

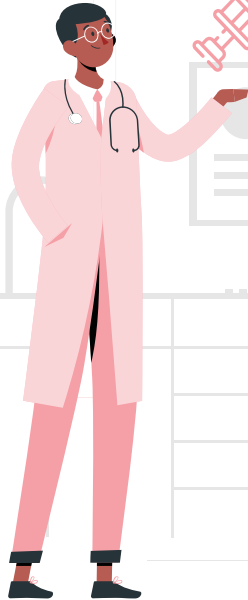
2023

HPV vaccination

Overcoming challenges
in HPV vaccination: A
case study from
Wroclaw, Poland

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#wroclawthemiceplace

<https://www.pot.gov.pl/pl/pcb/news/wroclaw-miasto-spotkan>

Department of Pediatric Infectious Diseases
Wroclaw Medical University ●●●
Wroclaw, Poland





“Wroclaw gets vaccinated”
Vaccines are promoted as a
part of healthy lifestyle in
Wroclaw city. Getting
vaccinated – as part of a
city culture.





The document outlines the local prophylaxis program aimed at **preventing HPV infections** in Wrocław, PL. The program was established under the auspices of the city president and is planned to continue until the establishment of the national HPV vaccination program.

UCHWAŁA NR XLI/1277/09
RADY MIEJSKIEJ WROCŁAWIA
z dnia 19 listopada 2009 r.

w sprawie przyjęcia "Programu profilaktyki zakażeń
wirusem brodawczaka ludzkiego (HPV)"

§ 2

Program obowiązywać będzie od dnia jego uchwalenia do czasu wprowadzenia przez Ministerstwo Zdrowia do kalendarza szczepień obowiązkowych, szczepień ochronnych dziewcząt przeciw wirusowi brodawczaka ludzkiego (HPV).

§ 4

Wykonanie uchwały powierza się Prezydentowi Wrocławia.

§ 5

Uchwała wchodzi w życie z dniem podjęcia.

Wiceprzewodniczący
Rady Miejskiej Wrocławia

Michał Bobowiec

+ 13 years summary

- In 2010 – 2023
 - Number of parents covered with educational meetings: **35 225**
 - Number of children covered with educational classes: **41 160**
 - **Number of girls and boys vaccinated with at least one dose: 26 851**
 - Median vaccine coverage - **72.33%**
 - Summary costs: **9 252 851 zł** (~2 000 000 Euro)

Lets get perspective on
comparable costs...

Property for sale in Europe: what can I
buy for under 2 million euros?

Picture yourself enjoying the best of continental city living with a new property in Europe? We've rounded up some amazing residences in European cities, all available to buy for less than 2 million euros

Whether you're looking to relocate to a new city or invest in an overseas bolthole, we've hand-picked our top European city properties for sale with Knight Frank.

