



HPV Vaccine Quality Improvement Study Quarterly Data & Feedback Report

Practice ID:	15		
Baseline Period:	Jan-Dec 2017	Date of Data Pull:	1/29/2020
MOC Project Periods:	Jan-Dec 2018	Data through:	2020 Week 1

This Data and Feedback Report complements the weekly run chart data reports you receive from VHealth.

In this report, we present your data in the form of control charts, which allow us to apply some statistical rules to determine whether or not movements in the data over time represent real shifts in the outcome measures rather than just random variation.

We have included a written summary interpreting each measure for you -- what we see, what it could mean, and recommended actions for your consideration.

Data Summary & Feedback

Report Period: October - December 2019

1st MOC Project Change Options: B - Patient Education Materials, F - Reminders for Due/Overdue Well Visits

2nd MOC Project Change Options: D - Reminders for Follow Up HPV Doses, G - Vaccines in Non-Well Visits

Summary Measure #1: 1+ Dose (Initiation) Among entire active patient population		
What we see	What it could mean	Recommended actions
<p>Baseline and all quarters through Y2Q4 are higher than TN and US percentages for the 13-17 age group. <i>Note: both the TN and US rates for 2018 are higher than the 2017 rates.</i></p> <p>For ages 11-17, there is a 2.5 percentage point increase from baseline to end of Y2Q4. For ages 13-17, an increase of 3.8 percentage points.</p>	<p>Your practice has a strong foundation of effective processes in place for initiating the vaccine and has sustained these processes over time.</p> <p>Your practice is making slight progress, with small gains most quarters.</p>	<p>Continue to include data review as a standing agenda item in meetings. As necessary, remind providers and staff of the adopted workflows to continue your improvement trend.</p> <p>Continue to monitor over time to hold your gains and continue to improve.</p>
Summary Measure #2: All Doses (Complete) Among entire active patient population		
What we see	What it could mean	Recommended actions
<p>Baseline through Y2Q4 are higher than TN percentages for the 13-17 age group. Starting in Y1Q2, all quarters are above both TN and US 2018 rates. <i>Note: both the TN and US rates for 2018 are higher than the 2017 rates.</i></p> <p>For ages 11-17, there is a 2.6 percentage point increase from baseline to end of Y2Q4. For ages 13-17, an increase of 4.3 percentage points.</p>	<p>There is some progress in completion rates, but greater increases are needed for a significant improvement.</p> <p>Your practice is making slight progress, with small gains most quarters.</p>	<p>Continue to monitor over time to hold your gains and continue to improve.</p> <p>Continue to monitor over time to hold your gains and continue to improve.</p>
Weekly Measure #1: HPV Dose Due (Well)		
<i>WELL visits with patients up-to-date for HPV vaccine (% of visits with HPV due, ages 11-17)</i>		
What we see	What it could mean	Recommended actions
<p>Baseline mean (average) of 63% of patients who were due, received an HPV vaccine dose during well visits. The mean increased in March and again in April to 80%, but dropped to 62% in August 2019 and remains at 62% through December 2019.</p>	<p>The improvement was sustained for several months, but dropped back to baseline level. New workflows for integrating patient education and reminders to parents had a temporary positive impact.</p>	<p>Revisit use of patient education materials and workflows for reminders to parents to determine if any adjustments are needed. Review use of materials for hesitant parents. Discuss possible reasons for the drop in August and address.</p>
Weekly Measure #2: HPV Dose Due (Non-Well)		
<i>NON-WELL visits with patients up-to-date for HPV vaccine (% of visits with HPV due, ages 11-17)</i>		
What we see	What it could mean	Recommended actions
<p>Baseline mean (average) is 6% and remains the same through December 2019. Several data spikes are above the upper control limit and above the mean.</p>	<p>Your implementation of offering the HPV vaccine during non-well visits is having an impact, but not a sustained improvement.</p>	<p>Review the data with providers. Discuss the current workflow for offering the vaccine in non-well visits and address any obstacles.</p>

