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**Sample-size estimation**

* You should state whether an appropriate sample size was computed when the study was being designed
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* If no explicit power analysis was used, you should describe how you decided what sample (replicate) size (number) to use

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This was a retrospective analysis of data collected during the first wave of the SARS-CoV-2 epidemic in the UK, and so sample size calculations were not carried out. Analysis was required before the occurrence of any further waves of the epidemic, and limited information on the characteristics of nosocomial transmission outbreaks were available at this point in time.

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* You should report how often each experiment was performed
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This was an analysis of observational epidemiological and viral genetic data. Replication would only be possible through the analysis of datasets from different hospitals or for subsequent waves of the SARS-CoV-2 epidemic.

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* Statistical analysis methods should be described and justified
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This manuscript deals with the development of novel statistical methodology, which is summarised in the Methods section with some details in the Appendix. We have described the output of the proposed algorithm as clearly as possible within the text of the Results and the captions of Tables 1-2 and Figures 1-2.

(For large datasets, or papers with a very large number of statistical tests, you may upload a single table file with tests, Ns, etc., with reference to sections in the manuscript.)

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* Indicate how samples were allocated into experimental groups (in the case of clinical studies, please specify allocation to treatment method); if randomization was used, please also state if restricted randomization was applied
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This manuscript describes retrospective observational data from patients without any kind of allocation of treatment or intervention.

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Figures 1 and 2