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COVID-19 Transmission

Sites of Entry

Phylogenetic analysis revealed that the SARS-CoV-2 virus probably evolved from the bat SARS-like CoV (bat-SL CoVZC45, MG772933.1) virus.

Probable aircraft transmission of Covid-19 in-flight from the Central African Republic to France ¹⁾.

Estimates of case counts in Wuhan based on assumptions of 100% detection in travellers could have been underestimated by several fold. Furthermore, severity estimates will be inflated several fold since they also rely on case count estimates. Finally, our model supports evidence that underdetected cases of COVID-19 have probably spread in most locations around the world, with greatest risk in locations of low detection capacity and high connectivity to the epicentre of the outbreak ²⁾.

1)

Eldin C, Lagier JC, Mailhe M, Gautret P. Probable aircraft transmission of Covid-19 in-flight from the Central African Republic to France. Travel Med Infect Dis. 2020 Apr 1:101643. doi: 10.1016/j.tmaid.2020.101643. [Epub ahead of print] PubMed PMID: 32247016.

2)

Niehus R, De Salazar PM, Taylor AR, Lipsitch M. Using observational data to quantify bias of travellerderived COVID-19 prevalence estimates in Wuhan, China. Lancet Infect Dis. 2020 Apr 1. pii: S1473-3099(20)30229-2. doi: 10.1016/S1473-3099(20)30229-2. [Epub ahead of print] PubMed PMID: 32246905.

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