1-4 bedroom apartments in Barcelona, Spain

Prices starting from: €650,000



27 000
People protected from
HPV related cancers

Two major pillars of the program



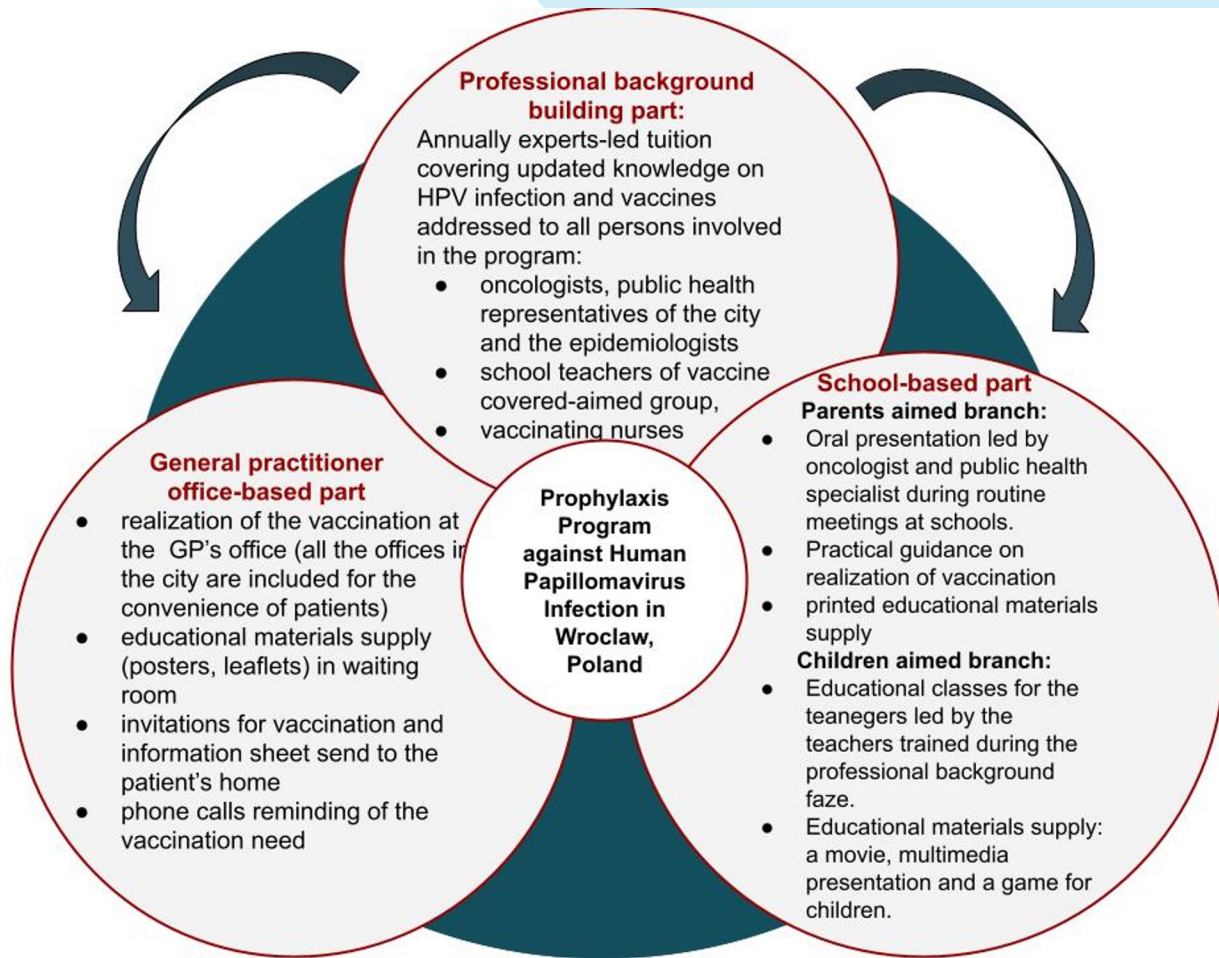
Vaccination against HPV

- Education for all children aged 13 years and their parents
- free vaccines offered since 2010: 13 years old girls and since 2020: 13 years old girls and boys



