

Certificate of Biostatistics

21 May 2020

To whom it may concern

Title of Study: Clinical characteristics of initial symptoms presented with gastrointestinal symptoms of patients with coronavirus disease 2019: retrospective case series

Chief investigator: Hongliang Wang, Department of Critical Care Medicine, The Second Affiliated Hospital of Harbin Medical University, Harbin, Heilongjiang, China

This letter is to confirm that I have read the ethics application prepared for this study, and that in my opinion the statistical methods and techniques mentioned are appropriate for the research.

Please contact me if you have any queries.

Sincerely, *Jingwei Li*

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