# Captions for supplementary material

## **Appendix**

APPENDIX 1: COMET Consortium

APPENDIX 2: Pa-COVID-19 Study Group

## **Data Supplement**

### SUPPLEMENTAL FIGURES

Supplemental Figure 1.: Comparison of allele frequencies in data sets

Supplemental Figure 2. Comparison of frequencies in data sets with the population wide frequencies.

Supplemental Figure 3. Principal component analysis based on SNP genotyping data.

Supplemental Figure 4. Principal component analysis based on SNP genotyping data after removing the outliers (2nd round).

Supplemental Figure 5. Comparison of the meta-log-OR calculated in the original meta-analysis (x-axis) and the meta-analysis including only individuals with sequenced exomes

Supplemental Figure 6. Association between alleles and intubation / ICU status stratified by reported country of origin in data set 1(DS1)

Supplemental Figure 7. Association between alleles and intubation / ICU status stratified by reported ethnicity in data set 3 (DS3)

Supplemental Figure 8. a)Association of CRP levels with the presence of the HLA-C\*04:01 allele, intensive care unit status and intubation status in DS1.

Supplemental Figure 8. b) Association between the presence of the HLA C\*04:01 allele stratified by ICU / intubation status.

### SUPPLEMENTAL TABLES

Supplemental Table 1. Summary statistics

Supplemental Table 2. Summary of number of alleles for data sets

Supplemental Table 3. Top five results for the association of human leukocyte antigen (HLA) alleles with admission to the intensive care unit (ICU) and intubation with BMI as additional covariate.

Supplemental Table 4. Top five results for the association of human leukocyte antigen (HLA) alleles with admission to the intensive care unit (ICU) and intubation after removing the Sevilla cohort.

Supplemental Table 5. Results of the association test between SNP-derived PCs and ICU status, intubation status and presence of the HLA C\*04:01 allele.

Supplemental Table 6. Associations for viral load with HLA alleles in DS1

Supplemental Table 7. Top 25 HLA alleles with the lowest number of binding peptides.

Supplemental Table 8. Association between HLA C\*04:01 status and diverse clinical variables.

## **Supplemental Files**

## Supplemental File 1: Metadata

Supplemental File 2: List of studies included in the meta-analysis

Supplemental File 3: Linkage disequilibrium-metrics (D’,r2) for all SNPs from 1KG EUR which are within 500kb of the HLA-C gene