**Supplementary Information**

**Full title:** Blood purification in severe and critical COVID-19 patients: a case series of 5 patients

**Running title:** Blood purification for COVID-19

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**Supplementary Information:**

**Supplementary Figures**

**Supplementary Table S1**

**Supplementary Figures**

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**Figure S1. The individual variations of clinical parameters before and after blood purification**

(A) The individual variations of FiO2 value, PO2 value, PCO2 value in the patients before and after blood purification treatment. (B) The individual variations of LYMPH (%), LYMPH and WBC (109/L) in the peripheral blood of the patients before and after blood purification treatment. (C) The individual variations of proinflammatory cytokines (IL-2, IL-4, IL-6, IL-10, TNF-α, IFN-γ) in the peripheral blood of the patients before and after blood purification treatment.

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**Figure S2. The individual variations of biochemical parameters before and after blood purification**

(A) The individual variations of AST, ALB, HGB and ALT in the patients before and after blood purification treatment. (E) The individual variations of SCR and BUN in the patients before and after blood purification treatment. (F) The individual variations of BNP, TNT, MYO in the patients before and after blood purification treatment. The data were shown as violin diagrams. All the data were shown as Mean±SEM (N=5 individuals). \*, P<0.05; \*\*, P<0.01; NS, not significant.”

**Supplementary Table S1**

**Table S1 The choice of CRRT pattern on solute scavenging**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Pattern | Convection | Dispersion | substitution fluid | dialysis solution |
| SCUF | + | - | 0 | 0 |
| CVVH | +++ | - | ++++ | 0 |
| CVVHD | + | +++ | 0 | ++++ |
| CVVHDF | ++ | ++ | ++ | ++ |