Reviewer’s report

Title: Systematic Review of Nephrotoxicity of Drugs of Abuse, 2005-2016

Version: 0 Date: 17 May 2017

Reviewer: Bernard Jaar

Reviewer's report:

I read with interest the manuscript by Dr. Mansoor et al. This is a comprehensive review of drugs of abuse related nephrotoxicity. The authors reviewed the topic from the English literature using PubMed/Medline from 2005 to 2016 and provide detailed nephrotoxic effects of different illicit drugs of abuse.

Please find below specific comments.

Background:

- It needs to be shortened. It needs to be to the point of nephrotoxicity rather than an exhaustive review of the epidemiologic data of drugs of abuse.

Methods:

- Under Search strategy - please identify by their initials the two qualified healthcare professionals who conducted the literature search.

- In the manuscript, the authors report that they searched PuMed. Did they search other databases? No one database can search all the medical literature. What about Medline, EMBASE, Cochrane Central, …?

- Phrases and MESH terms used for the search could be more comprehensive and also include the following: acute tubular necrosis, acute interstitial nephritis, …

- Under Study Inclusion criteria - please identify by their initials the two independent reviewers who evaluated the abstracts. Are these the same reviewers who did the literature search?
Results:

- Authors could consider reporting the kidney biopsy findings in the discussion section under each separate drug of abuse and be more descriptive of the kidney biopsy findings.

- In the section, it would be good to summarize the findings reported in the tables, particularly tables 1 and 2.

Discussion:

- In the text, please make sure that references are cited in order.

- Some abbreviations need to be defined. For example, HR, CDC, PICU under "Opioids".

- The authors report a direct effect of methadone on the muscle tissue. Please provide a better description of this possible direct effect of methadone on muscles.

- Typo under cocaine for Colombia and not Columbia.

- Provide references for information on cocaine such as "cocaine seizures have increased …" and "The per gram price of cocaine surged …".

Conclusion: very nicely written.

I hope these few comments will help the authors improve on their interesting manuscript and I thank the editor for entrusting my opinion.
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?
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Not relevant to this manuscript

Quality of written English
Please indicate the quality of language in the manuscript:

Acceptable

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

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