



## HPV Vaccine Quality Improvement Study Quarterly Data & Feedback Report

<b>Practice ID:</b>	19		
<b>Baseline Period:</b>	Feb 2017-Jan 2018	<b>Date of Data Pull:</b>	5/7/2020
<b>MOC Project Periods:</b>	Feb 2018-Jan 2019	<b>Data through:</b>	2020 Week 4

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: Nov 2019 - Jan 2020

1st MOC Project Change Options: A-Bundle 3 Adolescent Vaccines, D-Remind Parents of Appointments for 2nd/3rd HPV Doses

2nd MOC Project Change Options: F-Reminder/Recall for Well Visits, G-Routinely Offer Vaccines During Non-Well Visits

Summary Measure #1: 1+ Dose (Initiation) <i>Among entire active patient population</i>		
<b>What we see</b> Baseline and all quarters are much 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>	<b>What it could mean</b> Your practice has a strong foundation of effective processes in place for initiating the vaccine and has sustained these processes over time.	<b>Recommended actions</b> 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.
For ages 11-17, there is a 2.3 percentage point increase from baseline to end of Y2Q4. For ages 13-17, an increase of 4 percentage points.	There are slight drops in Y1Q4, Y2Q1 and Y2Q2 in the 11-17 age group.	Continue to monitor over time to hold your gains and continue to improve.
Summary Measure #2: All Doses (Complete) <i>Among entire active patient population</i>		
<b>What we see</b> Baseline and all quarters for the 13-17 age group are higher than the TN and US percentages. <i>Note: both the TN and US rates for 2018 are higher than the 2017 rates.</i>	<b>What it could mean</b> You have effective processes in place for completing the HPV vaccine series with opportunities for additional improvement.	<b>Recommended actions</b> Review the workflow for reminders to parents for 2nd/3rd doses to determine if any adjustments are needed. Review use of materials for hesitant parents.
For ages 11-17, there is a 6 percentage point increase from baseline to YR2Q4. For ages 13-17, an increase of 9 percentage points.	There is progress in completion rates for both age groups.	Continue to monitor over time to hold your gains and continue to improve.
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>		
<b>What we see</b> Baseline mean (average) of 71% of patients who were due, received an HPV vaccine dose during well visits. The mean increased to 79% in June 2018 and remains the same through January 2020.	<b>What it could mean</b> Reminders to parents for 2nd/3rd doses and due/overdue well visits have resulted in a sustained <u>improvement</u> .	<b>Recommended actions</b> Review use of workflows for reminders to parents to determine if any adjustments are needed.
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>		
<b>What we see</b> The mean dropped from 14% to 9% in November 2018. It remains at 9% through January 2020.	<b>What it could mean</b> Your implementation of offering the HPV vaccine during non-well visits showed several weeks above the mean, but there is a decrease in November 2018.	<b>Recommended actions</b> Review the data with providers. Discuss the current workflow for offering the vaccine in non-well visits and minimize or eliminate any obstacles.

