

**Title:** Socioeconomic and Engagement Barriers to Cardiovascular Risk Awareness Among Cancer Survivors

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**Supplementary Table 1. Simple Descriptive**

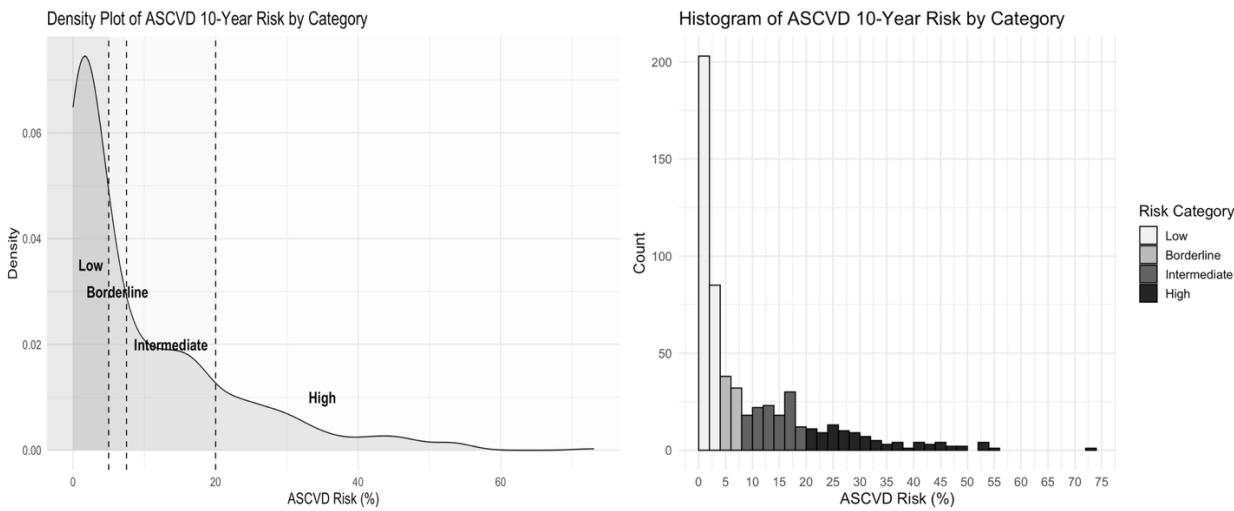
Category	Variable	Response	Count	Percentage	Min	Max	Mean	NA's
Geographics	Zip code		614					
Demographics	Gender	Female	326	53.3%	1	3	1.5	2
		Male	284	46.4%				
		Other gender-Identified	2	0.3%				
		Do not know/unable to answer	0	0%				
	Age	21 - 30 years old	46	8.0%	21	91	54.29	40
		31 - 40 years old	112	19.5%				
		41 - 50 years old	87	15.2%				
		51 - 60 years old	89	15.5%				
		61 - 70 years old	125	21.8%				
		71 - 80 years old	98	17.1%				
		81 years or older	17	3.0%				
	Race	White	180	37.6%	1	7	1.7	135
		Black/African American	285	59.5%				
		Asian	6	1.3%				
		American Indian/Alaska Native	4	0.8%				
		Native Hawaiian/Pacific Islander	1	0.2%				
		Other identified	1	0.2%				
		Do not know/unable to answer	2	0.4%				
	Education	Elementary or Middle School	5	0.8%	1	7	4.9	6
		General Education Development (GED)/High School Diploma	53	8.7%				
		Vocational/Technical School	39	6.4%				
		Community College	85	14.0%				

