

Comparative Effectiveness of BNT162b2 versus Ad26.COV2.S for the Prevention of COVID-19 among Dialysis Patients

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Table S1. Baseline comparison of all matched AD26.COV2.S and BNT162b2 patients. ^{a,b}

	BNT162b2 (N=2,732)	AD26.COV2.S (N=2,732)	Standardized mean difference
Site of dialysis ^{c,d}			+0.0%
In-center HD	87.7%	87.7%	
Home ^f	12.3%	12.3%	
Age ^d , y	61.3 ± 13.1	61.8 ± 13.5	+3.8%
Female ^d	40.6%	40.8%	+0.4%
Race/ethnicity ^d			+2.3%
White	31.8%	33.8%	
Af American	33.9%	32.7%	
LatinX	22.6%	21.3%	
Asian	3.3%	3.9%	
Other/unk	8.5%	8.3%	
Vintage ^d , y	2.7 [1.0, 5.3]	2.6 [1.0, 5.2]	-2.7%
Etiology of ESKD ^d			-1.9%
Diabetes	35.5%	35.0%	
Hypertension	25.1%	24.5%	
Other	39.4%	40.5%	
Diabetes ^d	67.4%	67.3%	-0.9%
CCI ^d	4.9 ± 1.6	4.9 ± 1.5	+0.0%
Prior transplant ^d	4.8%	4.5%	-1.4%
Prior COVID-19 ^{c,d,e}	10.5%	10.5%	+0.0%
Albumin ^d , g/dL	4.1 ± 0.4	4.1 ± 0.4	+0.0%
Creatinine, mg/dL	8.6 ± 3.3	8.4 ± 3.2	-6.2%
Hemoglobin, g/dL	10.7 ± 1.4	10.6 ± 1.4	-7.1%
Ferritin, ng/ml	692 [423, 960]	700 [439, 961]	+2.2%
TSAT, %	27.3 ± 12.9	26.9 ± 13.0	-3.1%
Phosphorus, mg/dL	5.7 ± 1.7	5.6 ± 1.7	-5.9%
PTH, pg, ml	388 [250, 592]	379 [239, 575]	-4.4%
Household poverty ^g , %	15.9 ± 9.4	15.1 ± 8.4	-9.0%
Housing vacancy ^g , %	9.9 ± 6.5	10.2 ± 6.4	+4.7%
Unemployment ^g , %	6.5 ± 3.5	6.1 ± 3.0	-12.3%
18-24 year olds without a high school diploma ^g , %	13.9 ± 7.6	13.9 ± 7.7	+0.0%
Index date ^{c,d}	21Mar [12Mar, 1Apr]	21Mar [12Mar, 1Apr]	+0.0%
State ^{c,d}			+0.0%
AL	2.3%	2.3%	
AR	1.6%	1.6%	
AZ	2.8%	2.8%	
CA	17.2%	17.2%	
CO	0.2%	0.2%	
CT	0.2%	0.2%	
FL	5.7%	5.7%	
GA	3.6%	3.6%	
IA	0.3%	0.3%	
ID	<0.1%	<0.1%	
IL	11.7%	11.7%	
IN	0.1%	0.1%	

KS	1.7%	1.7%	
KY	1.6%	1.6%	
LA	0.4%	0.4%	
MA	<0.1%	<0.1%	
MD	4.8%	4.8%	
ME	0.2%	0.2%	
MI	2.6%	2.6%	
MN	0.1%	0.1%	
MO	1.0%	1.0%	
NC	0.7%	0.7%	
NE	0.2%	0.2%	
NH	0.2%	0.2%	
NJ	5.6%	5.6%	
NM	0.2%	0.2%	
NV	1.1%	1.1%	
NY	2.8%	2.8%	
OH	2.7%	2.7%	
OK	0.5%	0.5%	
OR	1.8%	1.8%	
PA	2.9%	2.9%	
SC	2.0%	2.0%	
TN	0.5%	0.5%	
TX	14.2%	14.2%	
UT	0.1%	0.1%	
VA	0.2%	0.2%	
WA	3.8%	3.8%	
WI	2.4%	2.4%	
WV	0.2%	0.2%	

^a Descriptions as of index date.

^b Estimates presented as mean \pm SD, median [p25, p75], or percentage.

^c Included in propensity score model

^d Matching factor

^e Refers to COVID-19 prior to index date (date of first vaccination).

^f Home includes both peritoneal dialysis and home hemodialysis

^g Based on census level data linked through zip code

Abbreviations: y, year; ESKD, end-stage kidney disease; CCI, Charlson comorbidity index; TSAT, transferrin saturation; PTH, parathyroid hormone

Table S2. Characteristics of Patients who were diagnosed with COVID-19 during at-risk time. ^{a,b}

	COVID-19 Diagnoses (N=158)
Site of dialysis	
In-center HD	84.8%
Home ^d	15.2%
Age, y	61.1 ± 12.1
Female	46.8%
Race/ethnicity	
White	38.0%
Af American	31.0%
LatinX	23.4%
Asian	1.9%
Other/unk	5.7%
Vintage, y	2.6 [1.1, 5.1]
Etiology of ESKD	
Diabetes	41.8%
Hypertension	22.8%
Other	35.4%
Diabetes	76.0%
CCI	5.0 ± 1.5
Prior transplant	5.1%
Prior COVID-19 ^c	0%
Albumin, g/dL	4.0 ± 0.5
Creatinine, mg/dL	8.5 ± 3.2
Hemoglobin, g/dL	10.5 ± 1.5
Ferritin, ng/ml	667 [424, 972]
TSAT, %	27.1 ± 11.0
Phosphorus, mg/dL	5.8 ± 1.8
PTH, pg, ml	387 [259, 602]
Household poverty ^e , %	15.7 ± 8.6
Housing vacancy ^e , %	10.5 ± 7.9
Unemployment ^e , %	6.3 ± 2.9
18-24 year olds without a high school diploma ^e , %	13.9 ± 6.4
Index date	23Mar [12Mar, 1Apr]
US State	
AL	4.4
AR	1.9
AZ	0.6
CA	19.0
FL	8.2
GA	4.4
IA	0.6
IL	9.5
KS	1.9
KY	3.2
LA	0.6
MD	2.5
MI	1.3
NC	0.6
NJ	2.5
NY	3.2
OH	1.3
OR	2.5

SC	5.1
TN	1.3
TX	20.9
WA	3.2
WI	0.6
WV	0.6
^a Descriptions as of index date. ^b Estimates presented as mean \pm SD, median [p25, p75], or percentage. ^c Refers to COVID-19 prior to index date (date of first vaccination). ^d Home includes both peritoneal dialysis and home hemodialysis ^e Based on census level data linked through zip code Abbreviations: y, year; ESKD, end-stage kidney disease; CCI, Charlson comorbidity index; TSAT, transferrin saturation; PTH, parathyroid hormone	