

Exploring Knowledge and Attitudes about HPV and Vaccination among Nurses in an Urban School District

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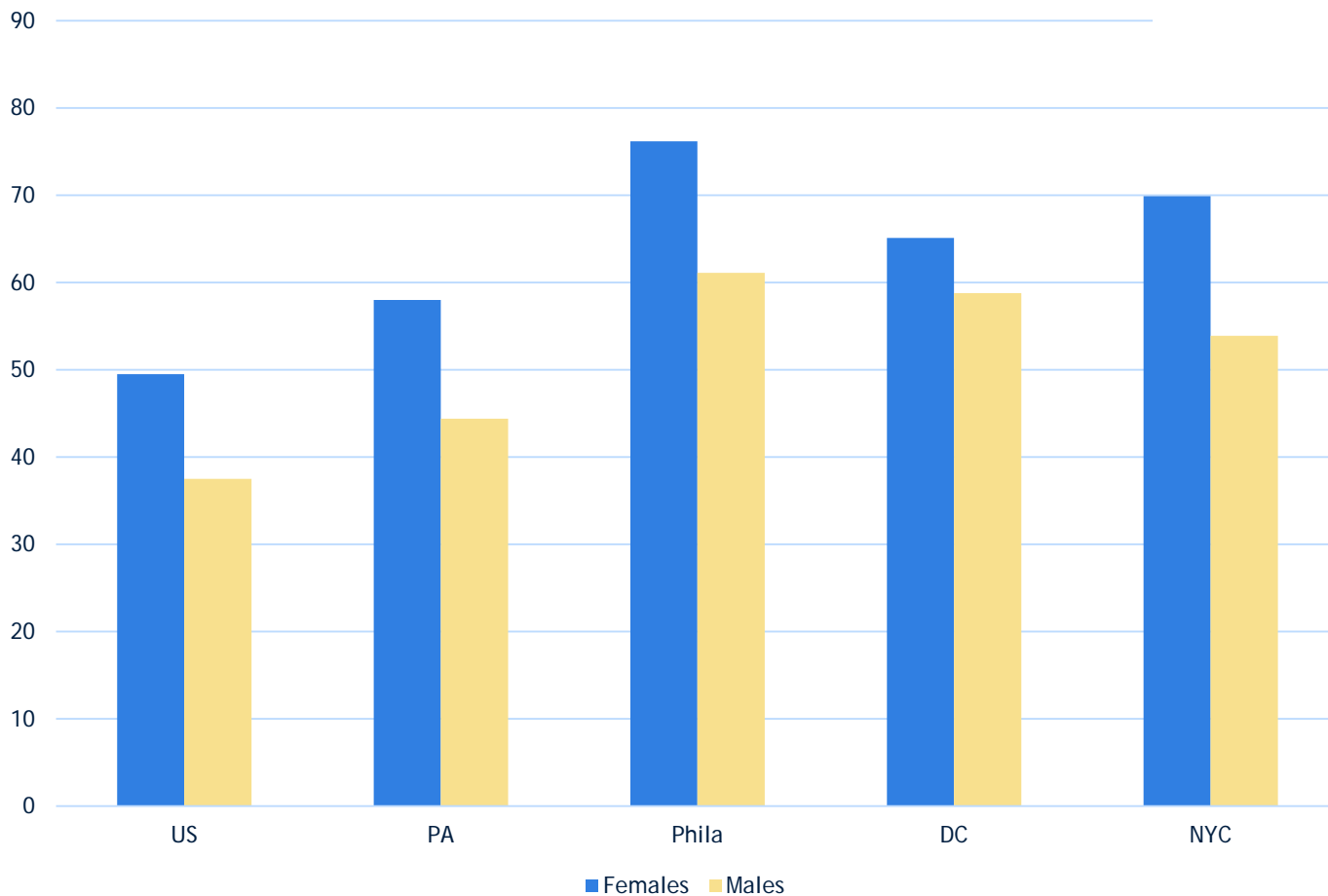
School Nurses and Immunizations

- School nurses are often unrecognized as a healthcare provider who can influence parent-guardian choices.
- School nurses have opportunities that other healthcare providers do not, such as frequently seeing students.
- School nurses are ideally positioned within their communities to educate students, families, and school staff about the critical role vaccines play in preventing disease, allowing students and staff to remain healthy and in school.
- Although the HPV vaccine is not mandated for school entry in PA, school nurses can still play a vital advocacy role.

