HPV Vaccine Quality Improvement Study
Weekly Run Chart Report

| Practice ID:	18		
Baseline Period:	Feb 2017-Jan 2018	Date of Data Pull:	2/10/20
MOC Project Periods:	Feb 2018-Jan 2019	Data through:	2020 Week 4

How to Interpret Your Weekly Run Charts

Higher is Better: For all of the measures in this report, the desirable direction is upward (increasing).

Goal: The default goal for each measure is 80%. If your practice would like to change the goal for a specific measure, submit a VHealth technical support ticket.

Look for Patterns in Your Data: It is normal to have __random__ movement of your weekly data up and down around the median during the Baseline Period (gray area). Here are examples of patterns that are __not__ random (see figures*):

1) **Shifts:** At least 6 consecutive points that all occur above or below the median line
2) **Trends:** At least 5 consecutive points all going in an upward or downward direction regardless of what side of the median line they are on
3) **Astronomical Data Point:** An outlier data point that stands out as unusually high or low from the overall average or median value

Example 1: Shifts   **Example 2: Trends**   **Example 3: Astronomical Data Point**
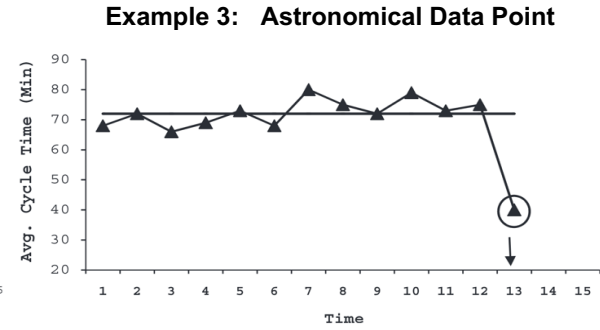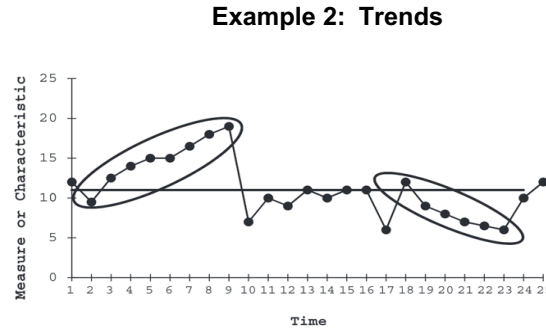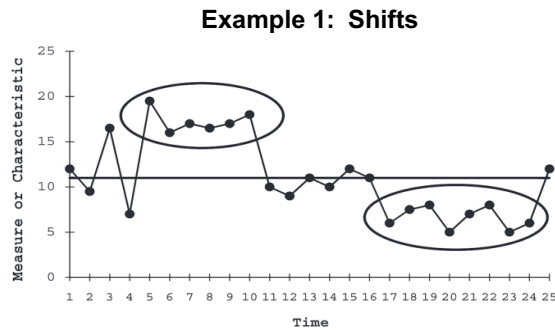
Baseline Period (gray area): Look for shifts or trends that may represent seasonal patterns (e.g., summer, flu season) or when major changes happened in the practice. You may see similar seasonal patterns in the next year. You can compare data across years in the table under the chart. If you see any astronomical points, think about if there was an unusual event that caused it.

MOC Projects Period (white area): While working on your MOC projects, during the "Study" phase of your PDSA cycles, look for new patterns in your weekly data.

- When you see an upward shift or upward trend, these patterns may mean you are making an improvement. Continue to monitor your data to see if you hold these gains over time.
- If you do not see improvements, or if your data go down, it may be helpful for your team to revisit and adjust your plan then do additional PDSA cycles. Also think about any special circumstance during those weeks that may have interfered with the plan being fully implemented, such as a provider being on vacation or an unusually heavy volume of flu visits.

*Source: Perla RJ, Provost LP, Murray SK. The run chart: A simple analytical tool for learning from variation in healthcare process. *BMJ Quality and Safety*. 2011; 20:46-51.