		College/University (BA, BS)	184	30.3%				
		Graduate Degree	239	39.3%				
		Do not know/unable to answer	3	0.5%				
	Income	< \$12,999	26	4.2%	1	10	5.4	0
		\$13,000-\$24,999	51	8.3%				
		\$25,000-44,999	67	10.9%				
		\$45,000-64,999	100	16.3%				
		\$65,000-84,999	92	15.0%				
		\$85,000-104,999	74	12.1%				
		\$105,000-124,000	64	10.4%				
		\$125,000-144,999	36	5.9%				
		> \$145,000	81	13.2%				
		Do not know/unable to answer	23	3.7%				
Accessibility	Primary Care Transportation Time	Less than 15 Minutes	95	15.5%	1	6	2.5	0
		15-30 minutes	269	43.8%				
		30-45 minutes	159	25.9%				
		45 minutes – 1 hour	64	10.4%				
		More than 1 hour	19	3.1%				
		Not applicable	8	1.3%				
	Oncology Transportation Time	Less than 15 Minutes	31	5.0%	1	6	3	0
		15-30 minutes	192	31.3%				
		30-45 minutes	208	33.9%				
		45 minutes – 1 hour	118	19.2%				
		More than 1 hour	41	6.7%				
		Not applicable	24	3.9%				

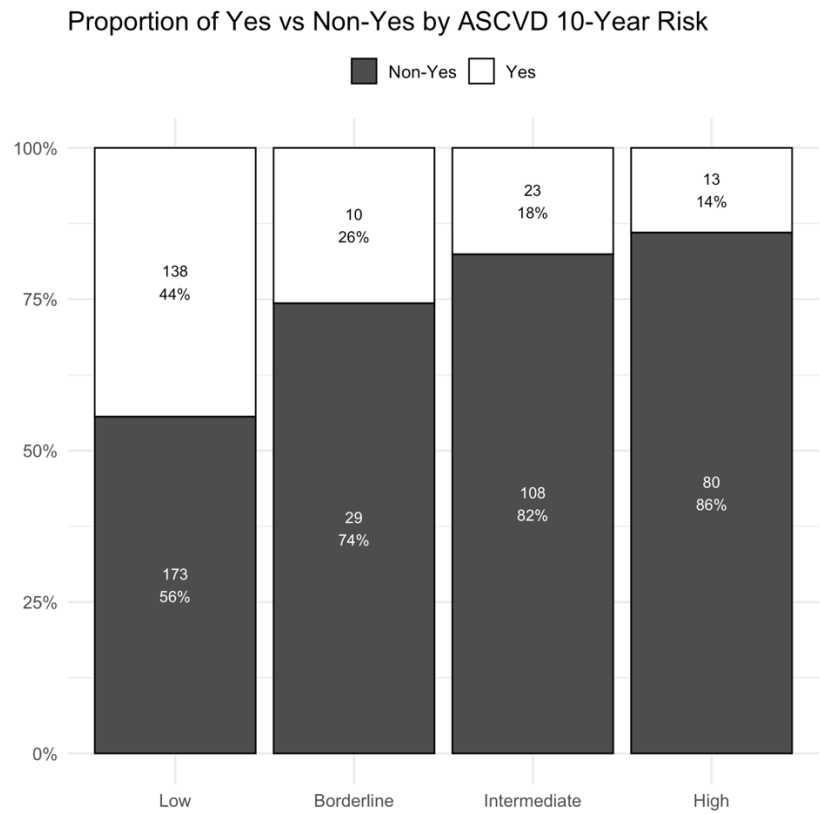
	Difficulty in seeing Primary Care Provider	Never	219	35.9%	1	6	2.2	4
		Rarely	170	27.9%				
		Sometimes	132	21.6%				
		Often	52	8.5%				
		Always	24	3.9%				
		Not applicable	13	2.1%				
	Reliable Transportation	Never	33	5.4%	1	6	4.3	3
		Rarely	22	3.6%				
		Sometimes	84	13.7%				
		Often	78	12.8%				
		Always	384	62.8%				
		Not applicable	10	1.6%				
	Transportation Method	Car (self-drive or have someone that you know drive you)	330	74.5%	1	6	1.562	171
		Uber/Lyft/Zipcar	51	11.5%				
		Bus	25	5.6%				
		Train	11	2.5%				
		Taxi	19	4.3%				
		Other	7	1.6%				
Health Conditions	Hypertension	Yes	389	63.4%	1	3	1.4	0
		No	215	35.0%				
		I don't know	10	1.6%				
	High Cholesterol	Yes	325	52.9%	1	3	1	0
		No	277	45.1%				

