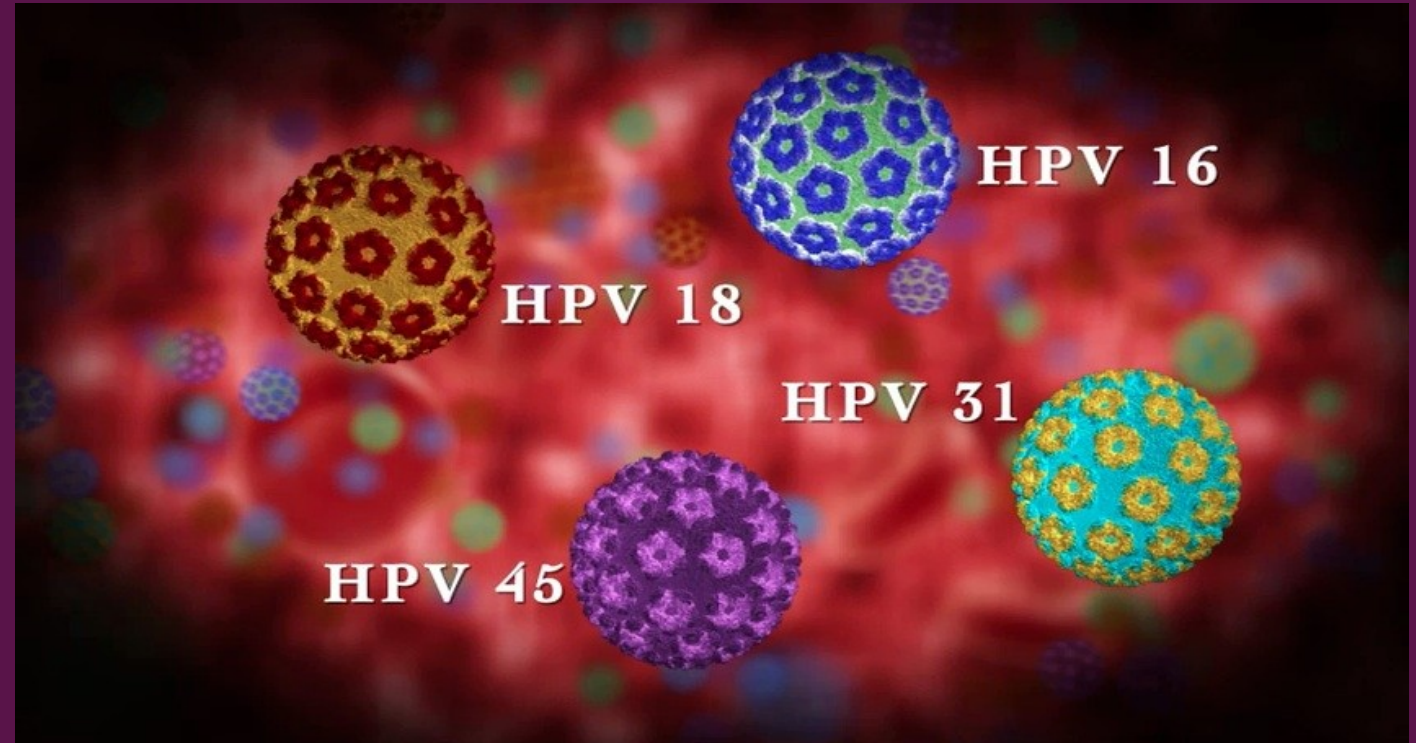


Examination of HPV Vaccine Uptake and Physician Attitudes and Practices Surrounding Vaccination



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P30CA047904-29S3



University of
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Purpose

- To develop a better understanding of HPV vaccine uptake rates, practices, and attitudes surrounding HPV in our catchment area (CA)
- To develop and employ implementation strategies to promote uptake of the HPV vaccine