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)

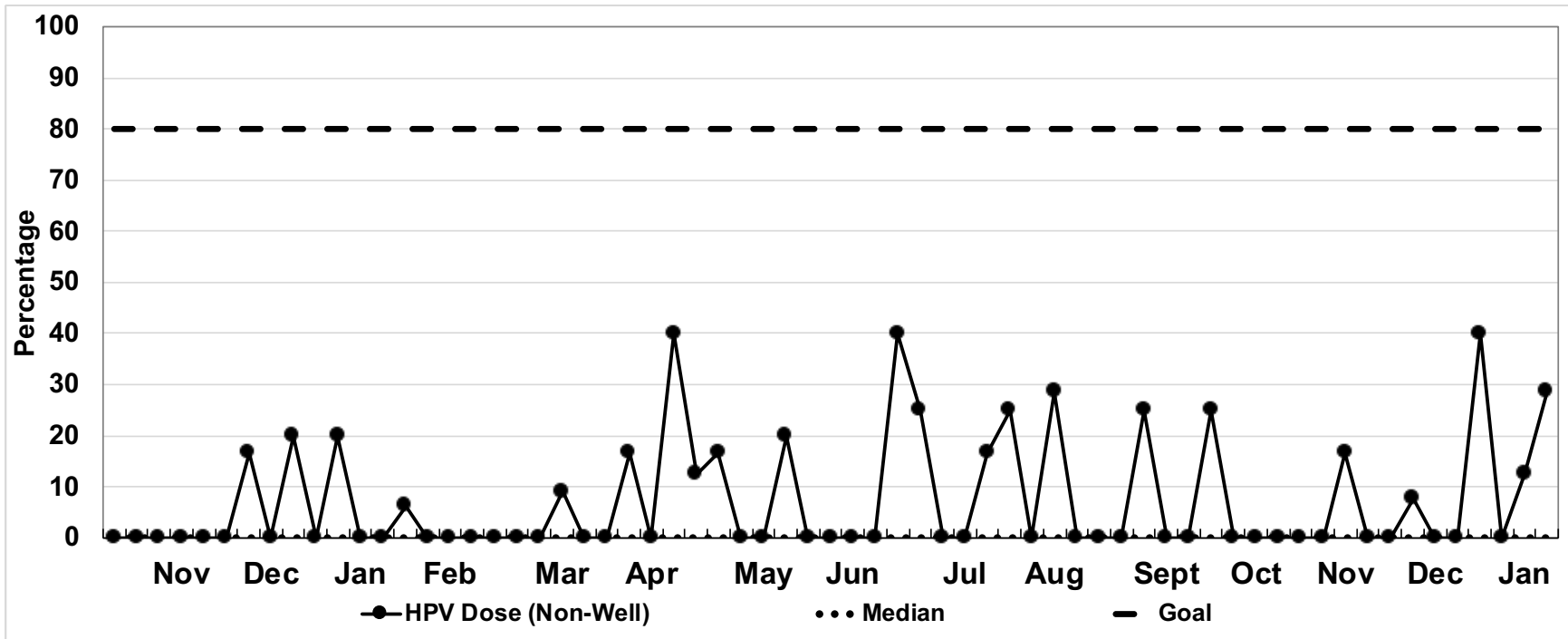|		Jan				Feb				Mar				Apr				May				Jun			
	Week	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
2017	Complete	0	3	2	4	4	1	0	1	3	3	1	1	2	1	0	1	0	1	0	1	3	4	4	4	2	2
	Total	0	5	5	6	6	4	0	6	5	3	1	2	2	1	0	1	0	3	0	2	7	4	5	6	2	2
	Percent	0%	60%	40%	67%	67%	25%	0%	17%	60%	100%	100%	50%	100%	100%	0%	100%	0%	33%	0%	50%	43%	100%	80%	67%	100%	67%
2018	Complete	2	1	2	1	4	3	1	3	2	0	0	2	6	5	2	0	5	7	6	4	7	5	1	5	2	4
	Total	4	2	2	1	5	4	1	4	4	0	1	4	7	6	2	2	8	12	7	6	10	8	3	5	4	4
	Percent	50%	50%	100%	100%	80%	75%	100%	75%	50%	0%	0%	50%	86%	83%	100%	0%	63%	58%	86%	67%	70%	63%	33%	100%	50%	100%
2019	Complete	1	0	3	3	2	2	4	3	3	0	0	1	7	2	6	5	1	6	1	4	1	8	10	6	6	9
	Total	1	0	7	3	3	3	5	3	4	0	0	3	12	3	8	6	3	7	3	4	1	14	11	9	6	9
	Percent	100%	0%	43%	100%	67%	67%	80%	100%	75%	0%	0%	33%	58%	67%	75%	83%	33%	86%	33%	100%	100%	57%	91%	67%	100%	100%
2020	Complete	0%	200%	100%	300%																						
	Total	100%	100%	100%	100%																						
	Percent	0%	200%	100%	300%																						

