

GREGORY ZIMET, PHD

DEPARTMENT OF PEDIATRICS, IU SCHOOL OF MEDICINE

& THE IUPUI CENTER FOR HPV RESEARCH

Dixon B, Zimet GD, Xiao S, Tu W, Linday B, Church A, Downs SM. Pediatrics 2019;143:e20181457



- I received honoraria in the past year from Sanofi Pasteur for contributions to the Adolescent Immunization Initiative, an effort jointly sponsored by Sanofi Pasteur and by the Immunization Action Coalition
- I received an honorarium and travel support from Merck to present at an HPV symposium
- I have worked on HPV vaccine research funded by NIH



 The research I am presenting today was funded by a grant under the Merck-Regenstrief Program in Personalized Health Care Research and Innovation, a collaboration between Merck, Sharp & Dohme and the Regenstrief Institute. The project was also conducted in partnership with Noble.MD, a health care technology company.

To assess the effects of a point-of-care video on receipt of HPV vaccine (1st, 2nd, or 3rd dose)

 5 pediatric clinics run by Eskenazi Health, an urban safety net provider in metropolitan Indianapolis, Indiana.

 Parents of children 11 through 17 years of age, who had not received any HPV vaccine or had not completed the 3-dose series

- Intervention involved delivery of informational video via tablet (Theo)
- 2 clinics randomized to intervention; 3 clinics randomized to control
- All 5 clinics used a unique Clinician Decision Support (CDS) system called CHICA that was integrated into the EHR
- CHICA retrieved patients' HPV immunization records from the state's Immunization Information System (IIS)
- October, 2015 May, 2016

Intervention Design Workflow

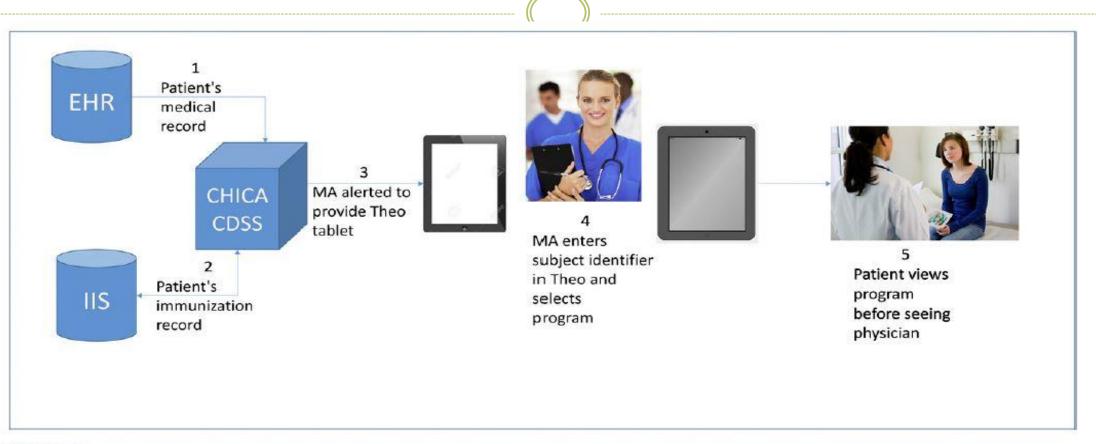


FIGURE 1

Information architecture and workflow used to trigger a clinical encounter involving the tablet educational intervention. As patients sign into the clinic, vaccination records are gathered electronically from the EHR and IIS. The CHICA CDSS (clinical decision support system) determines eligibility and notifies the MA if the patient should receive a tablet and provides a subject identifier. The subject identifier is entered into the tablet, which is given to the parent of the adolescent as the MA escorts them back to the examination room.

Pre-Video Survey

- Your child is due for the HPV vaccine today. Are you planning to have them vaccinated?
 - Yes [skip to 1a]
 - I would like more information [skip to 2a]
- If "Yes" then no video shown
- If "I would like more information", then either 1st dose video or subsequent dose video shown, as appropriate