Catchment Area

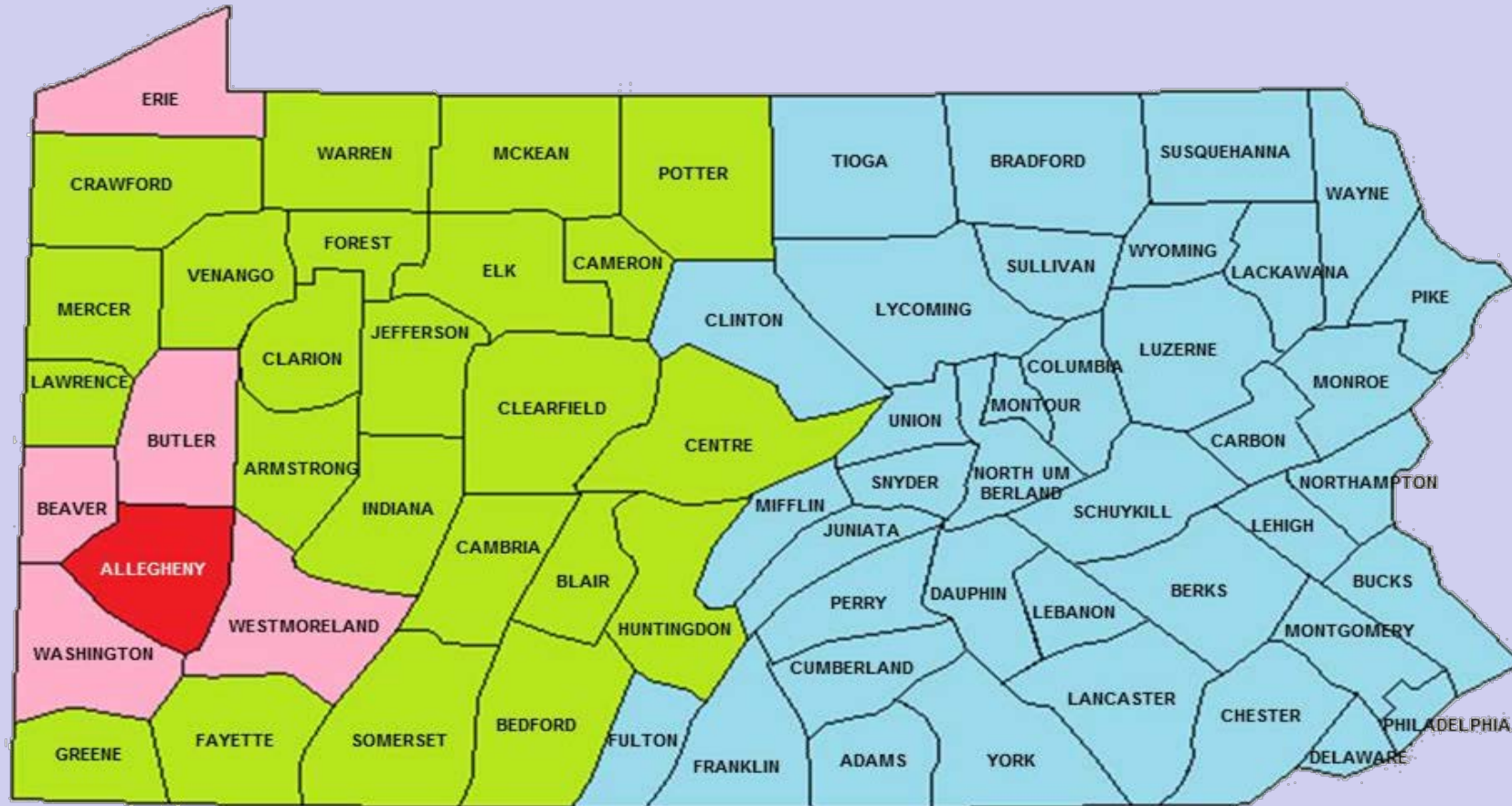


Figure 1 Map of Pennsylvania counties. Counties that make up UPCI's western PA catchment area are colored red (for urban), pink (for suburban), or green (for rural).