HPV Vax Rates in Philadelphia, PA



Percent Vaccinated Against HPV, 2016



Why Success in Philadelphia?

- Disproportionate number of academic medical centers and children's hospitals in the region
- KIDS Plus Immunization Registry

More Reasons for Success in Philadelphia....

- PDPH received a CDC grant in 2013 to boost HPV vaccination rates across the city
- Since 2007, Philadelphia has allowed those ages 11 and older to authorize their own immunization without the approval or consent of a parent, guardian or any other representative
- Lots of HPV vaccine research

An Environmental Scan of Barriers to HPV Vaccination in Philadelphia, PA (NIH/NCI P30CA056036)

Environmental Scan

Community Scan	Media Scan	Registry Scan
Goal: Assess barriers to vaccination in priority populations	Goal: Describe the online media environment	Goal: Identify novel predictors of HPV vaccination
Data: <ul style="list-style-type: none">• Stakeholder interviews• Surveys• Walking surveys of neighborhoods and practices	Data: <ul style="list-style-type: none">• Online news• Social media• Search engine data	Data: <ul style="list-style-type: none">• Philly + NJ (Camden) immunization registries

More Time to Talk about our Supplement Grant...

- Interdisciplinary team
- Guided by a Stakeholder Advisory Group



Study Purpose & Methods

- To assess the knowledge, attitudes, and access to educational resources among school nurses in an urban school district
- 208 school nurses who attended a mandatory professional education training about a variety of topics, including HPV vaccination
- One-time pre-survey prior to the start of a 15 minute talk on the HPV vaccine
- Descriptive and bivariate analyses via SPSS

Please answer the following questions to the best of your ability. Thank you for your time.

	True	False	Don't Know
It is estimated that almost every adult in the U.S. who is sexually active will get HPV at some point in their life.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Boys require more doses of the HPV vaccine than girls to be effectively vaccinated.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
In Philadelphia, children younger than age 18 can receive the HPV vaccine without parental consent.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The youngest age that a child can get the HPV vaccine is 11 years old.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HPV vaccine is recommended at the same age as Tdap and MCV4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