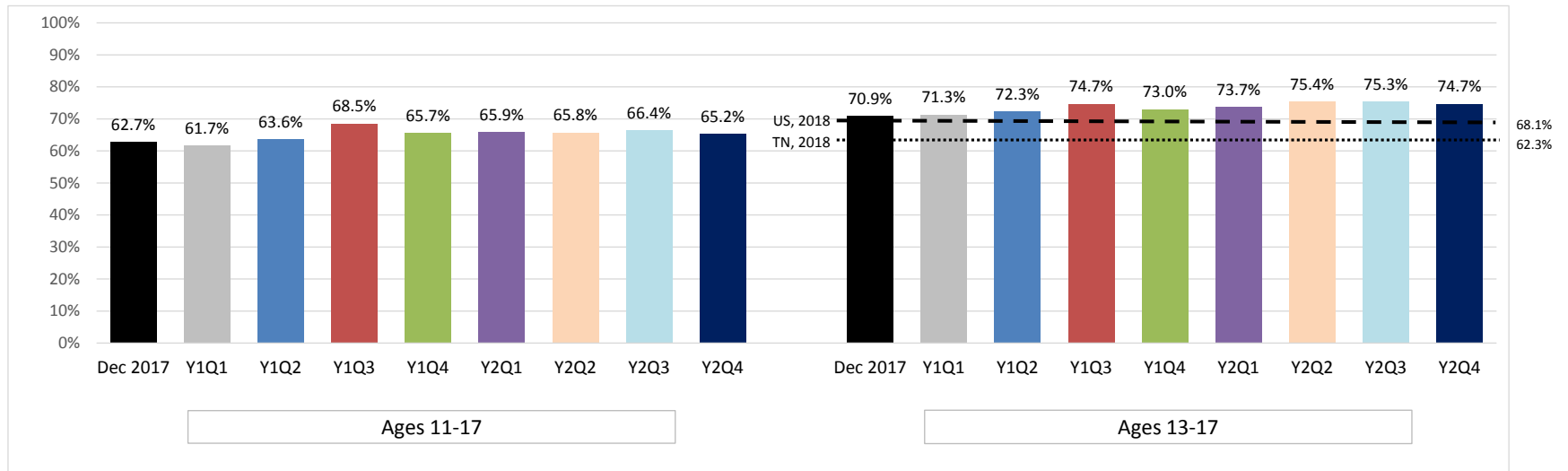
Data Summary & Feedback

Report Period: October - December 2019

Weekly Measure #3: HPV Dose Due (All)		
<i>ALL visits with patients up-to-date for HPV vaccine (% of visits with HPV due, ages 11-17)</i>		
What we see	What it could mean	Recommended actions
Baseline mean (average) increased from 29% to 40% to 58%, dropped to 39%, 26%, increased to 38% and remains at 38% through December 2019. This measure is a combination of Measures #1 and #2.	Increases during the summer months is a common seasonal pattern.	Continue to offer the vaccine during non-well visits. Review the workflow; discuss any obstacles providers may be encountering and address, as necessary. Monitor the data over time.
Weekly Measure #4: HPV Recommend-Well		
<i>WELL visits with documented provider recommendation (given or refused) (% of visits with HPV due, ages 11-17)</i>		
What we see	What it could mean	Recommended actions
This measure shows provider recommendation in well visits, counted as vaccines given plus vaccines refused (if documented). The pattern and data are almost identical to Measure #1.	Providers are not documenting refusals during well visits using the codes provided or, if documenting, we may need to adjust how VHealth pulls your documented refusals.	Discuss with your team where and how they are documenting refusals for well visits. Review "dummy refusal codes." If needed, submit a technical assistance ticket to VHealth to determine if they are capturing documented refusals.
Weekly Measure #5: HPV Recommend-All		
<i>ALL visits with documented provider recommendation (given or refused) (% of visits with HPV due, ages 11-17)</i>		
What we see	What it could mean	Recommended actions
This measure shows provider recommendation in ALL visits, counted as vaccines given plus vaccines refused (if documented). The pattern and data are almost identical to Measure #3.	Providers are not documenting refusals during non-well visits using the codes provided or, if documenting, we may need to adjust how VHealth pulls your documented refusals. The upward shift is the same shift as in Measure #3.	Discuss with your team where and how they are documenting refusals for well and non-well visits. Review "dummy refusal codes." If needed, submit a technical assistance ticket to VHealth to determine if they are capturing documented refusals.
Weekly Measure #6: Bundle Adol Vax		
<i>Visits for ages 11-12 year-olds in which HPV & meningococcal vaccines are bundled with Tdap, when due (% of visits, ages 11-12)</i>		
What we see	What it could mean	Recommended actions
The mean (average) increased from 38% to 82% after the HPV Vaccine Study orientation in November 2017. The new mean of 82% is sustained through December 2019.	Implementation of vaccine communication strategies and patient education materials appears to have resulted in a sustained improvement in bundled adolescent vaccines.	Review the data with providers. Discuss obstacles to bundling for all 11-12 year old visits and identify ways to minimize or eliminate them. Continue to monitor over time to sustain your improvements.

Summary Measure: 1+ Dose (Initiation)

Note: US and TN data were updated for 2018

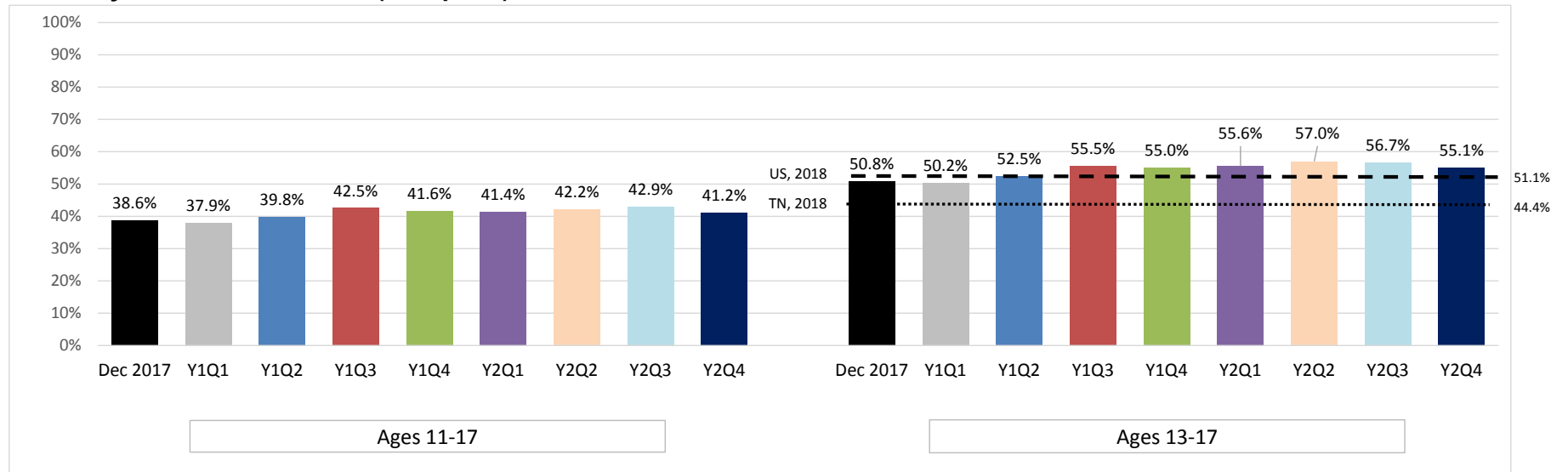


Notes: Rates are for males and females combined.
Practice rates calculated on all active patients (at least one visit in past three years), ages 11-17 or ages 13-17, as indicated.

	Baseline			First MOC Project						Second MOC Project						Maintenance Period											
	Dec 2017			Y1Q1			Y1Q2			Y1Q3			Y1Q4			Y2Q1			Y2Q2			Y2Q3			Y2Q4		
	#	Total	%	#	Total	%	#	Total	%	#	Total	%	#	Total	%	#	Total	%	#	Total	%	#	Total	%	#	Total	%
Ages 11-17	1112	1773	63%	1111	1800	62%	1159	1822	64%	1263	1843	69%	1295	1972	66%	1322	2005	66%	1340	2038	66%	1396	2101	66%	1409	2160	65%
Ages 13-17	824	1162	71%	835	1171	71%	862	1193	72%	912	1221	75%	935	1281	73%	967	1312	74%	1019	1351	75%	1057	1403	75%	1081	1447	75%

Summary Measure: All Doses (Complete)

Note: US and TN data were updated for 2018



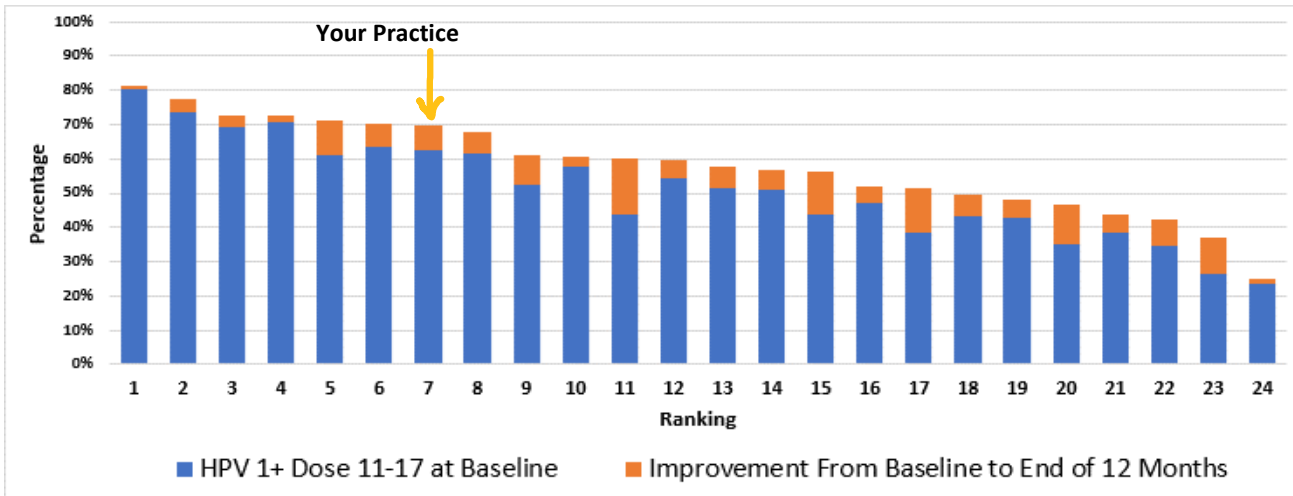
Notes: Rates are for males and females combined.

