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Appendix Table 1: Risk factors for COVID-19 infection and severity by race and ethnicity for 16 states: American Community Survey (2015-2019) and the Behavioral Risk Factor Surveillance System (2011-2019)

ALASKA

	American Community Survey (ACS) ^a				
	Native American (single, homeland)	Native American (single, not homeland)	White	Latino	Black
% 3+ generation HH ^b	8.8	N/A	2.3	4.1	1.7
% crowded HH ^b	25.5	N/A	4.3	5.2	5.5
% health ins. (exc. IHS)	65.0	N/A	87.2	81.9	83.3
% health ins. (inc. IHS)	97.0	N/A	87.6	83.8	83.9
Income-poverty ratio	2.4	N/A	3.7	3.2	3.1
% frontline workers ^c	64.7	N/A	52.7	60.8	N/A
Number of households	1,927	0 ¹	4,615	298	109
Number of persons	5,531	0	9,847	859	370

Conditions	Behavioral Risk Factor Surveillance System ^d				
	Native American (single race)		White	Latino	Black
% smokers	43.3	-	18.3	18.6	22.8
% asthma	15.2	-	13.9	18.8	17.6
% COPD	6.2	-	3.2	3.8	2.9
% kidney disease	1.1	-	1.1	2.1	1.6
% cancer (excl. skin)	2.8	-	3.4	2.6	3.3
% diabetes	6.4	-	5.3	7.8	9.1
% heart disease	1.9	-	1.0	0.9	1.3
% obese (BMI >=30)	37.1	-	27.3	31.0	39.8
Mean # health cond. ^e	0.7	-	0.6	0.7	0.8
Min number of persons	3,140	-	12,987	687	312
Max number of persons	3,454	-	13,796	764	335

¹ Most of the tribal land in Alaska is considered Alaska Native village statistical areas or Alaska Native regional corporations, which are statistical and legal geographic entities respectively. These lands are considered homelands but not reservations. Although <1% of Alaskan Natives live on reservations, almost all Alaskan Natives live on homelands because of this distinction. This likely accounts for the zero cells for ACS estimates in Alaska.

ARIZONA

	American Community Survey (ACS) ^a				
	Native American (single, homeland)	Native American (single, not homeland)	White	Latino	Black
% 3+ generation HH ^b	12.3	7.4	2.8	8.2	5.0
% crowded HH ^b	19.5	15.8	2.6	12.3	6.7
% health ins. (exc. IHS)	70.7	75.3	90.2	74.9	85.9
% health ins. (inc. IHS)	93.6	93.3	90.2	75.3	85.9
Income-poverty ratio	1.9	2.5	3.4	2.5	2.7
% frontline workers ^c	71.3	68.8	51.3	69.3	59.5
Number of households	3,858	641	47,622	19,051	2,950
Number of persons	10,184	1,747	100,185	49,708	7,120

	Behavioral Risk Factor Surveillance System ^d				
Conditions	Native American (single race)		White	Latino	Black
% smokers	19.8	-	20.0	14.6	18.7
% asthma	19.4	-	17.8	11.9	17.5
% COPD	3.9	-	4.5	3.6	5.4
% kidney disease	3.0	-	1.9	2.8	2.6
% cancer (excl. skin)	2.8	-	3.6	2.7	2.5
% diabetes	18.8	-	5.7	10.5	9.9
% heart disease	0.9	-	1.7	1.8	0.9
% obese (BMI >=30)	46.8	-	24.7	35.7	33.5
Mean # health cond. ^e	1.0	-	0.6	0.7	0.7
Min number of persons	2,318	-	21,865	7,443	1,129
Max number of persons	2,589	-	23,597	8,534	1,261

CALIFORNIA

American Community Survey (ACS)^a

	Native American (single, homeland)	Native American (single, not homeland)	White	Latino	Black
% 3+ generation HH ^b	7.8	5.2	2.6	9.8	5.1
% crowded HH ^b	10.1	7.8	3.3	21.4	6.7
% health ins. (exc. IHS)	80.2	86.7	93.8	81.7	90.6
% health ins. (inc. IHS)	94.7	91.8	93.8	81.8	90.6
Income-poverty ratio	2.4	3.1	3.7	2.7	2.9
% frontline workers ^c	66.9	59.6	45.1	71.3	56.5
Number of households	1,313	983	190,629	134,463	20,295
Number of persons	2,924	2,510	416,817	387,302	52,303