Mixed Methods Approach



UPMC ID	UPMC Name	UPMC Type	UPMC Description	UPMC Address	UPMC City	UPMC State	UPMC Zip	UPMC Phone	UPMC Email	UPMC Fax	UPMC Website
1029	Himee C Lee MD	UPMC	Primary C Pediatric	First Step Pediatric and Adolescent Medicine	Rabinow P	Routts 60 S	Pittsburgh PA	15205	Allegher (412)788-3400	Fan@upmc.edu	Alla0571
2871	Small Mah MD	UPMC	Primary C Pediatric	First Step Pediatric and Adolescent Medicine	Rabinow P	Routts 60 S	Pittsburgh PA	15205	Allegher (412)788-3400	Fan@upmc.edu	Alla0571
3571	Benjamin W MD	UPMC	Primary C Pediatric	First Step Pediatric and Adolescent Medicine	Rabinow P	Routts 60 S	Pittsburgh PA	15205	Allegher (412)788-3400	Fan@upmc.edu	Alla0571
3900	William R S MD	UPMC	Primary C Family Practi	William R Sannenberg MD	Oil Creek H	119 East Ma	Titusville PA	16354	Crauser (814)827-4044	and@zorkly.com	Cr3900
5241	Curtis Coak MD	UPMC	Primary C Pediatric	Franklin Pediatric Franklin PA	110 North H	Franklin PA	16223	Vanong (814)437-4241	curtis@upmc.edu	Van5241	
4555	Kurt Elund MD	UPMC	Primary C Family Practi	Mead Avenue Family Practice	1036 Mead	Curry PA	16407	Erie (814)664-4000	Joanne.hume@eriedoc.com	Erie4555	
1947	Thamar L S MD	UPMC	Primary C Family Practi	Primary Care Group 2 Inc	Suite 200	6011 Boppla	Pittsburgh PA	15236	Allegher (412)351-1000	john.halchin@allstate.com	Alla1947
3256	Glenn G Hai MD	UPMC	Primary C Pediatric	Haps Pediatric PC	Suite 106	3512 State	Seneca PA	16346	Vanong (814)677-4100	king@happo.com	Van3256
9166	Linda G Oak MD	UPMC	Primary C Pediatric	Haps Pediatric PC	Suite 106	3512 State	Seneca PA	16346	Vanong (814)677-4100	king@happo.com	Van9166
1377	Ellen C Smi MD	UPMC	Primary C Pediatric	Haps Pediatric PC	Suite 106	3512 State	Seneca PA	16346	Vanong (814)677-4100	king@happo.com	Van1377
1961	Scott L Tyz MD	UPMC	Primary C Pediatric	Pediatric South	240 Mt Leb	Pittsburgh PA	15234	Allegher (412)361-1000	Imccowland@upmc.edu	Imccowland1961	
2243	Janet Maric MD	UPMC	Primary C Pediatric	Pediatric South	240 Mt Leb	Pittsburgh PA	15234	Allegher (412)361-1000	Imccowland@upmc.edu	Imccowland2243	
2116	Amy A Garl MD	UPMC	Primary C Pediatric	Pediatric South	240 Mt Leb	Pittsburgh PA	15234	Allegher (412)361-1000	Imccowland@upmc.edu	Imccowland2116	
3785	Linda E Ran MD	UPMC	Primary C Pediatric	Pediatric South	240 Mt Leb	Pittsburgh PA	15234	Allegher (412)361-1000	Imccowland@upmc.edu	Imccowland3785	
3704	Marc A Yarl MD	UPMC	Primary C Pediatric	Pediatric South	240 Mt Leb	Pittsburgh PA	15234	Allegher (412)361-1000	Imccowland@upmc.edu	Imccowland3704	
3474	Brietta A Ka MD	UPMC	Primary C Pediatric	Pediatric South	240 Mt Leb	Pittsburgh PA	15234	Allegher (412)361-1000	Imccowland@upmc.edu	Imccowland3474	
2349	Maya R Gal MD	UPMC	Primary C Pediatric	Pediatric South	240 Mt Leb	Pittsburgh PA	15234	Allegher (412)361-1000	Imccowland@upmc.edu	Imccowland2349	
1573	Jamez M Opy MD	UPMC	Primary C Family Practi	J Miller Opy MD	Suite 3-A	201 North C	Cannella PA	15425	Fayette (724)362-3000	Imppym@upmc.edu	Fay1573
4034	Kachiker G MD	UPMC	Primary C Pediatric	Kid Plur Pediatric PC	4070 Bevel	Pittsburgh PA	15217	Allegher (412)321-1000	Keriz@kidz.com	Alla4034	
1135	Ted H Waj MD	UPMC	Primary C Pediatric	Kid Plur Pediatric PC	4070 Bevel	Pittsburgh PA	15217	Allegher (412)321-1000	Keriz@kidz.com	Alla1135	
1995	Albert A We MD	UPMC	Primary C Pediatric	Kid Plur Pediatric PC	4070 Bevel	Pittsburgh PA	15217	Allegher (412)321-1000	Keriz@kidz.com	Alla1995	
7610	Mara C Riel MD	UPMC	Primary C Pediatric	Kid Plur Pediatric PC	4070 Bevel	Pittsburgh PA	15217	Allegher (412)321-1000	Keriz@kidz.com	Alla7610	
7620	Ashley N Ri MD	UPMC	Primary C Pediatric	Kid Plur Pediatric PC	4070 Bevel	Pittsburgh PA	15217	Allegher (412)321-1000	Keriz@kidz.com	Alla7620	
0319	Michael P H MD	UPMC	Primary C Family Practi	South Hill Family Medicine LLC	Suite 250	495 East W	Hamart PA	15120	Allegher (412)462-1000	Kelly@shill.com	Alla0319
1473	Brian J Day MD	UPMC	Primary C Family Practi	South Hill Family Medicine LLC	Suite 250	495 East W	Hamart PA	15120	Allegher (412)462-1000	Kelly@shill.com	Alla1473
3223	Benjamin T MD	UPMC	Primary C Family Practi	South Hill Family Medicine LLC	Suite 250	495 East W	Hamart PA	15120	Allegher (412)462-1000	Kelly@shill.com	Alla3223
0431	Richard K Z MD	UPMC	Primary C Family Practi	East Liberty Family Health Center	6023 Harvc	Pittsburgh PA	15206	Allegher (412)661-1000	Kfedar@upmc.edu	Alla0431	
1939	David A Bla MD	UPMC	Primary C Family Practi	East Liberty Family Health Center	6023 Harvc	Pittsburgh PA	15206	Allegher (412)661-1000	Kfedar@upmc.edu	Alla1939	
1801	David G Hal MD	UPMC	Primary C Family Practi	East Liberty Family Health Center	6023 Harvc	Pittsburgh PA	15206	Allegher (412)661-1000	Kfedar@upmc.edu	Alla1801	
2030	Gregory Ch MD	UPMC	Primary C Pediatric	East Liberty Family Health Center	6023 Harvc	Pittsburgh PA	15206	Allegher (412)661-1000	Kfedar@upmc.edu	Alla2030	
3709	Joseph L W MD	UPMC	Primary C Family Practi	East Liberty Family Health Center	6023 Harvc	Pittsburgh PA	15206	Allegher (412)661-1000	Kfedar@upmc.edu	Alla3709	
3837	Sima A Wex MD	UPMC	Primary C Family Practi	East Liberty Family Health Center	7171 Oharc	Pittsburgh PA	15206	Allegher (412)661-1000	Kfedar@upmc.edu	Alla3837	
3499	Theodore C MD	UPMC	Primary C Family Practi	East Liberty Family Health Center	6023 Harvc	Pittsburgh PA	15206	Allegher (412)661-1000	Kfedar@upmc.edu	Alla3499	
3343	Krista L Cai MD	UPMC	Primary C Family Practi	East Liberty Family Health Center	6023 Harvc	Pittsburgh PA	15206	Allegher (412)661-1000	Kfedar@upmc.edu	Alla3343	
8176	Jazrica C D MD	UPMC	Primary C Family Practi	East Liberty Family Health Center	6023 Harvc	Pittsburgh PA	15206	Allegher (412)661-1000	Kfedar@upmc.edu	Alla8176	
3892	Jahn M Gar MD	UPMC	Primary C Pediatric	Jahn M Gar MD	Suite 360	761 Jahn	Saint M PA	15857	Elk (814)781-1000	kid@jmg.com	Elk3892
1478	Rabert AM MD	UPMC	Primary C Family Practi	The Circulatory Center of Pennsylvania	Corporate	4075 Mann	Marzac PA	15146	Allegher (412)373-1000	lmc@cccpa.com	Alla1478
1636	Richard A M MD	UPMC	Primary C Family Practi	Richard A Morcuria MD Inc	Suite 101A	198 Wartq	Kittanni PA	15201	Armtra (724)543-1000	lmc@rcma.com	Arm1636
4951	Phillip E Ro MD	UPMC	Primary C Family Practi	Cherry Tree Medical Associates Inc	25 Highlan	Unianta PA	15401	Fayette (724)439-1000	mari@ctma.com	Fay4951	
0121	Daniel M Gr MD	UPMC	Primary C Pediatric	Souckley Valley Pediatric & Adolescent Medicine	Suite 102	119 WIP Driv	Westfars PA	15900	Allegher (724)935-1000	manique@svpm.com	Alla0121
2433	Vida S Kani MD	UPMC	Primary C Pediatric	Souckley Valley Pediatric & Adolescent Medicine	Suite 102	119 WIP Driv	Westfars PA	15900	Allegher (724)935-1000	manique@svpm.com	Alla2433
1859	Katherine F MD	UPMC	Primary C Family Practi	Metra Family Practice	Suite 410	1789 South	Pittsburgh PA	15218	Allegher (412)247-1000	haultman@metra.com	Alla1859
2216	Martin I Sol MD	UPMC	Primary C Family Practi	Metra Family Practice	Suite 410	1789 South	Pittsburgh PA	15218	Allegher (412)247-1000	haultman@metra.com	Alla2216
0001	Rebecca D MD	UPMC	Primary C Family Practi	Rebecca D Larkbank MD	280 Clinter	Meadvil PA	16335	Crauser (814)333-1000	office@rebecca.com	484 Cra	
1165	Gary G Sau MD	UPMC	Primary C Family Practi	Partners in Family Care PC	Suite 107	27 Hockel F	McKeer PA	15136	Allegher (412)331-1000	patty@keezler.com	Alla1165
2627	Stephen Hl MD	UPMC	Primary C Family Practi	Partners in Family Care PC	Suite 107	27 Hockel F	McKeer PA	15136	Allegher (412)331-1000	patty@keezler.com	Alla2627
2324	Yenkata Ro MD	UPMC	Primary C Pediatric	Pediatric Care Specialist	110 Main St	Jahnata PA	15901	Cambria (814)266-1000	parbillin@cam.com	Cam2324	
3245	Sathya NA MD	UPMC	Primary C Pediatric	Pediatric Healthcare Aztec	615 Sixth A	Altaans PA	16602	Blair (814)944-1000	phco@yaha.com	Blai3245	
3325	Nader D Yar MD	UPMC	Primary C Pediatric	Pediatric Healthcare Aztec	615 Sixth A	Altaans PA	16602	Blair (814)944-1000	phco@yaha.com	Blai3325	
3229	Mahamad F MD	UPMC	Primary C Pediatric	Pediatric Healthcare Aztec	615 Sixth A	Altaans PA	16602	Blair (814)944-1000	phco@yaha.com	Blai3229	
0009	Adnan Youw MD	UPMC	Primary C Pediatric	Pediatric Healthcare Aztec	615 Sixth A	Altaans PA	16602	Blair (814)944-1000	phco@yaha.com	Blai0009	
2963	Paul M Chk MD	UPMC	Primary C Pediatric	Helping Hand Pediatric Inc	Suite 400	26 Harbit R	Nou Car PA	16105	Laurence (724)346-1000	rschill@hh.com	Lau2963
3229	Sant Ram MD	UPMC	Primary C Pediatric	Sant Ram MD	2123 Wart E	Erie PA	16505	Erie (814)453-1000	ram@aff@eriedoc.com	Erie3229	
1077	Karl R Post MD	UPMC	Primary C Family Practi	Karl R Post MD	104 Brickle	Blancha PA	16826	Centre (570)962-1000	rap@619@ysal.com	Gen1077	
4418	Cherry A Da MD	UPMC	Primary C Pediatric	Kid Way Pediatric	3068 Innaw	Hermita PA	16148	Mercer (724)981-1000	reb@pman67.com	Mer4418	
1772	Joseph R Fr MD	UPMC	Primary C Pediatric	Kid Way Pediatric	3068 Innaw	Hermita PA	16148	Mercer (724)981-1000	reb@pman67.com	Mer1772	
3206	Luir L Game MD	UPMC	Primary C Family Practi	Luir L Games MD	1012 Water	Meadvil PA	16335	Crauser (814)336-1000	reb@pman67.com	Cra3206	
1481	Rakork Kex MD	UPMC	Primary C Pediatric	Romark K Chappra MD	1224 Seaver	Altaans PA	16602	Blair (814)944-1000	rkch@pman67.com	Blai1481	
4606	Arbunai P J MD	UPMC	Primary C Pediatric	Romark K Chappra MD	1224 Seaver	Altaans PA	16602	Blair (814)944-1000	rkch@pman67.com	Blai4606	
1414	Theresa Ml MD	UPMC	Primary C Pediatric	Wart Hill Pediatric LLO	974 Beaver	Man Ta PA	15108	Allegher (412)264-1000	teresa@llr.com	Alla1414	
1913	Michelo AC MD	UPMC	Primary C Family Practi	ACMH RHC Elderton	Box 148	116 North H	Elderton PA	15736	Armtra (724)354-1000	tru@acmh.com	Arm1913
4727	Shannan EI MD	UPMC	Primary C Family Practi	ACMH RHC Kittanni	260 South	Kittanni PA	15201	Armtra (724)543-1000	tru@acmh.com	Arm4727	
3825	Daina Anta MD	UPMC	Primary C Pediatric	ABC Pediatric Care	3135 Willi	Nou Car PA	16105	Laurence (724)654-1000	vano@acrh.com	Lau3825	
8182	Michael J E MD	UPMC	Primary C Family Practi	Smithfield Medical PC	Suite 200	309 Smith	Pittsburgh PA	15222	Allegher (412)471-1000	vano@acrh.com	Lau8182
3999	Michael Fa MD	UPMC	Primary C Family Practi	Smithfield Medical PC	Suite 200	309 Smith	Pittsburgh PA	15222	Allegher (412)471-1000	vano@acrh.com	Lau3999
1924	Wijayalukh MD	UPMC	Primary C Pediatric	Wijayalukh MD	851 Evans C	Renfroc PA	16053	Butler (724)789-1000	wij@wlv.com	But1924	
1493	Aljandra C MD	UPMC	Primary C Pediatric	University of Pittsburgh Physician	3rd Floor	3420 Fifth	Pittsburgh PA	15213	Allegher (412)692-6000	Alla1493	
2408	Manica G MD	UPMC	Primary C Pediatric	Manica Gerrick MD	Suite 1204	11676 Parr	Westfars PA	15900	Allegher (724)799-1000	Alla2408	
7257	Stacey C MD	UPMC	Primary C Pediatric	University of Pittsburgh Physician	3rd Floor	3420 Fifth	Pittsburgh PA	15213	Allegher (412)692-1000	Alla7257	
2315	Joseph A L DO	UPMC	Primary C Family Practi	Joseph Aloise III DO	926 West 3	Erie PA	16508	Erie (814)866-1000	eric@jalo.com	Erie2315	
3793	Mark L Skal DO	UPMC	Primary C Family Practi	UPMC Community Medicine	Suite 1	11665 Stat	Cannest PA	15716	Crauser (814)392-1000	Van793	
2793	Bruce M Ja MD	UPMC	Primary C Family Practi	UPMC Emergency Medicine Inc	UPMC Hart	100 Fairfil	Senosa PA	16346	Vanong (814)676-1000	Van2793	
3422	M Joseph Bi MD	UPMC	Primary C Pediatric	Childrens Community Pediatric	446 Lincal	Pittbur PA	15202	Allegher (412)761-1000	Diane.turner@upmc.edu	Alla3422	
1959	Rabert Rut MD	UPMC	Primary C Pediatric	Childrens Community Pediatric	205 Miller	Bridgwe PA	15901	Allegher (724)932-1000	Diane.turner@upmc.edu	Alla1959	
3878	Alison A Sh MD	UPMC	Primary C Pediatric	Childrens Community Pediatric	First Floor	1000 Infinit	Manrac PA	15146	Allegher (724)321-1000	Diane.turner@upmc.edu	Alla3878