		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	1	3	6	11	18	5	2	3	3	0	4	0	2	4	3	0	0	1	0	2	0	1	2	1	1	2
	Total	3	6	14	17	26	12	2	3	4	1	5	0	2	4	4	0	1	2	1	2	1	1	2	1	1	2
	Percent	33%	50%	43%	65%	69%	42%	100%	100%	75%	0%	80%	0%	100%	100%	75%	0%	0%	50%	0%	100%	0%	100%	100%	100%	100%	100%
2018	Complete	2	3	5	13	11	8	1	8	4	1	2	1	0	6	4	1	1	2	4	3	1	1	0	1	1	0
	Total	6	5	7	15	21	13	1	12	7	2	5	7	0	7	8	3	3	3	6	3	2	1	0	2	3	0
	Percent	33%	60%	71%	87%	52%	62%	100%	67%	57%	50%	40%	14%	0%	86%	50%	33%	33%	67%	67%	100%	50%	100%	0%	50%	33%	0%
2019	Complete	6	11	10	8	16	10	8	6	7	3	0	3	2	0	10	8	3	4	3	3	2	2	3	2	0	0

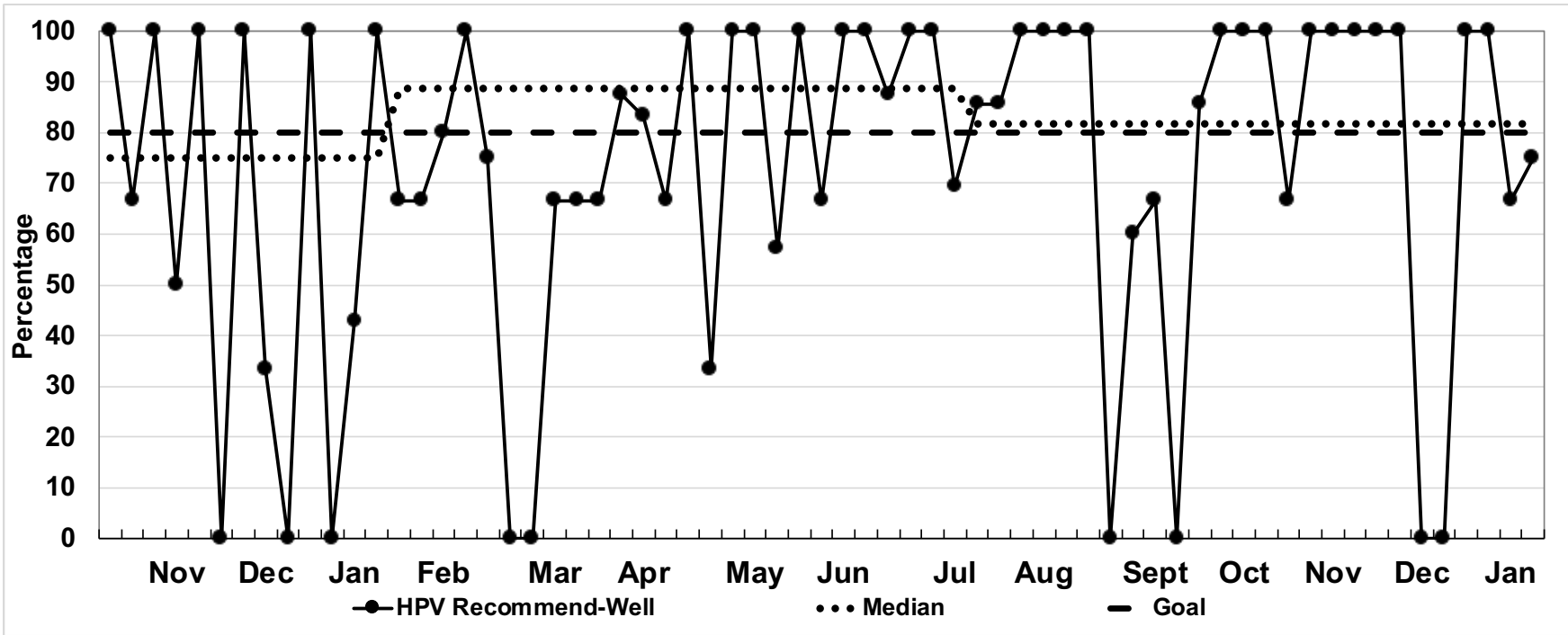**Name:**   HPV Dose (Non-Well)