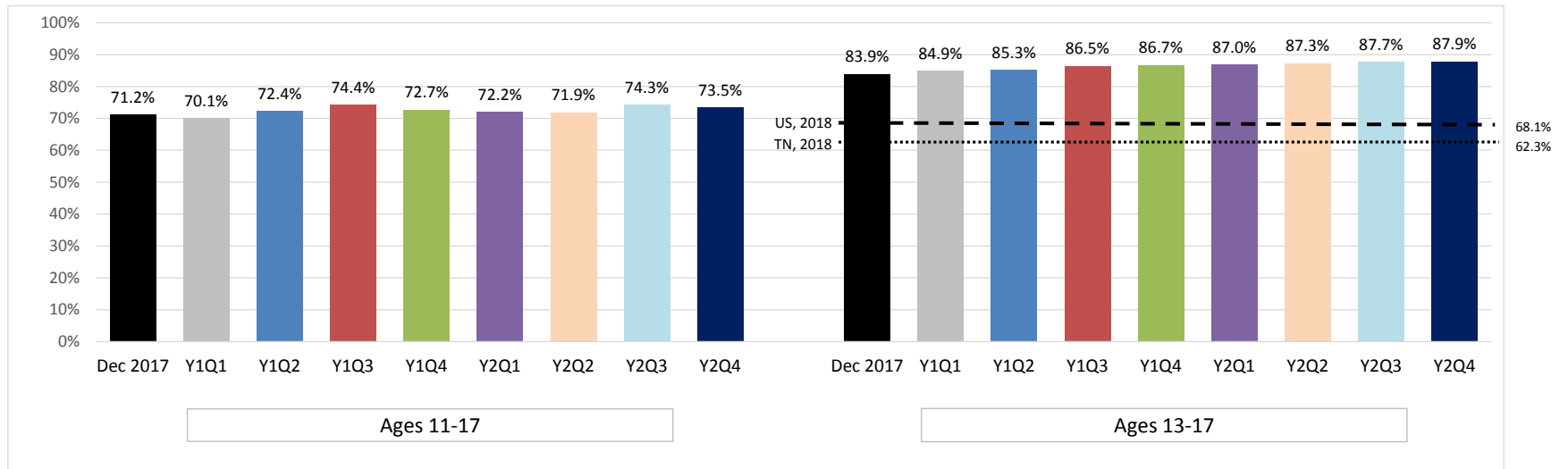
## Data Summary & Feedback

Report Period: Nov 2019 - Jan 2020

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
This measure is a combination of Measures #1 and #2. The mean was 44%, increased to 61% in May/June 2018, then dropped to 37% in October. It remains at 37% through January 2020 with several weeks above the mean.	More visits 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 minimize or eliminate them, when possible. 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.	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 &amp; meningococcal vaccines are bundled with Tdap, when due (% of visits, ages 11-12)</i>		
What we see	What it could mean	Recommended actions
A strong baseline mean of 89% that is sustained through January 2020.	You are sustaining a mean of 89%. Implementation of bundling all three vaccines and vaccine communication strategies appears to support your effective workflows for bundling adolescent vaccines.	Discuss with your team reasons bundling has been consistently effective. Can any of these reasons be applied to other change efforts? Continue to monitor data over time.

### Summary Measure: 1+ Dose (Initiation)

Note: US and TN data were updated for 2018

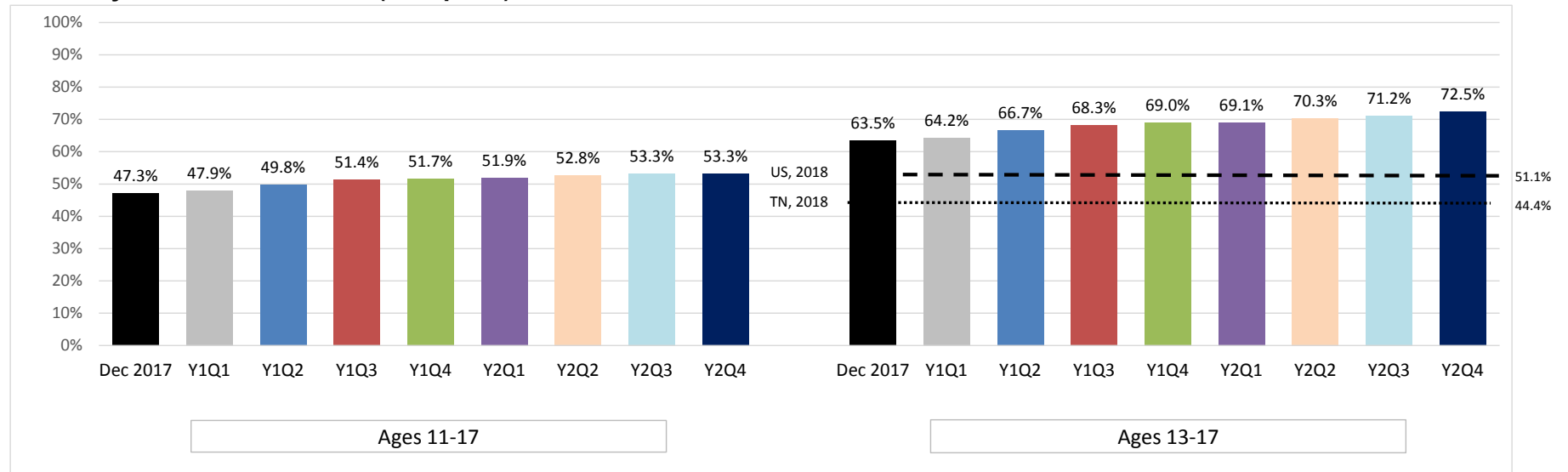


Notes: Rates are for males and females combined.  
Practice rates calculated on all active patients (at least one visit in past three years), ages 11-17 or ages 13-17, as indicated.

	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	%
<b>Ages 11-17</b>	1292	1815	71%	1280	1825	70%	1328	1835	72%	1380	1855	74%	1364	1875	73%	1371	1900	72%	1362	1894	72%	1406	1892	74%	1376	1873	73%
<b>Ages 13-17</b>	1034	1232	84%	1056	1244	85%	1069	1253	85%	1107	1280	86%	1112	1282	87%	1143	1314	87%	1151	1318	87%	1144	1305	88%	1122	1277	88%