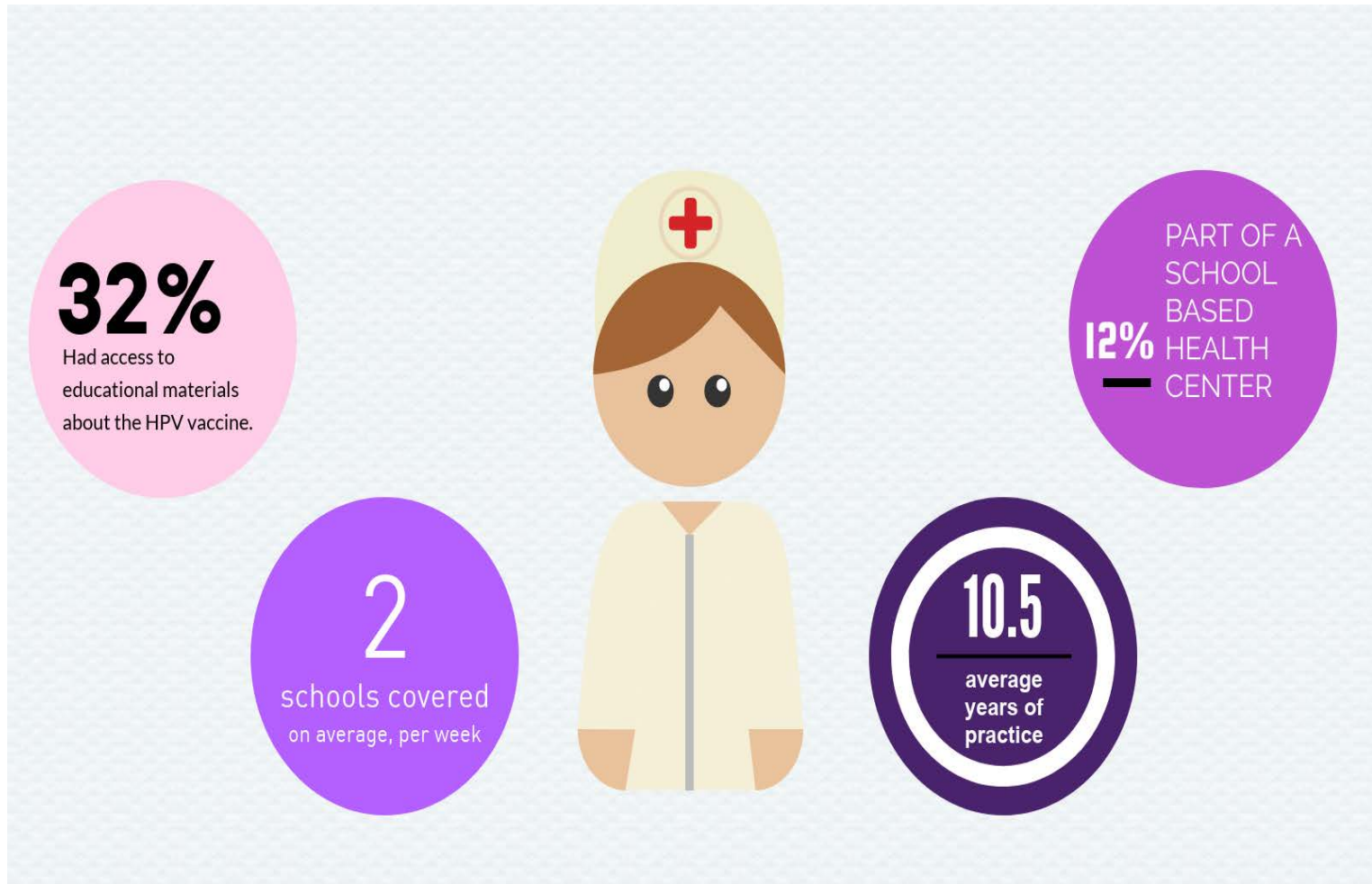
	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
The HPV vaccine is an important part of child/adolescent health.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
As a school nurse, I feel it is my responsibility to promote the HPV vaccine.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I think of the HPV vaccine in the same way that I think of other adolescent vaccines.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Parents of the children in my school ask me about the HPV vaccine.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I know enough about the HPV vaccine to answer any questions a parent or child may have.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I know where to refer a student who wants to get the HPV vaccine.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The students in my school ask me about the HPV vaccine.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
If I could provide the HPV vaccine to the students at my school, I would.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
What are the ages of children that you take care of? Check all that apply.	<input type="checkbox"/> Preschool	<input type="checkbox"/> Elementary	<input type="checkbox"/> Middle School/Junior High	<input type="checkbox"/> High School	

	Yes	No
Are you part of a school based health center?	<input type="checkbox"/>	<input type="checkbox"/>
At your school(s), do students have access to educational materials about the HPV vaccine?	<input type="checkbox"/>	<input type="checkbox"/>

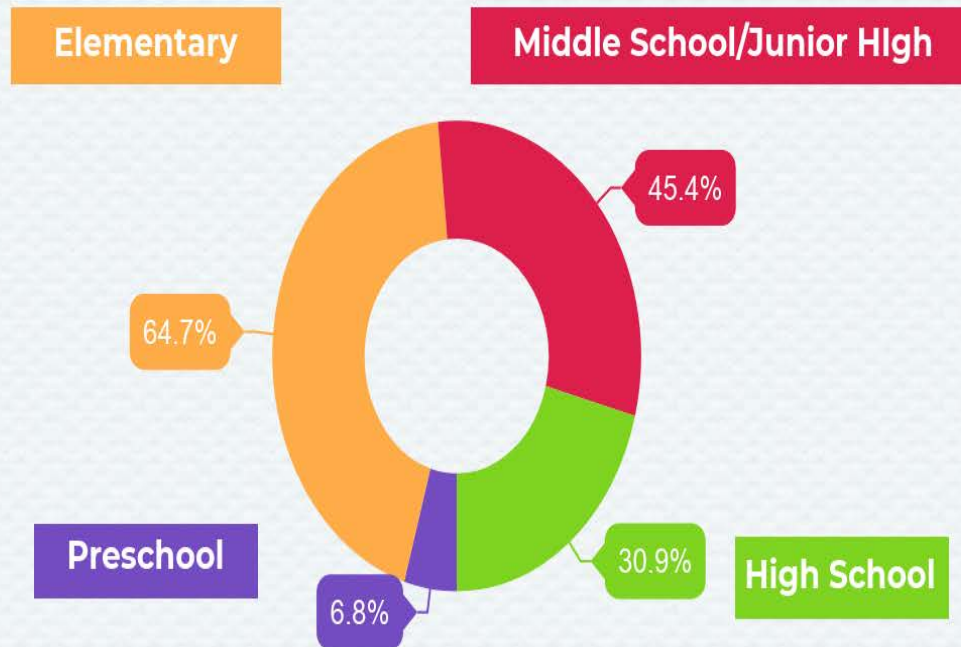
Years of practice as a school nurse: _____
Number of schools you cover in a week: _____