Sampling

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Platform



The image shows a screenshot of the Qualtrics website. At the top left is the 'qualtrics' logo. The navigation menu includes 'WHAT IS XM?', 'PRODUCT', 'IQ', 'ROLES', and 'CUSTOMERS', followed by a red 'FREE ACCOUNT' button. The main banner features a blue-tinted office scene with the text 'IBM + qualtrics' and the headline 'Qualtrics announces strategic partnership with IBM to transform Employee Experience'. A 'Learn More' button is centered below the headline. At the bottom of the banner area, there is a logo consisting of four colored dots (green, blue, purple, cyan) and the URL 'https://www.qualtrics.com/'. Below the logo is the text 'WELCOME TO THE EXPERIENCE MANAGEMENT PLATFORM™'.

qualtrics

WHAT IS XM? ▾ PRODUCT ▾ IQ ▾ ROLES ▾ CUSTOMERS

FREE ACCOUNT

IBM + qualtrics

Qualtrics announces strategic partnership with IBM to transform Employee Experience

Learn More

 <https://www.qualtrics.com/>

WELCOME TO THE EXPERIENCE MANAGEMENT PLATFORM™

Pilot

- Survey was piloted by physicians
 - Suggested revisions to response scales
 - Specify local vs systemic side effects
 - Avoid debate about school mandated HPV vaccination