Behavioral Risk Factor Surveillance System^d

Conditions	Native American (single race)		White	Latino	Black
% smokers	23.3	-	16.2	11.7	18.4
% asthma	29.6	-	16.9	10.7	21.5
% COPD	5.5	-	3.5	2.4	4.4
% kidney disease	3.0	-	1.6	2.0	1.8
% cancer (excl. skin)	5.0	-	3.5	2.0	3.0
% diabetes	11.1	-	4.9	11.4	9.5
% heart disease	2.6	-	1.2	1.5	1.9
% obese (BMI >=30)	31.2	-	22.1	32.2	33.2
Mean # health cond. ^e	0.9	-	0.5	0.6	0.8
Min number of persons	502	-	28,513	21,892	3,016
Max number of persons	565	-	30,699	25,690	3,359

COLORADO

	American Community Survey (ACS) ^a				
	Native American (single, homeland)	Native American (single, not homeland)	White	Latino	Black
% 3+ generation HH ^b	7.5	4.3	2.1	5.8	4.5
% crowded HH ^b	3.8	6.9	1.6	9.9	6.1
% health ins. (exc. IHS)	62.2	82.5	92.3	77.4	88.2
% health ins. (inc. IHS)	94.0	87.5	92.3	77.4	88.2
Income-poverty ratio	2.5	2.9	3.7	2.8	2.8
% frontline workers ^c	N/A	61.0	47.5	69.9	53.9
Number of households	121	271	55,763	10,318	1,857
Number of persons	270	676	115,238	25,523	4,634

Conditions	Behavioral Risk Factor Surveillance System ^d				
	Native American (single race)		White	Latino	Black
% smokers	29.2	-	17.7	17.8	24.1
% asthma	20.4	-	15.3	11.2	17.1
% COPD	4.9	-	2.8	2.2	3.4
% kidney disease	1.7	-	1.2	1.7	1.9
% cancer (excl. skin)	5.7	-	3.3	2.5	2.9
% diabetes	8.6	-	3.6	9.0	7.4
% heart disease	2.9	-	0.8	1.4	1.5
% obese (BMI >=30)	26.4	-	19.2	28.6	29.5
Mean # health cond. ^e	0.7	-	0.5	0.6	0.6
Min number of persons	498	-	41,037	9,159	1,515
Max number of persons	553	-	43,786	10,563	1,692

FLORIDA

	American Community Survey (ACS) ^a				
	Native American (single, homeland)	Native American (single, not homeland)	White	Latino	Black
% 3+ generation HH ^b	5.5	4.9	2.9	7.2	6.0
% crowded HH ^b	3.7	2.8	2.0	8.0	6.4
% health ins. (exc. IHS)	50.9	75.6	84.1	72.6	76.9
% health ins. (inc. IHS)	88.3	80.2	84.1	72.7	76.9
Income-poverty ratio	3.4	2.9	3.3	2.7	2.5
% frontline workers ^c	N/A	59.1	53.9	65.3	65.9
Number of households	143	417	138,306	51,857	28,550
Number of persons	247	953	293,980	124,578	70,063

Conditions	Behavioral Risk Factor Surveillance System ^d				
	Native American (single race)		White	Latino	Black
% smokers	36.0	-	23.5	14.5	15.0
% asthma	20.1	-	13.6	13.8	13.2
% COPD	9.6	-	5.6	3.5	4.3
% kidney disease	2.8	-	1.9	2.5	1.9
% cancer (excl. skin)	7.1	-	3.7	2.9	2.2
% diabetes	7.5	-	6.2	7.9	9.1
% heart disease	1.8	-	2.0	1.9	2.2
% obese (BMI >=30)	24.1	-	24.8	28.1	35.7
Mean # health cond. ^e	0.7	-	0.6	0.6	0.7
Min number of persons	838	-	46,127	10,589	8,479
Max number of persons	926	-	50,233	13,096	9,515

MICHIGAN

	American Community Survey (ACS) ^a				
	Native American (single, homeland)	Native American (single, not homeland)	White	Latino	Black
% 3+ generation HH ^b	4.6	3.5	2.4	4.6	4.8
% crowded HH ^b	4.5	2.6	1.9	6.8	3.1
% health ins. (exc. IHS)	84.3	86.8	92.7	81.1	88.8
% health ins. (inc. IHS)	95.7	92.5	92.7	81.2	88.8
Income-poverty ratio	2.5	2.7	3.3	2.6	2.3
% frontline workers ^c	68.2	72.0	58.6	69.9	68.1
Number of households	487	289	98,626	4,073	10,794
Number of persons	1,048	661	213,309	10,409	24,813

