

# Vermont State Cancer Plan 2018: Midterm Status Report

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Cancer Plan Objective # (*sub-objective)		Data Source	Baseline Year(s)	Baseline Value	Current Year(s)	Current Value	2020 Target	Midterm Progress
<b>Reduce disparities in behavioral risks, early detection, treatment and survivorship of cancer in Vermont</b>								
1	Disparities Goal/Objectives (no specific objectives)							
<b>Prevention: Prevent cancer from occurring or recurring</b>								
2.1	Decrease % of adults who smoke cigarettes.	BRFSS	2014	18%	2016	18%	12%	
2.1a*	Decrease % of adults below 250% of FPL who smoke cigarettes.	BRFSS	2014	29%	2016	28%	12%	
2.1b*	Decrease % of adult cancer survivors who smoke cigarettes.	BRFSS	2014	26%	2016	25%	12%	
2.2	Decrease % of adolescents in grades 9-12 who smoke cigarettes.	YRBS	2015	11%	2017	9%	10%	★
2.3	Increase % of adult smokers attempting to quit in the past year.	BRFSS	2014	59%	2016	49%	80%	✘
2.4	Decrease % of adult non-smokers exposed to secondhand smoke. <sup>§</sup>	ATS	2014	48%	2016	44%	30%	
2.5	Decrease incidence rate of tobacco-associated cancers. (Per 100,000 persons) <sup>†</sup>	VCR	2008-2012	197.5	2011-2015	167.6	202.8	
3.1	Increase % of adults using the dental system yearly.	BRFSS	2014	72%	2016	71%	85%	
3.1a*	Increase % of adult cancer survivors who use the dental system yearly.	BRFSS	2014	70%	2016	67%	85%	
3.2	Increase % of children in grades K-12 using the dental care system yearly. <sup>‡</sup>	School Nurse Reports	2014	K-6: 74%	2017	K-6: 77%	K-6: 80%	★
			2014	7-12: 60%	2017	7-12: 62%	7-12: 70%	★
4.1	Decrease % of adults age 20+ who are obese.	BRFSS	2014	25%	2016	28%	20%	
4.1a*	Decrease % of adults age 20+ below 250% of the FPL who are obese.	BRFSS	2014	31%	2016	32%	20%	
4.1b*	Decrease % of cancer survivors age 20+ who are obese.	BRFSS	2014	21%	2016	36%	20%	

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4.2	Decrease % of adolescents in grades 9-12 who are obese.	YRBS	2015	12%	2017	13%	8%	
4.3	Increase % of adults who meet physical activity guidelines.	BRFSS	2013	59%	2015	59%	65%	
4.4	Increase % of adults eating the daily recommended servings of fruits per day.	BRFSS	2013	35%	2015	32%	45%	
	Increase % of adults eating the daily recommended servings of vegetables per day.	BRFSS	2013	18%	2015	20%	35%	
4.5	Increase % of adolescents in grades 9-12 eating the daily recommended servings of fruits per day.	YRBS	2015	34%	2017	33%	40%	✘
	Increase % of adolescents in grades 9-12 eating the daily recommended servings of vegetables per day.	YRBS	2015	18%	2017	18%	20%	
4.6	Decrease incidence rate of obesity-associated cancers. (Per 100,000 persons) <sup>†</sup>	VCR	2008-2012	172.2	2011-2015	156.3	194.6	
5.1	Increase % of females & males age 13-17 years receiving at least one dose of HPV vaccine. ■	IMR	2014	F: 67%	2017	F: 73%	F: 70%	
			2014	M: 54%	2017	M: 68%	M: 57%	
5.2	Increase % of females & males age 13-17 years who are up-to-date on HPV vaccinations. (modification of VCP objective based on new guidelines) ■ <sup>Δ</sup>	IMR	2014	F: 46%	2016	F: 60%	F: 48%	◆
			2014	M: 30%	2016	M: 51%	M: 32%	◆
5.3	Increase % of adolescents who have started the HPV series by age 15. ■	IMR	2014	36%	2017	52%	38%	
5.4	Decrease incidence rate of HPV-associated cancers. (Per 100,000 persons) <sup>†</sup>	VCR	2008-2012	10.9	2011-2015	10.6	9.9	
6.1	Decrease % of youth in grades 6-8 reporting sunburns in the past 12 months.	YRBS	2015	54%	No data available	No data available	51%	
	Decrease % of youth in grades 9-12 reporting sunburns in the past 12 months.	YRBS	2015	65%	No data available	No data available	61%	