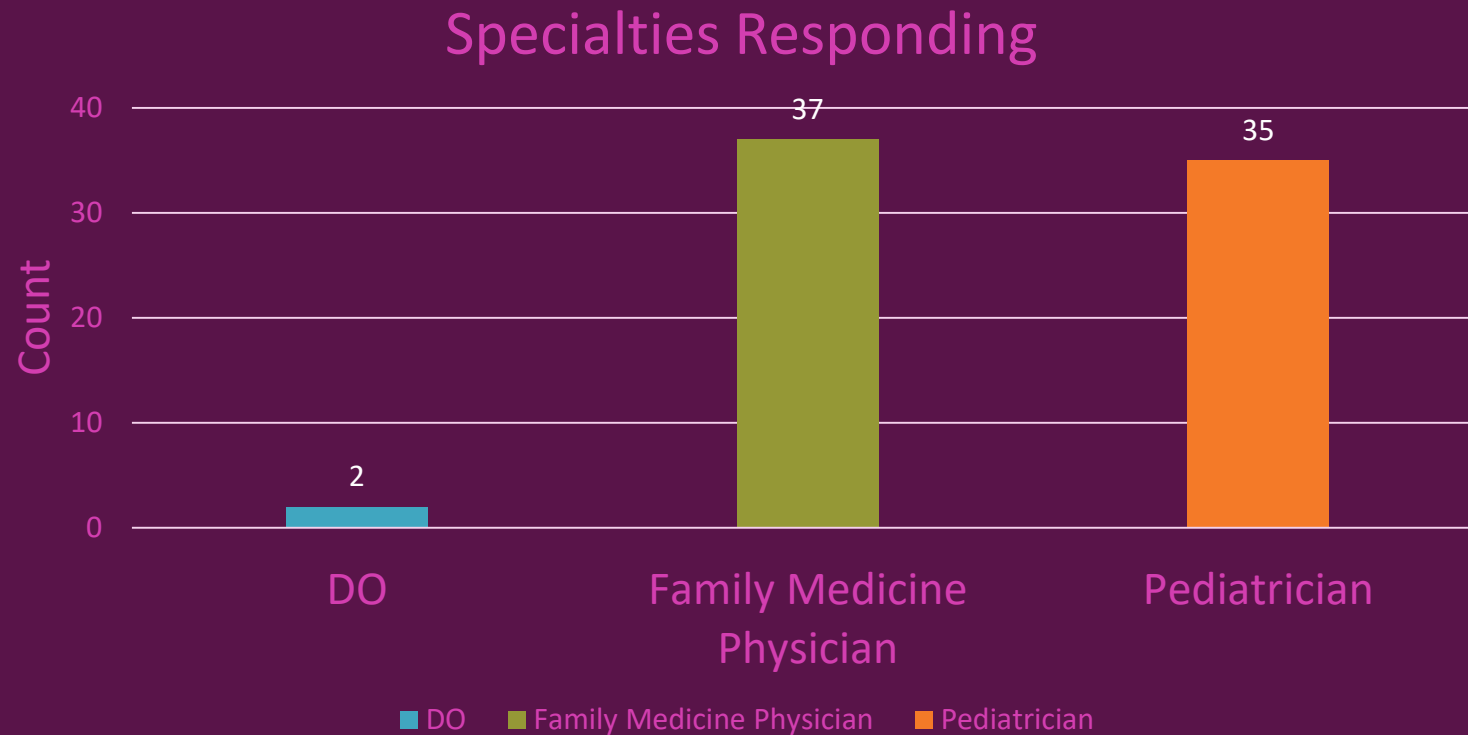


Study Procedure

- Initial invitations and surveys sent electronically
- Subsequent reminders sent as needed
- Reminders emphasize the importance of each physician's response
- Mailings and phone calls utilized where needed

Preliminary Data

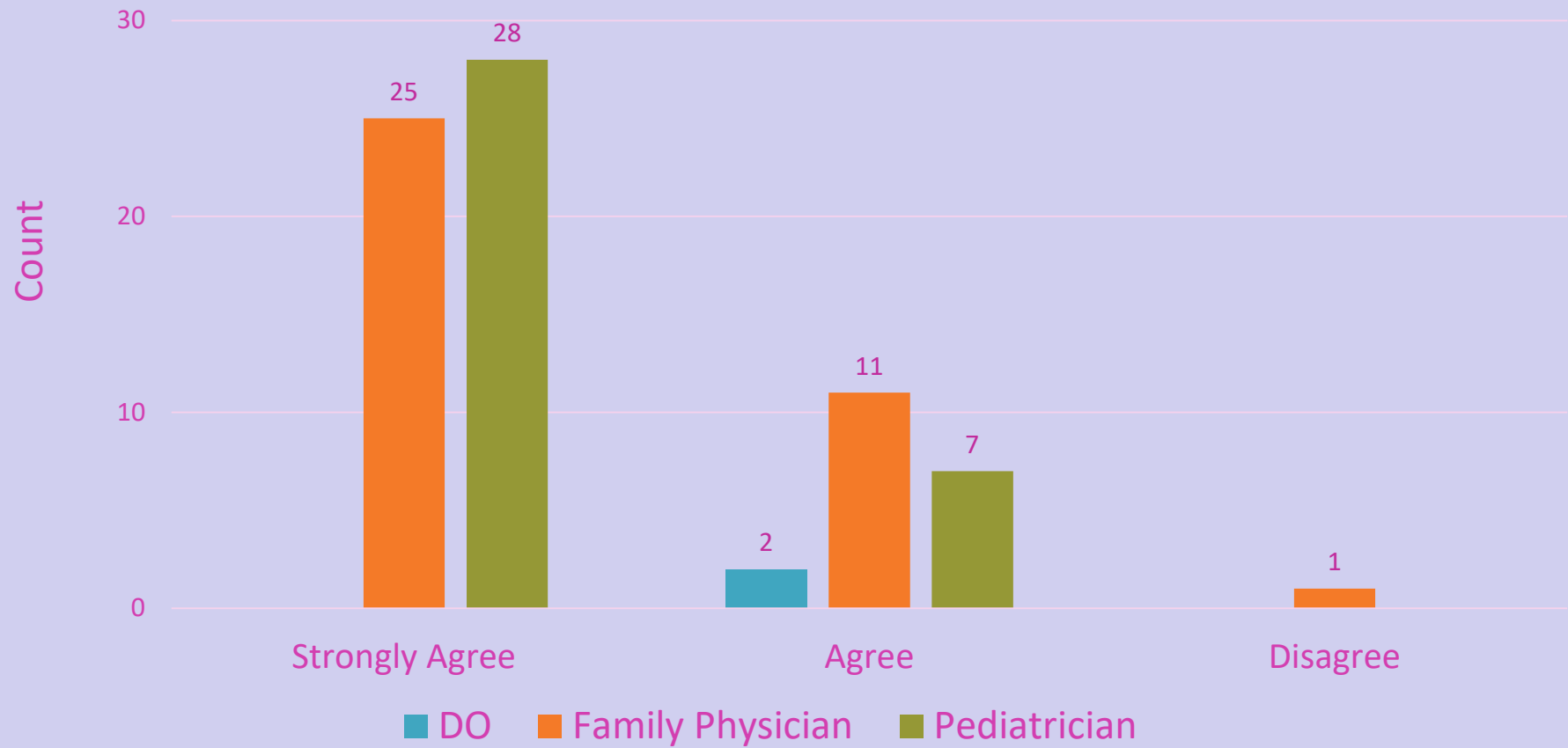
- Who is Responding? (n=74)



