Supplemental Information
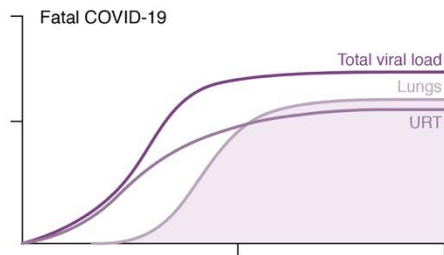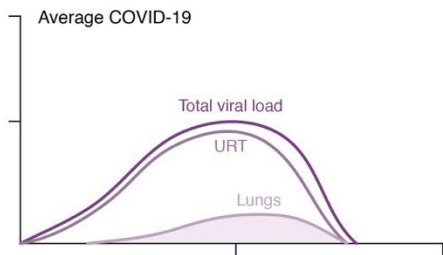
Adaptive immunity to SARS-CoV-2 and COVID-19

Alessandro Sette and Shane Crotty

A. Viral loads

Average COVID-19

Total viral load
URT
Lungs

Fatal COVID-19

Total viral load
Lungs
URT

B. Innate immunity

Innate immune responses

Virus
Blood
Local tissue

C. T cell responses

Total virus-specific T cells
CD4⁺ T cells
CD8⁺ T cells

D. Antibodies
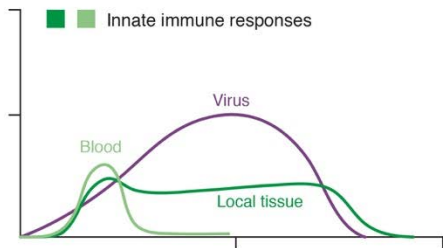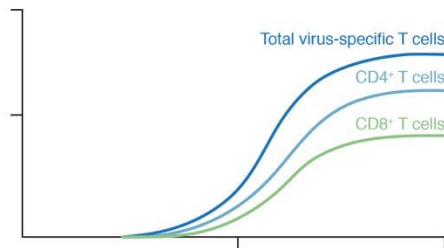
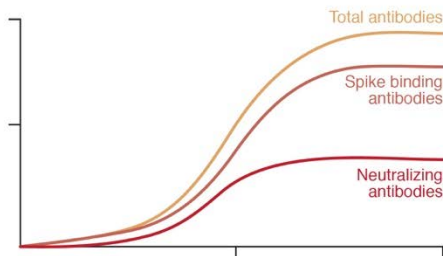Total antibodies
Spike binding antibodies
Neutralizing antibodies

Figure S1. Model elaborations

(A) Conceptual schematics of viral loads, elaborated to represent both URT and lungs.

(B) Innate immune responses, elaborated to represent both blood (serum/plasma) cytokines/chemokines and local tissue innate immune responses, in an average case of COVID-19.

(C) T cell responses, elaborated to individually show virus-specific CD4+ T cells and CD8+ T cells, in an average case of COVID-19.

(D) Antibody responses, elaborated to show binding antibodies and neutralizing antibodies, in an average case of COVID-19.