Cervical screening promotion

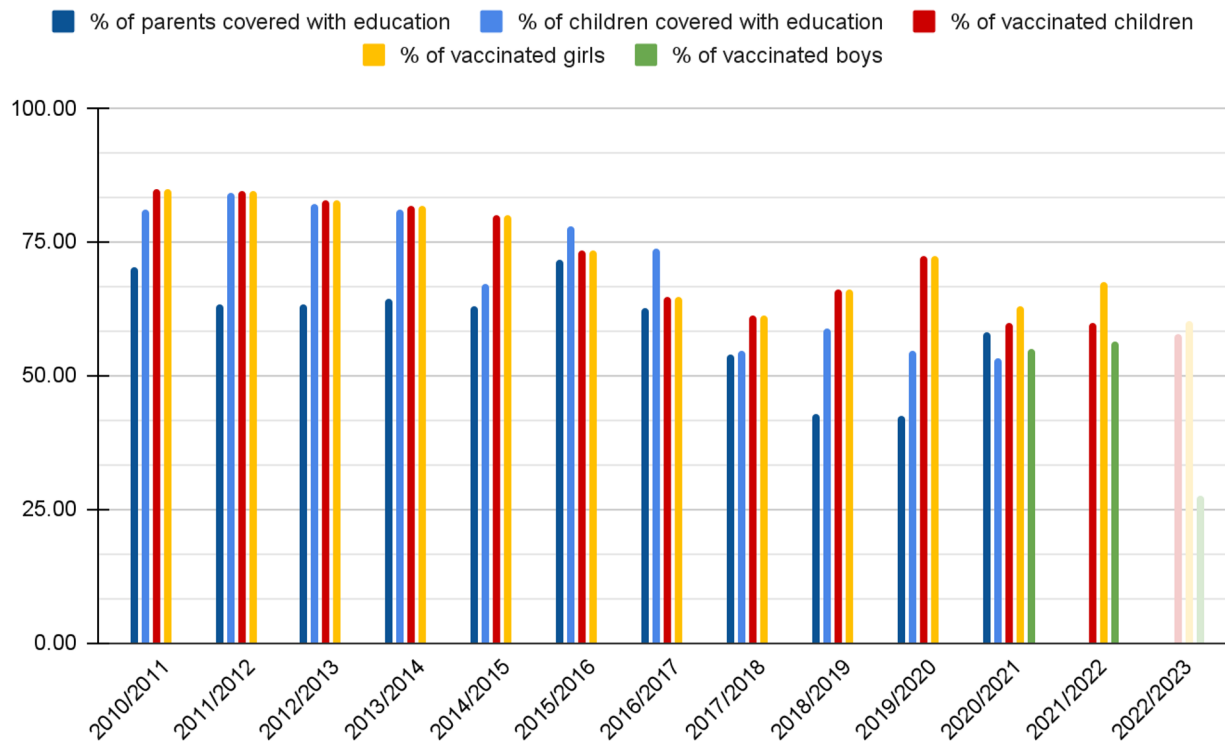
Education and mail invitations for women



How did we do it

The structure of the program

HPV vaccine coverage in years in Wrocław, Poland



**MEDIAN
VACCINE
COVERAGE:
72.33%**

Tabela 8. Liczba szczepień przeciwko HPV wykonanych w latach 2015-2017 w poszczególnych województwach w Polsce, zgodnie z danymi NIZP-PZH

Rok	2017 ²²			2016 ²³			2015 ²⁴		
	Wiek w latach		Razem	Wiek w latach		Razem	Wiek w latach		Razem
Województwo	0-19	20+		0-19	20+		0-19	20+	
dolnośląskie	3 289	100	3 389	3 270	64	3 334	4 474	82	4 556
kujawsko-pomorskie	896	37	933	865	37	902	740	97	837
lubelskie	828	89	917	1 075	122	1 197	1 168	116	1 284
lubuskie	879	19	898	1 014	38	1 052	1 980	72	2 052
łódzkie	616	41	657	1 278	50	1 328	943	56	999
małopolskie	1 390	76	1 466	803	101	904	1 028	101	1 129
mazowieckie	2 112	414	2 526	2 106	361	2 467	2 605	930	3 535
opolskie	721	14	735	790	24	814	970	32	1 002
podkarpackie	167	24	191	200	16	216	425	21	446
podlaskie	248	72	320	290	40	330	242	15	257
pomorskie	1 568	120	1 688	4 289	192	4 481	4 866	110	4 976
śląskie	2 250	77	2 327	2 913	149	3 062	3 906	276	4 182
świętokrzyskie	742	15	757	537	19	556	1 093	50	1 143
warmińsko-mazurskie	502	56	558	508	61	569	562	60	622
wielkopolskie	3 199	85	3 284	2 085	69	2 154	3 129	103	3 232
zachodniopomorskie	554	26	580	687	41	728	2 380	59	2 439
POLSKA	19 961	1 265	21 226	22 710	1 384	24 094	30 511	2 180	32 691

