

Format for ANSWERING REVIEWERS

September 18, 2013

Dear Editor,

Please find enclosed the edited manuscript in Word format (file name: 5015-edited.docx).



Title: Extracorporeal Membrane Oxygenation for Pediatric Respiratory Failure: History, Development and Current Status

Author: Anna Maslach-Hubbard, Susan Bratton

Name of Journal: *World Journal of Critical Care Medicine*

ESPS Manuscript NO: 5015

The manuscript has been improved according to the suggestions of reviewers:

1. Format has been updated
2. Core Tip section added
3. Revision has been made according to the suggestions of the reviewers:

Reviewer 1.

- (1) Section on use of CRRT during ECMO support rewritten, including comments on findings by Wolf et al (Early Renal Replacement Therapy During Pediatric Cardiac Extracorporeal Support Increases Mortality. *Ann Thorac Surg*. 2013; 96: 917-22 [PMID: 23915590])
- (2) Clarification of statistical analysis in section comparing rate of bleeding from cannula site on VA (15%) versus VV support (19%). According to authors analysis this difference reached statistical significance of $p < 0.05$.
- (3) Section on early rehabilitation rewritten based on suggested publications by: Thiagarajan RR et al and Golej J et al and other publications.
- (4) References on importance of VILI prevention included. Unfortunately opinions and practices Regarding optimal recruitment strategy (higher PEEP – open lung strategy vs. recruitment maneuvers) as well as targeted TV (use of low TV \leq than 6 ml/kg accepted strategy) during mechanical ventilation of patient on ECMO varies greatly between institutions. There is no consistent data on superiority of one technique over another, very often depends on patient condition and clinical judgment.

Reviewer 2.


- (1) Abstract was shortened as suggested by reviewer to 266 words. Section of abstract on daily management of patients on ECMO reduced as all details are provided within the text of manuscript.
- (2) More detailed section on anticoagulation added, mainly based on recent publication by Bombea et al: Variability in Anticoagulation Management of Patients on Extracorporeal Membrane Oxygenation: An International Survey. *Pediatric Critical Care Medicine* 2013
- (3) Re: suggestion of reducing headline: "Care of Pediatric Respiratory Failure ECMO Patients". We

could decrease to just " Care of Pediatric ECMO Patients", but by including "Respiratory failure" part we were hoping to direct attention to specific care issues related to ECMO support of patients with respiratory failure (e.g. importance of reducing VILI by appropriate mechanical ventilation strategies)

4. References and typesetting were corrected

Thank you again for publishing our manuscript in the *World Journal of Critical Care Medicine*.

Sincerely,



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