Conditions	Behavioral Risk Factor Surveillance System ^d				
	Native American (single race)		White	Latino	Black
% smokers	49.4	-	24.6	23.8	26.5
% asthma	25.4	-	16.8	16.3	20.7
% COPD	11.0	-	5.3	5.6	8.2
% kidney disease	3.0	-	2.0	1.6	3.1
% cancer (excl. skin)	5.7	-	3.9	3.3	2.5
% diabetes	9.0	-	6.3	11.3	9.3
% heart disease	5.0	-	1.8	3.0	2.1
% obese (BMI >=30)	32.6	-	30.0	39.9	40.7
Mean # health cond. ^e	0.9	-	0.7	0.8	0.9
Min number of persons	539	-	36,978	1,656	5,605
Max number of persons	589	-	39,665	1,825	6,139

MINNESOTA

American Community Survey (ACS)^a

	Native American (single, homeland)	Native American (single, not homeland)	White	Latino	Black
% 3+ generation HH ^b	6.2	4.0	1.4	5.2	3.4
% crowded HH ^b	6.8	7.2	1.5	11.9	11.5
% health ins. (exc. IHS)	74.4	82.9	95.5	74.4	89.1
% health ins. (inc. IHS)	94.7	90.8	95.5	74.5	89.1
Income-poverty ratio	2.0	2.3	3.7	2.5	2.4
% frontline workers ^c	76.1	50.3	53.4	71.8	70.1
Number of households	660	132	60,135	1,788	1,804
Number of persons	1,471	392	126,311	4,738	4,636

Behavioral Risk Factor Surveillance System^d

Conditions	Native American (single race)		White	Latino	Black
% smokers	43.6	-	18.9	15.8	22.8
% asthma	20.9	-	12.5	10.3	15.0
% COPD	5.8	-	2.6	1.9	3.4
% kidney disease	3.5	-	1.1	2.2	2.5
% cancer (excl. skin)	4.6	-	3.1	2.4	1.7
% diabetes	15.5	-	5.0	11.6	9.6
% heart disease	2.2	-	1.1	1.7	1.1
% obese (BMI >=30)	38.2	-	26.1	33.7	31.6
Mean # health cond. ^e	0.9	-	0.5	0.6	0.7
Min number of persons	1,033	-	65,642	2,946	3,045
Max number of persons	1,144	-	70,625	3,902	3,464

MONTANA

	American Community Survey (ACS) ^a				
	Native American (single, homeland)	Native American (single, not homeland)	White	Latino	Black
% 3+ generation HH ^b	8.8	N/A	1.5	2.0	N/A
% crowded HH ^b	12.3	N/A	2.4	7.9	N/A
% health ins. (exc. IHS)	59.3	78.9	88.7	81.5	93.5
% health ins. (inc. IHS)	96.5	90.8	88.7	82.8	93.8
Income-poverty ratio	2.0	2.6	3.1	2.7	2.3
% frontline workers ^c	67.3	N/A	59.0	56.2	N/A
Number of households	698	48	10,683	278	35
Number of persons	1,740	174	22,035	716	110

Conditions	Behavioral Risk Factor Surveillance System ^d				
	Native American (single race)		White	Latino	Black
% smokers	43.9	-	20.4	30.0	31.6
% asthma	18.0	-	14.1	17.7	15.7
% COPD	5.8	-	3.7	5.0	5.1
% kidney disease	3.2	-	1.4	1.6	4.4
% cancer (excl. skin)	4.7	-	3.9	2.4	4.9
% diabetes	14.7	-	4.6	5.3	10.3
% heart disease	2.2	-	1.2	1.6	0.0
% obese (BMI >=30)	40.8	-	23.9	30.0	29.0
Mean # health cond. ^e	0.9	-	0.5	0.6	0.6
Min number of persons	3,224	-	26,213	810	100
Max number of persons	3,511	-	28,060	894	109

