Reviewer’s report

Title: A 95 year-old suffering circulatory arrest after accidental hypothermia: a case report

Version: 0 Date: 30 Jul 2017

Reviewer: Samuel Tisherman

Reviewer's report:

General comments: The authors have described the case of a 95 yo patient who presented with cardiac arrest from exposure hypothermia and was treated with cardiopulmonary bypass (CPB). This seems remarkable, but it's really not clear what to take away from this case. The patient had apparently been living independently. He suffered the cardiac arrest in the ambulance and immediately was treated with high quality CPR based upon the fact that his eyes opened and he raised his arms during resuscitation. His potassium level was low. The authors actually didn't know his age when they decided to institute CPB. Except for age, however, he had many favorable findings suggesting possible benefit of CPB in this situation. Therefore any institution with a CPB program would have seriously considered using CPB for resuscitation in this situation, recognizing that additional information could later lead to consideration for withdrawal of CPB and other life-sustaining therapies. Why is the case report being submitted more than 3 years after the event?

Specific comments:

Page 4, last para: what does the term "uneasy" mean in describing the patient's presentation?

Page 5, last para: "costa" should be "rib". "Habitual" should be "baseline".

Discussion: it's not clear what a 2% survival statistic for out of hospital cardiac arrest in nonagenarians means for the small subset of cardiac arrests caused by hypothermia.

Are the methods appropriate and well described?
Yes

Does the work include the necessary controls?
Yes

Are the conclusions drawn adequately supported by the data shown?
Yes

Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.
Quality of written English
Please indicate the quality of language in the manuscript:

Needs some language corrections before being published

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I am co-author of a patent for "Emergency Preservation and Resuscitation Method"

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