Practice rates calculated on all active patients (at least one visit in past three years), ages 11-17 or ages 13-17, as indicated.

	Baseline			First MOC Project						Second MOC Project						Maintenance Period											
	Dec 2017			Y1Q1			Y1Q2			Y1Q3			Y1Q4			Y2Q1			Y2Q2			Y2Q3			Y2Q4		
	#	Total	%	#	Total	%	#	Total	%	#	Total	%	#	Total	%	#	Total	%	#	Total	%	#	Total	%	#	Total	%
Ages 11-17	685	1773	39%	682	1800	38%	725	1822	40%	784	1843	43%	820	1972	42%	830	2005	41%	861	2038	42%	902	2101	43%	890	2160	41%
Ages 13-17	590	1162	51%	588	1171	50%	626	1193	52%	678	1221	56%	705	1281	55%	729	1312	56%	770	1351	57%	795	1403	57%	797	1447	55%

Measure: HPV 1+ Dose 11-17 yo

Description: Ranking of HPV vaccine initiation of all active patients ages 11-17 (%) among study sites



Your practice ranked **7th** in **initiating** the HPV vaccine series among patients ages 11-17.

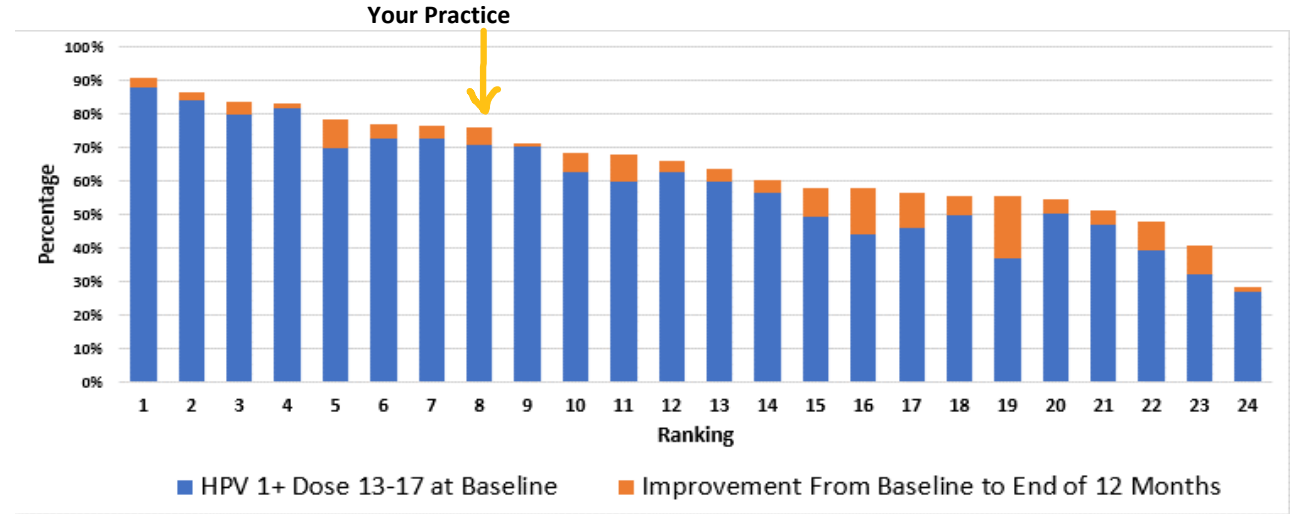
Baseline: 62.7% (Dec 2017).

End of 12 months: 69.8% (Dec 2018).

Improvement: 7.1 percentage point increase in 12 months.

Measure: HPV 1+ Dose 13-17 yo

Description: Ranking of HPV vaccine initiation of all active patients ages 13-17 (%) among study sites



Your practice ranked **8th** in **initiating** the HPV vaccine series among patients ages 13-17.

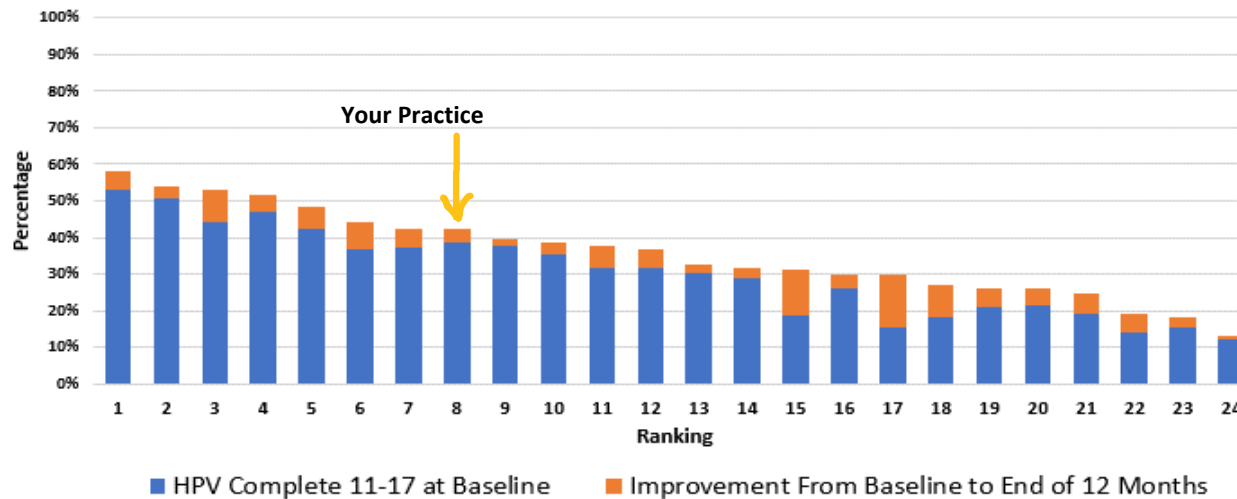
Baseline: 70.9% (Dec 2017).