NEW MEXICO

	American Community Survey (ACS) ^a				
	Native American (single, homeland)	Native American (single, not homeland)	White	Latino	Black
% 3+ generation HH ^b	10.8	4.5	2.3	5.2	2.0
% crowded HH ^b	17.3	8.1	1.8	5.9	2.8
% health ins. (exc. IHS)	70.1	75.4	91.3	82.6	88.0
% health ins. (inc. IHS)	97.8	91.2	91.4	82.9	88.0
Income-poverty ratio	2.0	2.3	3.2	2.5	2.6
% frontline workers ^c	70.2	49.6	49.7	64.4	67.9
Number of households	3,122	191	9,082	9,083	318
Number of persons	8,256	453	18,006	20,637	837

Conditions	Behavioral Risk Factor Surveillance System ^d				
	Native American (single race)		White	Latino	Black
% smokers	15.9	-	22.6	20.2	29.1
% asthma	14.4	-	17.7	14.0	16.1
% COPD	2.0	-	4.4	3.5	4.8
% kidney disease	2.4	-	1.7	2.3	3.9
% cancer (excl. skin)	2.5	-	4.1	3.3	2.9
% diabetes	14.8	-	4.8	9.9	9.5
% heart disease	1.3	-	1.4	1.4	3.4
% obese (BMI >=30)	41.5	-	24.8	33.1	35.0
Mean # health cond. ^e	0.8	-	0.6	0.7	0.8
Min number of persons	3,764	-	14,532	13,733	449
Max number of persons	4,115	-	15,402	15,122	479

NEW YORK

	American Community Survey (ACS) ^a				
	Native American (single, homeland)	Native American (single, not homeland)	White	Latino	Black
% 3+ generation HH ^b	2.7	4.7	2.4	7.9	6.8
% crowded HH ^b	0.6	4.1	3.0	14.8	7.7
% health ins. (exc. IHS)	81.9	87.2	94.8	82.9	90.2
% health ins. (inc. IHS)	94.8	91.5	94.8	82.9	90.2
Income-poverty ratio	2.4	2.9	3.7	2.7	2.9
% frontline workers ^c	61.8	53.6	48.3	68.7	63.1
Number of households	219	343	150,438	30,289	24,829
Number of persons	496	846	335,743	81,031	66,386

	Behavioral Risk Factor Surveillance System ^d				
Conditions	Native American (single race)		White	Latino	Black
% smokers	30.6	-	19.4	14.7	17.5
% asthma	19.5	-	15.4	16.5	17.7
% COPD	7.2	-	3.8	3.2	4.4
% kidney disease	2.4	-	1.2	2.3	1.6
% cancer (excl. skin)	3.4	-	3.6	2.3	2.0
% diabetes	8.9	-	4.9	9.5	9.2
% heart disease	3.4	-	1.4	1.9	1.7
% obese (BMI >=30)	25.4	-	23.9	29.0	32.3
Mean # health cond. ^e	0.7	-	0.5	0.7	0.7
Min number of persons	579	-	45,905	9,408	6,743
Max number of persons	667	-	50,400	11,046	7,595

NORTH CAROLINA

	American Community Survey (ACS) ^a				
	Native American (single, homeland)	Native American (single, not homeland)	White	Latino	Black
% 3+ generation HH ^b	5.5	3.9	2.5	4.6	5.1
% crowded HH ^b	4.6	5.2	1.7	11.7	3.4
% health ins. (exc. IHS)	74.2	81.1	87.8	55.4	82.9
% health ins. (inc. IHS)	78.3	82.3	87.8	55.5	82.9
Income-poverty ratio	2.4	2.7	3.3	2.2	2.5
% frontline workers ^c	74.5	67.8	54.6	77.0	66.7
Number of households	1,431	272	86,529	8,469	22,471
Number of persons	3,064	712	183,716	20,621	50,218

	Behavioral Risk Factor Surveillance System ^d				
Conditions	Native American (single race)		White	Latino	Black
% smokers	30.8	-	23.6	11.9	22.9
% asthma	18.5	-	13.9	7.6	15.0
% COPD	11.2	-	5.4	2.1	4.7
% kidney disease	4.1	-	1.8	2.9	2.4
% cancer (excl. skin)	5.9	-	3.6	1.8	2.6
% diabetes	10.4	-	6.2	9.9	10.8
% heart disease	3.8	-	1.9	1.6	1.9
% obese (BMI >=30)	40.6	-	28.0	30.3	41.9
Mean # health cond. ^e	0.9	-	0.6	0.6	0.8
Min number of persons	962	-	21,910	2,939	7,037
Max number of persons	1,050	-	23,591	3,852	7,795

