# **Evaluation of risk-based travel policy for the COVID-19 epidemic**

## in Scotland: a population-based surveillance study

## **Supplementary Material**

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# **Figure S1. Assessing correlation between data sources informing on international travel frequency.** Weekly numbers of passengers arriving into Scotland (based on Border Control Passenger Locator Forms) and international travel events (based on COVID-19 PCR-test surveillance data).



# **Figure S2. Demographic and geographic distributions of total COVID-19 cases and sequenced COVID-19 cases in Scotland.** Distributions are shown by (a) age, (b) sex, (c) NHS Board of residence, and (d) Scottish Multiple Index of Deprivation (SIMD) of NHS Board residence; an increasing score reflects decreasing deprivation. NA refers to laboratory records that were not linkable to the factor of interest by postcode.



**Figure S3**. **Comparing longitudinal trends in weekly frequency of international travel by Scottish residents across data sources.** January 2019 to March 2022. BC = Border Control (Passenger Locator Forms); CAA = Civil Aviation Authority; PCR test = SARS-CoV-2 tested individuals with a recent international travel event.



**Figure S4. Assessing the impact of the traffic light system on travel frequency in Scotland.** (a) Summary of Red-Amber-Green list designations in each week of the traffic light period shown for the top 30 most frequently visited countries (as determined based on COVID-19 PCR-tested Scottish residents). (b) Weekly numbers of passengers into Scotland retrospectively applying Red-Amber-Green (RAG) group classifications from the traffic light period to the travel destinations in Civil Aviation Authority and Passenger Locator Form datasets, to compare periods spanning pre-and-post introduction of the traffic light system.



Figure S5. Demographic and geographic distributions of Scottish residents with an international travel even within 14-days of requesting a COVID-19 PCR-test, w/c 15<sup>th</sup> February 2021 to w/c 24<sup>th</sup> April 2022. Distributions are shown by (a) age-sex, (b) Scottish Multiple Index of Deprivation; SIMD (an increasing score reflects decreasing deprivation), and (c) by NHS Board of residence.



**Figure S6. Proportion of PCR-confirmed SARS-CoV-2 cases who had undergone whole genome sequencing and classified infected with a SARS-CoV-2 Variant of Concern.** Data are shown from travellers to top-30 destinations during periods of Alpha, Delta, and Omicron dominance.



Figure S7. Epidemic curve of dominant SARS-CoV-2 Variants of Concern identified by whole genome sequencing in the Scottish population during the study period (15<sup>th</sup> February 2021 to 3<sup>rd</sup> May 2022).