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

Legend: —●— HPV Dose (Non-Well)   • • • Median   — Goal

		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	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0
	Total	4	7	8	12	12	12	9	13	5	4	5	8	7	7	8	7	8	6	8	4	3	1	2	4	4	0
	Percent	0%	0%	0%	8%	0%	0%	0%	0%	0%	0%	0%	0%	14%	0%	0%	0%	0%	0%	0%	25%	0%	0%	50%	0%	0%	0%
2018	Complete	0	0	0	0	1	0	0	1	0	0	0	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0
	Total	2	4	2	3	10	12	21	10	4	6	10	11	7	10	10	12	11	12	7	6	2	3	4	1	5	1
	Percent	0%	0%	0%	0%	10%	0%	0%	10%	0%	0%	0%	9%	14%	10%	0%	0%	9%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2019	Complete	0	1	0	0	1	0	0	0	0	0	0	1	0	0	2	0	2	1	1	0	0	1	0	0	0	0
	Total	6	5	4	6	16	15	10	6	7	0	5	11	4	8	12	8	5	8	6	6	3	5	1	4	5	2
	Percent	0%	20%	0%	0%	6%	0%	0%	0%	0%	0%	0%	9%	0%	0%	17%	0%	40%	13%	17%	0%	0%	20%	0%	0%	0%	0%
2020	Complete	200%	0%	100%	200%																						
	Total	500%	500%	500%	500%																						
	Percent	40%	0%	20%	40%																						

		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	0	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0
	Total	3	4	4	5	7	4	4	3	7	5	3	7	7	4	2	6	5	6	5	8	3	9	9	5	8	6
	Percent	0%	0%	0%	0%	14%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	17%	0%	17%	0%	0%	0%	0%	0%	0%	0%	0%
2018	Complete	0	0	1	2	0	0	0	0	0	1	0	1	0	0	2	2	0	0	0	0	0	0	1	0	0	1
	Total	3	4	2	3	0	4	5	7	4	7	7	6	2	2	8	8	5	7	1	5	4	8	5	6	9	5
	Percent	0%	0%	50%	67%	0%	0%	0%	0%	0%	14%	0%	17%	0%	0%	25%	25%	0%	0%	0%	0%	0%	0%	17%	0%	0%	20%
2019	Complete	2	1	0	0	1	1	0	2	0	0	0	2	0	0	1	0	0	0	0	0	1	0	0	1	0	0

