

Supplementary results

Table S1. The demographic and clinical characteristics per patient

Patient	Admission diagnosis	Age, yrs	Sex	BMI , kg/ m ²	ICU, days	IMV, days	NMBA, hours	Steroids (Y/N)	CRP, mg/L
Covid-ICU patients									
1	Covid-19	78	Male	27.1	3	3	0	No	122
2	Covid-19	74	Male	34.6	12	12	288	No	359
3	Covid-19	64	Male	29.1	8	5	120	No	612
7	Covid-19	67	Male	30.9	0	0	0	Yes	55
8	Covid-19	60	Male	NA	NA	NA	NA	NA	NA
9	Covid-19	41	Male	23.9	68	48	0	Yes	349
10	Covid-19	74	Male	33.3	37	37	96	Yes	339
11	Covid-19	72	Male	25.2	13	13	120	Yes	304
26	Covid-19	74	Male	26.3	31	30	0	Yes	194
27	Covid-19	68	Female	28.0	26	26	624	No	266
28	Covid-19	75	Male	25.2	8	7	47	No	258
29	Covid-19	76	Male	26.0	24	24	0	Yes	332
30	Covid-19	73	Male	37.0	41	41	240	Yes	262
31	Covid-19	63	Male	31.4	49	49	104	Yes	310
32	Covid-19	71	Male	27.0	8	8	0	No	473
33	Covid-19	65	Male	26.0	9	2	0	Yes	308
34	Covid-19	60	Female	27.0	24	24	0	No	421
35	Covid-19	71	Male	NA	0	0	0	No	NA
36	Covid-19	73	Male	25.0	12	12	0	Yes	347
37	Covid-19	78	Male	26.0	17	17	0	No	195
38*	Covid-19	75	Female	28.0	13	13	0	No	300
39	Covid-19	61	Male	23.0	20	7	0	No	342

40	Covid-19	61	Male	37.0	14	14	0	Yes	469
41	Covid-19	61	Female	33.0	8	8	95	No	438
42	Covid-19	45	Female	29.4	11	11	41	No	406
43*	Covid-19	66	Male	22.4	7	5	40	No	162
44	Covid-19	73	Female	27.5	30	30	20	Yes	274
Control-ICU patients									
Sepsis after stem cell									
12	transplantation	65	Male	23.9	12	12	0	Yes	535
Sepsis after acute									
15	myeloid leukemia	64	Female	26.0	21	21	0	Yes	536
16	Influenza Pneumonia	66	Male	21.8	7	0	0	Yes	73
Sepsis after stem cell									
17	transplantation	67	Male	20.9	12	12	288	Yes	330
18	Influenza Pneumonia	51	Male	23.4	4	3	0	Yes	312
19	Pulmonary hemorrhage	72	Female	NA	NA	1	0	No	NA
20	ARDS after lobectomy	63	Male	30.9	11	10	240	Yes	426
21	Influenza Pneumonia	70	Female	29.0	10	10	240	Yes	303
Heart failure after									
22	aortic dissection	75	Male	21.0	13	7	168	No	196
24	Ventricular fibrillation	83	Female	25.4	1	1	0	No	NA
* Diaphragm specimen used for ACE-2 and SARS-CoV-2 qPCR assays, not for histology and RNAseq assays. BMI, body mass index; ICU, intensive care unit; IMV, invasive medical ventilation; NMBA, neuromuscular blocking agents; CRP, C-reactive protein.									

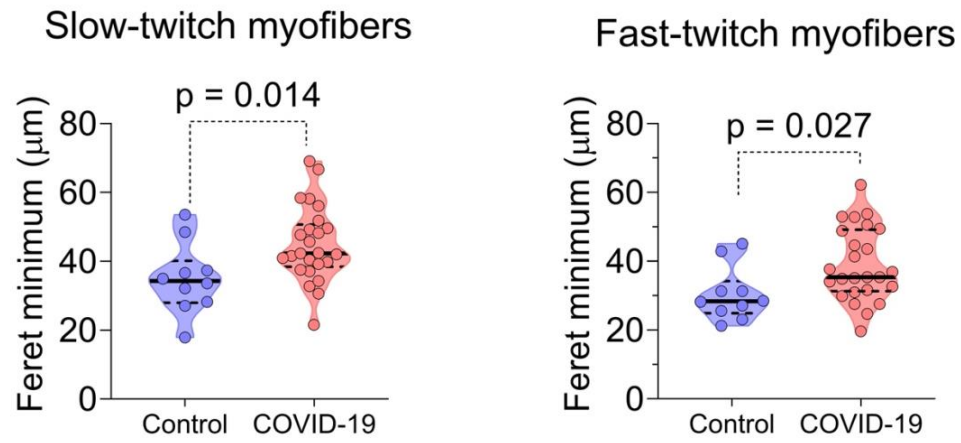


Figure S1. Feret diameter compare in both groups, each dot represents mean of each patient.