### Summary Measure: All Doses (Complete)

Note: US and TN data were updated for 2018



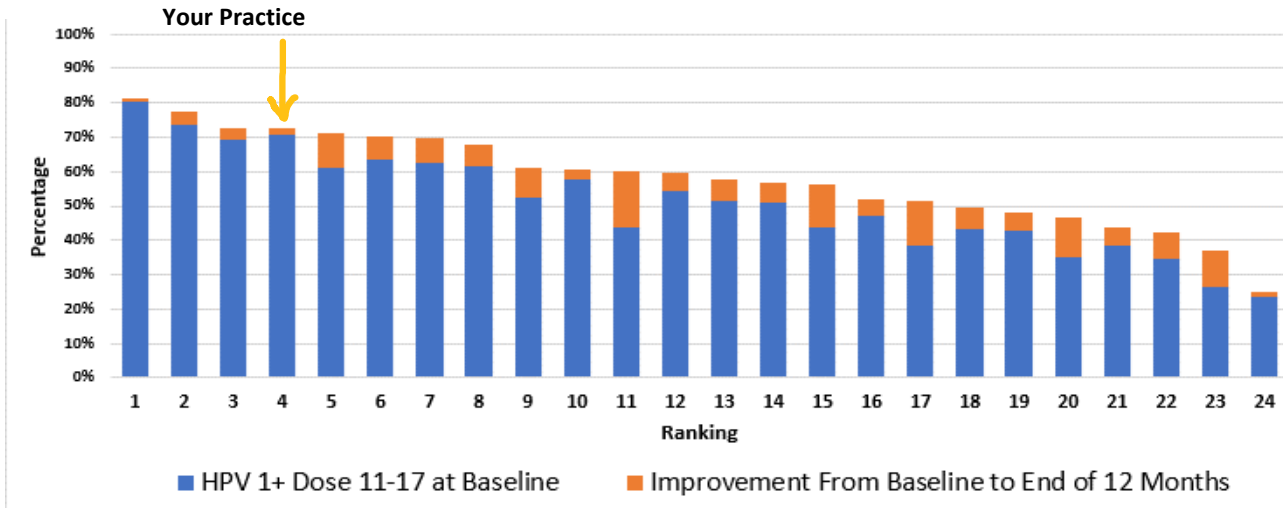
Notes: Rates are for males and females combined.

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	%
<b>Ages 11-17</b>	858	1815	47%	874	1825	48%	914	1835	50%	954	1855	51%	969	1875	52%	986	1900	52%	1000	1894	53%	1008	1892	53%	998	1873	53%
<b>Ages 13-17</b>	782	1232	63%	799	1244	64%	836	1253	67%	874	1280	68%	885	1282	69%	908	1314	69%	927	1318	70%	929	1305	71%	926	1277	73%

**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 **4th** in **initiating** the HPV vaccine series among patients ages 11-17.

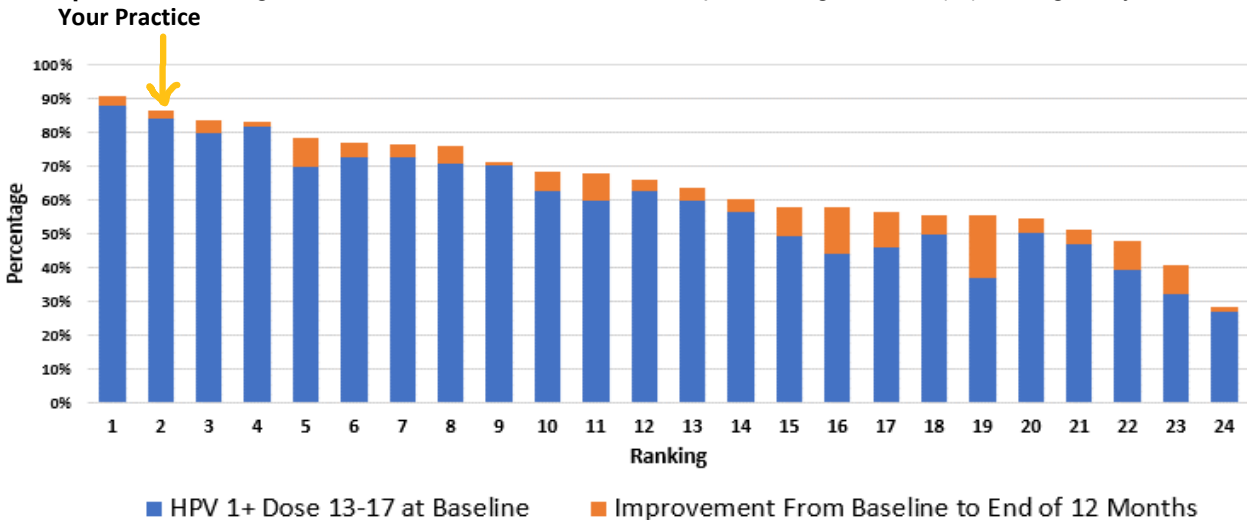
**Baseline:** 70.9% (Jan 2018).

**End of 12 months:** 72.8% (Jan 2019).

**Improvement:** 1.9 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 **2nd** in **initiating** the HPV vaccine series among patients ages 13-17.

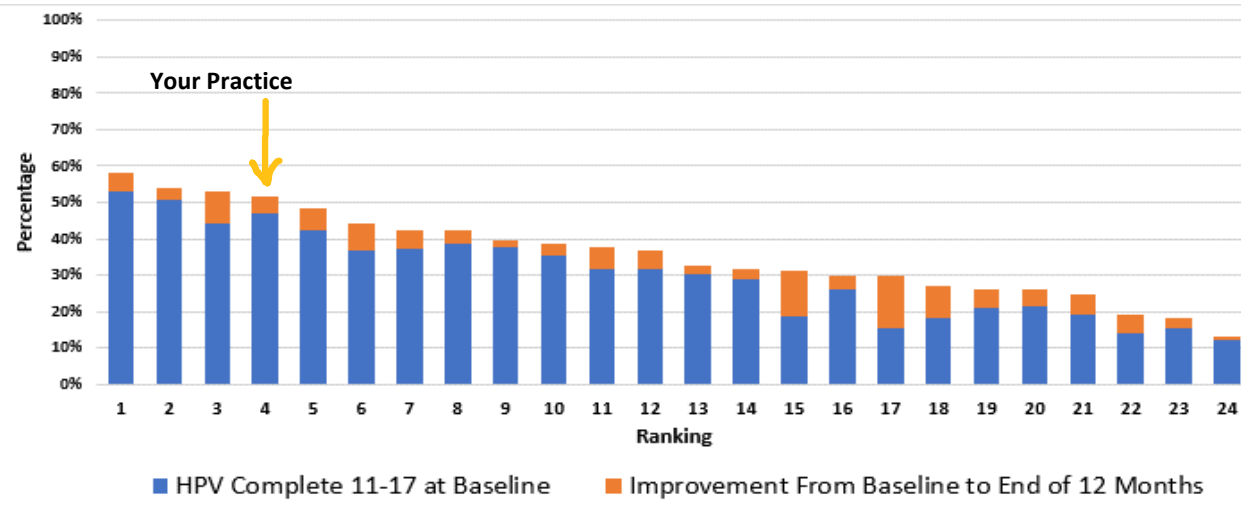
**Baseline:** 84.3% (Jan 2018).