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)
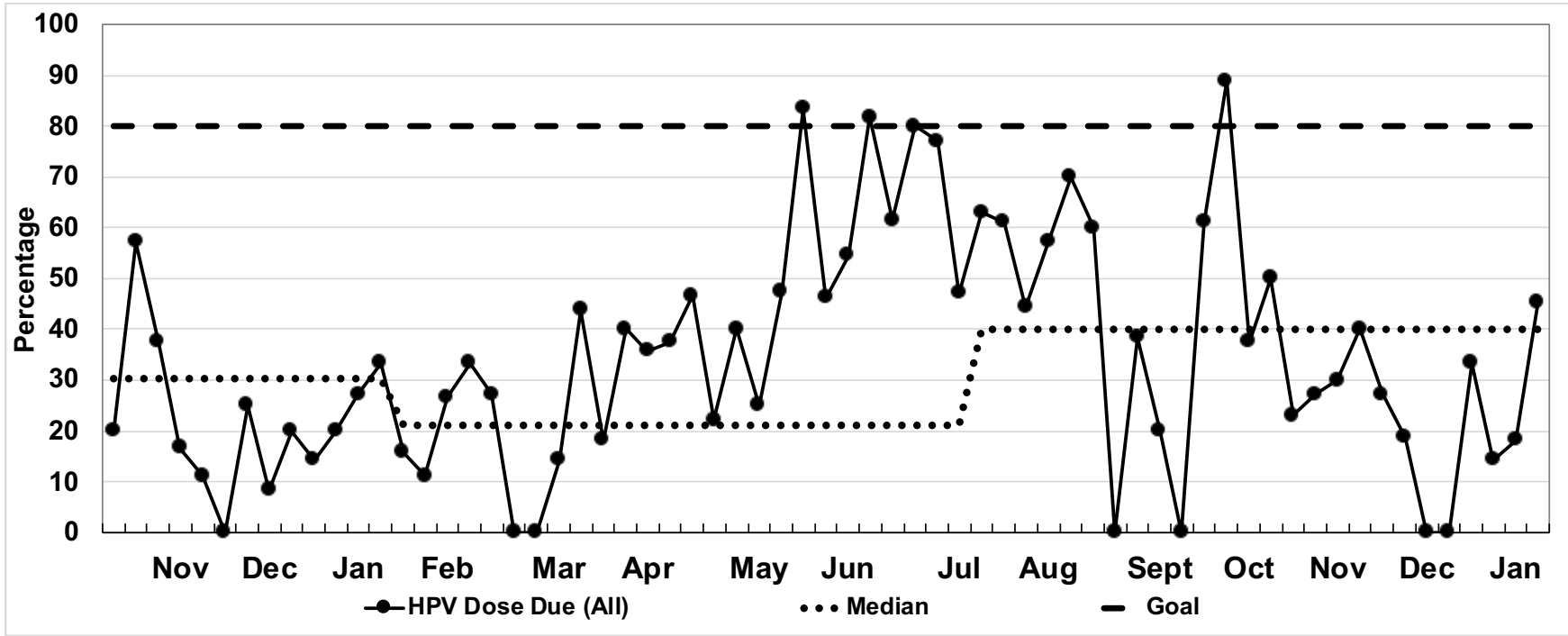

