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**https://** www.wjgnet.com

## PEER-REVIEW REPORT

**Name of journal:** World Journal of Nephrology

**Manuscript NO:** 45003

**Title:** Static pressures, intra-access blood flow and dynamic Kt/V profiles in the prediction of dialysis access function.

**Reviewer's code:** 00503176

**Reviewer's country:** Croatia

**Science editor:** Ying Dou

**Date sent for review:** 2018-12-14

**Date reviewed:** 2018-12-14

**Review time:** 1 Hour

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input checked="" 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 checked="" type="checkbox"/> Anonymous
<input checked="" 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 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

I have only two comments that, in my opinion, require a minor revision of the manuscript. 1. Legends to Figures 1 and 2 are too minimalistic. Legend to Figure 1. should have at least a brief description of this "screenshot". Figure 2 Legend should have

a brief explanation of what exactly is shown (what do the curves represent and how were they obtained). 2. The claim of "inverse U" relationship..is not really supported here. Namely, what the graphical representation tends to show is that is quadratic relationship between intra-access blood flow and arterial or venous pressure and that this is so in the full cohort, normal  $kt/v$  and abnormal  $kt/V$ . To make such a claim, a regression model would need to be fitted to the dependent value "intra-access blood flow" with the quadratic arterial pressure (fixed effects: arterial pressure, arterial pressure\*arterial pressure) and so on - in order to test "linear fit" and "quadratic fit". Otherwise..these figures may serve as a visual informatoin, but no claims about "inverse U-shape" relationship should be made. Figure 2 - should include further subsets - all those factor for which the text states "no correlation" (in fact, you are not looking for correlation, strictly speaking, you are looking at "association" - and in fact you need regression models to include both the linear and quadratic effects) - should be included. So that one could have display of all facts that are mentioned in the text. The finding of "no association" in this setting is equally as important as "association". TABLE 2 - shold show UNADJUSTES (univariate) and ADJUSTED (multivariate) associations as ORs with 95% CI. Table footnote should explain the models.

## INITIAL REVIEW OF THE MANUSCRIPT

### *Google Search:*

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

### *BPG Search:*



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- [ Y ] No



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## PEER-REVIEW REPORT

**Name of journal:** World Journal of Nephrology

**Manuscript NO:** 45003

**Title:** Static pressures, intra-access blood flow and dynamic Kt/V profiles in the prediction of dialysis access function.

**Reviewer's code:** 00503279

**Reviewer's country:** Qatar

**Science editor:** Ying Dou

**Date sent for review:** 2018-12-14

**Date reviewed:** 2018-12-16

**Review time:** 4 Hours, 2 Days

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
<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 checked="" type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input checked="" type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

### SPECIFIC COMMENTS TO AUTHORS

The topic this manuscript dealing with is nice. But there are some concerns. First use of the abbreviation. Spell it out in brackets such as PA and PV you mentioned then in the results. The following sentence in the discussion needs to be more clear (Additionally,

the UV absorbance method cannot measure urea as a single solute. It utilizes the high correlation between urea concentration and UV absorbance in spent dialysate to estimating urea parameters. While the UV-absorbance correlates well to the concentration of small solutes such as urea, ).Lastly your references are a little old (the newest one 2011), please for some fresh references.

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

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

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

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

- ☐ The same title
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- ☐ No



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## PEER-REVIEW REPORT

**Name of journal:** World Journal of Nephrology

**Manuscript NO:** 45003

**Title:** Static pressures, intra-access blood flow and dynamic Kt/V profiles in the prediction of dialysis access function.

**Reviewer's code:** 00503286

**Reviewer's country:** Romania

**Science editor:** Ying Dou

**Date sent for review:** 2018-12-14

**Date reviewed:** 2018-12-17

**Review time:** 8 Hours, 3 Days

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
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<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

The paper "Static pressures, intra-access blood flow and dynamic Kt/V profiles in the prediction of dialysis access function" should be published in this journal, after the minor formal corrections with the editor.

## INITIAL REVIEW OF THE MANUSCRIPT

### *Google Search:*

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

### *BPG Search:*

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