**End of 12 months:** 86.8% (Jan 2019).

**Improvement:** 2.5 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 **4th** in **completing** the HPV vaccine series among patients ages 11-17.

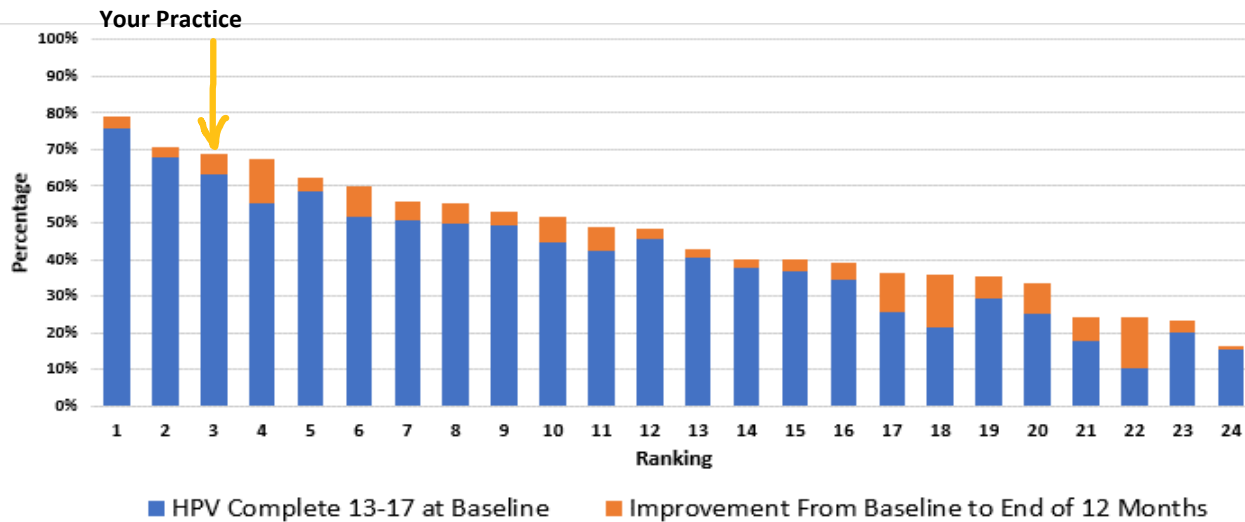
**Baseline:** 47.1% (Jan 2018).

**End of 12 months:** 51.6% (Jan 2019).

**Improvement:** 4.5 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 **3rd** in **completing** the HPV vaccine series among patients ages 13-17.

**Baseline:** 63.3% (Jan 2018).

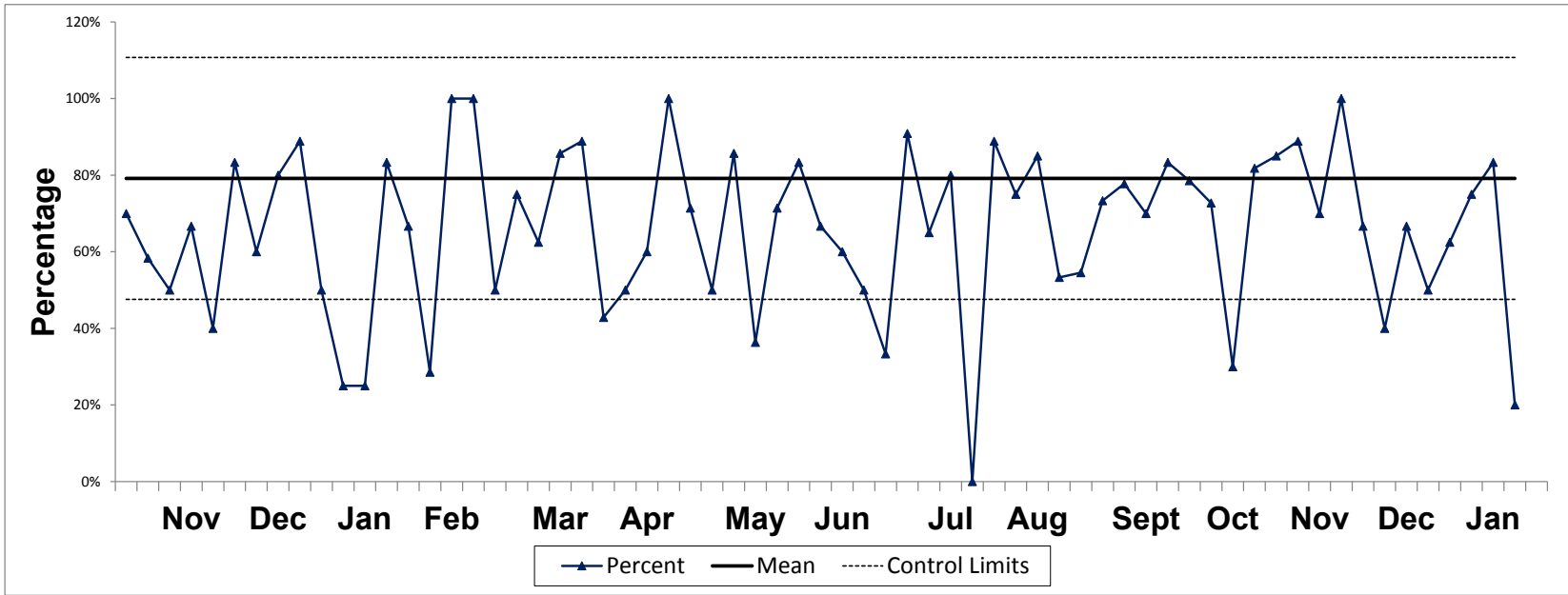
**End of 12 months:** 69.0% (Jan 2019).

