

HPV vaccine: a critical component in a comprehensive cervical cancer prevention program

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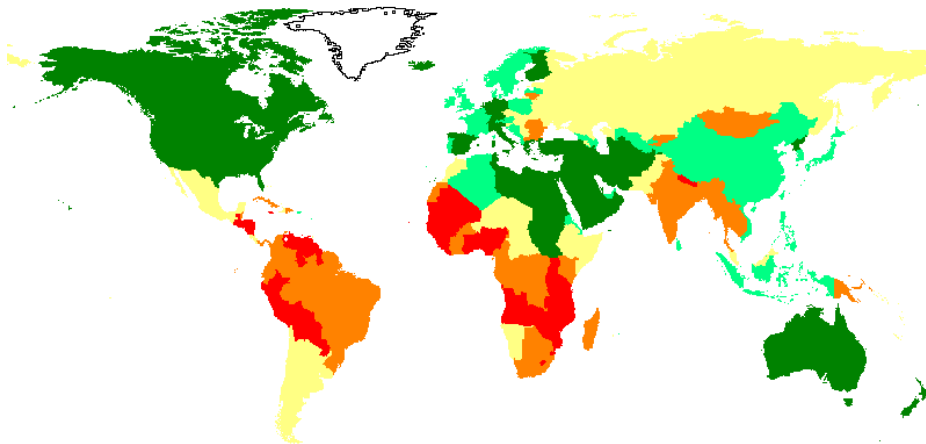


Background on cervical cancer

Incidence highest in low and middle income countries

International Agency for Research on Cancer
Organization

Estimated age-standardised incidence rate per 100,000
Cervix uteri, all ages



■ < 7.0 ■ < 12.9 ■ < 20.3 ■ < 29.8 ■ < 56.3

GLOBOCAN 2008 (IARC) - 21.8.2010

*Globocan, 2008

- Estimated to increase from 529,828 cases in 2008 to 776,032 in 2030*
- Failure of cytology screening to have impact in low- or middle-income countries
- New prevention opportunity in form of vaccines against primary causal agent—human papillomavirus (HPV)



Two vaccines available

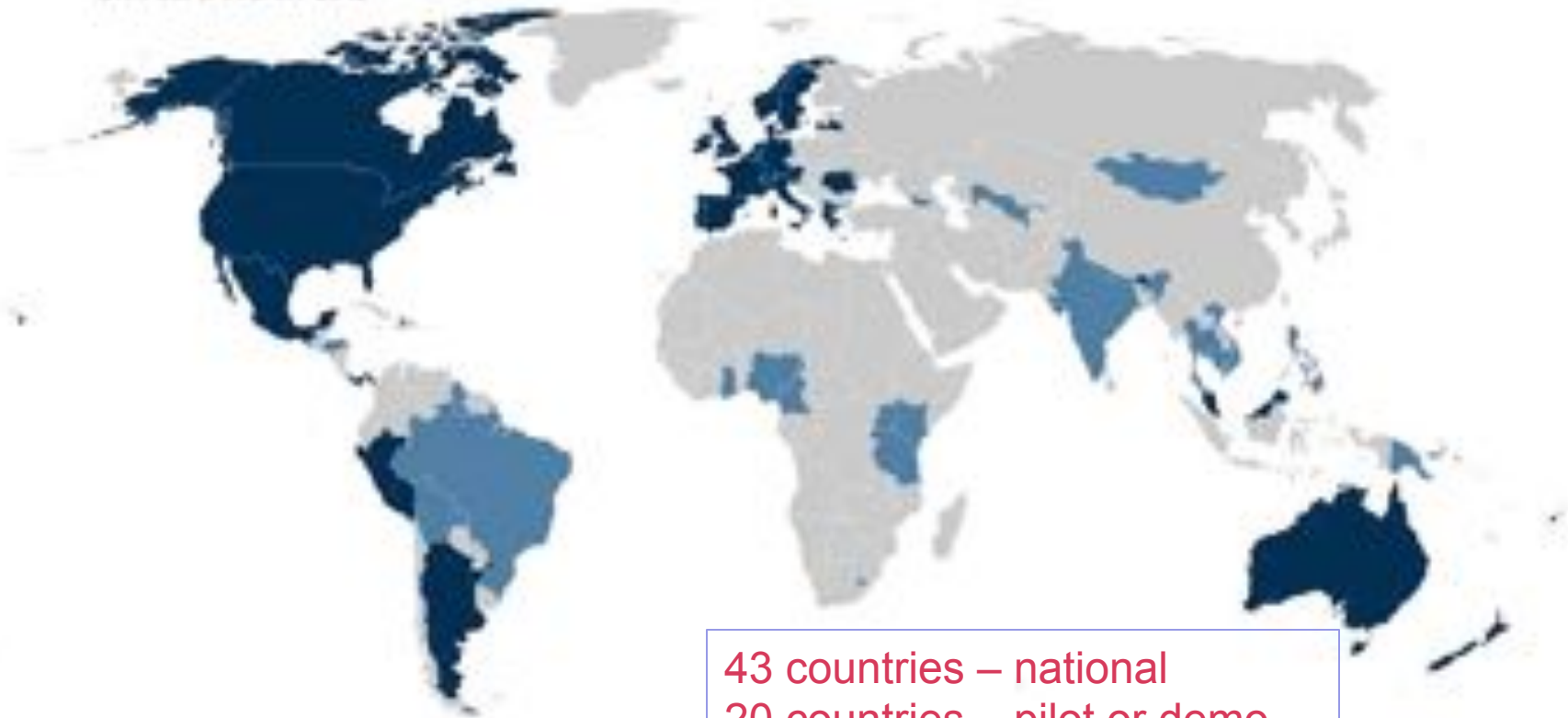
- Both highly effective against HPV types 16 and 18—responsible for **~70%** of cervical cancer*
- Both very safe—**no deaths**, rare serious adverse events (for women with other risk factors)
- Both registered in >120 countries
- Both pre-qualified by WHO (i.e. safe and effective for UN purchase)
- Recommended by WHO for girls aged 9-13

