



PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 38897

Title: PERIOPERATIVE THROMBOPROPHYLAXIS IN LIVER TRANSPLANT PATIENTS

Reviewer's code: 00921744

Reviewer's country: Netherlands

Science editor: Xue-Jiao Wang

Date sent for review: 2018-03-26

Date reviewed: 2018-03-26

Review time: 9 Hours

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	<input checked="" type="checkbox"/> Accept	Peer-Review:
<input checked="" type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" 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

Well written and comprehensive review on the hemostatic changes in patients with cirrhosis and consequences for thromboprophylactic therapy. I agree with the authors' conclusions and statements and have minor suggestions for further improvement: 1)



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Although the concept of rebalanced hemostasis is well explained, a reference to the original description of this theory is missing and could be included (Blood. 2010 Aug 12;116(6):878-85) 2) In the abstract and on page 8 the authors mention the procoagulant changes in fibrin structure and platelet hyperreactivity. These prohemostatic features, however, do not appear in table 1, and I feel this should be harmonised. 3) I object to the reasoning that Child C patients have protein C levels similar to those found in patients with congenital protein C deficiency and therefore have a higher thrombotic risk. The thrombotic risk of the Child C cirrhosis is not and cannot be attributable to protein C deficiency only, or to a 'protein C/FVIII' imbalance. What matters is the net effect of all hemostatic changes (which is a normal to enhanced thrombin generating capacity), which is the resultant of all changes (including also decreases in antithrombin levels). Please rephrase. 4) On page 10, it could also be mentioned that the observation that preoperative PVT increases the risk for post-operative HAT could indicate a role for hypercoagulability in post-transplant HAT (HPB (Oxford). 2016 Mar;18(3):279-86). 5) At the end of the section on viscoelastic tests it is mentioned that the sensitivity of TEG and ROTEM to the protein C pathway has not been studied - this is somewhat misleading. There are no protein C activators in relevant concentrations in whole blood, and therefore a clear limitation of VETs is absence of activation of the protein C pathway. This should be more clearly stated. 6) In the section on role of thromboprophylaxis it is stated that 'After LT, patients may be hypercoagulable because of an imbalance between coagulation and fibrinolytic mechanisms'. It think it has been established that after LT (and also after partial hepatectomy), patients are hypercoagulable because of enhanced thrombin generating capacity, despite prolongations in the PT (J Hepatol. 2010 Mar;52(3):355-61, Anaesthesia. 2016 Jun;71(6):657-68, Aliment Pharmacol Ther. 2015 Jan;41(2):189-98). I think it should also be more clearly stated that thromboprophylaxis should not be withheld on basis of post-operative prolonged PT values, as in reality



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coagulation is hyperactive. 7) In the section on low molecular weight heparin, the first sentence is inaccurate (LMWH inhibits FXa by enhancing antithrombin activity towards Xa). I don't understand the 'to a lesser extent, augments antithrombin III activity'.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

- The same title
- Duplicate publication
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- No

BPG Search:

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PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 38897

Title: PERIOPERATIVE THROMBOPROPHYLAXIS IN LIVER TRANSPLANT PATIENTS

Reviewer's code: 03017551

Reviewer's country: Poland

Science editor: Xue-Jiao Wang

Date sent for review: 2018-03-26

Date reviewed: 2018-03-30

Review time: 4 Days

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 checked="" type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input checked="" 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

In summary assessment - current topics, practical aspects and problem very clearly presented.



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INITIAL REVIEW OF THE MANUSCRIPT

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PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 38897

Title: PERIOPERATIVE THROMBOPROPHYLAXIS IN LIVER TRANSPLANT PATIENTS

Reviewer's code: 02860895

Reviewer's country: Japan

Science editor: Xue-Jiao Wang

Date sent for review: 2018-03-25

Date reviewed: 2018-04-03

Review time: 9 Days

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input checked="" type="checkbox"/> Accept	Peer-Review:
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			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

This is a masterpiece review article, in which past reports concerning thromboprophylaxis in liver transplant were almost perfectly collected from comprehensive point of view and sufficiently assessed to be reconstructed as a firm



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doctrine. I can't raise any criticisms except for a few minor points, such as reuse of a technical term after definition of the abbreviation. Congratulations!

INITIAL REVIEW OF THE MANUSCRIPT

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BPG Search:

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Name of journal: World Journal of Gastroenterology

Manuscript NO: 38897

Title: PERIOPERATIVE THROMBOPROPHYLAXIS IN LIVER TRANSPLANT PATIENTS

Reviewer's code: 03311932

Reviewer's country: Mexico

Science editor: Xue-Jiao Wang

Date sent for review: 2018-03-26

Date reviewed: 2018-04-04

Review time: 9 Days

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
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			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

It is an interesting paper. Unfortunately, there is a lack of information regarding bibliography search methodology and for reviewers strategy of assignments. The paper can not be qualified even as a narrative review. It is mandatory to include a



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properly described review methodology.

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