



## HPV Vaccine QI Study: Targeted Change Options (QI Aims)

### Targeted Change Options (QI Aims)

- Each practice selects 4 changes to implement
  - 2 in first 6-month MOC project, 2 in second 6-month MOC project
- A. Bundle 3 adolescent vaccines at the same visit starting at age 11
  - B. Provide patient education materials
  - C. Use prompts to remind providers to offer all vaccines due in a visit
  - D. Remind parents of appointments for 2<sup>nd</sup>/3<sup>rd</sup> doses of vaccine
  - E. Remind parents when children due or overdue for vaccines
  - F. Remind parents when children due or overdue for well visits
  - G. Routinely offer adolescent vaccines during non-well visits
  - H. Add or expand use of TennIS for vaccine reporting and tools
  - I. Establish standing orders for nurses to provide 1<sup>st</sup> dose of vaccines

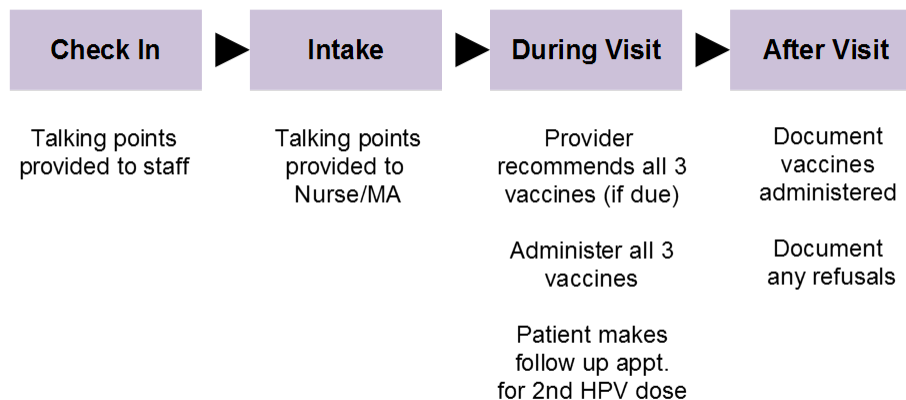
### Change Option A: Bundle 3 adolescent vaccines at the same visit starting at age 11

- Reduces missed opportunities
- Immune response is greatest before age 13
- Bundling pre-teen vaccine platform "normalizes" HPV vaccine as routine



### Change Option A: Bundle 3 adolescent vaccines at the same visit starting at age 11

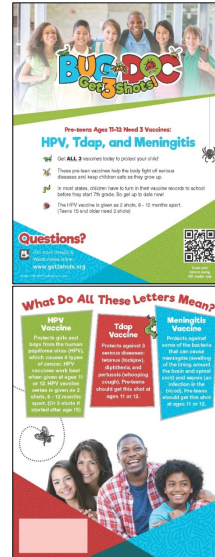
**Sample Workflow:**



## Change Option B: Provide patient education materials

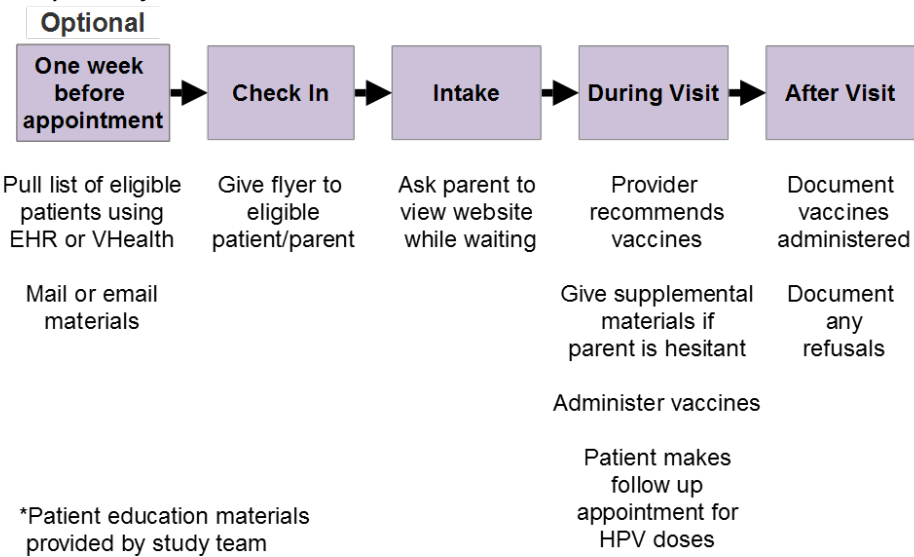
- Providing anticipatory guidance can potentially save time in vaccine counseling
- Parents prefer information about HPV vaccine from their child's doctor
- Using multiple methods (e.g. flyers, web/video, and mailers) is most effective