Number of vaccines given in voivodeships in chosen years

Tabela 9. Poziom wyszczepialności w populacji kobiet do 19 r.ż. w Polsce w latach 2015-2017 przeciw HPV, opracowanie własne na podstawie danych NIZP-PZH oraz GUS

Rok	Liczba wykonanych szczepień przeciwko HPV (zgodnie z danymi NIZP-PZH)	Liczebność populacji płci żeńskiej (zgodnie z danymi GUS)	Poziom wyszczepialności
2015	30 511	2 026 109 ²⁵	ok. 1,5%
2016	22 710	2 015 696 ²⁶	ok. 1,1%
2017	19 961	2 026 936 ²⁷	ok. 1,0%

Vaccine coverage among general female population (aged 0-19 years old) in Poland in chosen years

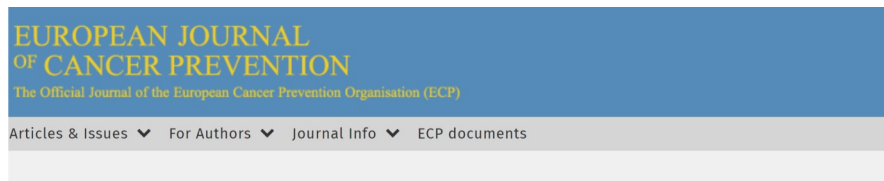
The key to increase vaccine uptake is to build vaccine acceptance in general society

Patients need to feel comfortable with the decision on HPV prevention.





EVIDENCE BASED PATIENT APPROACH



RESEARCH PAPER: GYNECOLOGICAL CANCER

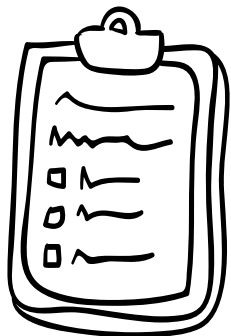
HPV vaccine acceptance and hesitancy – lessons learned during 8 years of regional HPV prophylaxis program in Wroclaw, Poland

Ludwikowska, Kamila M.^a; Biela, Mateusz^{a,b}; Szenborn, Leszek^a

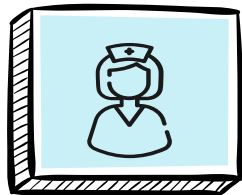
What did we learn from the participants of our Program



Materials and methods

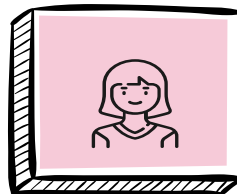


The paper-and-pencil survey In total **1360 volunteers** from Wrocław, Poland.



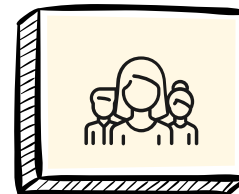
Nurses administering the HPV vaccine:
103 participants

Representing majority of vaccination sites in Wrocław, PL



13-year-old girls:
748 participants

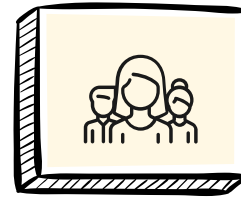
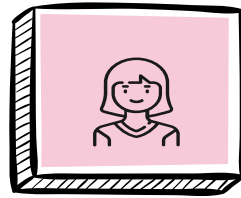
Girls and parents were asked to answer the survey during school classes; parents during parental meetings in 15 randomly selected schools in the city.



