

APPENDIX

Appendix A. Variables used for statistical analysis across years within the BRFSS datasets

Consistent variables across years of BRFSS datasets: type of cancer (CNCRTYP1), age (_AGE80), income (_INCOMG), smoking status (SMOKER3), body mass index (_bmi5cat), physical health status (_PHYS14D), and physical activity or exercise (_TOTINDA).

Inconsistent variables across years of BRFSS datasets gender (SEX in 2016/2017, SEX1 in 2018, and _SEX in 2019/2020) and treatment status (CSRVTRT1 in 2016, CSRVTRT2 in 2017/2018, and CSRVTRT3 in 2019/2020).

All variables of interest were got a unified label before appending the datasets for analysis.

Appendix B. Sensitivity analysis for time from diagnosis to survey		
Variables	Odds ratio (95% CI)	P
Age (continuous)	0.96 (0.94–0.99)	0.013
Time from diagnosis to survey	0.99 (0.96–1.02)	0.612
Gender		
Female	Ref	
Male	1.15 (0.64–2.06)	0.639
Income		
\$0–14 999	Ref	
\$15 000–24 999	0.58 (0.22–1.53)	0.269
\$25 000–34 999	0.42 (0.14–1.30)	0.133
\$35 000–49 999	0.38 (0.14–1.02)	0.054
\$50 000 or more	0.40 (0.16–0.99)	<0.048
Smoking status		
Never smoked	Ref	
Current smoker	2.52 (1.15–5.49)	0.020
Former smoker	1.80 (0.92–3.50)	0.086
Body mass index		
Normal weight (18.5–24.9)	Ref	
Underweight (<18.5)	1.28 (0.18–9.20)	0.807
Overweight (25–29.9)	1.26 (0.60–2.64)	0.545
Obese (>30)	1.79 (0.85–3.76)	0.123
Are you currently receiving treatment for cancer?		
No, I've completed treatment	Ref	
Yes	2.18 (1.41–5.58)	0.003

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No, I haven't started treatment	1.45 (0.40–5.22)	0.573
Don't know/not sure	0.94 (0.11–8.01)	0.956
Treatment was not necessary	1.49 (0.66–3.38)	0.338
Physical activity/exercise outside of regular job in last 30 days		
No physical activity in last 30 days	Ref	
Yes, physical activity in last 30 days	0.39 (0.23–0.67)	<0.001