	Diabetes	I don't know	12	2.0%	1	3	1.7	0
		Yes	169	27.5%				
		No	437	71.2%				
		I don't know	8	1.3%				
	Smoke	Yes	229	37.3%	1	3	2	0
		No	374	60.9%				
		I don't know	11	1.8%				
Engagement in health checkups	Visit to Primary Care	Once a year	140	23.1%	1	5	2.3	8
		Several times a year	288	47.5%				
		Once a month	78	12.9%				
		2-4 times a month	85	14.0%				
		More than 4 times a month	15	2.5%				
	Visit to Oncology Doctor	Once a year	95	16.1%	1	5	2.5	24
		Several times a year	270	45.8%				
		Once a month	102	17.3%				
		2-4 times a month	108	18.3%				
		More than 4 times a month	15	2.5%				
ASCVD Risk	10-year ASCVD Risk	Actual %	574		0	73.1	9.5	40
	Risk Category	Low	311	54.2%				
		Borderline	39	6.8%				
		Intermediate	131	22.8%				
		High	93	16.2%				
Conversations with your cancer professionals	Awareness of cancer treatments' impact on heart health	Yes	202	32.9%	1	3	1.9	0
		Non-Yes	412	67.1%				

Supplementary Figure 1. Density Plot and Histogram of ASCVD 10-Year Risk Category



Supplementary Figure 2. Proportion of Yes vs Non-Yes by ASCVD 10-Year Risk



**Supplementary Table 2. Chi-square results**

Variable		Awareness of CVD Risks		P-Value
		Yes	Non-Yes	
Individual characteristics				
Gender	Female	94	232	0.05997
	Male	107	177	
	Other gender-identified	1	1	
Age	11 – 20 years old	0	0	7.019e-15* (0.000000000000007019)
	21 – 30 years old	27	19	
	31 – 40 years old	58	54	
	41 – 50 years old	39	48	
	51 – 60 years old	25	64	
	61 – 70 years old	14	111	
	71 – 80 years old	20	78	
	81 years or older	1	16	
Race	White	81	99	0.002546*
	Black / African American	77	208	
	Asian	3	3	
	American Indian / Alaska Native	1	3	
	Native Hawaiian / Pacific Islander	1	0	
	Other identified	0	1	
	Do not know/unable to answer	0	2	
Income	< \$12,999	5	21	0.0003134*
	\$13,000-\$24,999	15	36	
	\$25,000-44,999	21	46	
	\$45,000-64,999	20	80	
	\$65,000-84,999	37	55	
	\$85,000-104,999	32	42	
	\$105,000-124,000	34	30	
	\$125,000-144,999	12	24	
	> \$145,000	21	60	
	Do not know/ unable to answer	5	18	
Education	Elementary or Middle School	2	3	0.137
	General Education Development	9	44	

	(GED)/High School Diploma			
	Vocational/Technical School	14	25	
	Community College	26	59	
	College/University (BA, BS)	62	122	
	Graduate Degree	88	151	
	Do not know/unable to answer	0	3	
Accessibility				
Primary Care Transportation Time	Less than 15 Minutes	22	73	0.03912*
	15-30 minutes	87	182	
	30-45 minutes	63	96	
	45 minutes – 1 hour	23	41	
	More than 1 hour	7	12	
	Not applicable	0	8	
Oncology Transportation Time	Less than 15 Minutes	11	20	0.02188*
	15-30 minutes	69	123	
	30-45 minutes	75	133	
	45 minutes – 1 hour	37	81	
	More than 1 hour	9	32	
	Not applicable	1	23	
Difficulty in seeing Primary Care Provider	Never	43	176	4.764e-08* (0.00000004764)
	Rarely	58	112	
	Sometimes	56	76	
	Often	27	25	
	Always	14	10	
	Not applicable	1	12	
Reliable Transportation	Never	9	24	5.781e-07* (0.0000005781)
	Rarely	9	13	
	Sometimes	44		
	Often	39		
	Always	99		
	Not applicable	1		
Transportation Method	Car (self-drive or have someone	81	249	5.639e-14* (0.0000000000005639)



