

ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Critical Care Medicine

ESPS manuscript NO: 21989

Title: Use of venous-to-arterial carbon dioxide tension difference to guide resuscitation therapy in septic shock

Reviewer's code: 02454185

Reviewer's country: China

Science editor: Shui Qiu

Date sent for review: 2015-08-06 09:51

Date reviewed: 2015-08-06 14:34

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

COMMENTS TO AUTHORS

This is a timely review to give readers an overview of clinical values of delta-Pa-vCO₂ in patients with septic shock. It is generally well written. I have several small suggestions for this review. 1. Between the first and second paragraphs of the introduction, there is a transition from SvO₂ to ScvO₂, but without any specifications. As we all know, the latter is a good substitute of the former, but these two do not measure the same thing. Therefore, some lines specifying that the two have similar clinical meaning should be added. 2. High/normal ScvO₂ may be a result of disturbances in tissue oxygen extraction, this point should be clearly stated in the third paragraph of INTRODUCTION. In discussing the lactate clearance as an end point for resuscitation. Additional citations may be of interests: (1. Intensive Care Med. 2015 Jul 8. Early lactate clearance-guided therapy in patients with sepsis: a meta-analysis with trial sequential analysis of randomized controlled trials. 2. Crit Care Med. 2014 Sep;42(9):2118-25. BMJ Open. 2014 May 23;4(5):e004752. 3. I appreciate figure 4 very much. I think this decision tree is of great value for clinicians and should be highlighted. 4. I think the clinical study section should highlight three main points: 1) as the authors have already well



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described, the $P[v - a]CO_2$ is highly correlated with cardiac output; 2) variations in $P[v - a]CO_2$ is associated with clinical outcomes such as mortality, ICU length of stay or days free of organ failure; 3) $P[v - a]CO_2$, when used as a resuscitation endpoint, should be associated with improved outcomes.