Parents of 13-year-old girls:
509 participants



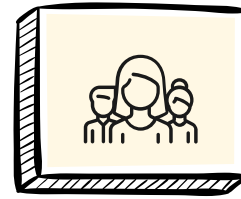
Results



- 73.9% of girls and 90% of parents assessed the Prophylaxy Program in Wrocław as important for cervix cancer prophylaxis and only 3.2% girls and 1.6% parents had the opposite opinion; remainders in both groups didn't have an opinion on that matter.
- 39.9% of parents declared that the educational classes at school influenced positively their decision on immunization for their daughters; 46.6% decided positively on vaccination and participation at the classes didn't influence that and 7.9% declared disagreement for HPV vaccination despite participation at the educational meetings.



Results

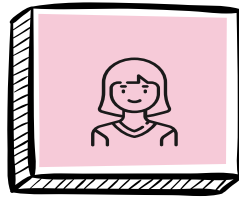


- 86.8% of parents agreed for HPV vaccination for daughter. 2.4% didn't respond that question.
- 10.8% of parents refused to get their daughters vaccinated justifying their decision by:
 - efficiency doubts (56.4%)
 - Fear of possible adverse reactions (41.8%)
 - 3.6% didn't consider their child as a risk group for HPV infection.
 - 25.5% of vaccine refuters gave individual answers including health contraindications for vaccination or didn't ground their decision.

If the vaccine was not refunded in Wrocław, 50,5% parents would get their daughters vaccinated, 23,8% didn't know whether they would buy a vaccine and 23,2% wouldn't (2,6% didn't answer).



Results

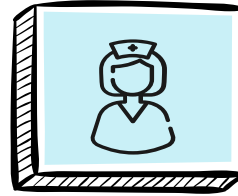


We examined girls' point of view on the reasons for them not being vaccinated.

- 15.0% of not vaccinated (3.1% of all girls-respondents) didn't fulfill the criteria of the Prophylaxy Program;
- 13.7% of not vaccinated (2.8% of all) had organizational problems (like missing the visit at GP);
- 13.1% of not vaccinated (2.7% of all) didn't know the reason;
- 11.8% of not vaccinated (2.4% of all) pointed lack of parental consent and
- 12.4% of not vaccinated (2.5% of all) declared aversion to vaccination due to distrust of vaccine effectiveness, safety and due to belief in varied myths like post-vaccine autism etc.



Results



Personal attitude towards the program:

- 71.8% of nurses actively supported the program
 - 19.4% had a neutral attitude towards it
 - 3.9% is not convenient whether the program is needed and
 - 1.9% had a negative attitude to the program and participated in it only because of a duty.
- Remaining nurses didn't evaluate their attitude to the program.

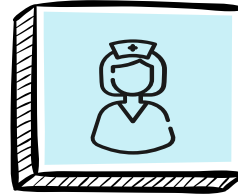
Evaluation of yearly trainings on HPV vaccination for the nurses:

- 94.5% of nurses assessed them as important.
- 1.0% said that the trainings were unnecessary and
- 1.0% that they are propaganda.
- Remaining group didn't evaluate the trainings.





Results



- 15% believed that their recommendation does impact parental decision on vaccination
- 15% believed that their recommendation does not matter for the parents in decision-making at all
- 70% believed that their recommendation might have limited impact on parental decision-making



Emotions during vaccine administration

7.1% of nurses admitted that they feel uncertain and fearful themselves during HPV vaccine administration to the patient.



What impacts HPV vaccine acceptance

Availability and feasibility

School-based vs GP vs vaccination centers
! coadministration with other vaccines

1



2



3



4



5



Free of charge

□ In Wroclaw only 50% of parents declared that they would get their child vaccinated if it was not refunded.

Universal messaging

□ Inform whole medical team about their impact on patients' decisions on vaccination.
Train the whole team, including nurses, medical registrars, assistants etc.