**Improvement:** 5.7 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				
<b>2017</b>	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	1	3	8	3	1	10	6	11	2	4	7	4	3	3	6	4	8	9	7	10	4	4	9	10	11	11
	Total	4	6	10	5	4	11	8	11	5	7	9	4	4	4	8	5	12	11	7	11	16	10	14	16	16	21
	Percent	25%	50%	80%	60%	25%	91%	75%	100%	40%	57%	78%	100%	75%	75%	80%	67%	82%	100%	91%	25%	40%	64%	63%	69%	52%	
<b>2018</b>	Complete	4	3	3	2	4	2	4	3	4	6	3	2	6	4	4	6	7	6	6	8	8	11	5	7	11	11
	Total	7	5	4	8	6	4	6	3	7	9	4	3	8	6	7	6	8	7	10	11	14	12	13	10	15	15
	Percent	57%	60%	75%	25%	67%	50%	67%	100%	57%	67%	75%	67%	75%	67%	57%	100%	88%	86%	60%	73%	57%	92%	38%	70%	73%	73%
<b>2019</b>	Complete	1	1	1	5	2	2	2	3	3	3	5	6	8	3	4	9	3	5	5	6	4	5	5	10	9	5
	Total	2	4	4	6	3	7	2	3	6	4	8	7	9	7	8	15	3	7	10	7	11	7	6	15	15	10
	Percent	50%	25%	25%	83%	67%	29%	100%	100%	50%	75%	63%	86%	89%	43%	50%	60%	100%	71%	50%	86%	36%	71%	83%	67%	60%	50%
<b>2020</b>	Complete	5	6	5	1																						
	Total	8	8	6	5																						
	Percent	63%	75%	83%	20%																						

