Reviewer's report

Title: Regulation of urinary bladder function by protein kinase C in physiology and pathophysiology

Version: 0 Date: 21 Aug 2015

Reviewer: Fabrizio Presicce

Reviewer's report:

This review has the merit to collect the main evidence about regulation of urinary bladder function by protein kinase C (PKC) in physiology and pathophysiology. In particular the authors highlight the importance of PKC for muscle force maintenance associated with bladder emptying and its limited contribution to the peak amplitude of the contractile response in physiological condition. Furthermore in pathological bladder models PKC seems associated with DO, reduced contractility, and decreased void volume. I want to suggest only two revisions about this manuscript. This interesting review elucidates the role of PKC biochemical pathways in the complex physiology and pathophysiology of bladder and could help to develop further drugs for bladder dysfunction. Therefore, considering just this last aspect, I would recommend a paragraph of this review mainly focused on the role of PKC in human bladder, although knowing that most of the studies have been conducted on animal models. In this way we could carry the basic sciences evidence towards a more clinical scenario.Furthermore I suggest the authors to introduce the Methods section between background and discussion to better explain the characteristic of this review (i.e not systematic) and the adopted evidence acquisition system, possibly using a flow diagram.

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

No

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.

Yes

Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.

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.

Not relevant to this manuscript

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Please indicate the quality of language in the manuscript:  
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