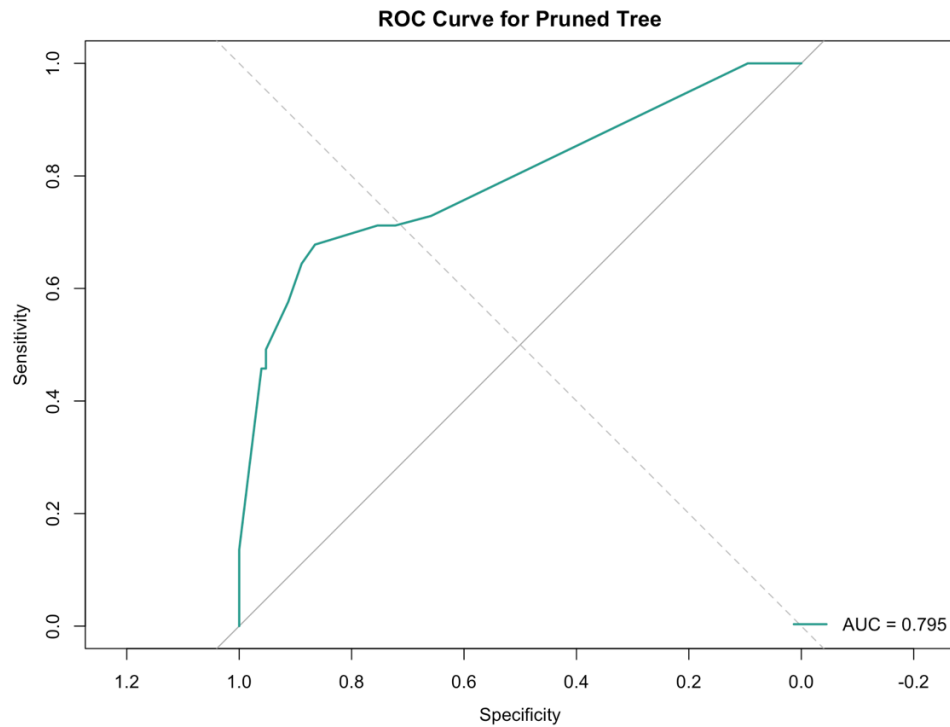
	that you know drive you)			
	Uber/Lyft/Zipcar	35	16	
	Bus	13	12	
	Train	9	2	
	Taxi	15	4	
	Other	2	5	
Cancer Survivors' Health Condition				
Hypertension	Yes	135	254	0.4567
	No	64	151	
	I don't know	3	7	
High Cholesterol	Yes	102	223	0.6954
	No	96	181	
	I don't know	4	8	
Diabetes	Yes	63	106	0.05983
	No	134	303	
	I don't know	5	3	
Smoking	Yes	92	137	0.01073*
	No	106	268	
	I don't know	4	7	
Engagement in regular health checkups				
Visit to Primary Care	Once a year	36	104	2.672e-08* (0.00000002672)
	Several times a year	74	214	
	Once a month	36	42	
	2-4 times a month	46	39	
	More than 4 times a month	10	5	
Visit to Oncology Doctor	Once a year	18	77	3.197e-06* (0.000003197)
	Several times a year	77	193	
	Once a month	46	56	
	2-4 times a month	52	56	
	More than 4 times a month	8	7	
ASCVD Risk				
ASCVD Risk Category	Low	138	173	1.306e-10* (0.000000001306)
	Borderline	10	29	
	Intermediate	23	108	
	High	13	80	