OKLAHOMA

	American Community Survey (ACS) ^a				
	Native American (single, homeland)	Native American (single, not homeland)	White	Latino	Black
% 3+ generation HH ^b	4.5	0.3	2.9	4.8	3.6
% crowded HH ^b	4.7	3.1	2.7	9.5	4.2
% health ins. (exc. IHS)	62.9	68.7	83.8	59.9	74.2
% health ins. (inc. IHS)	96.0	94.7	84.3	61.2	74.6
Income-poverty ratio	2.6	2.7	3.1	2.3	2.4
% frontline workers ^c	66.1	N/A	56.5	77.7	66.2
Number of households	4,119	87	31,462	3,449	2,583
Number of persons	9,315	194	66,601	8,615	5,961

	Behavioral Risk Factor Surveillance System ^d				
Conditions	Native American (single race)		White	Latino	Black
% smokers	32.4	-	25.2	17.9	24.0
% asthma	19.2	-	15.7	9.8	18.8
% COPD	6.7	-	5.8	3.0	6.2
% kidney disease	2.5	-	1.7	2.7	2.5
% cancer (excl. skin)	4.3	-	3.6	2.7	3.6
% diabetes	12.8	-	7.2	11.5	10.2
% heart disease	3.0	-	2.2	2.0	2.1
% obese (BMI >=30)	42.3	-	33.3	35.9	39.9
Mean # health cond. ^e	0.9	-	0.7	0.7	0.8
Min number of persons	2,460	-	21,293	2,301	2,041
Max number of persons	2,664	-	22,857	2,813	2,229

SOUTH DAKOTA

American Community Survey (ACS)^a

	Native American (single, homeland)	Native American (single, not homeland)	White	Latino	Black
% 3+ generation HH ^b	13.1	N/A	1.1	2.7	5.0
% crowded HH ^b	19.3	NA	1.2	7.0	6.5
% health ins. (exc. IHS)	46.9	53.4	90.5	72.0	77.2
% health ins. (inc. IHS)	97.0	83.2	90.6	73.7	77.2
Income-poverty ratio	1.5	1.6	3.4	2.4	2.3
% frontline workers ^c	73.2	N/A	57.3	62.6	82.2
Number of households	821	27	9,215	241	105
Number of persons	2,098	113	18,739	619	290

Behavioral Risk Factor Surveillance System^d

Conditions	Native American (single race)		White	Latino	Black
% smokers	45.5	-	20.9	21.1	33.0
% asthma	15.2	-	11.6	12.1	8.0
% COPD	4.8	-	2.9	4.2	2.4
% kidney disease	3.2	-	1.4	1.9	1.9
% cancer (excl. skin)	3.4	-	3.2	3.5	1.0
% diabetes	15.9	-	5.2	13.7	7.9
% heart disease	3.3	-	1.4	2.3	2.3
% obese (BMI >=30)	42.5	-	28.6	34.2	30.7
Mean # health cond. ^e	0.9	-	0.5	0.7	0.5
Min number of persons	4,708	-	24,860	587	200
Max number of persons	5,187	-	26,720	649	225

TEXAS

American Community Survey (ACS)^a

	Native American (single, homeland)	Native American (single, not homeland)	White	Latino	Black
% 3+ generation HH ^b	2.5	4.6	2.9	7.5	4.9
% crowded HH ^b	2.2	3.1	2.3	11.7	4.5
% health ins. (exc. IHS)	66.5	74.4	85.4	61.6	77.4
% health ins. (inc. IHS)	83.2	81.8	85.4	61.6	77.4
Income-poverty ratio	2.9	3.1	3.6	2.6	2.8
% frontline workers ^c	N/A	60.1	49.1	71.1	62.3
Number of households	130	921	168,087	101,209	32,039
Number of persons	275	2,058	352,269	252,007	72,609

Behavioral Risk Factor Surveillance System^d

Conditions	Native American (single race)		White	Latino	Black
% smokers	32.2	-	20.4	14.6	18.5
% asthma	27.9	-	15.0	8.7	16.9
% COPD	8.0	-	4.2	2.5	4.5
% kidney disease	4.8	-	1.8	2.3	2.3
% cancer (excl. skin)	6.9	-	3.9	2.2	2.5
% diabetes	11.2	-	6.1	11.2	9.8
% heart disease	2.6	-	1.6	1.4	2.2
% obese (BMI >=30)	35.4	-	28.6	37.4	38.6
Mean # health cond. ^e	1.0	-	0.6	0.7	0.8
Min number of persons	442	-	27,980	17,396	4,672
Max number of persons	481	-	30,189	20,340	5,234

