

## **Immunogenicity of SARS-CoV-2 Vaccine in Dialysis**

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Table S1. Characteristics of maintenance dialysis patients by vaccine received.

Demographics	All Patients (N=186)	BNT162b2 (Pfizer) N=168	mRNA-1273 (Moderna) N=18
COVID Vaccine Response	165 (88.7)	148 (88.1)	17 (94.4)
<b>Age (years)</b>	67.9 ± 12.2	67.6 ± 12.3	71.2 ± 10.6
<55	29 (15.6)	28 (16.7)	1 (5.6)
55-64	34 (18.3)	31 (18.5)	3 (16.7)
65-74	71 (38.2)	64 (38.1)	7 (38.9)
75+	52 (28.0)	45 (26.8)	7 (38.9)
<b>Female</b>	88 (47.3)	77 (45.8)	11 (61.1)
<b>Race</b>			
White	73 (39.3)	64 (38.1)	9 (50.0)
Black	39 (21.0)	34 (20.2)	5 (27.8)
Native American	33 (17.7)	30 (17.9)	3 (16.7)
Asian/Pacific Islander	19 (10.2)	19 (11.3)	0 (0.0)
Other/Unknown	22 (11.8)	21 (12.5)	1 (5.6)
<b>Hispanic</b>	15 (8.1)	15 (8.9)	0 (0.0)
<b>Vintage (months)</b>	58.1 ± 54.3	58.4 ± 54.9	55.5 ± 50.3
<b>Body Mass Index (kg/m<sup>2</sup>)</b>	28.7 ± 7.1	28.8 ± 7.3	28.2 ± 5.7
<b>Long Term Care Facility Resident</b>	48 (25.8)	40 (23.8)	8 (44.4)
<b>Modality</b>			
In-Center Hemodialysis	180 (96.8)	164 (97.6)	16 (88.9)
Peritoneal Dialysis	5 (2.7)	3 (1.8)	2 (11.1)
Home Hemodialysis	1 (0.5)	1 (0.6)	0 (0.0)
<b>Adequate Dialysis Dose<sup>p</sup></b>	174 (93.6)	158 (94.1)	16 (88.9)
<b>Serum Albumin (g/dl)</b>	3.8 ± 0.4	3.8 ± 0.4	3.8 ± 0.5
<b>Other Vaccines within 14 days</b>	20 (10.8)	<b>15 (8.9)</b>	<b>5 (27.8)<sup>a</sup></b>
Pneumococcal	4 (2.2)	<b>2 (1.2)</b>	<b>2 (11.1)<sup>a</sup></b>
Hepatitis B	17 (9.1)	<b>13 (7.7)</b>	<b>4 (22.2)<sup>a</sup></b>
<b>Potential Immunosuppression</b>	36 (19.4)	31 (18.5)	5 (27.8)
Immune-modulating Meds	29 (15.6)	24 (14.3)	5 (27.8)
Prior Transplant	11 (5.9)	11 (6.6)	0 (0.0)
Immunodeficiency Disorder	10 (5.4)	9 (5.4)	1 (5.6)
<b>Hospitalization within 14 days</b>	34 (18.3)	31 (18.5)	3 (16.7)
<b>Disability<sup>c</sup></b>	17 (9.1)	14 (8.3)	3 (16.7)
<b>Tobacco Use</b>	22 (11.8)	21 (12.5)	1 (5.6)
<b>Alcohol Use Disorder</b>	14 (7.5)	14 (8.3)	0 (0.0)
<b>Substance Use Disorder</b>	8 (4.3)	7 (4.2)	1 (5.6)
<b>History of COVID-19</b>	38 (20.4)	35 (20.8)	3 (16.7)
<b>Number of Comorbidities</b>	3.2 ± 1.9	3.2 ± 1.8	3.2 ± 1.9
<b>Comorbid Conditions</b>			
Diabetes Mellitus	129 (69.4)	116 (69.1)	13 (72.2)
Hypertension	152 (81.7)	137 (81.6)	15 (83.3)
Congestive Heart Failure	37 (19.9)	33 (19.6)	4 (22.2)

COPD <sup>d</sup>	34 (18.3)	32 (19.1)	2 (11.1)
Stroke/Cerebrovascular Disorder	23 (12.4)	20 (11.9)	3 (16.7)
Peripheral Vascular Disease	25 (13.4)	24 (14.3)	1 (5.6)
Thyroid Disorder	36 (19.4)	32(19.1)	4 (22.2)
History of Cancer	18 (9.7)	17 (10.1)	1 (5.6)

Values are presented as mean ± standard deviation or number (percent). <sup>a</sup> P-value<0.05; <sup>b</sup> Adequate dialysis defined by hemodialysis dose spKt/V≥1.2 or peritoneal dialysis dose weekly Kt/V≥1.7; <sup>c</sup> Amputee, wheelchair use or inability to perform activities of daily living; <sup>d</sup> COPD = Chronic Obstructive Pulmonary Disease.

Table S2. Three patients with COVID-19 history and prior antibody results.

Patient	Days from COVID-19 Diagnosis to Baseline Antibody (Ab) Test	Days from COVID-19 Diagnosis to 1 <sup>st</sup> Vaccine Shot	Results of Baseline Ab Test	Days from 2 <sup>nd</sup> Shot to Post-Vaccine Ab Test	Results of Post-Vaccine Ab Test
#1	234	242	20 U/L	22	20 U/L
#2	291*	286	20 U/L	19	20 U/L
#3	300*	295	3.61 U/L	19	20 U/L

\* Pseudo-baseline test result: drawn 5 days after the first vaccine dose.