**Our team will provide patient education materials (can add practice name/logo)**



## Change Option B: Provide patient education materials


**Sample Workflow:**



### Change Option C:

Use prompts to remind providers to offer all vaccines due in a visit

- Automated (EHR) or manual prompts
- Decreases missed opportunities
- Increases overall use of preventive health services
- VHealth can provide technical assistance to set up prompts in EHR



### Change Option C:

Use prompts to remind providers to offer all vaccines due in a visit

**Sample Workflow:**  
**Manual Provider Prompts**

Before Visit	During Visit	After Visit
Pull list of eligible patients from VHealth before appointment  Give alert* about specific adolescent vaccines due	Provider recommends vaccines  Administer vaccines  Patient makes follow up appointment for HPV doses	Document vaccines administered  Document any refusals

\*Door flags, post-it note on chart, separate form, etc.

**Automated EHR Prompts**

Technical assistance from VHealth to turn on automated prompt in EHR

## Change Option D: Remind parents of appointments for 2<sup>nd</sup>/3<sup>rd</sup> doses of vaccine

- Increases timeliness of recommended vaccines
- Increases completion rates of HPV vaccine series
- VHealth can help set up automated reminder system

**HPV Vaccine Return Visits**

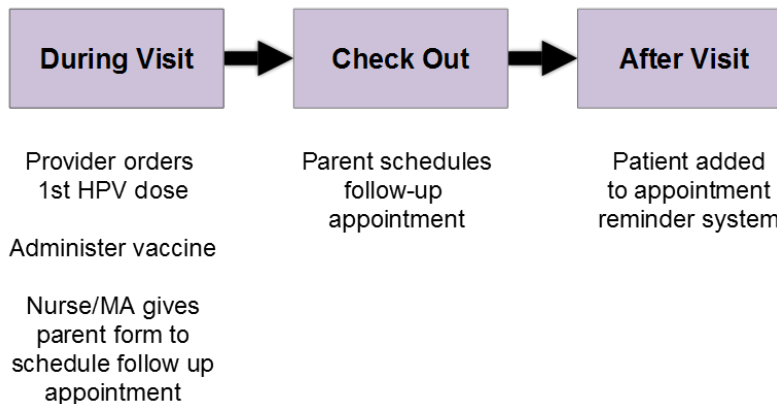
TAKE THIS FORM TO THE FRONT DESK TO SCHEDULE RETURN APPOINTMENTS for your child's follow-up HPV shots.

2-dose schedule	3-dose schedule
<p>Those who have started the HPV vaccine series by age 8 and before 18<sup>th</sup> birthday:</p> <p>Today's date: ____/____/____</p> <p><b>2<sup>nd</sup> shot:</b> Scheduled 6 - 12 months from today (minimum interval: 6 months)</p> <p>Date of appointment: ____/____/____</p> <p>Time: ____ am / pm</p>	<p>Those who have started the HPV vaccine series at their 15<sup>th</sup> birthday or later or there has been less than 6 months between shots 1 and 2 regardless of age:</p> <p>Today's date: ____/____/____</p> <p><b>2<sup>nd</sup> shot:</b> Schedule 2 months from today (minimum of 1 month)</p> <p>Date of appointment: ____/____/____</p> <p>Time: ____ am / pm</p> <p><b>3<sup>rd</sup> shot:</b> Schedule minimum 6 months from today</p> <p>Date of appointment: ____/____/____</p> <p>Time: ____ am / pm</p>

Henry-Vanderbilt TSIU Cancer Partnership

## Change Option D: Remind parents of appointments for 2<sup>nd</sup>/3<sup>rd</sup> doses of vaccine

**Sample Workflow:**



## Change Option E: Remind Parents when Children Are Due/Overdue for Vaccines

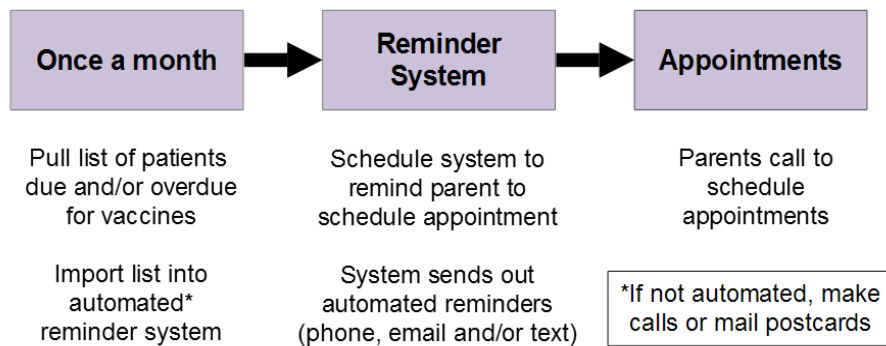
- Many parents don't know child's vaccine schedule
- Reminders improve immunization coverage & timeliness
- Fewer missed appointments (no shows)
- VHealth can help set up automated reminder system



