Supplementary Figure 1 **Association of pH and age with calcium** levels. **A** pH levels in hypocalcaemic and normocalcaemic patients **B** Calcium levels according to age group

Supplementary Figure 2 Calcium levels in patients with COVID-19, CAP or VP according to disease severity. Calcium levels at presentation in patients with mild, moderate and severe disease as defined for each subgroup (see methods). Red line represents median, ns= not significant, ** p<0.01, **** p<0.001

Supplemental Figure 3 Paired calcium and Vitamin D levels in patients with mild versus severe COVID-19 disease. Calcium levels at presentation, and paired Vitamin D levels measured within three days of a positive SARS-CoV-2 PCR positive result. Red line represents median, ns= not significant, ** p<0.01,