End of 12 months: 76.1% (Dec 2018).

Improvement: 5.2 percentage point increase in 12 months.

Measure: HPV Complete 11-17 yo

Description: Ranking of HPV vaccine completion of all active patients ages 11-17 (%) among study sites



Your practice ranked **8th** in **completing** the HPV vaccine series among patients ages 11-17.

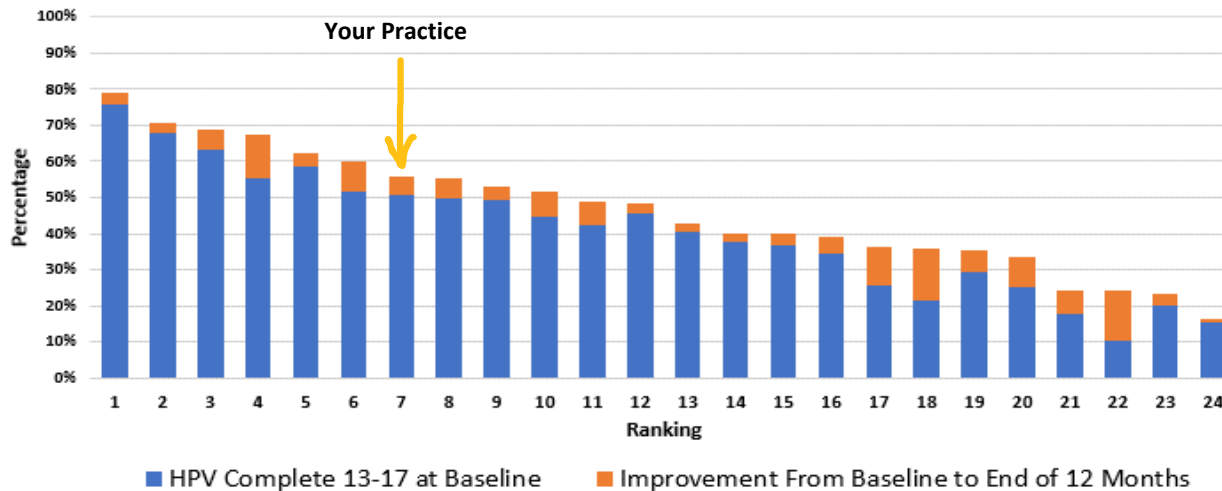
Baseline: 38.6% (Dec 2017).

End of 12 months: 42.3% (Dec 2018).

Improvement: 3.7 percentage point increase in 12 months.

Measure: HPV Complete 13-17 yo

Description: Ranking of HPV vaccine completion of all active patients ages 13-17 (%) among study sites



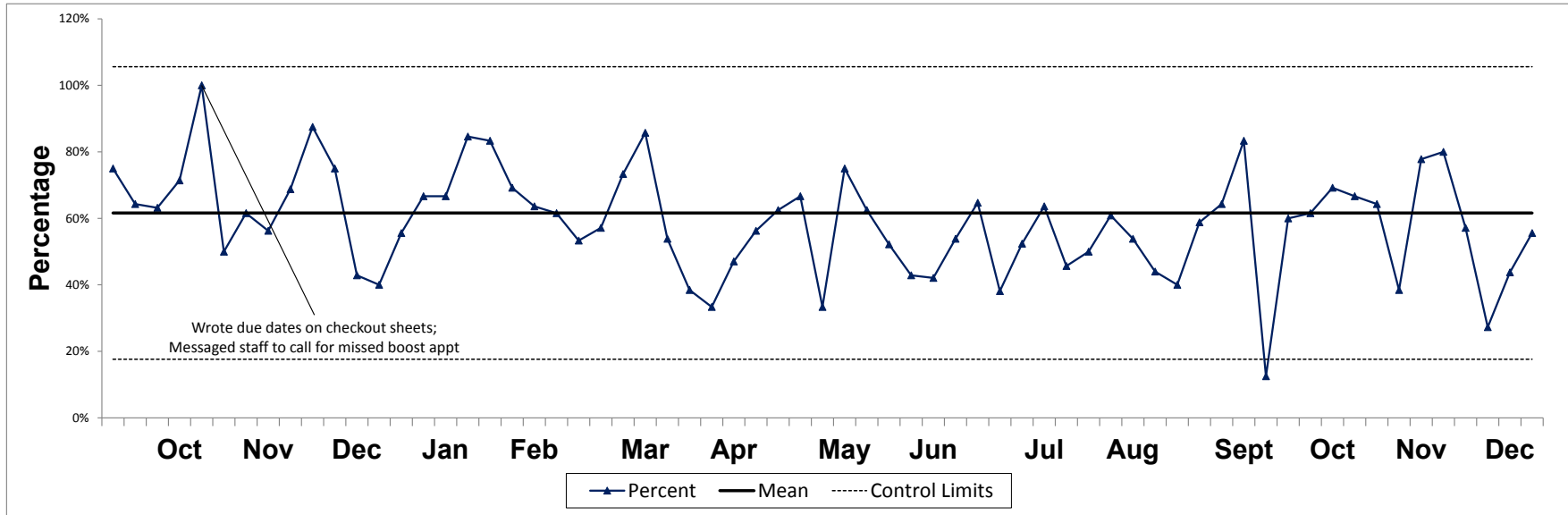
Your practice ranked **7th** in **completing** the HPV vaccine series among patients ages 13-17.

Baseline: 50.8% (Dec 2017).

End of 12 months: 55.6% (Dec 2018).

Improvement: 4.8 percentage point increase in 12 months.

Weekly Measure #: 1
 Name: HPV Dose Due (Well)
 Description: WELL visits with patients up-to-date for HPV vaccine (% of visits with HPV due, ages 11-17)