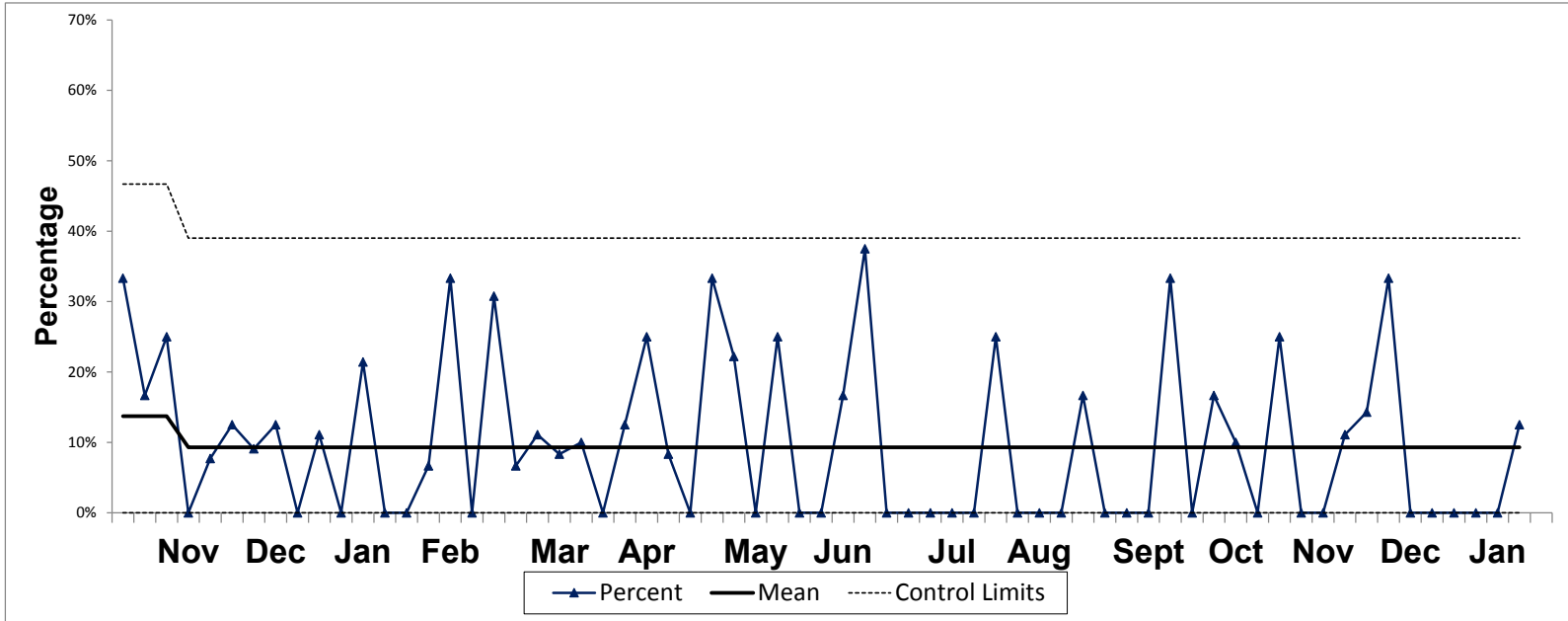
	Jul				Aug				Sep					Oct				Nov					Dec				
<b>2017</b>	Week	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
	Complete	15	19	23	25	26	14	13	4	7	2	4	7	8	7	8	10	5	5	6	5	8	3	9	8	6	1
	Total	21	27	28	25	31	20	15	14	12	4	8	9	8	7	14	13	6	7	10	10	8	5	10	10	10	2
	Percent	71%	70%	82%	100%	84%	70%	87%	29%	58%	50%	50%	78%	100%	100%	57%	77%	83%	71%	60%	50%	100%	60%	90%	80%	60%	50%
<b>2018</b>	Complete	15	18	16	22	28	22	16	10	12	4	0	7	4	5	10	11	2	7	7	4	2	2	10	6	4	8
	Total	19	22	17	30	30	24	18	17	16	5	1	9	8	8	10	16	3	10	12	8	3	5	12	10	5	9
	Percent	79%	82%	94%	73%	93%	92%	89%	59%	75%	80%	0%	78%	50%	63%	100%	69%	67%	70%	58%	50%	67%	40%	83%	60%	80%	89%
<b>2019</b>	Complete	4	10	13	4	0	8	9	17	8	6	11	7	7	10	11	8	3	9	17	8	7	4	2	2	6	2
	Total	12	11	20	5	0	9	12	20	15	11	15	9	10	12	14	11	10	11	20	9	10	4	3	5	9	4
	Percent	33%	91%	65%	80%	0%	89%	75%	85%	53%	55%	73%	78%	70%	83%	79%	73%	30%	82%	85%	89%	70%	100%	67%	40%	67%	50%



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)