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6.2	Decrease % of youth in grades 9-12 who have used a tanning booth or sun lamp in the past 12 months.	YRBS	2015	4%	No data available	No data available	3%	
6.3	Decrease incidence rate of invasive melanoma. (Per 100,000 persons)	VCR	2008-2012	29.0	2011-2015	33.1	27.6	✘
6.4	Increase % of households that install a radon mitigation system when they receive a high radon test result.	Radon Program	2015	49%	2017	39%	55%	
6.5	Increase % of persons served by public water supplies that meet Safe Drinking Water Act standards. ††	VT DEC	2014	97%	2017	100.0%	100%	
<b>Early Detection: Detect cancer at its earliest stage</b>								
7.1	Increase % of adults age 50-75 who received recommended colorectal cancer screening.	BRFSS	2014	71%	2016	72%	80%	
7.1a*	Increase % of adults age 50-75 below 250% of FPL who received recommended colorectal cancer screening.	BRFSS	2014	61%	2016	64%	80%	
7.1b*	Increase % of adults age 50-64 who received recommended colorectal cancer screening.	BRFSS	2014	67%	2016	69%	80%	
7.2	Reduce rate colorectal cancers diagnosed at an advanced stage among adults age 50+. (Per 100,000 persons)	VCR	2008-2012	62.4	2011-2015	60.6	59.3	
8.1	Increase % of women age 21-65 who received a Pap test in the past three years. **	BRFSS	2014	86%	2016	80%	100%	
8.1a*	Increase % of women age 21-65 below 250% FPL who received a Pap test in the past three years. **	BRFSS	2014	82%	2016	74%	100%	
8.2	Decrease rate of cervical cancer diagnosed at an advanced stage among women age 20+. (Per 100,000 women)	VCR	2008-2012	2.0	2011-2015	1.8	1.9	
9.1	Increase % of women age 50-74 who received a mammogram in the past two years.	BRFSS	2014	79%	2016	79%	95%	
9.1a*	Increase % of women age 50-74 below 250% FPL who received a mammogram in the past two years.	BRFSS	2014	70%	2016	72%	95%	

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9.1b*	Increase the number of women age 50-74 who received a mammogram in the past two years as documented in the VT Mammography Registry. <sup>ΔΔ</sup>	VMR	2012-2013	60,531	2015-2016	61,671	63,558	
9.2	Decrease rate of breast cancer diagnosed at an advanced stage among women age 50+. (Per 100,000 women)	VCR	2008-2012	96.5	2011-2015	91.8	91.7	
9.3	Decrease rate of breast cancer diagnosed at an advanced stage among women age 40-49. (Per 100,000 women)	VCR	2008-2012	64.7	2011-2015	65.0	61.5	
9.4	Increase % of women age 40-49 that talk to their provider about breast cancer risk & screening. (Developmental objective)	N/A	No data available	No data available	No data available	No data available	N/A	
10.1	Decrease rate of lung cancer diagnosed at an advanced stage among adults 55+. (Per 100,000 persons)	VCR	2008-2012	210.0	2011-2015	193.6	199.5	
10.2	Decrease % of lung cancers diagnosed at an advanced stage among adults 55+.	VCR	2008-2012	80%	2011-2015	74%	76%	
10.3	Increase % of adults age 55-80 that are current or former smokers (quit within 15 years) with no history of cancer that had discussed lung cancer screening with a health care provider.	ATS	No data available	No data available	No data available	No data available	N/A	
11.1	Increase % of primary care providers who conduct prostate cancer risk assessment with their adult male patients ages 50-70. (Developmental objective)	N/A	No data available	No data available	No data available	No data available	N/A	
<b>Cancer Directed Therapy &amp; Supportive Care: Treat cancer with appropriate, quality care</b>								
12.1	Increase % of prospective cases presented at a multi-disciplinary cancer conference at CoC-accredited cancer programs.	CoC Accredited Programs	2014	96%	2017	96%	100%	
12.2	Increase % of annual analytical cases accrued to clinical trials at CoC-accredited cancer programs.	CoC Accredited Programs	2014	21%	2017	17%	22%	

