

SUPPLEMENTARY TABLE 1 Individual patient descriptions of COVID-19 including the risk factors: renal replacement vintage, number of previous diagnoses and immunosuppression

Case #	Age, y; sex († deceased) (A, ARDS)	COVID Illness days	Hospital days	CoV-2 shedding days	CoV-2 positive sample	CoV-2 IgG titer \$ (on day)	Management (on illness days)	Time, y on total RRT (KTX)	Dx, N	Immunosuppression [CNI-TL ng/mL]	Medication change (on days)
Kidney transplant with COVID-19 (KTX-COVID)											
1	52; m	1	0	-	NP	pos. (60)	AMB	5.1 (5.1)	9	TAC [5-7], MPA 2 g/d, Pred 5 mg/d	none
2	55; m	21	0	-	NP	2.69 (33)	AMB	5.9 (3.8)	34	TAC [5-7], MPA 1 g/d, Pred 5 mg/d	none
3	64; f	21	0	-	NP	0.14# (40)	AMB	3.5 (2.8)	31	TAC [7-10], MPA 0.5 g/d, Pred 5 mg/d	MPA held + Pred to 10 mg/d (5-19)
4	68; m (A)	26	57 §	47	NP	5.44 (24)	SW oxygen (1-14), thereafter SW no oxygen. Not to ICU b/o DNI, DNR. Persistent CoV-2 RNA shedding	11.5 (5.4)	75	TAC [5], Pred 5 mg/d	TAC held + Pred to 10-15 mg/d (15-57)
5	62; f (†) (A)	69	63	18	NP, TS, ST	8.34 (28)	SW oxygen (7-12) -> ICU NIV (8-9) -> ITN, tracheostomy / MEV (10-69), cytokine ads (12), RRT (12-69) -> death	14.9 (14.9)	51	TAC [5-7], MPA 1g/d, Pred 0	MPA held (7-69), TAC held + Pred new 5 mg/d (12-69)
6	62; f (†) (A)	15	15	15	NP, TS, ST	2.36 (15)	SW oxygen (1-12) -> ICU NIV (12-13) -> ITN / MEV (12-13), ECMO (13), RRT (13) -> death	9.6 (8.5)	31	TAC [5-7], MPA 0.75g/d, Pred 5 mg/d	MPA held (1-15), TAC + ARB held (14-15)
7	69; m (†) (A)	22	13	17	TS	-	SW oxygen (10-15) -> ICU ITN / MEV (15-22), RRT (22) -> death	14.9 (7.8)	57	TAC [5-7], MPA 1.5 g/d, Pred 5 mg/d	TAC held (10-22), MPA held (14-22)
Hemodialysis with COVID-19 (HD-COVID)											
1	65; m	7	0	10	NP	4.92 (57)	AMB	4.7	21	none	none
2	79; f	14	0	15	NP	4.45 (15)	AMB	4.7	34	none	none
3	61; f	14	0	14	NP	3.90 (14)	AMB	2.7	26	none	none
4	69; m	14	0	16	NP	2.00 (16)	AMB	0.9	34	none	none
5	73; m	21	0	21	NP	1.52 (14)	AMB	4.1	27	none	none
6	79; f	14	3	18	NP	-	SW (9-12)	5.6	17	none	none
7	38; f	20	10	20	NP	11.23 (20)	SW oxygen (10-20)	3.1	36	none	none
8	73; m	14	34 §	32	NP	7.69 (36)	SW oxygen (12)	0.8	20	CyA [120], Pred 5 mg/d	none
9	66; f (A)	32	44 &	21	NP, TS, BAL	-	ICU NIV (5) -> ITN, tracheostomy / MEV (6-18) -> decannulation (18) -> downgrade, recovery -> hospitalization continued for TAVI	0.6	29	none	
10	72; m (†) (A)	9	6	6	NP	-	SW (1-2) -> AMB (3-4) -> ICU (5-9) -> death (Community hospital)	10.6	23	none	HTN-meds reduced (4-9)
11	67; f (†) (A)	34	34	34	TS, BAL	10.83 (22)	SW (6-8) -> ITN MEV -> referral from Community to University hospital -> ICU, tracheostomy / MEV (9-34), cytokine adsorption (10) hemicolectomy, MOF (33) -> death	4.5	21	none	HTN-meds held (6-34)
Hemodialysis asymptomatic SARS CoV-2 RNA positive (HD-asympt CoV-2)											
1	65; f	0	0	20	NP	-	AMB	3.3	23	none	none
2	79; m	0	0	21	NP	-	AMB	6.5	22	none	none
3	87; f	0	0	33	NP	-	AMB	4.5	19	none	none

A, ARDS, acute respiratory distress syndrome; ads, adsorption; AMB, ambulatory; BAL, bronchoalveolar lavage; CNI-TL, calcineurin inhibitor trough level; CoV-2, SARS CoV-2; CyA, cyclosporin A; d, day; DNI, do not intubate; DNR, do not resuscitate; Dx, baseline diagnoses; ECMO, extracorporeal membrane oxygenation; f, female; HFRS, hospital frailty risk score; HTN-meds, antihypertensives; ICU, intensive care unit; IgG, immunoglobulin G; ITN, intubation; KTX, kidney transplant; m, male; MEV, mechanical ventilation; MPA, mycophenolic acid; MOF, multi organ failure; N, number; NIV, non-invasive ventilation; NP, nasopharyngeal swab; oxygen, nasal oxygen supplementation; pred, prednisolone; RRT, renal replacement therapy; ST, stool; SW, standard ward; TAVI, transcatheter aortic valve implantation; TS, tracheal secretion; y, years; † deceased; § prolonged viral RNA shedding led to a hospitalization time greater than duration of COVID-19 illness; & requirement for TAVI to treat aortic stenosis first diagnosed during COVID-19 led to a hospitalization time greater than duration of COVID-19 illness; # considered as serologic non-responder based on previously positive PCR, typical symptoms and immunosuppressed status

\$ SARS-CoV-2 Immunoglobulin G (IgG) seroconversion expressed as the ratio of extinction of the sample and the manufacturer's calibration solution (0 - <0.8: negative, 0.8 - 1.1: borderline, >1.1: elevated with a possible maximum of 11)

Timepoints are expressed as days from beginning of the illness/SARS CoV-2 positivity, whichever first