

# #KNOCKOUTHPV: A community-based, interdisciplinary approach to improving HPV vaccine uptake at a large urban public university

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WSU- EACPHS APhA-ASP Operation Immunization

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Pharmacy and Health Sciences

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# Background

- HPV vaccine: Lowest vaccination rates than other routine adolescent vaccines
  - In 2018, only 51.1% of U.S. males and females aged 13-17 completed the vaccine series
- Barriers: cultural, religious, financial, social, accessibility, etc.
- Current efforts to increase vaccination rates:
  - Technology based interventions
  - School entry requirements for vaccination
  - “Bundling” adolescent vaccines
  - Effective provider communications and recommendations

Walker TY, Elam-Evans LD, Yankey D, et al. National, Regional, State, and Selected Local Area Vaccination Coverage Among Adolescents Aged 13–17 Years — United States, 2018. MMWR Morb Mortal Wkly Rep 2019;68:718–723.



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# Background

- 2006: First HPV vaccine approved
- 2009: HPV vaccine approved for use in boys
- #KnockOutHPV → HPV vaccination promotion targeted at college students:
  - Who have not been vaccinated
  - Have not completed their vaccine series
  - Do not know their vaccination status



# Purpose

- Purpose of this project was to pilot a collaborative, interdisciplinary, multifaceted HPV education and vaccination program on the main campus of Wayne State University in Detroit, MI



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# Specific aims

- Specific Aim #1: Determine the program's financial and logistical feasibility
  - Determine cost-effectiveness of program
- Specific Aim #2: Determine program impact on individual knowledge and attitudes towards HPV and HPV vaccine
  - Event pre/post surveys
- Specific Aim #3: Determine the impact of the program on the local community through measurement of key HPV vaccination metrics
  - Comparison between Jan-Jun 2018 and Jan-Jun 2019



# Project Methodology- 5 Key Interventions

- Promotion and Outreach
- Patient Education
- Provider Education
- Access
- Documentation



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# Partnerships



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# Promotion and Outreach

- Print material through the Wayne State Graphics department distributed in undergraduate library, student center, dining halls, and other Wayne State buildings
  - February 2019-June 2019
  - Facts studied by Merck to be most effective for college-aged youth
  - Promotional material included a \$10 One card gift card for the first 50 vaccine recipients which they can use at various stores on campus.









# Patient Education

- January 17, 2019- Someone You Love Screening and #KNOCKOUTHPV kickoff event



Please join us for a movie screening to launch the **#KnockOutHPV** project at Wayne State University

**SOMEONE YOU LOVE**  
THE **HPV** EPIDEMIC

WINNER  
2018  
BEST DOCUMENTARY  
FILM  
WINNER  
2018  
BEST DOCUMENTARY  
FILM  
NOMINATED  
2018  
BEST DOCUMENTARY  
FILM

Thursday, Jan. 17 • 5-7 p.m.  
WSU Applebaum Auditorium  
259 Mack Ave. • Detroit, MI 48201

Free admission, snacks and raffle prizes  
Medical, nursing and pharmacy CE credits available

For more information, contact [adalah.yahia@wayne.edu](mailto:adalah.yahia@wayne.edu)  
RSVP at [cphs.wayne.edu/hpv](http://cphs.wayne.edu/hpv)

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 **CAMPUS Health CENTER**

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# Patient Education

- February 19, 2019- Sex, Drugs, and the Dragon



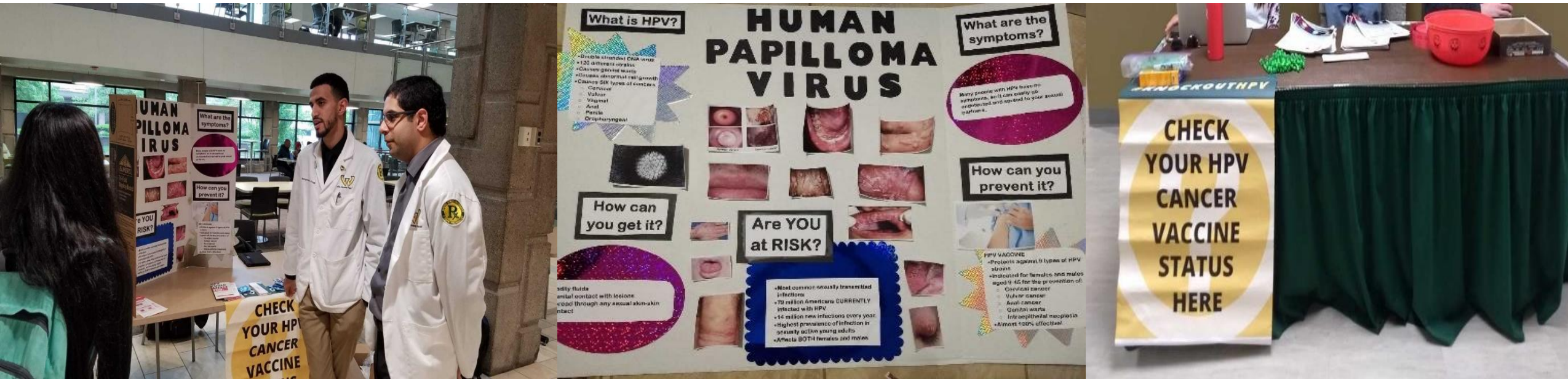
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# Patient Education

