



ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Clinical Pediatrics

ESPS manuscript NO: 22144

Title: Facility-based constraints to exchange transfusions for neonatal hyperbilirubinemia in resource-limited settings

Reviewer's code: 00742205

Reviewer's country: United States

Science editor: Xue-Mei Gong

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CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	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"/> The same title	<input type="checkbox"/> High priority for publication
<input checked="" type="checkbox"/> Grade C: Good		<input type="checkbox"/> Duplicate publication	
<input type="checkbox"/> Grade D: Fair	<input checked="" type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Plagiarism	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade E: Poor		<input checked="" type="checkbox"/> No	<input type="checkbox"/> Minor revision
	<input type="checkbox"/> Grade D: Rejected	BPG Search:	<input checked="" type="checkbox"/> Major revision
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input checked="" type="checkbox"/> No	

COMMENTS TO AUTHORS

Mabogunje et al reviewed the commonly experienced hurdles that prevent immediate performance of exchange transfusion in low- and middle-income countries. These problems are not unexpected even in developed countries decades ago. The information may be familiar to most senior neonatologist in developed countries but will be new to younger generation. With the new curriculum in global health program many doctors in training will face the issue when provide their service in the resource-limited countries. This review provides good and thorough description that can help young doctors to prepare themselves for the potential situations. Unfortunately no good solution was provided by this review but intensive phototherapy can by some time when immediate solution is not available. Another important message provided by the authors is the fact that G-6-PD deficiency is one of the most common causes of hemolytic jaundice in the resource-limited countries which is a situation that O-negative blood is probably not necessary for the exchange transfusion. However, G-6-PD deficiency usually will not cause severe hemolysis unless the baby is exposed to free radicals generating drug or chemicals. How to avoid the chemicals or drugs that cause acute



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hemolysis should be addressed. Although the authors did raise the concern that low blood count may delay the exchange transfusion but it should not be a concern since the risk of anemia is far less important than the severe jaundice. It is apparent that most of the problems that prevent exchange transfusion to be done in a timely manner in resource-limited countries cannot be resolved without appropriate improvement in the economic environment and governmental investment. With limited resource available we do hope experts in this field can come up with good idea such as the filtered sunlight phototherapy that can buy some time for the physicians. The paper is relatively well-written but not without grammatical errors and inadequate use to words. To point out a few

1. Page 3: The procedure is not risk-free as it is commonly associated with complications such as sepsis, electrolyte imbalance, air embolism, portal vein thrombosis, cardiac overload, ---. It is actually not very common if the performer is well-trained. The use of cardiac overload will be better change into fluid overload.
2. Page 5: --- the attending staff well trained to provide the best possible care for the affected infants preparatory to ET. The word attending should be taken out.
3. Page 5: Additionally, mother's blood may also not be available on-time because of critical illness or the mother is on admission in another hospital. Does it mean "in-time"? Also, the mother is admitted in another hospital.
4. Page 5: Difficulties may also be encountered where the mother is unavailable due to premature death. Why describe the mother's death as "premature death"?



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<input type="checkbox"/> Grade B: Very good	<input type="checkbox"/> [Y] Grade B: Minor language polishing	<input type="checkbox"/> The same title	<input type="checkbox"/> [] High priority for publication
<input type="checkbox"/> [Y] Grade C: Good		<input type="checkbox"/> Duplicate publication	
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Plagiarism	<input type="checkbox"/> [] Rejection
<input type="checkbox"/> Grade E: Poor		<input type="checkbox"/> [Y] No	<input type="checkbox"/> [] Minor revision
	<input type="checkbox"/> Grade D: Rejected	BPG Search:	<input type="checkbox"/> [] Major revision
		<input type="checkbox"/> The same title	
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		<input type="checkbox"/> Plagiarism	
		<input type="checkbox"/> [Y] No	

COMMENTS TO AUTHORS

Well thought subject with an adequate review and relevant conclusions.



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<input type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> The same title	<input type="checkbox"/> High priority for publication
<input checked="" type="checkbox"/> Grade C: Good		<input type="checkbox"/> Duplicate publication	
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		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input checked="" type="checkbox"/> No	

COMMENTS TO AUTHORS

The authors review several clinical guidelines for the management of infants with severe neonatal hyperbilirubinemia recommend immediate exchange transfusion (ET) when the risk or presence of acute bilirubin encephalopathy (ABE) is established to prevent chronic bilirubin encephalopathy or kernicterus. The topic is very interesting and the manuscript is well written, but there are repetitions and some parts, like metabolism of the bilirubin are not highlighted. This part should be more expanded with a schema. It does not seem that there are Grammar mistakes and misspellings, although some words seem to be not correctly selected.



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		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input checked="" type="checkbox"/> No	

COMMENTS TO AUTHORS

The manuscript is a well-written situational review regarding logistic problems in the service of exchange transfusion in the resources limited condition. Although it sounds more like a social than a scientific paper, I believe the review would help the reader understand the root causes of delayed service provision in low-income countries (LICs). - May I suggest that the potential solutions of the problem that is a very important part of this paper be composed as Table-2. - The paper seems to be a health system management or health economics. It might be good to show some figures about financial, investment cost or unit cost in this ET matter. - A couple of photo of typical ET facility in the LICs may interest some readers who are not able to imagine the hospital in Africa. Please donot worry about my suggestion. The paper is good as is and worth publishing. However, to the reader's point of view, it might be more interesting if you could add some points.