WASHINGTON

	American Community Survey (ACS) ^a				
	Native American (single, homeland)	Native American (single, not homeland)	White	Latino	Black
% 3+ generation HH ^b	6.9	4.2	2.7	5.7	3.8
% crowded HH ^b	8.5	6.6	2.6	14.4	7.7
% health ins. (exc. IHS)	80.0	85.5	93.6	72.6	88.9
% health ins. (inc. IHS)	96.6	92.5	93.6	72.7	88.9
Income-poverty ratio	2.5	2.6	3.6	2.6	2.9
% frontline workers ^c	65.2	55.6	51.2	74.6	61.4
Number of households	1,365	260	68,150	8,028	2,449
Number of persons	3,210	674	145,501	20,642	6,076

Conditions	Behavioral Risk Factor Surveillance System ^d				
	Native American (single race)		White	Latino	Black
% smokers	37.9	-	18.0	12.3	18.1
% asthma	23.4	-	17.5	12.0	15.6
% COPD	7.5	-	3.9	2.7	2.5
% kidney disease	2.8	-	1.8	2.8	2.6
% cancer (excl. skin)	6.3	-	3.9	2.0	2.1
% diabetes	9.2	-	5.8	11.5	9.7
% heart disease	2.7	-	1.2	1.4	1.6
% obese (BMI >=30)	34.0	-	27.6	34.5	33.7
Mean # health cond. ^e	0.8	-	0.6	0.7	0.7
Min number of persons	772	-	43,815	4,944	1,299
Max number of persons	877	-	47,466	6,219	1,455

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American Community Survey (ACS)^a

	Native American (single, homeland)	Native American (single, not homeland)	White	Latino	Black
% 3+ generation HH ^b	3.5	2.1	1.5	4.3	3.7
% crowded HH ^b	3.7	3.1	1.5	8.9	4.6
% health ins. (exc. IHS)	75.2	81.7	94.1	73.9	85.5
% health ins. (inc. IHS)	94.2	86.6	94.1	74.0	85.5
Income-poverty ratio	2.4	3.1	3.5	2.5	2.2
% frontline workers ^c	67.7	N/A	57.6	74.0	70.4
Number of households	519	88	65,089	2,568	2,341
Number of persons	1,203	262	136,774	6,519	5,886

Behavioral Risk Factor Surveillance System^d

Conditions	Native American (single race)		White	Latino	Black
% smokers	36.8	-	20.4	16.9	30.5
% asthma	16.3	-	13.1	12.0	22.1
% COPD	3.5	-	3.1	3.9	5.2
% kidney disease	2.6	-	1.2	1.6	2.6
% cancer (excl. skin)	4.7	-	3.1	2.6	1.9
% diabetes	9.2	-	4.7	9.7	11.6
% heart disease	2.4	-	1.3	0.8	2.3
% obese (BMI >=30)	40.1	-	29.0	35.0	39.9
Mean # health cond. ^e	0.8	-	0.6	0.7	0.9
Min number of persons	586	-	21,696	899	1,516
Max number of persons	639	-	23,422	1,064	1,672

Note: N/A indicates number of households or number of persons is below 50.

^a Based on respondents ages 18-60 (except for estimates of frontline workers).

^b This estimate is based on information at the household-level; the remaining ACS variables are based on individual information.

^c Based on persons of all ages reporting jobs in the past five years from the single-year 2018 ACS.

^d Based on respondents ages 18-59. The number of persons providing responses in the BRFSS varies across health conditions. The minimum sample size pertains to persons with responses to all of the health condition variables.