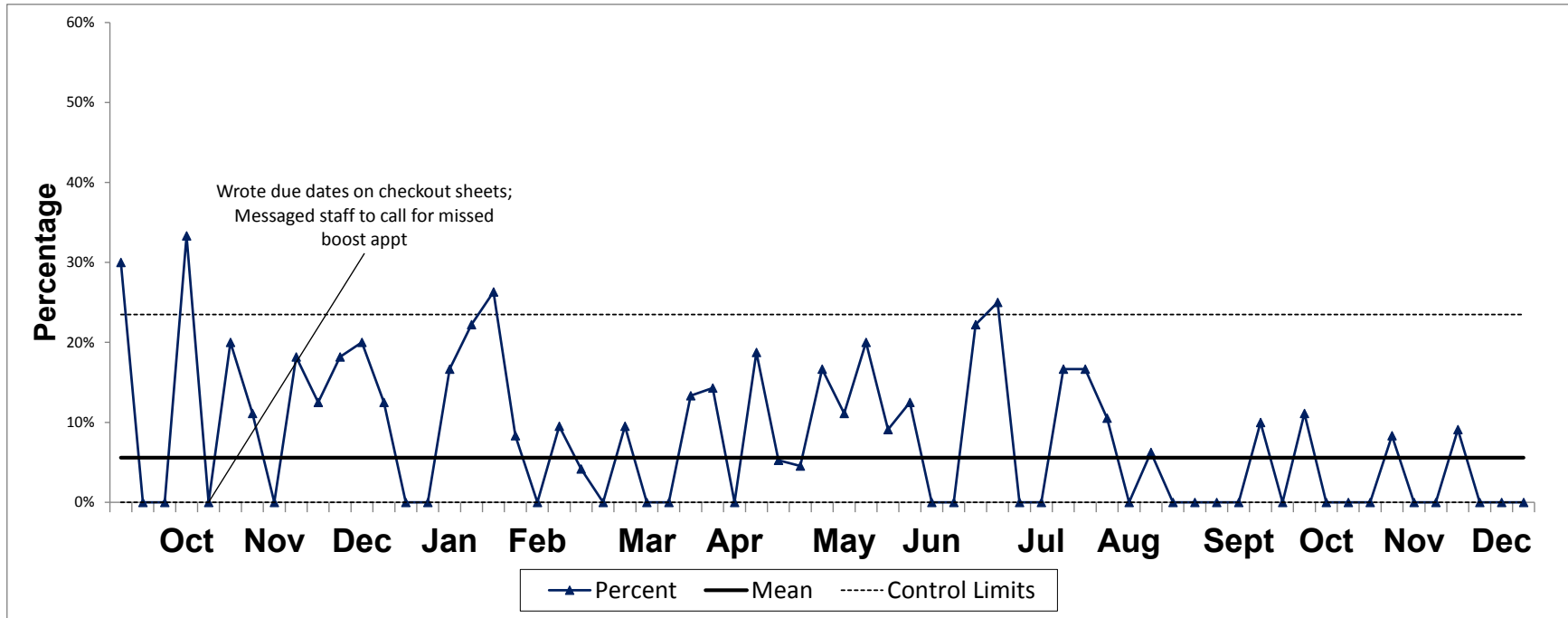
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2017	1	2	3	4	5	6	7	8	9	10	11	12
2018	13	14	15	16	17	18	19	20	21	22	23	24
2019	25	26	27	28	29	30	31	32	33	34	35	36

	Jul	Aug	Sep	Oct	Nov	Dec
2017	27	28	29	30	31	32
2018	33	34	35	36	37	38
2019	39	40	41	42	43	44

Weekly Measure #: 2

Name: HPV Dose (Non-Well)

Description: NON-WELL clinic visits with patients up-to-date for HPV vaccine (% of visits with HPV due, ages 11-17)



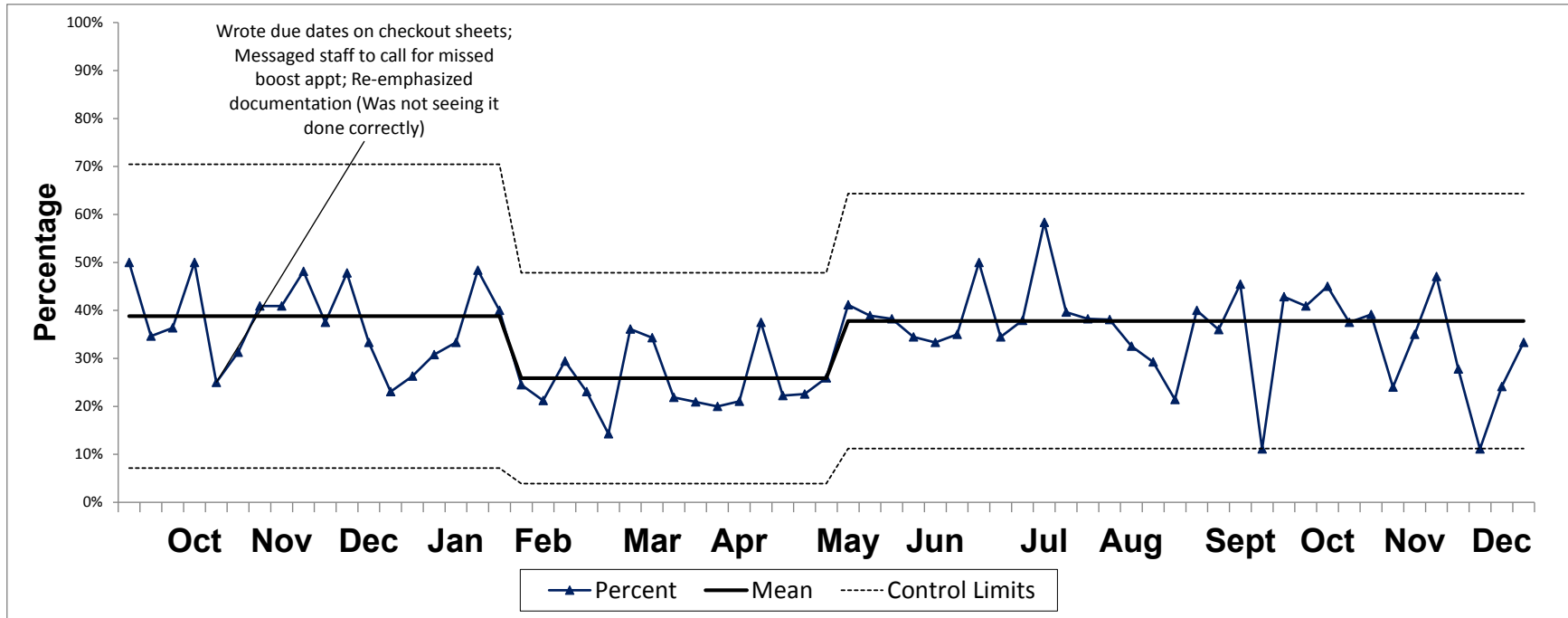
		Jan				Feb				Mar				Apr				May				Jun					
Week		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
2017	Complete	2	0	2	2	2	3	2	1	0	1	0	1	0	1	0	0	0	1	2	1	1	1	0	0	1	1
	Total	17	19	26	13	22	36	27	15	22	21	22	15	14	23	13	13	16	21	16	15	12	21	9	10	8	4
	Percent	12%	0%	8%	15%	9%	8%	7%	7%	0%	5%	0%	7%	0%	4%	0%	0%	0%	5%	13%	7%	8%	5%	0%	0%	13%	25%
2018	Complete	0	2	1	1	1	0	2	0	0	1	1	1	1	0	2	0	0	2	0	1	2	0	2	1	0	1
	Total	15	20	12	15	25	33	41	30	15	17	18	11	19	12	19	9	9	14	12	12	11	12	9	8	7	2
	Percent	0%	10%	8%	7%	4%	0%	5%	0%	0%	6%	6%	9%	5%	0%	11%	0%	0%	14%	0%	8%	18%	0%	22%	13%	0%	50%
2019	Complete	0	0	2	4	5	3	0	2	1	0	2	0	0	4	3	0	3	1	1	2	1	2	1	1	0	0
	Total	10	7	12	18	19	36	22	21	24	21	21	21	19	30	21	21	16	19	22	12	9	10	11	8	5	7
	Percent	0%	0%	17%	22%	26%	8%	0%	10%	4%	0%	10%	0%	0%	13%	14%	0%	19%	5%	5%	17%	11%	20%	9%	13%	0%	0%

