

## Peer Review Report

# Review Report on Global epidemiological features of human monkeypox cases and their associations with social-economic level and international travel arrivals: A systematic review and ecological study

Review, Int J Public Health

Reviewer: Luiz Fernando Machado

Submitted on: 01 Nov 2022

Article DOI: 10.3389/ijph.2023.1605426

### EVALUATION

#### **Q 1** Please summarize the main theme of the review.

The manuscript provides a review of the epidemiological characteristics of human monkeypox cases, correlating with sociodemographic and travel information. The topic is current and of great importance for the whole world, which can serve as a reference for further studies.

#### **Q 2** Please highlight the limitations and strengths.

The authors did not describe the limitations of the study. In my opinion, the authors should focus more on the discussion between the characteristics of epidemics that occurred before 2022 and that occurred in 2022, especially with regard to the population of men who have sex with men. This is the main cause of curiosity for the reader of the review.

#### **Q 3** Please provide your detailed review report to the authors, structured in major and minor comments.

I would like to thank you for the opportunity to review the manuscript that deals with a systematic review on Global epidemiological features of human monkeypox. The manuscript is well written but needs some minor tweaks to be published. Here are my suggestions:

#### Major comments

- Authors should add information on the occurrence and distribution of monkeypox clades to the results and the correlation with epidemiological characteristics.
- Is there no MSM proportion information before 2022? If so, put it in the results and discussion, in addition to table 1.
- Add the limitations of the study to the discussion.

#### minor comments

- In Abstract: a) as a result, exchanging homosexuals for men who have sex with men (MSM); b) What is the proportion of MSM before 2022? Add to results.
- The conclusion is not adequate in responding to the objectives of the study. The authors speak of a high-risk population, but at no point is this discussed or clearly stated in the study results.
- authors must review the text punctuation
- after putting the abbreviation MSM in full, leave only the abbreviation.
- when authors refer to homosexuals, they must make it clear that they are MSM. My suggestion is to replace homosexual with MSM

- Lines 28-29: the sentence "Human monkeypox was announced as Public Health Emergency of International Concern, spreading across 106 as of 21September 2022" is meaningless. To review.
- In table 1, in Clinical characteristics, is the Comorbidity rate (%) = 18 studies in 2022?
- In figures 3 and 4 you need to put the letters A and B in the legend for better understanding of the reader

**PLEASE COMMENT**

**Q 4** Does the reference list cover the relevant literature adequately and in an unbiased manner?

Appropriate

**Q 5** Does this manuscript refer only to published data? (unpublished data is not allowed for Reviews)

Yes.

**Q 6** Does the manuscript cover the issue in an objective and analytical manner

Yes.

**Q 7** Was a review on the issue published in the past 12 months?

Yes.

**Q 8** Does the review have international or global implications?

This review could have a major impact worldwide as it has important epidemiological information on human cases of monkeypox since the 1970s.

**Q 9** Is the title appropriate, concise, attractive?

Appropriate

**Q 10** Are the keywords appropriate?

Appropriate

**Q 11** Is the English language of sufficient quality?

Need a review

**Q 12** Is the quality of the figures and tables satisfactory?

Yes.

**QUALITY ASSESSMENT**

**Q 13** → Quality of generalization and summary

**Q 14** → Significance to the field

**Q 15** → Interest to a general audience

**Q 16** → Quality of the writing

**REVISION LEVEL**

**Q 17** → Please take a decision based on your comments:

Minor revisions.