\*Statistically significant at the 0.05 level

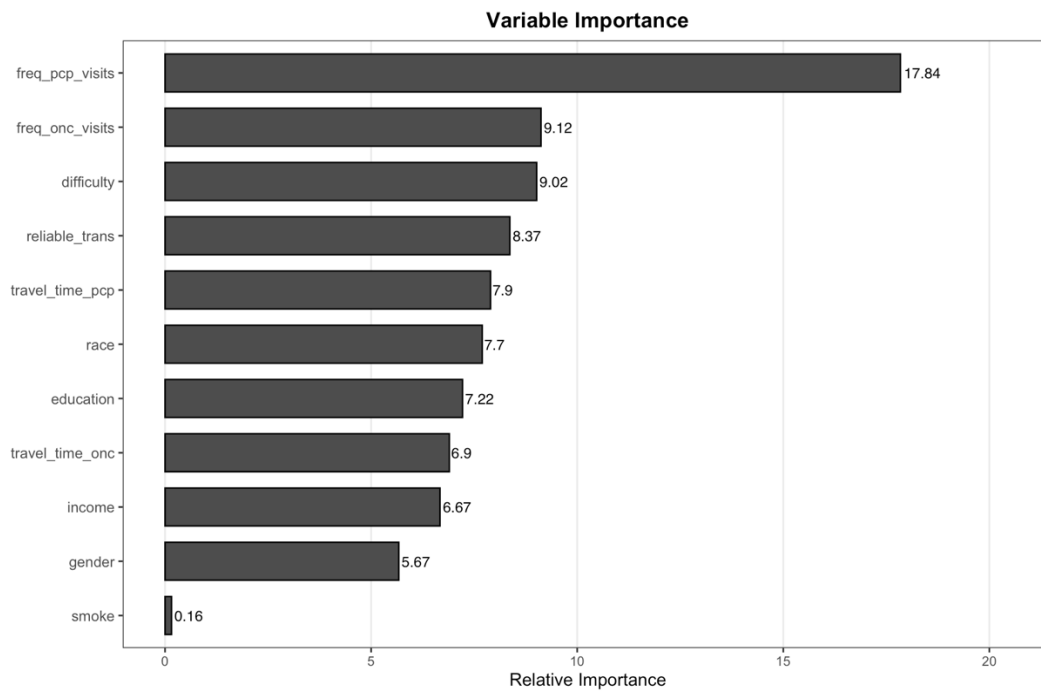
**Supplementary Table 3. Pruned Tree Accuracy**

Metric	Value
Accuracy	81.08% (95% CI: 74.68–86.45)
No Information Rate	68.1%
P-value (Accuracy > NIR)	< 0.001
Sensitivity	64.4%
Specificity	88.8%
Positive Predictive Value (PPV)	73%
Negative Predictive Value (NPV)	84.2%
Balanced Accuracy	76.65%
Cohen's Kappa	0.5503
McNemar's Test P-value	0.3105