State	19th	20th	21st	22nd	23rd	24th	25th	26th	27th	28th	29th	30th	31st
Hospital A - 19th	27th	28th	29th	30th	31st								
Hospital B - 20th		28th	29th	30th	31st								
Hospital C - 21st			29th	30th	31st								
Hospital D - 22nd				30th	31st								
Hospital E - 23rd					31st								
Hospital F - 24th						1st	2nd	3rd	4th	5th	6th	7th	8th
Hospital G - 25th							2nd	3rd	4th	5th	6th	7th	8th
Hospital H - 26th								3rd	4th	5th	6th	7th	8th
Hospital I - 27th									4th	5th	6th	7th	8th
Hospital J - 28th										5th	6th	7th	8th
Hospital K - 29th											6th	7th	8th
Hospital L - 30th												7th	8th
Hospital M - 31st													8th

## Change Option E: Remind Parents when Children Are Due/Overdue for Vaccines

**Sample Workflow:**



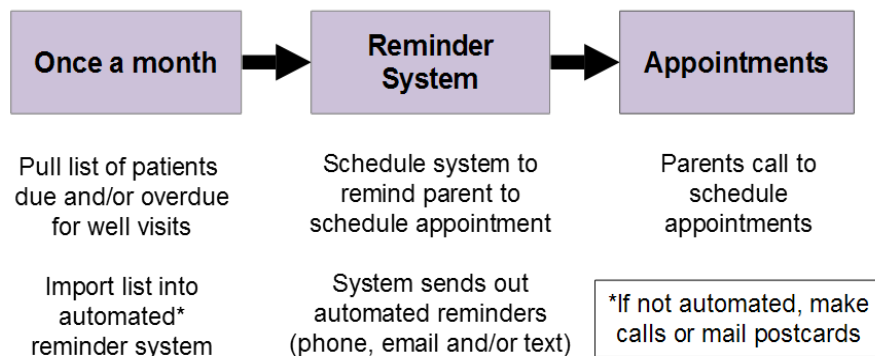
**Change Option F:**  
Remind parents when children are due/overdue for well visits

- Increases vaccine coverage by increasing well visits
- Increases timeliness of other preventative services
- Fewer missed appointments (no shows)
- More visits = more clinical revenue
- VHealth can help set up automated reminder system



**Change Option F:**  
Remind parents when children are due/overdue for well visits

*Sample Workflow:*



## Change Option G: Offer adolescent vaccines during non-well visits

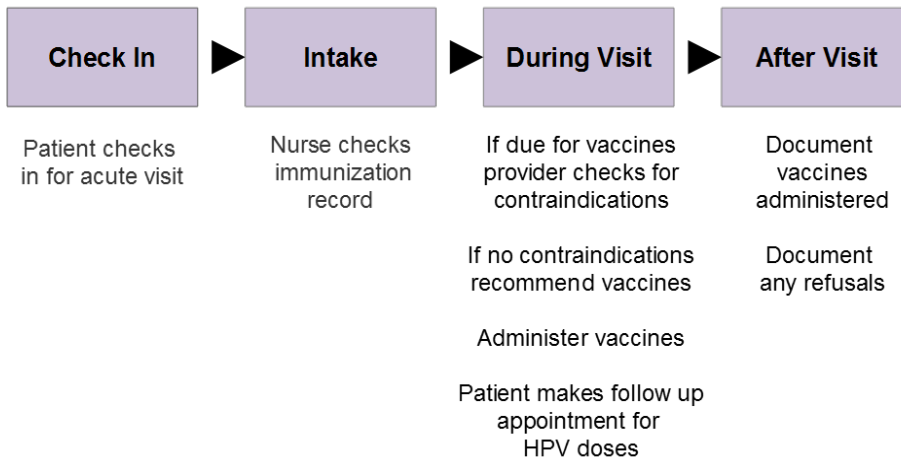
- According to CDC and AAP, mild illness is not a reason to delay vaccinations
- Decreases missed opportunities
- Increases vaccination rates
- Improves timeliness of vaccines



<https://www.cdc.gov/vaccines/hcp/patient-ed/conversations/downloads/fs-child-sick.pdf>