HPV Recommend-Well ●—●   Median •••   Goal —

		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	0	3	2	4	4	1	0	1	3	3	1	1	2	1	0	1	0	1	0	1	3	4	4	4	2	2
	Total	0	5	5	6	6	4	0	6	5	3	1	2	2	1	0	1	0	3	0	2	7	4	5	6	2	3
	Percent	0%	60%	40%	67%	67%	25%	0%	17%	60%	100%	100%	50%	100%	100%	0%	100%	0%	33%	0%	50%	43%	100%	80%	67%	100%	67%
2018	Complete	2	1	2	1	4	3	1	3	2	0	0	2	6	5	2	0	6	9	6	4	7	5	1	5	3	4
	Total	4	2	2	1	5	4	1	4	4	0	1	4	7	6	2	2	8	12	7	6	10	8	3	5	4	4
	Percent	50%	50%	100%	100%	80%	75%	100%	75%	50%	0%	0%	50%	86%	83%	100%	0%	75%	75%	86%	67%	70%	63%	33%	100%	75%	100%
2019	Complete	1	0	3	3	2	2	4	3	3	0	0	2	8	2	7	5	2	7	1	4	1	8	11	6	6	9
	Total	1	0	7	3	3	3	5	3	4	0	0	3	12	3	8	6	3	7	3	4	1	14	11	9	6	9
	Percent	100%	0%	43%	100%	67%	67%	80%	100%	75%	0%	0%	67%	67%	67%	88%	83%	67%	100%	33%	100%	100%	57%	100%	67%	100%	100%
2020	Complete	100%	300%	200%	300%																						
	Total	100%	100%	100%	100%																						
	Percent	100%	300%	200%	300%																						

		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	1	3	6	11	18	5	2	3	3	0	4	0	2	4	3	0	0	1	0	2	0	1	2	1	1	2
	Total	3	6	14	17	26	12	2	3	4	1	5	0	2	4	4	0	1	2	1	2	1	1	2	1	1	2
	Percent	33%	50%	43%	65%	69%	42%	100%	100%	75%	0%	80%	0%	100%	100%	75%	0%	0%	50%	0%	100%	0%	100%	100%	100%	100%	100%
2018	Complete	4	4	6	15	18	12	1	11	5	1	4	5	0	7	4	3	1	3	4	3	1	1	0	2	1	0
	Total	6	5	7	15	21	13	1	12	7	2	5	7	0	7	8	3	3	3	6	3	2	1	0	2	3	0
	Percent	67%	80%	86%	100%	86%	92%	100%	92%	71%	50%	80%	71%	0%	100%	50%	100%	33%	100%	67%	100%	50%	100%	0%	100%	33%	0%
2019	Complete	7	11	11	9	18	12	10	7	9	3	0	3	2	0	12	8	4	4	4	5	4	2	4	3	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)
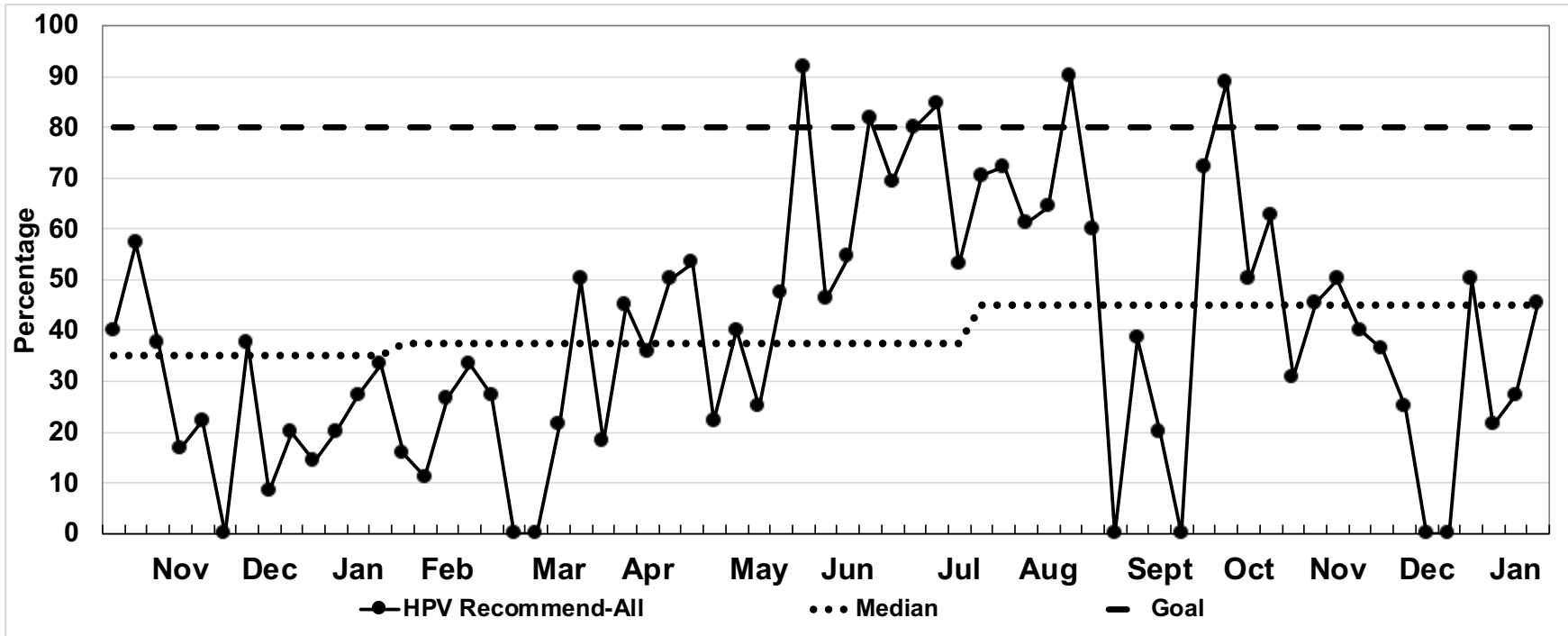