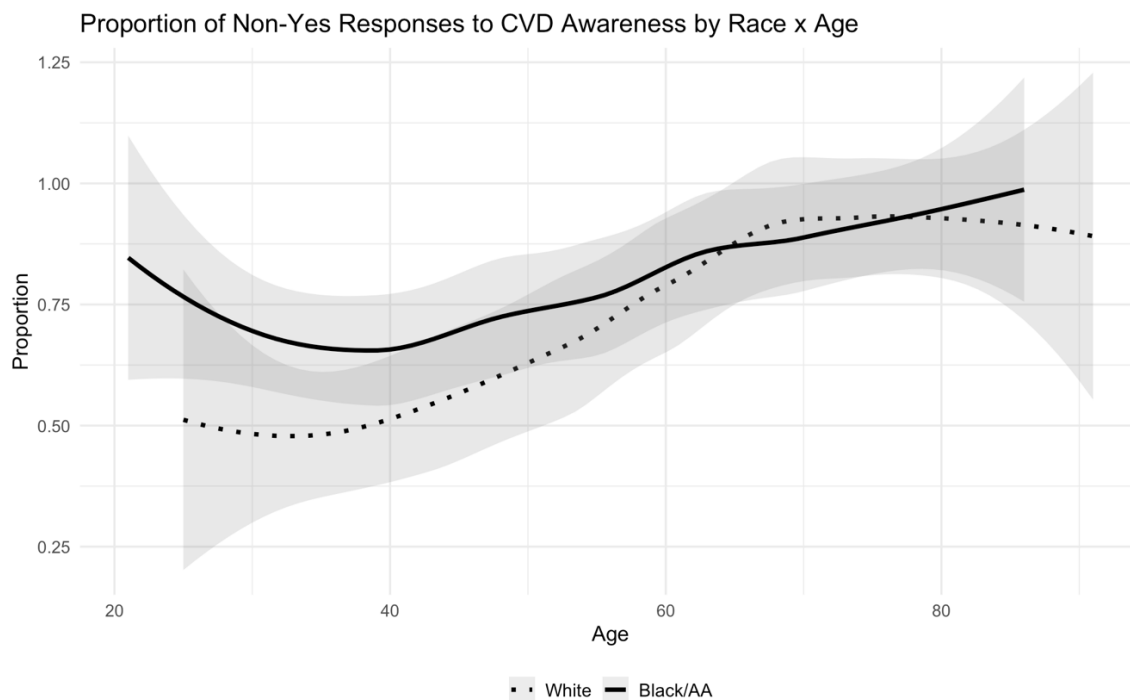
**Supplementary Figure 3. ROC Curve**



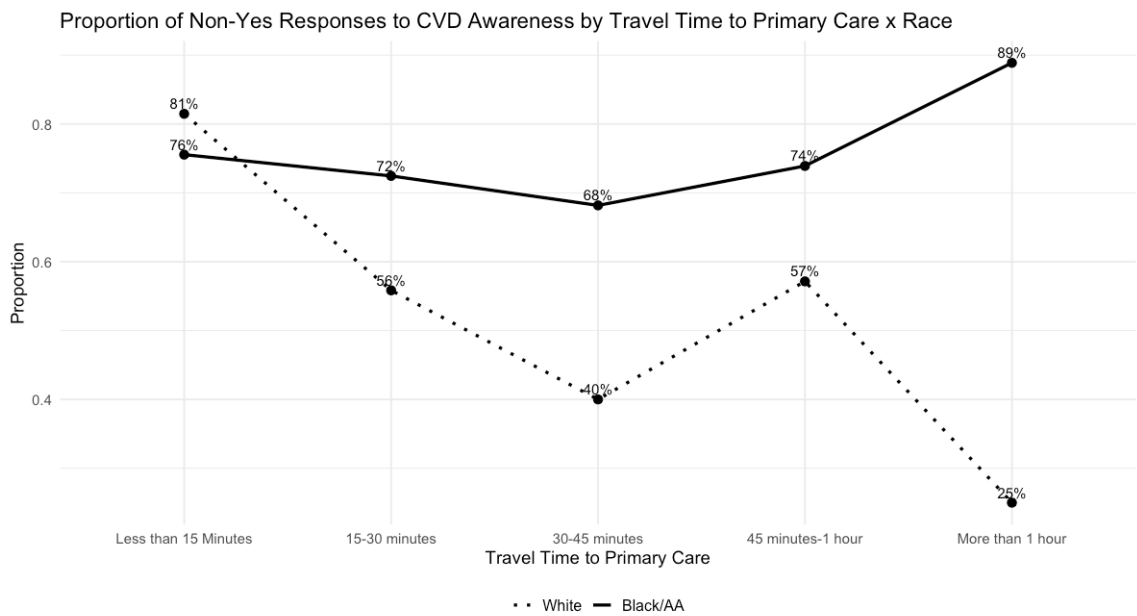
**Supplementary Figure 4. Variable Importance**



**Supplementary Figure 5. Proportion of Non-Awareness to CVD Risk by Race x Age**



**Supplementary Figure 6. Proportion of Non-Awareness to CVD Risk by Travel Time to Primary Care x Race**



**Supplementary Figure 7. Proportion of Non-Awareness to CVD Risk by Travel Time to Oncology x Race**

