscript may be accepted.

1. You have provided the details of instruments used in the material and method section only. Provide the details of all kits used for different estimations in the methodology section also.
2. It is clear that due to the loss of thyroxine binding sites in the truncated protein there is reduction in TT3 and TT4 levels, but the truncated protein (with first 134 amino acids) should have been detected by the kit since this mutation is not leading to complete abolishment of protein synthesis as reported in earlier literature for other mutations. Is it due to no secretion or due to the possibility that antibody which is used in the kit to detects TBG protein binds in the truncated region for detection, hence no detection of TBG at all. <3.5 ug/ml seems like a speculation only, where the truncated remains if it is not secreted into blood. Provide satisfactory explanations in the discussion section.
3. In line 210 you have used the word "mutation" along with "TBG-Poly (L283F)" which is technically incorrect. L283F is polymorphism so remove the word mutation.

## INITIAL REVIEW OF THE MANUSCRIPT

### *Google Search:*

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism



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[ Y ] No

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[   ] Duplicate publication

[   ] Plagiarism

[ Y ] No