		Jul				Aug				Sep				Oct				Nov				Dec					
Week		27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
2017	Complete	0	0	0	1	0	2	1	0	1	0	2	0	0	0	0	1	2	0	1	0	2	1	2	0	1	1
	Total	9	10	6	14	11	8	11	10	13	6	14	11	10	13	7	10	16	8	19	10	17	25	12	22	20	8
	Percent	0%	0%	0%	7%	0%	25%	9%	0%	8%	0%	14%	0%	0%	0%	0%	10%	13%	0%	5%	0%	12%	4%	17%	0%	5%	13%
2018	Complete	0	1	0	2	0	0	1	1	0	2	2	4	0	3	0	0	3	0	2	1	0	2	2	2	2	2
	Total	5	5	6	8	4	5	15	10	2	8	8	17	14	10	12	14	9	3	10	9	6	11	16	11	10	16
	Percent	0%	20%	0%	25%	0%	0%	7%	10%	0%	25%	25%	24%	0%	30%	0%	0%	33%	0%	20%	11%	0%	18%	13%	18%	20%	13%

Weekly Measure #: 3

Name: HPV Dose Due (All)

Description: ALL visits with patients up-to-date for HPV vaccine (% of visits with HPV due, ages 11-17)



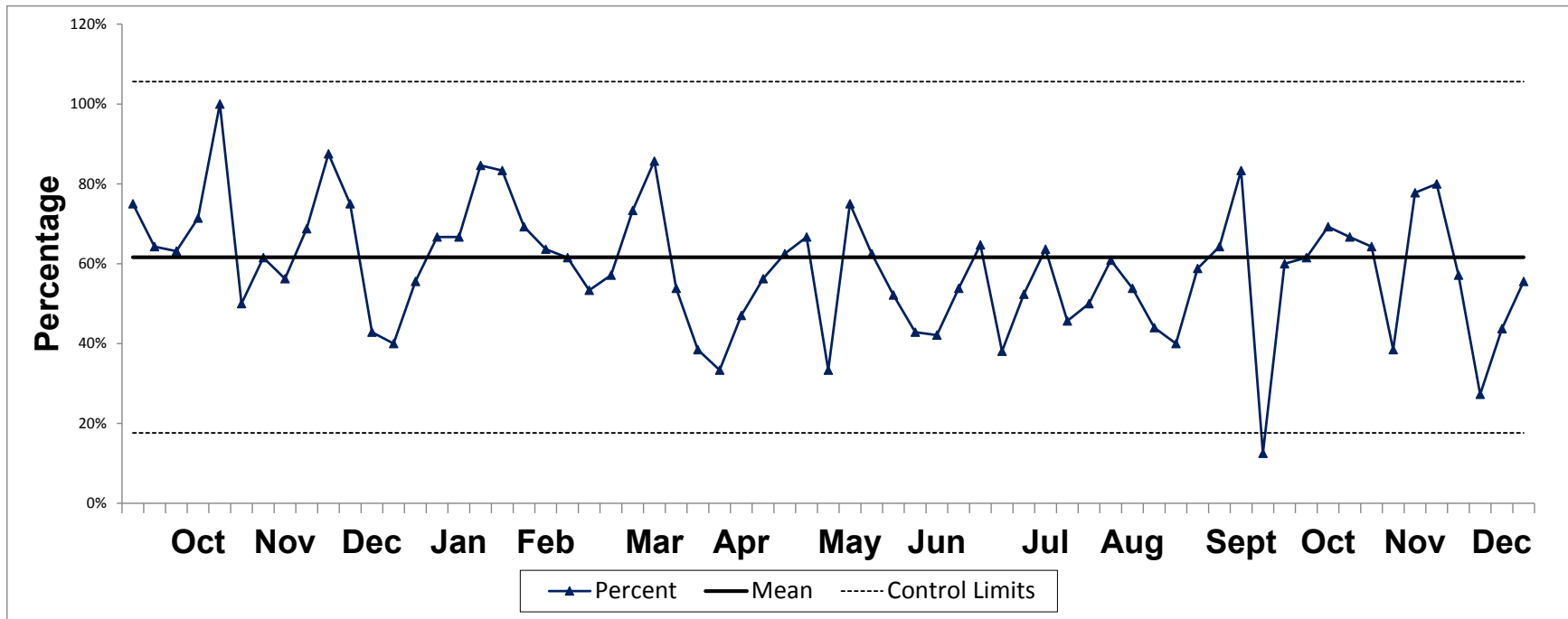
		Jan				Feb				Mar				Apr				May				Jun					
Week		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
2017	Complete	3	4	6	3	8	5	8	3	5	7	4	3	6	7	2	5	8	12	9	10	13	17	11	11	20	19
	Total	19	23	34	16	30	39	34	20	28	31	28	20	24	32	21	20	28	35	26	25	30	42	23	28	34	28
	Percent	16%	17%	18%	19%	27%	13%	24%	15%	18%	23%	14%	15%	25%	22%	10%	25%	29%	34%	35%	40%	43%	40%	48%	39%	59%	68%
2018	Complete	5	3	5	3	3	2	10	6	4	5	7	5	7	12	15	6	10	9	8	12	13	11	6	17	23	19
	Total	26	21	16	17	30	35	51	41	20	23	27	15	29	27	35	15	21	22	21	24	25	30	14	27	40	22
	Percent	19%	14%	31%	18%	10%	6%	20%	15%	20%	22%	26%	33%	24%	44%	43%	40%	48%	41%	38%	50%	52%	37%	43%	63%	58%	86%
2019	Complete	5	4	6	15	10	12	7	10	9	4	13	12	7	9	6	8	12	6	7	7	7	7	13	10	8	7
	Total	19	13	18	31	25	49	33	34	39	28	36	35	32	43	30	38	32	27	31	27	17	18	34	29	24	20
	Percent	26%	31%	33%	48%	40%	24%	21%	29%	23%	14%	36%	34%	22%	21%	20%	21%	38%	22%	23%	26%	41%	39%	38%	34%	33%	35%