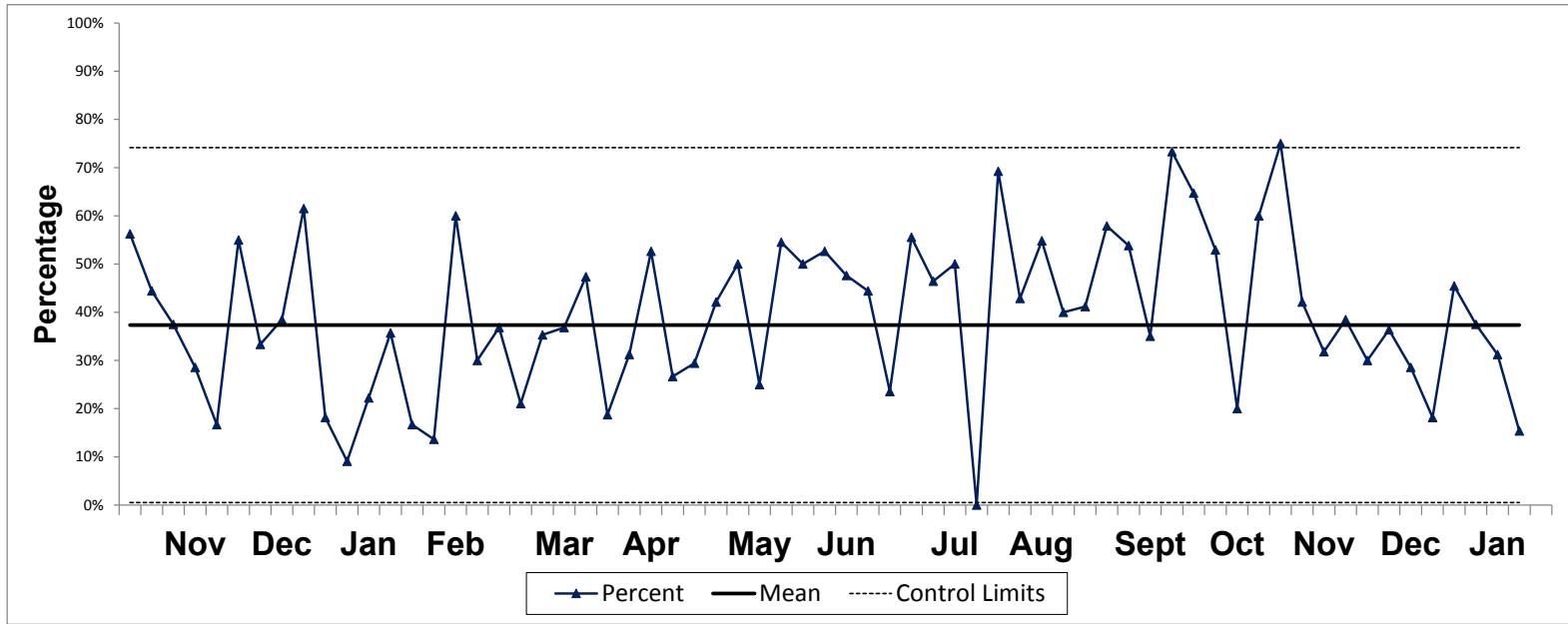
	Jan				Feb				Mar					Apr				May				Jun				
<b>2017</b>	Week 1	2	0	2	0	3	1	4	1	2	1	1	1	2	4	2	5	2	1	4	0	0	1	1	2	0
	<b>Complete</b>	2	0	2	0	3	1	4	1	2	1	1	1	2	4	2	5	2	1	4	0	0	1	1	2	0
	<b>Total</b>	4	16	12	9	22	18	20	14	14	15	10	6	11	16	19	13	10	12	13	5	14	8	12	7	6
	<b>Percent</b>	50%	0%	17%	0%	14%	6%	20%	7%	14%	7%	10%	17%	18%	25%	11%	38%	20%	8%	31%	0%	0%	13%	8%	29%	0%
<b>2018</b>	Week 5	0	0	1	0	2	3	0	2	0	1	0	1	0	2	1	1	2	0	0	0	0	1	1	1	1
	<b>Complete</b>	0	0	1	0	2	3	0	2	0	1	0	1	0	2	1	1	2	0	0	0	0	1	1	1	1
	<b>Total</b>	6	4	5	11	21	17	27	21	6	8	8	12	7	10	12	16	12	7	10	10	5	2	6	4	11
	<b>Percent</b>	0%	0%	20%	0%	10%	18%	0%	10%	0%	13%	0%	8%	0%	20%	8%	6%	17%	0%	0%	0%	0%	50%	17%	25%	9%
<b>2019</b>	Week 9	1	0	3	0	0	1	1	0	4	1	1	1	1	0	1	1	1	0	3	2	0	1	0	0	1
	<b>Complete</b>	1	0	3	0	0	1	1	0	4	1	1	1	1	0	1	1	1	0	3	2	0	1	0	0	1
	<b>Total</b>	9	7	14	8	9	15	3	7	13	15	9	12	10	9	8	4	12	10	9	9	5	4	4	4	6
	<b>Percent</b>	11%	0%	21%	0%	9%	7%	33%	0%	31%	7%	11%	8%	10%	0%	13%	25%	8%	0%	33%	22%	0%	25%	0%	0%	17%
<b>2020</b>	Week 13	0	0	0	1																					
	<b>Complete</b>	0	0	0	1																					
	<b>Total</b>	3	8	10	8																					
	<b>Percent</b>	0%	0%	0%	13%																					

	Jul				Aug				Sep					Oct				Nov				Dec				
<b>2017</b>	Week 27	0	0	0	2	1	3	3	2	1	1	0	2	2	1	1	2	2	1	1	1	1	0	2	0	1
	<b>Complete</b>	0	0	0	2	1	3	3	2	1	1	0	2	2	1	1	2	2	1	1	1	1	0	2	0	1
	<b>Total</b>	5	8	5	6	5	6	16	11	7	4	6	11	7	7	10	8	10	10	9	10	12	11	10	10	8
	<b>Percent</b>	0%	0%	0%	33%	20%	50%	19%	18%	14%	25%	0%	18%	29%	14%	50%	20%	25%	10%	10%	11%	10%	0%	18%	0%	10%
<b>2018</b>	Week 31	2	0	0	4	2	0	4	0	1	0	0	0	0	1	2	3	0	2	1	2	0	1	1	1	0
	<b>Complete</b>	2	0	0	4	2	0	4	0	1	0	0	0	0	1	2	3	0	2	1	2	0	1	1	1	0
	<b>Total</b>	8	8	4	9	8	1	12	9	5	1	0	3	3	7	9	9	9	6	6	8	4	13	8	11	8
	<b>Percent</b>	25%	0%	0%	44%	25%	0%	33%	0%	20%	0%	0%	0%	0%	14%	22%	33%	0%	33%	17%	25%	0%	8%	13%	9%	13%
<b>2019</b>	Week 35	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	1	1	0	0	0	1	1	2	0	0
	<b>Complete</b>	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	1	1	0	0	0	1	1	2	0	0
	<b>Total</b>	5	7	8	3	0	4	9	11	5	6	4	4	10	3	3	6	10	4	4	10	12	9	7	6	12
	<b>Percent</b>	0%	0%	0%	0%	0%	25%	0%	0%	17%	0%	0%	0%	33%	0%	17%	10%	0%	25%	0%	0%	11%	14%	33%	0%	0%

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)



