## **Supplementary materials**

**Supplementary Material 8.** Association between four quantiles for composite deprivation index and regional vaccination rate of SARS-CoV-2 in (A) all and (B)  $\geq$ 75 years old population as the number of vaccination on December 23, 2021. †Vaccination rate was calculated as the number of SARS-CoV-2 vaccination completed subjects divided by the number of participants to SARS-CoV-2 vaccination.