		Jul				Aug				Sep				Oct				Nov				Dec					
Week		27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
2017	Complete	6	15	19	25	19	19	15	8	9	6	9	2	2	8	8	8	10	7	7	2	5	2	5	4	8	7
	Total	25	30	37	51	49	28	30	25	29	16	25	15	14	26	19	24	26	21	28	19	26	31	17	32	31	21
	Percent	24%	50%	51%	49%	39%	68%	50%	32%	31%	38%	36%	13%	14%	31%	42%	33%	38%	33%	25%	11%	19%	6%	29%	13%	26%	33%
2018	Complete	10	20	28	37	36	17	15	19	9	9	8	11	3	9	9	12	8	1	5	9	9	13	9	11	8	6
	Total	21	33	44	53	50	30	34	30	19	19	18	26	21	18	26	33	16	4	16	22	22	27	24	23	24	26
	Percent	48%	61%	64%	70%	72%	57%	44%	63%	47%	47%	44%	42%	14%	50%	35%	36%	50%	25%	31%	41%	41%	48%	38%	48%	33%	23%

Weekly Measure #: 4

Name: HPV Recommend-Well

Description: WELL visits with documented provider recommendation (given or refused) (% of visits with HPV due, ages 11-17)



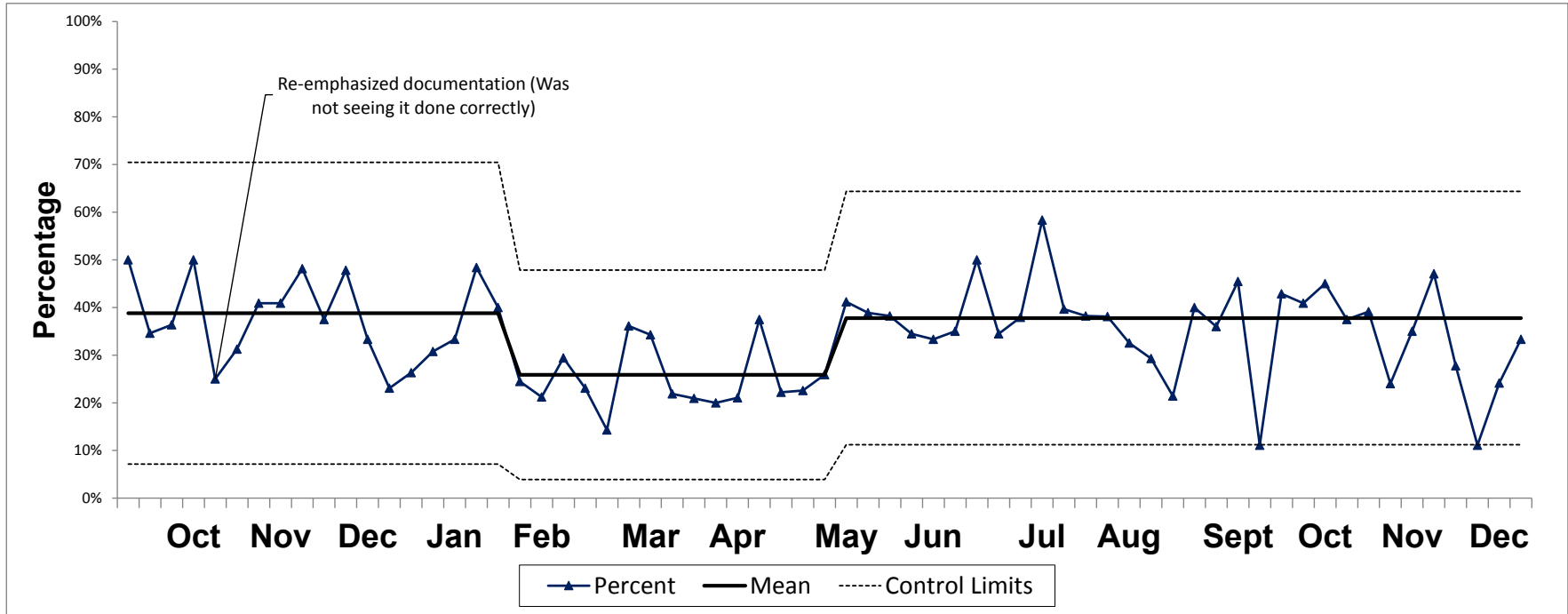
		Jan				Feb				Mar				Apr				May				Jun					
Week		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
2017	Complete	1	4	4	1	6	2	6	2	5	6	4	2	6	6	2	5	8	11	7	9	12	16	11	11	19	18
	Total	2	4	8	3	8	3	7	5	6	10	6	5	10	9	8	7	12	14	10	10	18	21	14	18	26	24
	Percent	50%	100%	50%	33%	75%	67%	86%	40%	83%	60%	67%	40%	60%	67%	25%	71%	67%	79%	70%	90%	67%	76%	79%	61%	73%	75%
2018	Complete	5	1	4	2	2	2	8	6	4	4	6	4	6	12	13	6	10	7	8	11	11	11	4	16	23	18
	Total	11	1	4	2	5	2	10	11	5	6	9	4	10	15	16	6	12	8	9	12	14	18	5	19	33	20
	Percent	45%	100%	100%	100%	40%	100%	80%	55%	80%	67%	67%	100%	60%	80%	81%	100%	83%	88%	89%	92%	79%	61%	80%	84%	70%	90%
2019	Complete	5	4	4	11	5	9	7	8	8	4	11	12	7	5	3	8	9	5	6	5	6	5	12	9	8	7
	Total	9	6	6	13	6	13	11	13	15	7	15	14	13	13	9	17	16	8	9	15	8	8	23	21	19	13
	Percent	56%	67%	67%	85%	83%	69%	64%	62%	53%	57%	73%	86%	54%	38%	33%	47%	56%	63%	67%	33%	75%	63%	52%	43%	42%	54%

		Jul				Aug				Sep				Oct				Nov				Dec					
Week		27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
2017	Complete	6	15	19	24	19	17	14	8	8	6	7	2	2	8	8	7	8	7	6	2	3	1	3	4	7	6
	Total	16	20	31	37	38	20	19	15	16	10	11	4	4	13	12	14	10	13	9	9	9	6	5	10	11	13
	Percent	38%	75%	61%	65%	50%	85%	74%	53%	50%	60%	64%	50%	50%	62%	67%	50%	80%	54%	67%	22%	33%	17%	60%	40%	64%	46%
2018	Complete	10	19	28	35	36	17	14	18	9	7	6	7	3	6	9	12	5	1	3	8	9	11	7	9	6	4
	Total	16	28	38	45	46	25	19	20	17	11	10	9	7	8	14	19	7	1	6	13	16	16	8	12	14	10
	Percent	63%	68%	74%	78%	78%	68%	74%	90%	53%	64%	60%	78%	43%	75%	64%	63%	71%	100%	50%	62%	56%	69%	88%	75%	43%	40%

Weekly Measure #: 5

Name: HPV Recommend-All

Description: ALL visits with documented provider recommendation (given or refused) (% of visits with HPV due, ages 11-17)