Education

"Two Dimensional" targeted at children and their parents

Adjusted and focused on the recipient (know your population)

Doctor's recommendation

Physician as most trusted source of knowledge on HPV vaccination
can not be hesitant

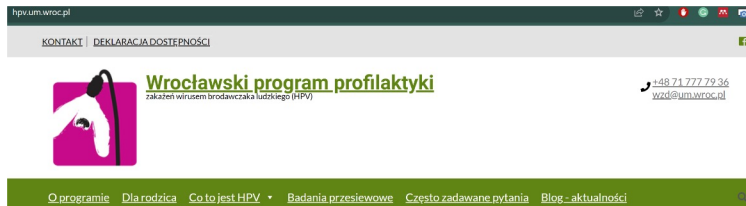


Focus on most common reasons for vaccination refusal

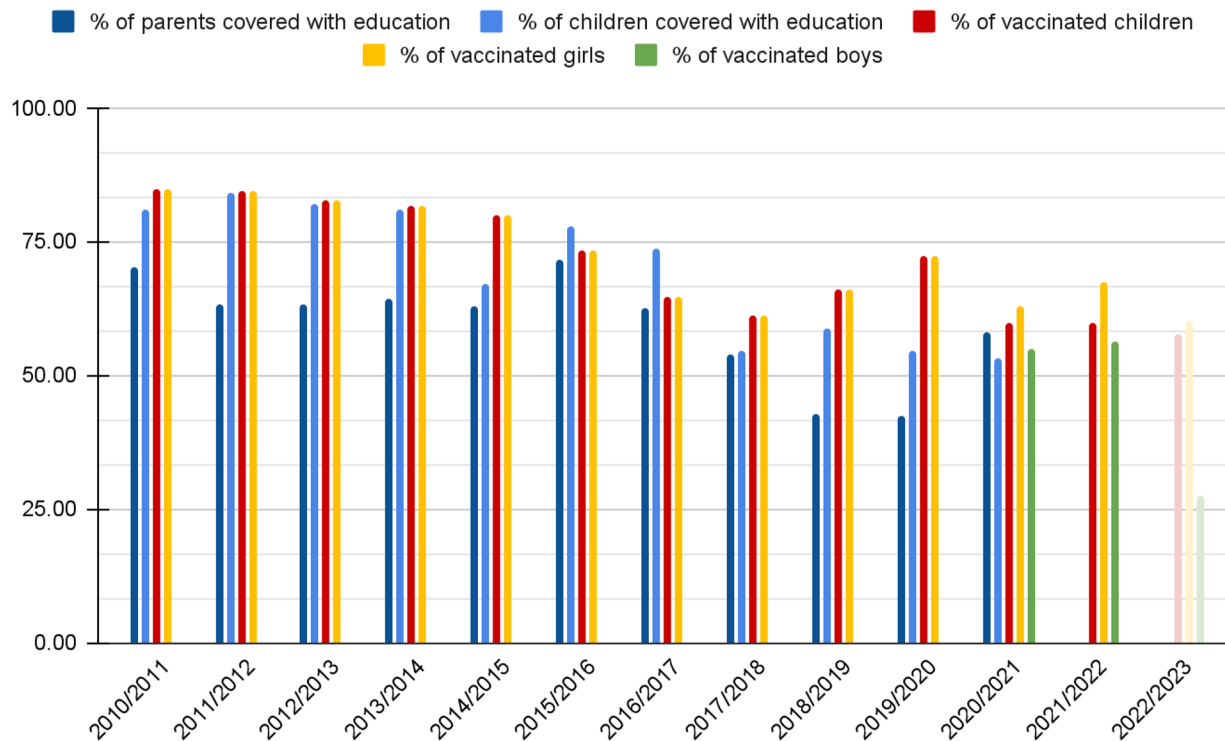
Choose the most important messaging content