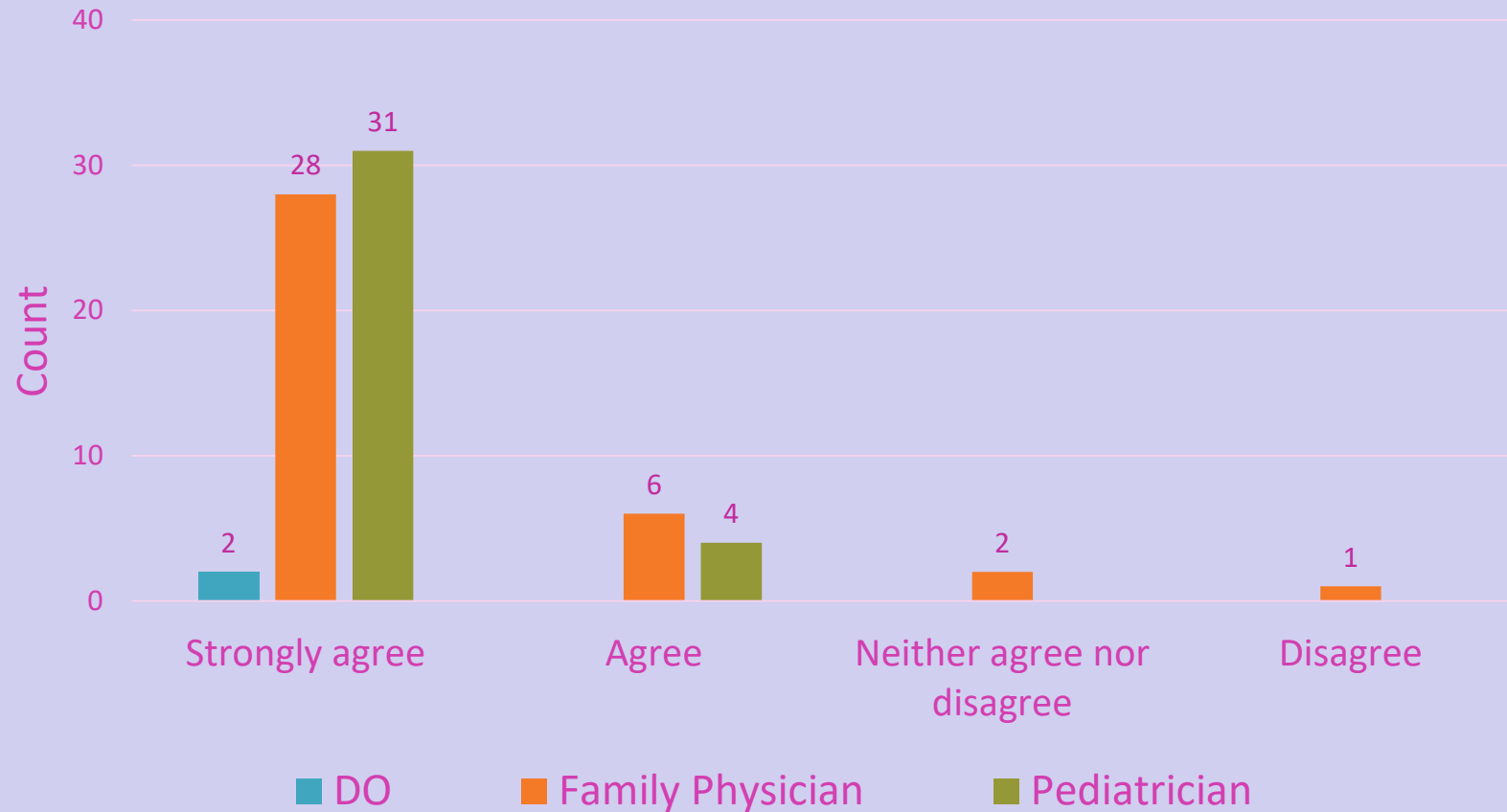
Demographics

- Working Response Rate = 14% (74/529)
- 58% Female
- 84% White, non-Hispanic
- Majority—Age 50 or older