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12.3	Increase % of CoC Quality of Care Measures with national benchmarks that are met or exceeded by CoC-accredited cancer programs.	NCDB	2013	86%	No data available	No data available	90%	
13.1	Increase number of palliative care health care providers (MDs, APNs, and RNs) practicing in Vermont.	ABMS (physician) HPCC (nurses)	2014 (physicians) 2015 (nurses)	Phys.: 23; Nurses: 57	2016-2017 (Physicians); 2018 (Nurses)	Phys.: 27; Nurses: 59	Phys.: 25; Nurses: 60	
14.1	Increase % of VT CoC-accredited cancer programs with associated Complementary Integrative Medicine practitioners utilizing evidence-based methods such as acupuncture &/or massage therapy.	CoC Accredited Programs	2015	83%	2017	60%	100%	
<b>Survivorship &amp; End-of Life Care: Assure the highest quality of life possible for cancer survivors</b>								
15.1	Increase the % of cancer patients treated by CoC-accredited cancer programs who have received survivorship care plans.	CoC Accredited Programs	2014	2%	2017	54%	100%	★
16.1	Decrease % of adult cancer survivors reporting poor mental health on most days.	BRFSS	2014	11%	2016	18%	10%	✘
16.2	Increase % of adult cancer survivors who report always or usually receiving social and emotional support needed.	BRFSS	2014	81%	2016	82%	90%	
16.3	Increase % of adult cancer survivors who report that their general health is good to excellent.	BRFSS	2014	72%	2016	68%	85%	
16.4 a, b,c* - Cancer survivor-specific prevention sub-objectives (2.1b, 3.1a, 4.1b)				See above				
17.1	Increase % of people who died from cancer who received hospice care within the 30 days before death.	Vital Stats	2013	72%	2016	74%	77%	
17.2	Increase average number of hospice days during the last month of life for Medicare beneficiaries age 66-99 with a poor prognosis cancer diagnosis.	Atlas of Health Care (Dartmouth)	2012	8.3	No data available	No data available	8.7	

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18.1	Increase the number enrolled each year in the Vermont Advanced Directives Registry (ADR).	ADR	2014	5,618	2017	4,686	5,899	

§ Baseline and current values are age-adjusted to the 2000 U.S. population to be consistent with other Healthy Vermonters 2020 objectives. They cannot be compared to earlier published values. This baseline value and current value cannot be compared to the target value because the target value is not age-adjusted.

△ Current values cannot be compared to baseline or target values. For objective 5.2, the recommendation for HPV vaccinations has changed since 2016, for more information, please visit

<https://www.cdc.gov/vaccines/vpd/hpv/hcp/recommendations.html>

△△ Current values cannot be compared to baseline or target values. For objective 9.1b, typically Vermont residency status is determined using the zip code given by the patient at the time of the mammography. For the 2015-2016 value, 11% of patients did not report their zip code. As a result, the patient's zip code from a previous mammography was used instead.

\*\* Due to a difference in how the cervical cancer questions were asked in 2016\*\*\*, comparisons over time cannot be made.

\*\*\* Usually women who have had a hysterectomy are excluded from cervical cancer screening calculations. In 2016, women 45-65 were not asked whether they've had a hysterectomy, and as such the proportion meeting PAP test screening recommendations is underestimated.

† Baseline values and 2020 targets were recalculated using the CDC methodology released in October 2017 and cannot be compared to earlier published values. For more information on CDC methodology, please visit,

<https://www.cdc.gov/cancer/npcr/pdf/public-use/predefined-seer-stat-variables.pdf>

Current values were calculated using the CDC methodology released in April 2018 (limited to microscopically confirmed diagnoses only) and cannot be compared to baseline or 2020 target values.

‡ Use caution when interpreting statistical significance. Self-reported data is gathered each year by a parent/caregiver survey. Missing responses are counted as a student who did not have a dental visit. An increase in the percentage of children visiting the dentist may reflect less missing data. A greater proportion of missing responses occurs for grades 7-12 in comparison to grades K-6.

▪ Baseline and current values are exact and are calculated based on provider immunization records for **all** persons born in (or seeking medical care in) Vermont.

‡‡ Current value cannot be compared to baseline value as a Revised Total Coliform Rule went into effect 4/1/2016. This revised rule eliminated a non-acute total coliform measurement from the maximum contaminant level (MCL) criteria. This revised criteria increases the proportion of the population meeting health-based standards.

To learn more about the Comprehensive Cancer Control Program in Vermont, please visit, <http://www.healthvermont.gov/wellness/cancer>.