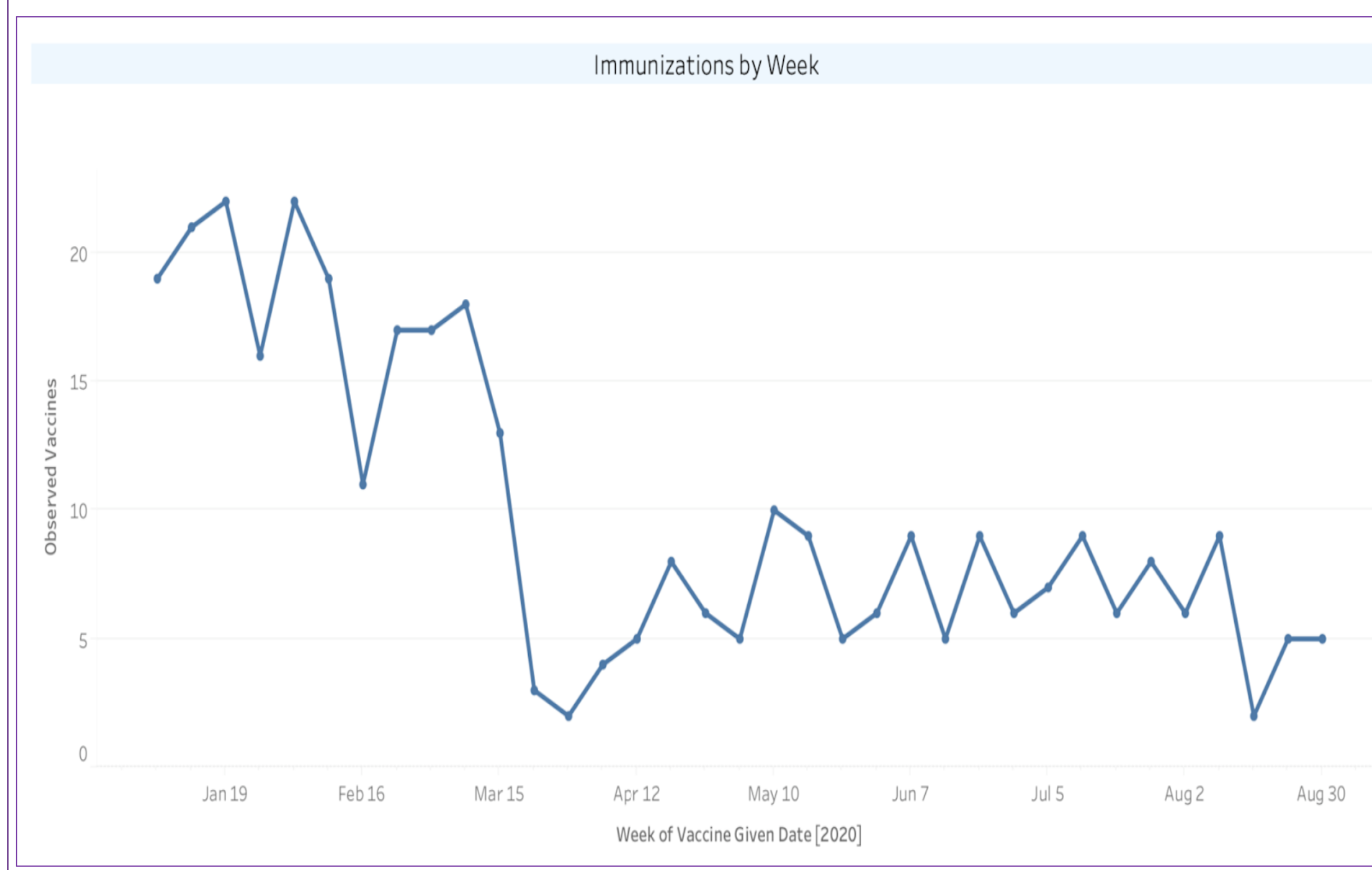


BACKGROUND

- Vaccines have significantly reduced the rates of childhood viral and bacterial infections, saving an estimated 2-3 million lives annually¹
- However, adolescent immunization rates have steadily declined²
- At the onset of the Covid 19 pandemic from January to March of 2020, the East Carolina University Adult and Pediatric Health Care (ECU APHC) clinic witnessed a fall in number of weekly vaccinations by approximately 91%



PROJECT AIM

By December 2022, 75% of all ECU APHC Medicaid patients ages 11-13 would have received all age-appropriate immunizations against HPV, Tdap, and MCV.