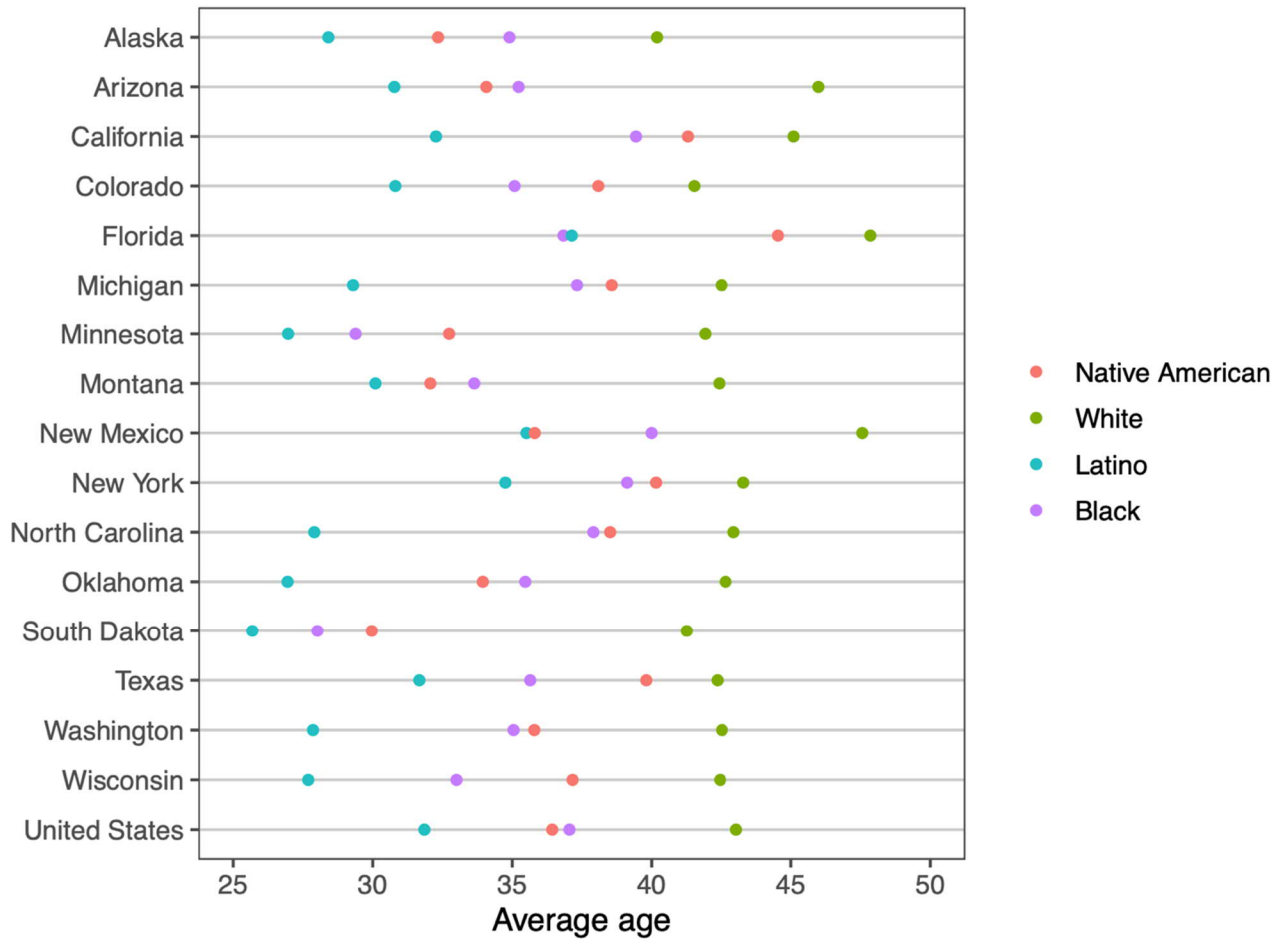
^e The mean number of health conditions per person is the sum of affirmative responses to the following conditions: asthma, COPD, kidney disease, cancer, diabetes, heart disease, and obesity (BMI≥30).

Appendix Table 2: Correlations between selected risk factors for COVID-19 infection and mortality and the Standardized Mortality Ratio among Native Americans across states

	SMR (COVID-19, 2020) ^a	SMR (all cause, 2019) ^a
% 3+ generation HH	0.77	0.66
% crowded HH	0.60	0.63
% health insurance (exc. IHS)	-0.79	-0.78
% health insurance (inc. IHS)	0.48	0.47
Income-poverty ratio	-0.84	-0.77
% frontline workers	0.54	0.52
% smokers	0.19	0.46
% asthma	-0.52	-0.49
% COPD	-0.50	-0.34
% kidney disease	-0.01	-0.12
% cancer (excl. skin)	-0.49	-0.48
% heart disease	-0.21	0.02
% diabetes	0.65	0.39
% obese (BMI >= 30)	0.55	0.39
Average openness score	0.41	0.57