		Jan				Feb				Mar				Apr				May				Jun			
	Week	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
2017	Complete	0	3	2	5	4	1	0	1	3	3	1	1	3	1	0	1	0	1	0	2	3	4	5	4	2	2
	Total	4	12	13	18	18	16	9	19	10	7	6	10	9	8	8	8	8	9	8	6	10	5	7	10	6	3
	Percent	0%	25%	15%	28%	22%	6%	0%	5%	30%	43%	17%	10%	33%	13%	0%	13%	0%	11%	0%	33%	30%	80%	71%	40%	33%	67%
2018	Complete	2	1	2	1	5	3	1	4	2	0	0	3	7	6	2	0	6	7	6	4	7	5	1	5	2	4
	Total	6	6	4	4	15	16	22	14	8	6	11	15	14	16	12	14	19	24	14	12	12	11	7	6	9	5
	Percent	33%	17%	50%	25%	33%	19%	5%	29%	25%	0%	0%	20%	50%	38%	17%	0%	32%	29%	43%	33%	58%	45%	14%	83%	22%	80%
2019	Complete	1	1	3	3	3	2	4	3	3	0	0	2	7	2	8	5	3	7	2	4	1	9	10	6	6	9
	Total	7	5	11	9	19	18	15	9	11	0	5	14	16	11	20	14	8	15	9	10	4	19	12	13	11	11
	Percent	14%	20%	27%	33%	16%	11%	27%	33%	27%	0%	0%	14%	44%	18%	40%	36%	38%	47%	22%	40%	25%	47%	83%	46%	55%	82%
2020	Complete	200%	200%	200%	500%																						
	Total	600%	600%	600%	600%																						
	Percent	33%	33%	33%	83%																						

		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	1	3	6	11	19	5	2	3	3	0	4	0	2	4	3	1	0	2	0	2	0	1	2	1	1	2
	Total	6	10	18	22	33	16	6	6	11	6	8	7	9	8	6	6	6	8	6	10	4	10	11	6	9	8
	Percent	17%	30%	33%	50%	58%	31%	33%	50%	27%	0%	50%	0%	22%	50%	50%	17%	0%	25%	0%	20%	0%	10%	18%	17%	11%	25%
2018	Complete	2	3	6	15	11	8	1	8	4	2	2	2	0	6	6	3	1	2	4	3	1	1	0	2	1	1
	Total	9	9	9	18	21	17	6	19	11	9	12	13	2	9	16	11	8	10	7	8	6	9	5	8	12	5
	Percent	22%	33%	67%	83%	52%	47%	17%	42%	36%	22%	17%	15%	0%	67%	38%	27%	13%	20%	57%	38%	17%	11%	0%	25%	8%	20%
2019	Complete	8	12	10	8	17	11	8	8	7	3	0	5	2	0	11	8	3	4	3	3	3	2	3	3	0	0