Please feel free to use the space below to write down any comments or additional information you would like to share with us.

Description of Participants



A majority of nurses care for children that are of HPV vaccination age.



Results - Knowledge

	N	% Correct	Mean	SD
It is estimated that almost every adult in the U.S. who is sexually active will get HPV at some point in their life.	82	39%	-	-
Boys require more doses of the HPV vaccine than girls to be effectively vaccinated.	167	80%	-	-
In Philadelphia, children younger than age 18 can receive the HPV vaccine without parental consent.	82	39%	-	-
The youngest age that a child can get the HPV vaccine is 11 years old.	46	22%	-	-
HPV vaccine is recommended at the same age as Tdap and MVC4.	158	76%	-	-
Overall Knowledge Score	208		3	±1.09

Results- Attitudes and Responsibilities

	N	Strongly Disagree (%)	Disagree N(%)	Neutral N(%)	Agree N(%)	Strongly Agree N(%)
The HPV vaccine is an important part of child/adolescent health.	208	4%	5%	15%	31%	45%
As a school nurse, I feel it is my responsibility to promote the HPV vaccine.	207	5%	9%	32%	25%	29%
I think of the HPV vaccine in the same way that I think of other adolescent vaccines.	204	5%	12%	19%	32%	32%
I know enough about the HPV vaccine to answer any questions a parent or child may have.	204	9%	33%	26%	27%	5%

Results- More Attitudes and Responsibilities

	N	Strongly Disagree (%)	Disagree N(%)	Neutral N(%)	Agree N(%)	Strongly Agree N(%)
Parents of the children in my school(s) ask me about the HPV vaccine.	204	23%	36%	18%	20%	3%
I know where to refer a student who wants to get the HPV vaccine.	204	4%	5%	6%	50%	35%
The students in my school(s) ask me about the HPV vaccine.	203	33%	40%	11%	12%	4%
If I could provide the HPV vaccine to the students at my school(s), I would.	189	22%	20%	23%	25%	10%

Differences by Years of Practice

	N	Mean	SD	p-value
I know where to refer a student who wants to get the HPV vaccine.				
Less than 10 Years of Practice	91	3.87	±1.046	0.004
More than 10 Years of Practice	90	4.28	±0.821	
If I could provide the HPV vaccine to the students at my school(s), I would.				
Less than 10 Years of Practice	87	3.17	±1.183	<0.001
More than 10 Years of Practice	84	2.48	±±1.331	

Conclusion

- Few nurses demonstrated comprehensive knowledge about the HPV vaccine
- Nurses don't always feel comfortable advocating for the vaccine
- Educational resources about the vaccine are not typically in schools
- Opportunities for collaboration, even when vaccine is not mandated in schools



The Greater Philadelphia HPV Immunization Collaborative

Details about the Collaborative

Mission

The collaborative provides a platform to share knowledge and strategies that support HPV immunization. We unite health professionals and health advocates in greater Philadelphia who share a common goal of HPV disease prevention.

Vision: A greater Philadelphia free of HPV disease

Values

- Inclusive
- Authentic
- Action-oriented
- Effective
- Relevant

I was short one slide....



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