**Supplementary Table 1.** PICO (Participants, Interventions, Control, Outcomes) criteria was used for the inclusion and exclusion of screened studies.

|  |  |  |
| --- | --- | --- |
| **PICO** | **Inclusion criteria** | **Exclusion criteria** |
| **Participants** | COVID-19 positive diagnosis or/and level of severity of the disease | Participants with other infectious diseases and COVID-19 negative patients. |
| **Interventions** | Genotyping, sequencing, GWAS, WES,… | No genotype data |
| **Control** | COVID-19 negative or positive diagnosis or general population | No genotype data |
| **Outcomes** | SARS-CoV-2 infection, SARS-CoV-2 related comorbidities, requiring treatment in an intensive care unit, death | Other outcomes not related with SARS-CoV-2 infection |

PICO: Participants, Interventions, Control, Outcomes; COVID-19: Coronavirus disease 19; GWAS: genome-wide association study; WES: whole exome sequencing; SARS-CoV-2: severe acute respiratory syndrome-2.