- ↑ highlighting vaccine effectiveness
- ↑ highlighting safety profile. Use local safety data to support message: over 10 years nearly 40 000 vaccine doses administered and > 16 000 vaccinated children and only 8 adverse events reported (fainting and hyperventilation related symptoms, allergic reaction, none of that requiring hospitalization)
- ↑ comfort with safety profile: dissemination of information about possibility of 24h/7 days emergency consultations in Pediatric Infectious Diseases Clinic in Wrocław in case of adverse reaction
- Target nurses! Increase their self-awareness in the relation with the patients. Underline their impact on patients' decision. Address their hesitancy and fear. Motivational style of yearly trainings for nurses.
- Provide updated user-friendly trusted online source of knowledge with FAQ section

Actions taken to increase vaccine acceptance



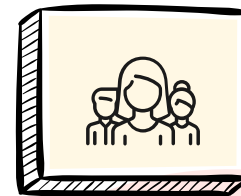
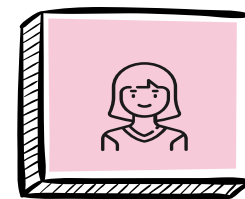
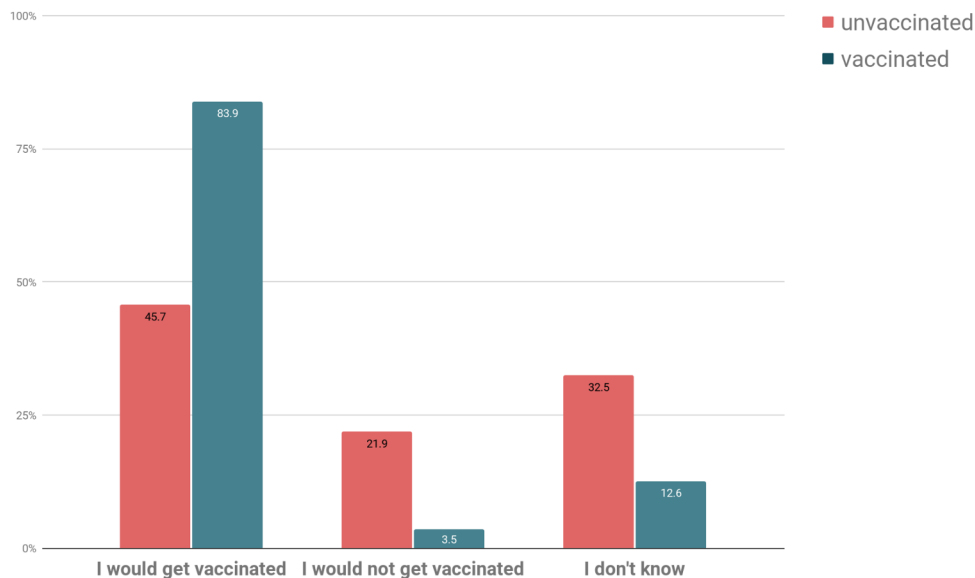
HPV vaccine coverage in years in Wrocław, Poland