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			
	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	0	3	2	5	4	1	0	1	3	3	1	1	3	1	0	1	0	1	0	2	3	4	5	4	2	2
	Total	4	12	13	18	18	16	9	19	10	7	6	10	9	8	8	8	8	9	8	6	10	5	7	10	6	3
	Percent	0%	25%	15%	28%	22%	6%	0%	5%	30%	43%	17%	10%	33%	13%	0%	13%	0%	11%	0%	33%	30%	80%	71%	40%	33%	67%
2018	Complete	2	1	2	1	5	3	1	4	2	0	0	3	7	6	2	0	7	9	6	4	7	5	1	5	3	4
	Total	6	6	4	4	15	16	22	14	8	6	11	15	14	16	12	14	19	24	14	12	12	11	7	6	9	5
	Percent	33%	17%	50%	25%	33%	19%	5%	29%	25%	0%	0%	20%	50%	38%	17%	0%	37%	38%	43%	33%	58%	45%	14%	83%	33%	80%
2019	Complete	1	1	3	3	3	2	4	3	3	0	0	3	8	2	9	5	4	8	2	4	1	9	11	6	6	9
	Total	7	5	11	9	19	18	15	9	11	0	5	14	16	11	20	14	8	15	9	10	4	19	12	13	11	11
	Percent	14%	20%	27%	33%	16%	11%	27%	33%	27%	0%	0%	21%	50%	18%	45%	36%	50%	53%	22%	40%	25%	47%	92%	46%	55%	82%
2020	Complete	300%	300%	300%	500%																						
	Total	600%	600%	600%	600%																						
	Percent	50%	50%	50%	83%																						

		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	1	3	6	11	19	5	2	3	3	0	4	0	2	4	3	1	0	2	0	2	0	1	2	1	1	2
	Total	6	10	18	22	33	16	6	6	11	6	8	7	9	8	6	6	6	8	6	10	4	10	11	6	9	8
	Percent	17%	30%	33%	50%	58%	31%	33%	50%	27%	0%	50%	0%	22%	50%	50%	17%	0%	25%	0%	20%	0%	10%	18%	17%	11%	25%
2018	Complete	4	5	8	18	18	13	3	12	5	3	6	6	0	7	6	7	2	4	4	3	1	2	0	3	1	1
	Total	9	9	9	18	21	17	6	19	11	9	12	13	2	9	16	11	8	10	7	8	6	9	5	8	12	5
	Percent	44%	56%	89%	100%	86%	76%	50%	63%	45%	33%	50%	46%	0%	78%	38%	64%	25%	40%	57%	38%	17%	22%	0%	38%	8%	20%
2019	Complete	9	12	11	9	19	13	11	9	9	3	0	5	2	0	13	8	4	5	4	5	5	2	4	4	0	0

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	3	3	2	0	2	3	6	12	2	5	3	1
	Total	4	6	3	0	5	6	12	16	3	6	5	1
	Percent	75%	50%	67%	0%	40%	50%	50%	75%	67%	83%	60%	100%
2018	Complete	4	6	5	6	15	6	9	8	2	6	2	0
	Total	4	6	6	7	18	7	11	13	4	7	3	2
	Percent	100%	100%	83%	86%	83%	86%	82%	62%	50%	86%	67%	0%
2019	Complete	4	4	6	8	10	15	28	22	1	6	7	2
	Total	4	5	11	8	15	31	31	25	1	8	8	4
	Percent	100%	80%	55%	100%	67%	48%	90%	88%	100%	75%	88%	50%
2020	Complete												