

ESPS Peer-review Report

Name of Journal: World Journal of Gastroenterology

ESPS Manuscript NO: 3411

Title: New insights in bilirubin metabolism and their clinical consequences

Reviewer code: 00742205

Science editor: Wen, Ling-Ling

Date sent for review: 2013-04-28 21:19

Date reviewed: 2013-05-20 05:12

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
<input type="checkbox"/> Grade A (Excellent)	<input type="checkbox"/> Grade A: Priority Publishing	Google Search:	<input type="checkbox"/> Accept
<input type="checkbox"/> Grade B (Very good)	<input type="checkbox"/> Grade B: minor language polishing	<input type="checkbox"/> Existed	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C (Good)	<input type="checkbox"/> Grade C: a great deal of language polishing	<input type="checkbox"/> No records	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D (Fair)	<input type="checkbox"/> Grade D: rejected	BPG Search:	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E (Poor)		<input type="checkbox"/> Existed	<input type="checkbox"/> Major revision
		<input type="checkbox"/> No records	

COMMENTS TO AUTHORS

This is a well-written review article with only a few minor concerns. 1. page 4 2nd paragraph: Recent data have ---. However, two references were published almost 20 years ago. 2. GS is an important contributing factor to breast milk jaundice which should be mentioned. 3. page 8 paragraph 2 ---excretion of total coproporphyrin -- it should be coproporphyrin 4. DS shows typical biphasic BSP levels in blood which should be mentioned. 5. page 10 PBC should be spelled-out the first time.

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Title: New insights in bilirubin metabolism and their clinical consequences

Reviewer code: 00006675

Science editor: Wen, Ling-Ling

Date sent for review: 2013-04-28 21:19

Date reviewed: 2013-05-21 21:34

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
<input type="checkbox"/> Grade A (Excellent)	<input type="checkbox"/> Grade A: Priority Publishing	Google Search:	<input type="checkbox"/> Accept
<input type="checkbox"/> Grade B (Very good)	<input checked="" type="checkbox"/> Grade B: minor language polishing	<input type="checkbox"/> Existed	<input type="checkbox"/> High priority for publication
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COMMENTS TO AUTHORS

This is a very interesting review on the molecular mechanisms involved in the liver handling of bilirubin and in the associated genetic diseases as well as in cholestasis. The paper is clearly written and contains valuable information. Major comments: 1. In the last paragraph of page 3 and the initial one in page 4, the authors have mentioned the carriers involved in conjugated bilirubin transport and the role of mouse orthologues of OATPs in bilirubin uptake, however a reference regarding the ability of human forms of these transporters to carry out the uptake of unconjugated and conjugated bilirubin is missing (see Briz et al., Biochem. J. (2003) 371, 897-905). 2. Although the review would improve its clarity by a scheme on transport and metabolic processes, this should be accurate and complete. The text and Figure 1 is misleading and must be corrected. The expression of MRPs at the basolateral membrane is quite low under physiological circumstances and hence the relevance of the intra-parenchymal cycle of bilirubin is unclear. 3. Figure 1. Please check the nomenclature and spelling of conjugated bilirubin. 4. ABCG2 is shown in Figure 1 but its role in bilirubin transport is not mentioned/cited in the text.

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Title: New insights in bilirubin metabolism and their clinical consequences

Reviewer code: 02447096

Science editor: Wen, Ling-Ling

Date sent for review: 2013-04-28 21:19

Date reviewed: 2013-05-27 18:10

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
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COMMENTS TO AUTHORS

The review by Sticova et al. reports an interesting review about bilirubin metabolism and possible clinical consequences. The authors well reviewed the importance of bilirubin and the new role as something else than an end product of haeme breakdown. In addition, they showed an extensive review of multiple syndromes that cause a hyperbilirubinemia. The review is well written and details a well conducted study. A few suggestions to the authors: 1. Page 4 line 5: (Figure). Needs to indicate Figure 1 2. Page 4 line 29: "the Bolibian population". Bolibian doesn't need capital letter. 3. Page 5 line 2: "anion excretion defect (TR -/-), Eizai hyperbilirubinemia rats (EHBR), mutant Corriedale, and Mrp2 (-/-) mice.....". The authors must change , by ; 4. Page 10 line 29: "identified. Furthermore....". Is necessary an space 5. Page 10 line 30: "has been identified..". The authors must eliminate a point. 6. Conclusions and perspectives: Is necessary indicated the corresponded bibliography that supports the explications and must be more extended.

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