SUPPLEMENTARY INFORMATION

Neutralizing antibody titres in SARS-CoV-2 infections

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Supplementary Table 1. Characteristics of patients tested by plaque reduction neutralization tests (PRNT) and spike receptor binding domain ELISA.

|                      | All patients (n=195) | PRNT Patients with multiple samples for PRNT_{50} and PRNT_{90} (n=70) | All patients (n=150) | ELISA Patients with multiple samples for ELISA (n=55) |
|----------------------|----------------------|------------------------------------------------------------------------|----------------------|-----------------------------------------------------|
| **N (%)**            | **N (%)**            | **N (%)**                                                               | **N (%)**            | **N (%)**                                           |
| **Age (y)**          |                      |                                                                        |                      |                                                     |
| ≤15                  | 42 (22%)             | 9 (13%)                                                                | 6 (4%)              | 0 (0%)                                              |
| 16-60                | 119 (61%)            | 44 (63%)                                                              | 110 (73%)           | 39 (71%)                                            |
| >60                  | 34 (17%)             | 17 (24%)                                                              | 34 (23%)            | 16 (29%)                                            |
| **Male**             | 118 (61%)            | 38 (54%)                                                              | 92 (61%)            | 29 (53%)                                            |
| With underlying conditions | 49/194 (25%)    | 16 (23%)                                                              | 45 (30%)            | 15 (27%)                                            |
| Antiviral treatment  | 100 (51%)            | 42 (60%)                                                              | 92 (61%)            | 38 (69%)                                            |
| Corticosteroid treatment | 12 (6%)         | 7 (10%)                                                               | 12 (8%)             | 7 (13%)                                             |
| **Worst condition**  |                      |                                                                        |                      |                                                     |
| Severe               | 13 (7%)              | 9 (13%)                                                               | 13 (9%)             | 9 (16%)                                             |
| Mild                 | 151 (77%)            | 52 (74%)                                                              | 128 (85%)           | 45 (82%)                                            |
| Asymptomatic         | 31 (16%)             | 9 (13%)                                                               | 9 (6%)              | 1 (2%)                                              |
| Age groups | Severe | Mild | Asymptomatic |
|------------|--------|------|--------------|
| ≤15        | 0 (0%) | 24 (16%) | 18 (58%) |
| 15-60      | 3 (18%) | 104 (69%) | 12 (29%) |
| >60        | 10 (82%) | 23 (15%) | 1 (3%) |
| Total      | 13 (100%) | 151 (100) | 31 (100%) |

Supplementary Table 2: Severity by age
Supplementary Table 3: Sera tested and positive by PRNT and ELISA stratified by days after onset of illness

| Days after onset* | PRNT | Spike RBD ELISA |
|------------------|------|-----------------|
|                  | No tested | PRNT90 No (%) positive | PRNT50 No (%) positive | No tested | No (%) positive |
| 0-7              | 35     | 11 (31%)         | 12 (34%)              | 9         | 2 (22%)         |
| 8-14             | 24     | 21 (88%)         | 23 (96%)              | 13        | 9 (69%)         |
| 15-21            | 15     | 15 (100%)        | 15 (100%)             | 14        | 14 (100%)       |
| 22-28            | 11     | 11 (100%)        | 11 (100%)             | 10        | 10 (100%)       |
| 29-60            | 93     | 91 (98%)         | 93 (100%)             | 84        | 84 (100%)       |
| 61-90            | 54     | 54 (100%)        | 54 (100%)             | 43        | 43 (100%)       |
| 91-150           | 35     | 34 (97%)         | 34 (97%)              | 16        | 32 (100%)       |
| 151-209          | 26     | 26 (100%)        | 26 (100%)             | 26        | 26 (100%)       |

* For asymptomatic individuals, days after first positive RT-PCR result.
Supplementary figure 1. Correlation between PRNT<sub>90</sub> and ELISA (left) and PRNT<sub>50</sub> and ELISA (right) in COVID-19 patients (n=231 pairs)