**MEDIAN
VACCINE
COVERAGE:
72.33%**

Results providing insight into the future

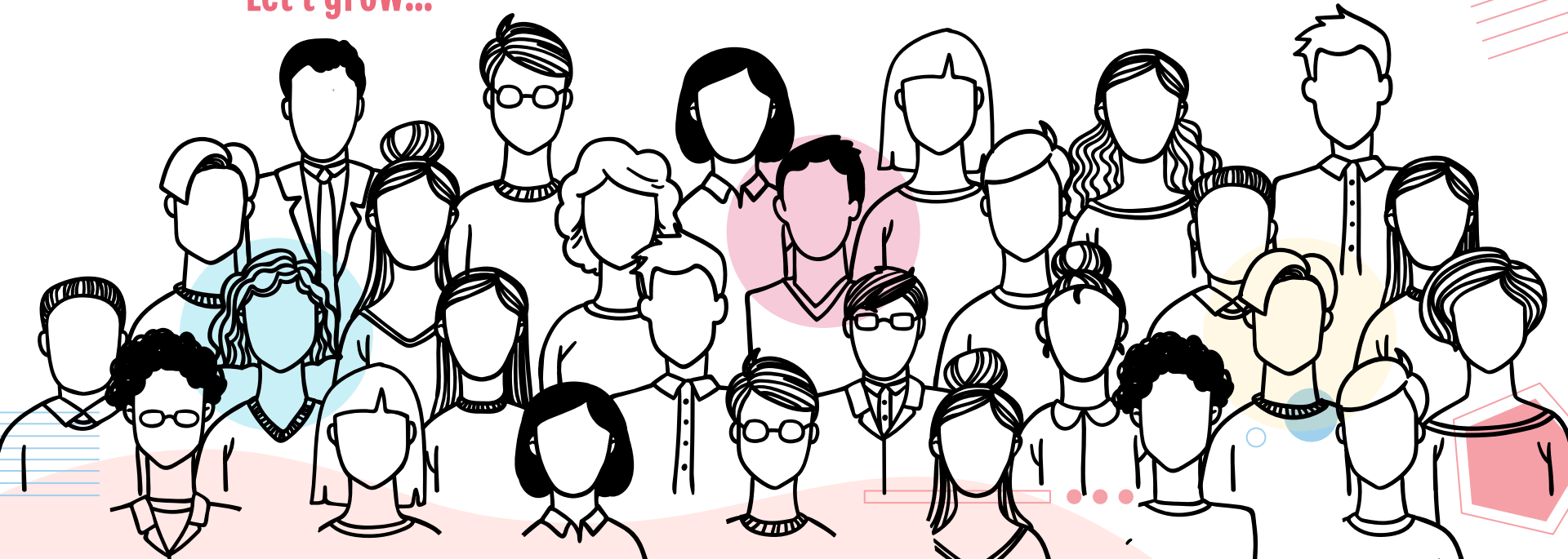
if that was your choice only...



Recipe for success from Wroclaw:

- Gather a group of engaged people with clear vision and mission
- Find multidisciplinary trusted experts to supervise and educate
- Add perseverance
- Flavour with creativity

Mix it with scientific approach
Let it grow...

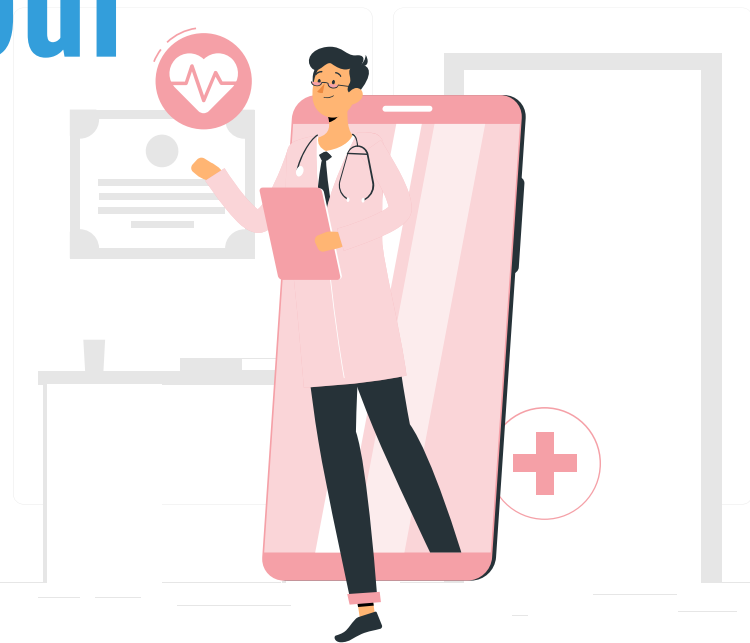


Thank you for your attention

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Aknowledgments

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The individuals who demonstrated the utmost dedication in initiating and maintaining the program are as follows:

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