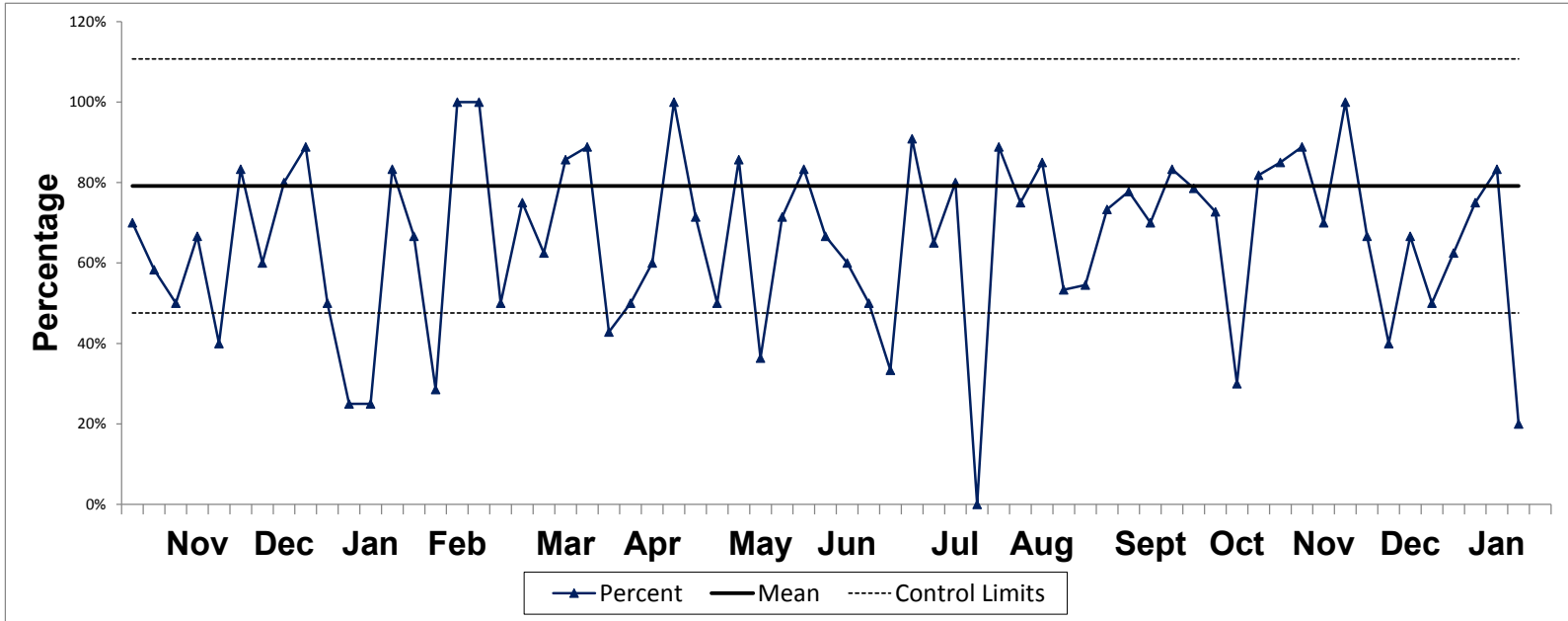
	Jan	Feb	Mar	Apr	May	Jun																				
<b>2017</b>	3	3	10	3	4	11	10	12	4	5	8	5	5	7	8	9	10	10	11	10	4	5	10	12	11	11
<b>2018</b>	4	3	4	2	6	5	4	5	4	7	3	3	6	6	5	7	9	6	6	8	8	12	6	8	12	12
<b>2019</b>	2	1	4	5	2	3	3	3	7	4	6	7	9	3	5	10	4	5	8	8	4	6	5	10	10	8
<b>2020</b>	5	6	5	2																						

	Jul	Aug	Sep	Oct	Nov	Dec																				
<b>2017</b>	15	19	23	27	27	17	16	6	8	3	4	9	10	8	9	12	7	6	7	6	9	3	11	8	7	2
<b>2018</b>	17	18	16	26	30	22	20	10	13	4	0	7	4	6	12	14	2	9	8	6	2	3	11	7	5	8
<b>2019</b>	4	10	13	4	0	9	9	17	8	7	11	7	7	11	11	9	4	9	18	8	7	5	3	4	6	2

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			
<b>2017</b>	1	3	8	3	1	10	6	11	2	4	7	4	3	3	6	4	8	9	7	10	4	4	9	10	11	11
<b>2018</b>	4	3	3	2	4	2	4	3	4	6	3	2	6	4	4	6	7	6	6	8	8	11	5	7	11	11
<b>2019</b>	1	1	1	5	2	2	2	3	3	3	5	6	8	3	4	9	3	5	5	6	4	5	5	10	9	5
<b>2020</b>	5	6	5	1																						

	Jul				Aug				Sep					Oct				Nov					Dec			
<b>2017</b>	15	19	23	25	26	14	13	4	7	2	4	7	8	7	8	10	5	5	6	5	8	3	9	8	6	1
<b>2018</b>	15	18	16	22	28	22	16	10	12	4	0	7	4	5	10	11	2	7	7	4	2	2	10	6	4	8
<b>2019</b>	4	10	13	4	0	8	9	17	8	6	11	7	7	10	11	8	3	9	17	8	7	4	2	2	6	2