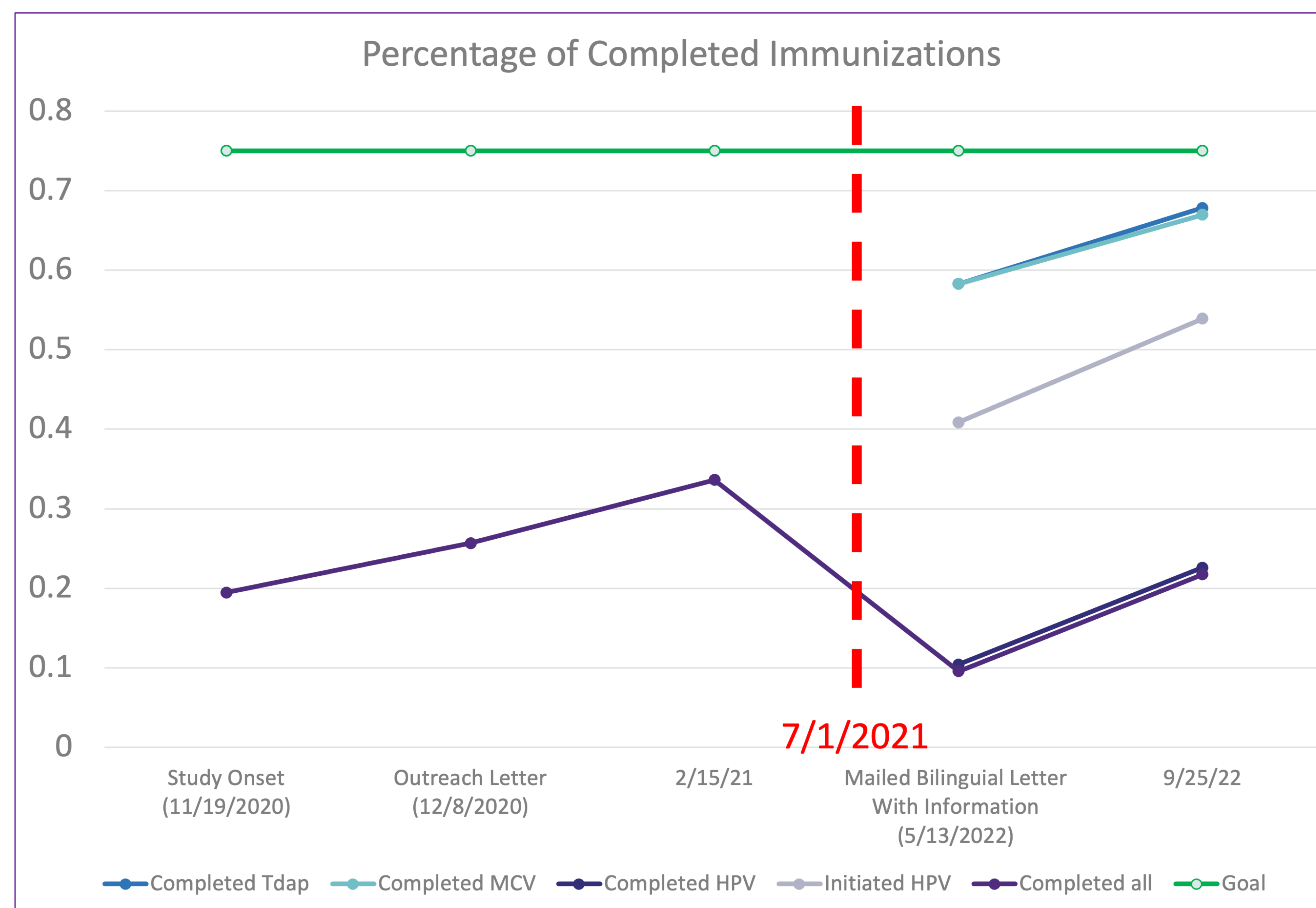
PROJECT DESIGN

- Data collection occurred primarily through electronic health record chart review
- Implemented changes included:
 - Contacting patient families
 - Information sheets on vaccine-preventable diseases
 - Mitigating language barriers through Spanish translations
- Progress was measured as percent of patients in the target population who received the three vaccines.
 - Rates of completed Tdap immunizations
 - Rates of completed MCV immunizations
 - Rates of completed HPV immunizations
 - Rates of initiated HPV immunizations
 - Rates of completed Tdap, MCV, and HPV immunizations

CHANGES MADE (PDSA CYCLES)

- PDSA 1 → 11/13/2020: Patient outreach through electronic health record
- PDSA 2 → 11/19/2020: Outreach letters mailed to homes of patient families
- PDSA 3 → 7/12/2021: Created information sheets on the three target vaccines of the study
- PDSA 4 → 7/18/2021: Outreach letters and vaccine information sheets translated into Spanish
- PDSA 5 → 5/13/2022: Bilingual outreach letters and vaccine information sheets mailed to patient family homes

RESULTS



Goal: 75%

Initiated HPV: 53.9%

Completed all: 21.7%

Tdap: 67.8%

Completed HPV: 22.6%

MCV: 66.9%

NC Medicaid Restructure

LESSONS LEARNED

- Method of contacting adolescent patient families
- Education on rationale behind healthcare vaccine recommendations
- Addressing language barriers
- Reliable data collection for project sustainability
- Unique approach for HPV immunization
- Vaccination rates affect public health of general population

NEXT STEPS

- Understanding parent perspectives regarding adolescent immunizations
- Nuanced approach to HPV immunization recommendations
- Automated generation of study data

REFERENCES

1. Delany I, Rappuoli R, De Gregorio E. Vaccines for the 21st century. *EMBO Mol Med.* 2014;6(6):708-720. doi:10.1002/emmm.201403876
2. Webb NS, Dowd-Arrow B, Taylor MG, Burdette AM. Racial/Ethnic Disparities in Influenza Vaccination Coverage Among US Adolescents, 2010-2016. *Public Health Reports.* 2018;133(6):667-676. doi:10.1177/0033354918805720

ACKNOWLEDGEMENTS

This poster was prepared with financial support from the American Medical Association (AMA) as part of the Accelerating Change in Medical Education Initiative. The content reflects the views of the authors and does not necessarily represent the views of the AMA or other participants in this initiative.