

ESPS Peer-review Report**Name of Journal:** World Journal of Clinical Pediatrics**ESPS Manuscript NO:** 7635**Title:** Transfusion related morbidity in premature babies: possible mechanisms and implications for practice**Reviewer code:** 00061486**Science editor:** Ling-Ling Wen**Date sent for review:** 2013-11-27 21:10**Date reviewed:** 2013-12-07 01:58

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
<input checked="" 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 checked="" type="checkbox"/> Major revision
		<input type="checkbox"/> No records	

COMMENTS TO AUTHORS

A review highlighting the pathologies often seen in the hospitalized neonatal population and the possible relationship to iron load and oxidative stress caused by blood transfusion, especially by older stored RBCs. This review is hyper-focused on iron overload only to its detriment. It is not a thorough review of the multiple putative cellular mechanisms at work in the RBC transfusion "storage lesion," and therefore we highly recommend a thorough re-write. Either the author clearly states that the paper is to focus on iron-related cellular mechanisms of transfusion, and rearrange the paper to reflect this focus; or he needs to vastly expand his review.

ESPS Peer-review Report**Name of Journal:** World Journal of Clinical Pediatrics**ESPS Manuscript NO:** 7635**Title:** Transfusion related morbidity in premature babies: possible mechanisms and implications for practice**Reviewer code:** 00506006**Science editor:** Ling-Ling Wen**Date sent for review:** 2013-11-27 21:10**Date reviewed:** 2014-02-16 02:56

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
<input type="checkbox"/> Grade A (Excellent)	<input checked="" type="checkbox"/> Grade A: Priority Publishing	Google Search:	<input checked="" type="checkbox"/> Accept
<input checked="" 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	<input type="checkbox"/> No records	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D (Fair)	language polishing	BPG Search:	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E (Poor)	<input type="checkbox"/> Grade D: rejected	<input type="checkbox"/> Existed	<input type="checkbox"/> Major revision
		<input type="checkbox"/> No records	

COMMENTS TO AUTHORS

i read the paper on pc transfusions in preterm neonates with specific emphasis on oxidative stress with great interest. This is a well written review, and I have no additional comments.

ESPS Peer-review Report

Name of Journal: World Journal of Clinical Pediatrics

ESPS Manuscript NO: 7635

Title: Transfusion related morbidity in premature babies: possible mechanisms and implications for practice

Reviewer code: 00672275

Science editor: Ling-Ling Wen

Date sent for review: 2013-11-27 21:10

Date reviewed: 2014-02-23 01:20

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
<input type="checkbox"/> Grade A (Excellent)	<input checked="" type="checkbox"/> Grade A: Priority Publishing	Google Search:	<input checked="" type="checkbox"/> Accept
<input checked="" 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	<input type="checkbox"/> No records	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D (Fair)	language polishing	BPG Search:	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E (Poor)	<input type="checkbox"/> Grade D: rejected	<input type="checkbox"/> Existed	<input type="checkbox"/> Major revision
		<input type="checkbox"/> No records	

COMMENTS TO AUTHORS

In his work, Keith Collard reviews the problem of transfusion related morbidity in premature babies focussing on the possible link between transfusion-mediated iron overload and oxidative stress and the ability of premature babies to deal with such a situation. Indeed, adverse outcomes in babies who have received blood stored for greater than 14 days have been observed, possibly due to heme/redox active iron/free radicals content in paediatric packed cell units which increases with storage age. The conclusion of this interesting review is that premature babies appear to be poorly equipped to deal with any form of heme and iron overload and subsequent iron induced oxidative stress, indicating a urgent need to perform appropriate clinical studies to evaluate the link between the time of blood storage and the complications of prematurity in premature babies receiving blood transfusions. I think that the review of Dr. Collard is well written and adds to the field, and I strongly suggest its publication in World Journal of Clinical Pediatrics. I only recommend an editing correction: in the text (page 6), the citation relative to the reference 57 (Sloan, 2011) is not reported with the citation number.