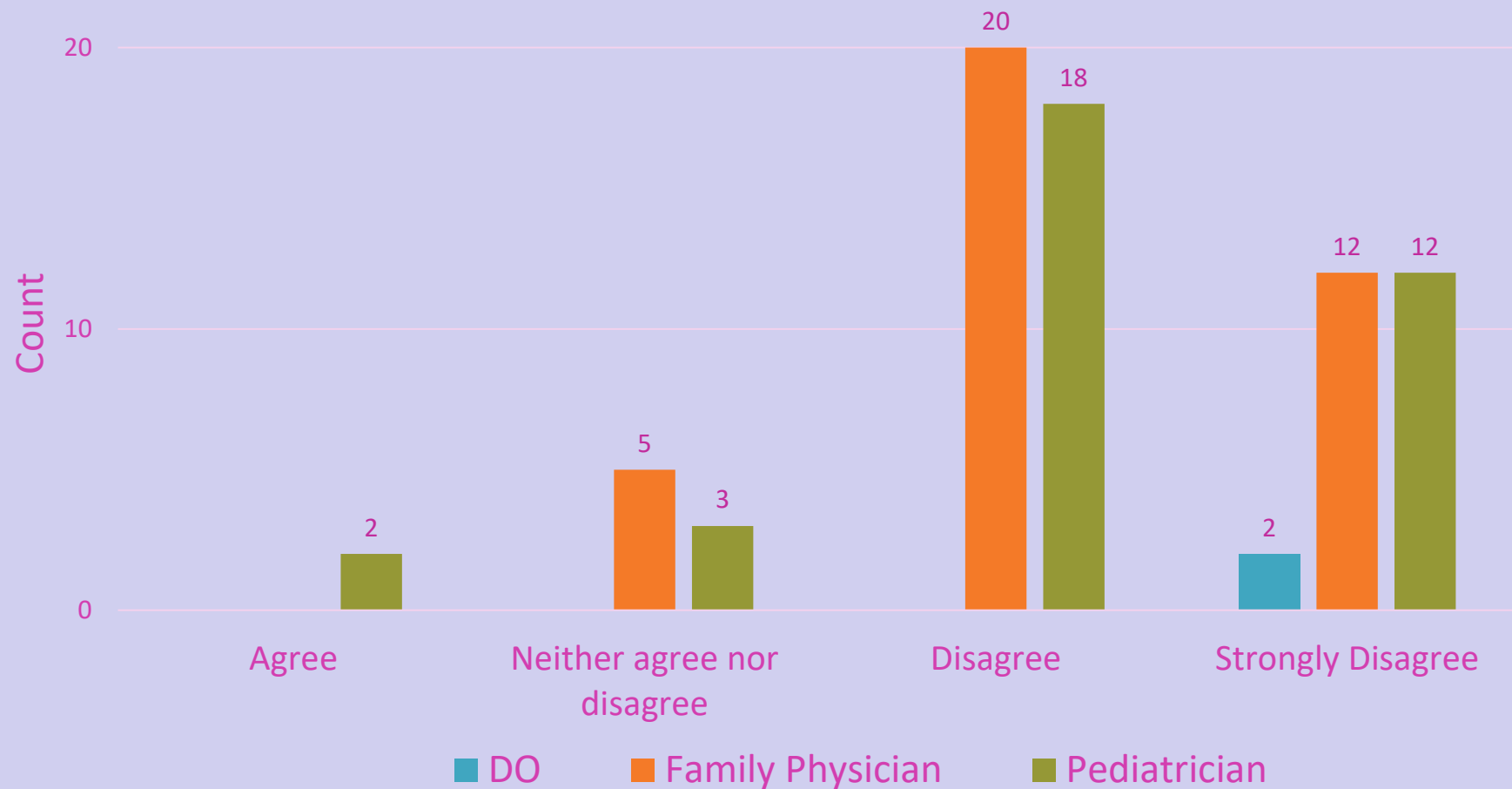
HPV vaccination does not cause serious side effects



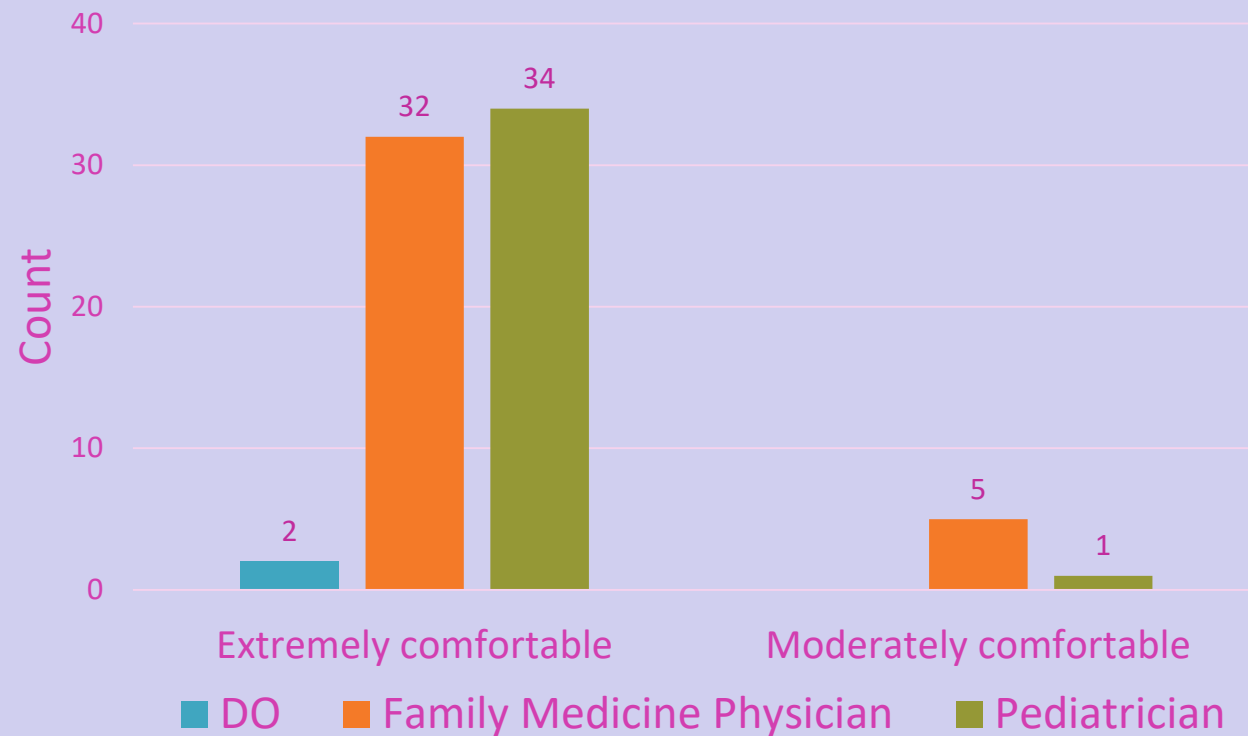
HPV vaccine protects against genital warts in addition to cervical cancer