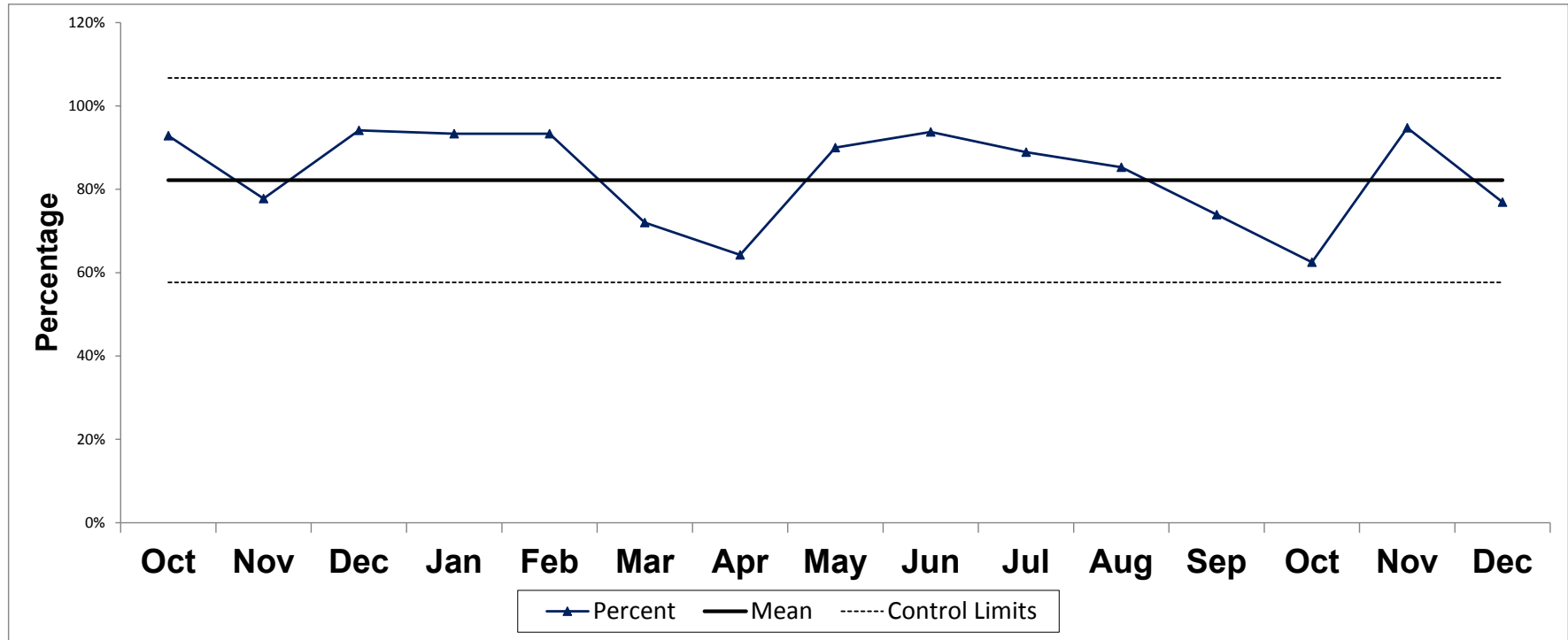
		Jan				Feb				Mar				Apr				May				Jun					
2017	Week	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	Complete	3	4	6	3	8	5	8	3	5	7	4	3	6	7	2	5	8	12	9	10	13	17	11	11	20	19
	Total	19	23	34	16	30	39	34	20	28	31	28	20	24	32	21	20	28	35	26	25	30	42	23	28	34	28
	Percent	16%	17%	18%	19%	27%	13%	24%	15%	18%	23%	14%	15%	25%	22%	10%	25%	29%	34%	35%	40%	43%	40%	48%	39%	59%	68%
2018	Complete	5	3	5	3	3	2	10	6	4	5	7	5	7	12	15	6	10	9	8	12	13	11	6	17	23	19
	Total	26	21	16	17	30	35	51	41	20	23	27	15	29	27	35	15	21	22	21	24	25	30	14	27	40	22
	Percent	19%	14%	31%	18%	10%	6%	20%	15%	20%	22%	26%	33%	24%	44%	43%	40%	48%	41%	38%	50%	52%	37%	43%	63%	58%	86%
	Complete	5	4	6	15	10	12	7	10	9	4	13	12	7	9	6	8	12	6	7	7	7	7	13	10	8	7
Total	19	13	18	31	25	49	33	34	39	28	36	35	32	43	30	38	32	27	31	27	17	18	34	29	24	20	
Percent	26%	31%	33%	48%	40%	24%	21%	29%	23%	14%	36%	34%	22%	21%	20%	21%	38%	22%	23%	26%	41%	39%	38%	34%	33%	35%	

		Jul				Aug				Sep				Oct				Nov				Dec					
2017	Week	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
	Complete	6	15	19	25	19	19	15	8	9	6	9	2	2	8	8	8	10	7	7	2	5	2	5	4	8	7
	Total	25	30	37	51	49	28	30	25	29	16	25	15	14	26	19	24	26	21	28	19	26	31	17	32	31	21
	Percent	24%	50%	51%	49%	39%	68%	50%	32%	31%	38%	36%	13%	14%	31%	42%	33%	38%	33%	25%	11%	19%	6%	29%	13%	26%	33%
2018	Complete	10	20	28	37	36	17	15	19	9	9	8	11	3	9	9	12	8	1	5	9	9	13	9	11	8	6
	Total	21	33	44	53	50	30	34	30	19	19	18	26	21	18	26	33	16	4	16	22	22	27	24	23	24	26
	Percent	48%	61%	64%	70%	72%	57%	44%	63%	47%	47%	44%	42%	14%	50%	35%	36%	50%	25%	31%	41%	41%	48%	38%	48%	33%	23%

Weekly Measure #: 6

Name: Bundle Adol Vax

Description: Visits for ages 11-12 year-olds in which HPV & meningococcal vaccines are bundled with Tdap, when due (% of visits, ages 11-12)



		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2017	Complete	2	2	5	4	21	14	15	11	3	3	4	8
	Total	8	10	17	20	35	25	34	36	7	11	18	12
	Percent	25%	20%	29%	20%	60%	56%	44%	31%	43%	27%	22%	67%
2018	Complete	5	9	8	21	13	22	48	36	10	13	14	16
	Total	8	11	13	23	18	25	51	47	11	14	18	17
	Percent	63%	82%	62%	91%	72%	88%	94%	77%	91%	93%	78%	94%
2019	Complete	14	14	18	9	18	15	24	29	17	10	18	10
	Total	15	15	25	14	20	16	27	34	23	16	19	13
	Percent	93%	93%	72%	64%	90%	94%	89%	85%	74%	63%	95%	77%