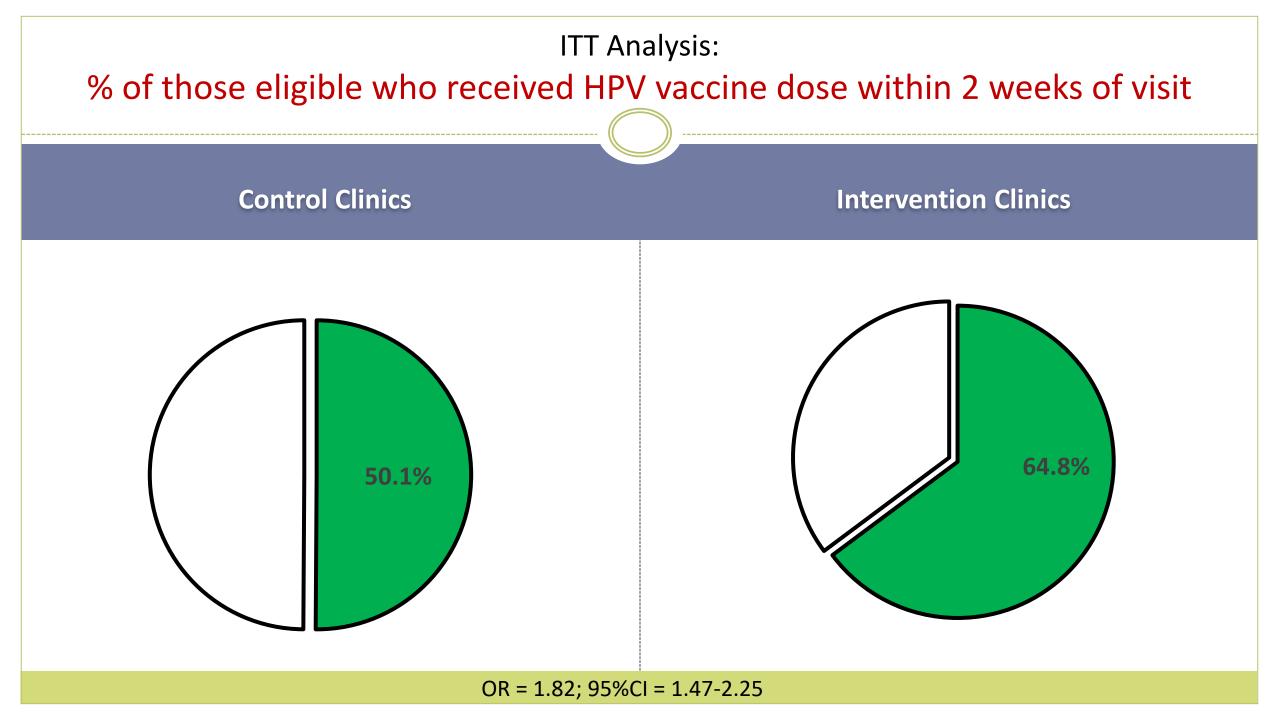
Topics Covered in Videos

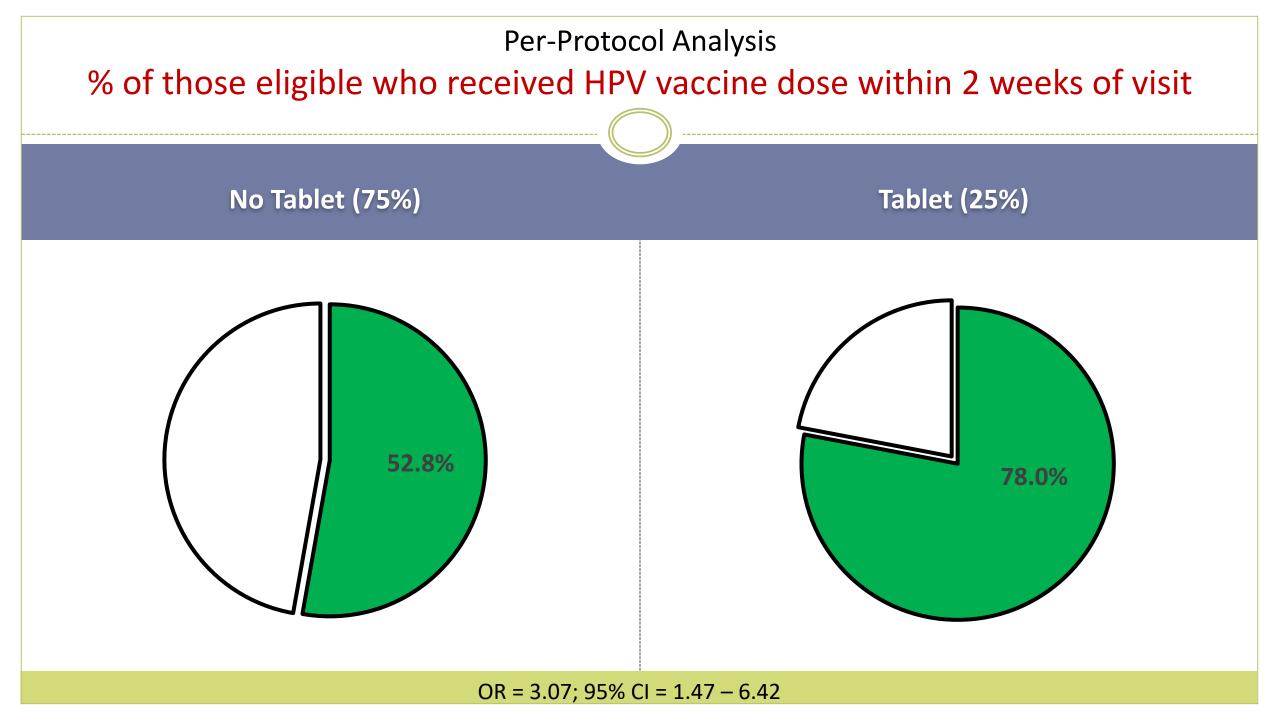
1st dose video

- Child due for 1st dose
- Normative statement
- HPV causes cancers in men & women
- HPV vaccine is safe & protective
- Works best when given early

2nd or 3rd dose video

- Child due for 2nd or 3rd dose
- Normative statement
- HPV causes cancers in men & women
- HPV vaccine is safe & protective
- Behavioral consistency message







 These results suggest that patient-centered education strategies delivered in a clinic setting via information technology platforms can increase receipt of HPV vaccine