- April -June 2019- HPV Information Tables



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# Patient Education

- June 6<sup>th</sup>, 2019 – Seminar by Dr. Basel Khatib, MD



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# Provider Education

- Training program
  - 10 APha-ASP Operation Immunization pharmacy students
  - Trained as health navigators on HPV vaccination
  - American Cancer Society training material
  - Provided manual on HPV
  - CDC communication techniques to address barriers



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# Access

- **Wayne State University Campus Health Center**
- Appointments and walk-ins Monday-Friday 9am to 5:30pm
- Vaccination and vaccine status checks using MCIR



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# Documentation


- Michigan Care Improvement Registry (MCIR)
  - Used by CHC public health student for documentation and record look-up
- CHC Roster
  - Roster of patients seen at clinic who have not completed series
  - Public Health student to contact via phone to encourage vaccine completion

COMPLETE THE SERIES TO PROTECT YOURSELF FROM SIX TYPES OF CANCER  
Mention #KnockOutHPV at WSU to receive a \$10 OneCard credit\*

Dose #1      Dose #2      Dose #3

<input type="text"/>	<input type="text"/>	<input type="text"/>
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 Add a reminder to your phone calendar app to ensure you stay protected

 **WAYNE STATE UNIVERSITY**

**CAMPUS Health CENTER**

**LOCATION**  
5200 Anthony Wayne Dr.  
Suite 115  
Detroit, MI 48202

**CONTACT US**  
Phone: [313-577-5041](tel:313-577-5041)  
Fax: [313-577-9581](tel:313-577-9581)  
[campushealth@wayne.edu](mailto:campushealth@wayne.edu)

\*Credit limited to first 50 vaccine recipients  
\*Limited one \$10 credit per patient



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# Specific Aim 1

- Determine the programs financial and logistical feasibility

- Total cost → \$3000

Role	Hours	Component	Hours
Faculty supervisors	35	Planning	163
Student Pharmacists	240	Execution of events	150
Support personal	44	Student data collection	6
Total:	319	Total:	319





## Specific Aim 2

- Determine the program impact on individual knowledge and attitudes towards HPV and the HPV vaccine
- Total surveys: 248
- Females: 160 Males: 88
- Total number who have completed the HPV series: 106





## Specific Aim 2

Question	Pre-survey	Post-survey	Change score
On a scale of 0-10, how would you rate your current knowledge of human papillomavirus (HPV)?	5.04	7.96	+2.92
On a scale of 0-10, how would you rate your current knowledge of HPV vaccine?	5.11	8.10	+2.99



## Specific Aim 2

Question	Pre-survey	Post-survey	Change score
If you were/are eligible, how willing would you to receive the HPV vaccine series?	7.96	9.07	+1.11
How likely are you to recommend the HPV vaccine series to your friends, family, and/or (if you are a healthcare provider/student) patients?	8.25	9.21	+0.96



# Specific Aim 3

- Determine the impact of the program on the local community through measurement of key HPV vaccination metrics
- Total number of HPV vaccinations administered during the study period:

	2018	2019
Total HPV vaccines	47	83

- Total number of individuals receiving one, two, or three doses of HPV vaccine during the study period:

Doses of HPV Vaccine	2018	2019
1 dose	14	35
2 doses	5	26
3 doses	23	21



# Specific Aim 3

- Total number of individuals who started the age-appropriate HPV vaccine series during the study period:

	2018	2019
Vaccines	14	35

- Total number of individuals who completed the age-appropriate HPV vaccine series during the study period:

	2018	2019
Vaccines	21	21

- Comparison of total number of HPV vaccinations administered during the study period to the number administered during the same period in the previous year (January 1, 2018 – June 30, 2018): **+76.6%**



# Future direction

- APhA-ASP Operation Immunization → Continue HPV information tables on Wayne State University with pharmacy student volunteers
- Strengthen Campus Health Center collaboration with pharmacy students for continued efforts and ideas to improve vaccination rates
- Petition for Wayne State University to add the HPV vaccine to current recommended vaccine list for students living in residence halls
- Continue to integrate pharmacy students in efforts to increase HPV education and vaccination





THANK YOU 😊



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