## Change Option G: Offer adolescent vaccines during non-well visits

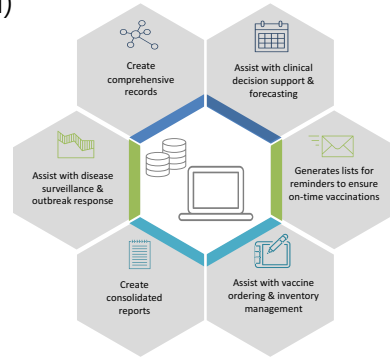
**Sample Workflow:**



## Change Option H: Add or Expand Use of TennIIS for Vaccine Reporting and Tools

### What you can do with TennIIS:

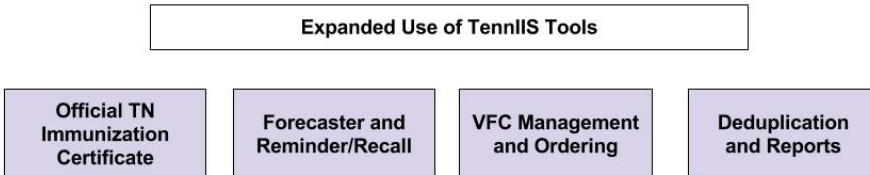
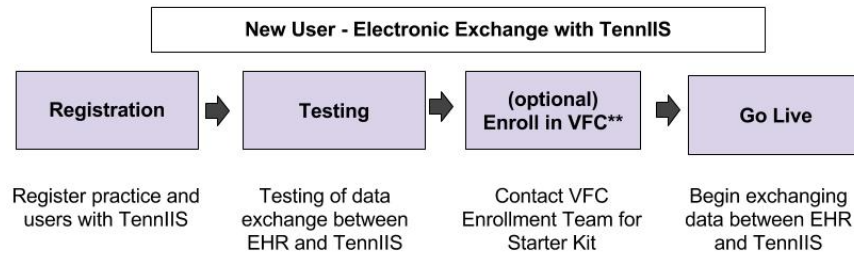
- Official TN Immunization Certificate Validation tool (no physician signature needed)
- Electronic data exchange\*
- Vaccines for Children (VFC) management and ordering
- Vaccine forecasting
- Reminder/recall lists
- Coverage reports
- Deduplication of records



\*Vhealth can set up data exchange for a fee

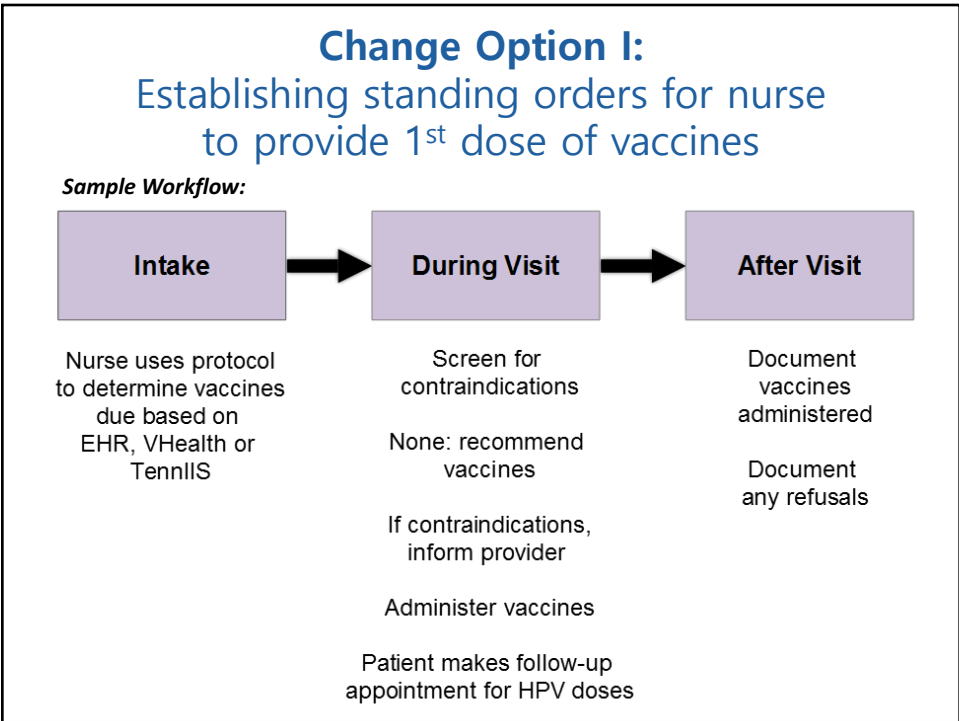
## Change Option H: Add or Expand Use of TennIIS for Vaccine Reporting and Tools

### Sample Workflow:



**Change Option I:**  
 Establishing standing orders for nurse  
 to provide 1<sup>st</sup> dose of vaccines

- One of most effective ways to increase vaccination rates
  - On average, 17% to 31% increase
- Reduces missed opportunities
- Promotes workflow efficiency
  - Eliminating need to obtain provider’s order to vaccinate each patient due
- Our team will provide a recommended protocol





## Quality improvement is a team effort!

You each play an **important** role in protecting your patients from HPV-related cancers.