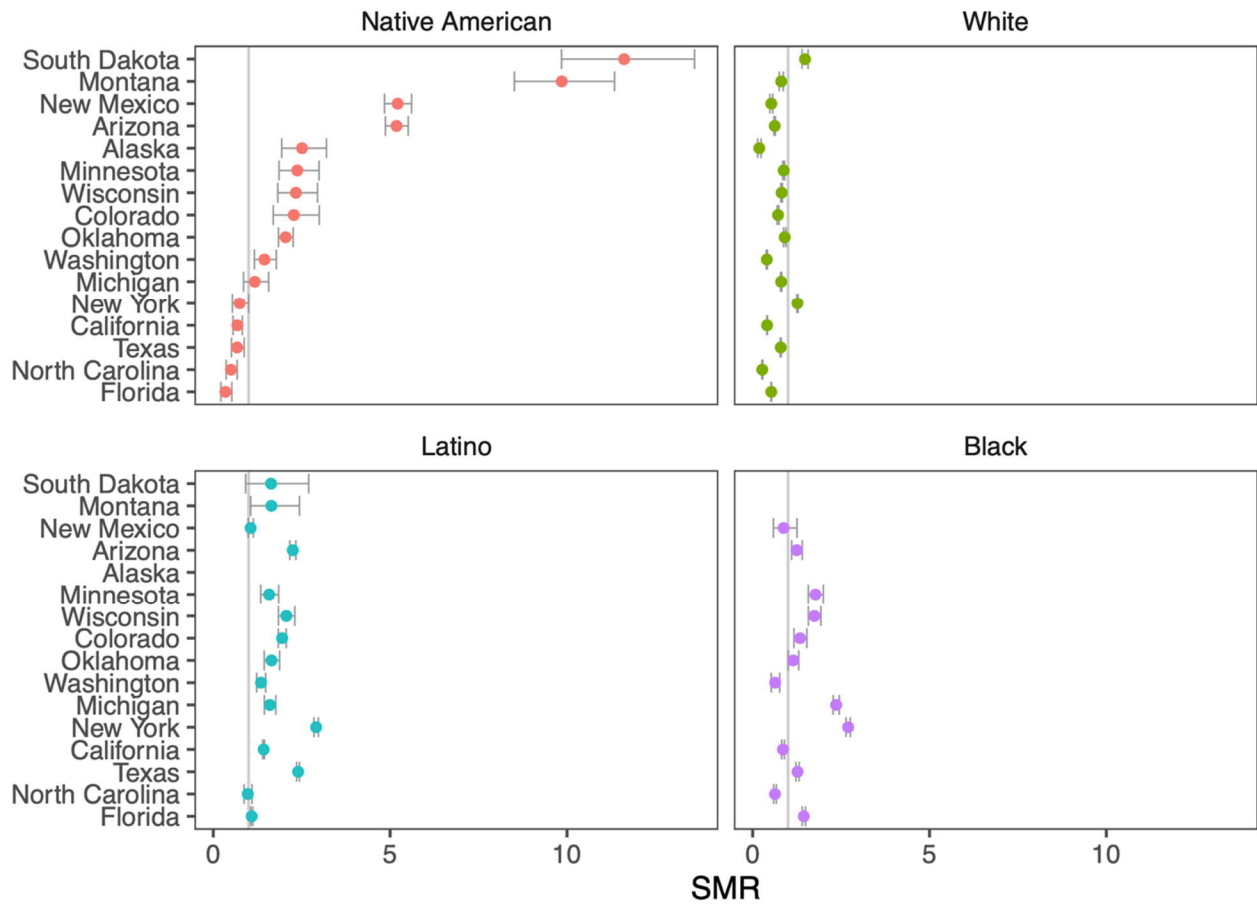
^a SMRs are based on indirect standardization by age for Native Americans. The SMR for COVID-19 deaths in 2020 uses the same data as in the main analysis. The SMR for all-cause mortality in 2019 uses CDC's estimates of all-cause mortality in 2019 (<https://wonder.cdc.gov/>).

Appendix Figure 1: Average (mean) age by race and ethnicity for 16 states



Source: ACS 5-year estimates, 2015-2019

Appendix Figure 2: Standardized Mortality Ratios for COVID-19 and 95% confidence intervals by race and ethnicity for 16 states



Source: CDC Weekly Updates by Select Demographic and Geographic Characteristics (as of Jan. 21, 2021)

Note: SMRs are based on indirect standardization by age; 95% confidence intervals (95%) are calculated according to the procedure presented in Ulm (1990).