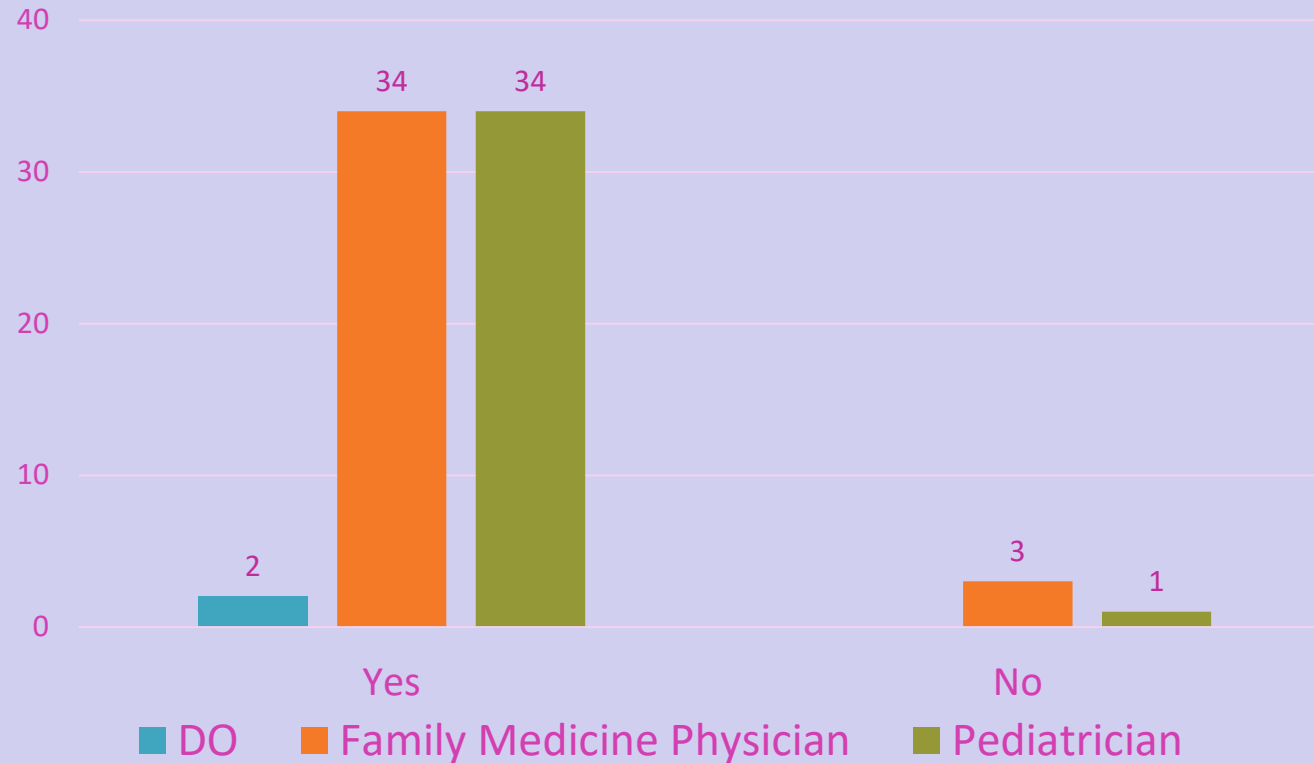
HPV vaccination eliminates the need for pap tests



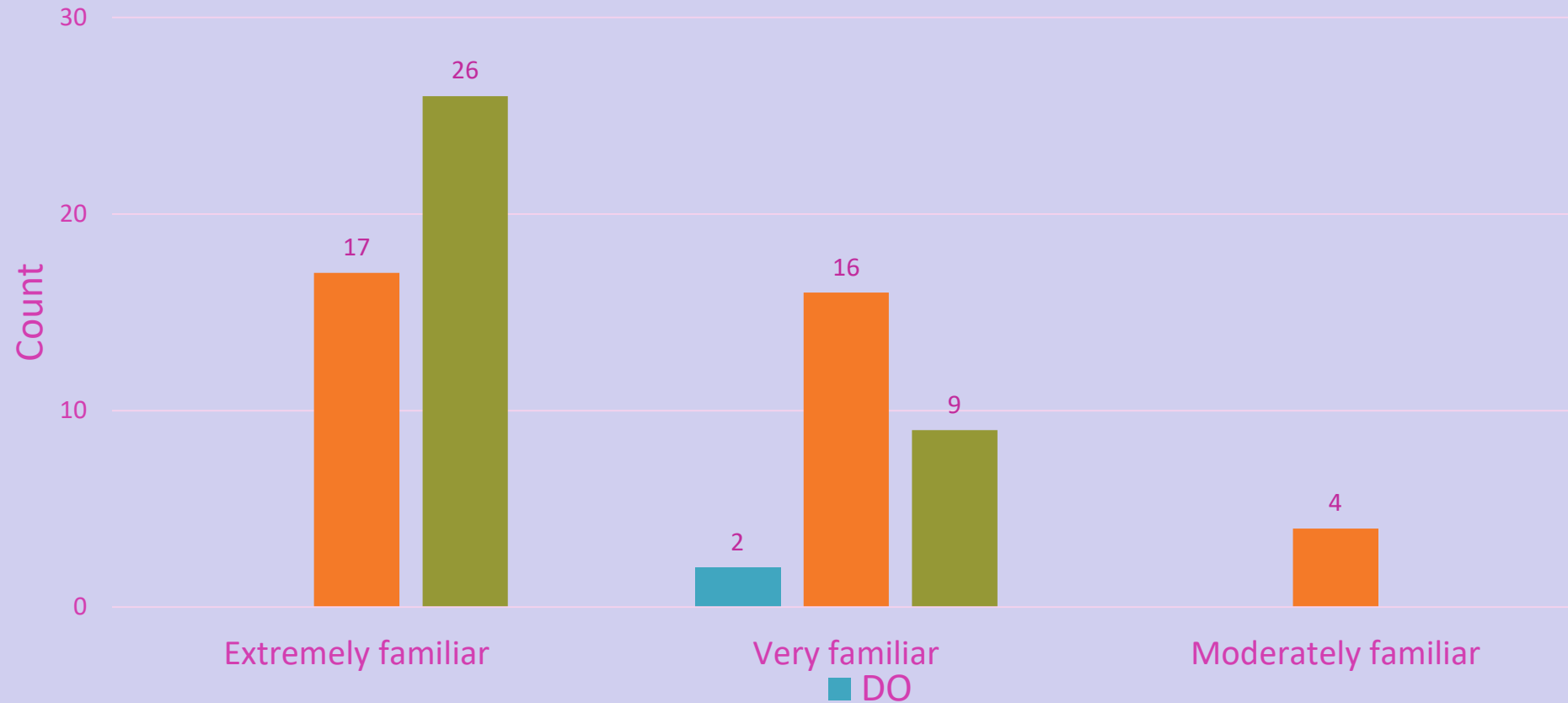
How comfortable or uncomfortable are you discussing the HPV vaccine with patients/parents?



I believe that how I present the HPV vaccine has an influence on patients receiving the vaccination.



How familiar are you with the current HPV administration guidelines?



Preliminary Results

- Opportunities for education on HPV vaccination
- Comfort discussing HPV vaccination with parents, belief that clinicians can influence uptake, and familiarity with guidelines is high in this sample
- Pediatricians (74%/55%) “extremely familiar” with guideline compared to FMP ($p < .05$)

Lessons Learned Along the Way

- “Gatekeeper” cooperation often needed to gain access to physician emails
- “Approximately how many doses of vaccine do you administer each month?”
- Paper surveys preferred by some physicians
- Phone calls ineffective for recruitment

Post- Study Intervention Plans

- Quantitative and qualitative results of survey will be used to develop tailored interventions
- Re-engage HPV Task Force
- Engage with other Immunization Coalitions throughout PA

Collaborators

- University of Utah, Deanna Kepka, PhD, MPH
- UPMC Health Plan
- Participating physicians