*One also protects against non-oncogenic types, HPV 6 and 11



National and pilot introductions

3.1 INTRODUCTION OF HPV VACCINE STATUS: JANUARY 2012



43 countries – national
20 countries – pilot or demo

- NATIONAL PROGRAM: HPV VACCINE IN NATIONAL NORMS AND AVAILABLE ON A LIMITED OR UNIVERSAL BASIS THROUGH THE PUBLIC SECTOR
- PILOT PROGRAM: HPV VACCINE AVAILABLE THROUGH PILOT OR DEMONSTRATION PROJECTS ORGANIZED BY THE MINISTRY OF HEALTH OR NGO PARTNERS
- NO HPV VACCINE PROGRAM

The information represented here has been collected through interviews with individuals and organizations involved with the countries represented and has not been verified with individual Ministries of Health. Any oversights or inaccuracies are unintentional.

PATH HPV Vaccine Demonstration Projects



Vaccine delivery strategies

- Schools

All countries



- Community health centers

Vietnam, Peru, India (out-of-school girls)



- Outreach programs

Uganda

Over 66,000 girls eligible



Overall, coverage was high – both initial acceptance and completion

Coverage survey data, school-based delivery

	India (Yr1)	Peru (Yr1)	Uganda (Yr2)	Vietnam (Yr2)
At least 1 dose	82%	84%	96%	97%
All 3 doses	79%	82%	89%	96%
Completion 1 → 3	97%	98%	93%	99%

- Little difference in coverage between strategies: greater variance in terms of cost per vaccinated child
- Strong community mobilization efforts; careful training of health workers



Communication materials developed

- Manuals
- Leaflets
- Posters
- Fact book
- Radio spots
- Banners



Lessons learned: Factors for success

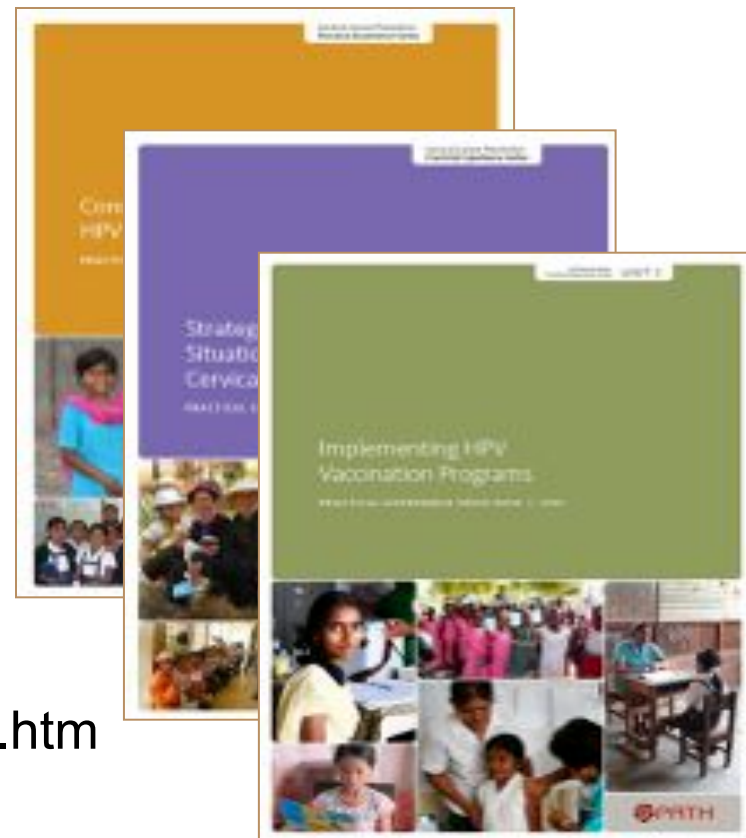
1. Secure visible government endorsement / participation.
2. Provide training for health workers, teachers, and others involved in program.
3. Engage communities through sensitization and mobilization, with strategic use of media.
4. Use pulsed schedules to facilitate community awareness and ease health worker burden.
5. Build educational messages on positive attitudes towards vaccines, prevention of cancer.
6. Have crisis communication plan in place.
7. Tailor delivery strategy. Schools can reach majority of eligible girls, with mop-up for those not in school (or absent on vaccination day).



Practical Experience Series from PATH

- Lessons learned and resources for decision-making and vaccination program planning.

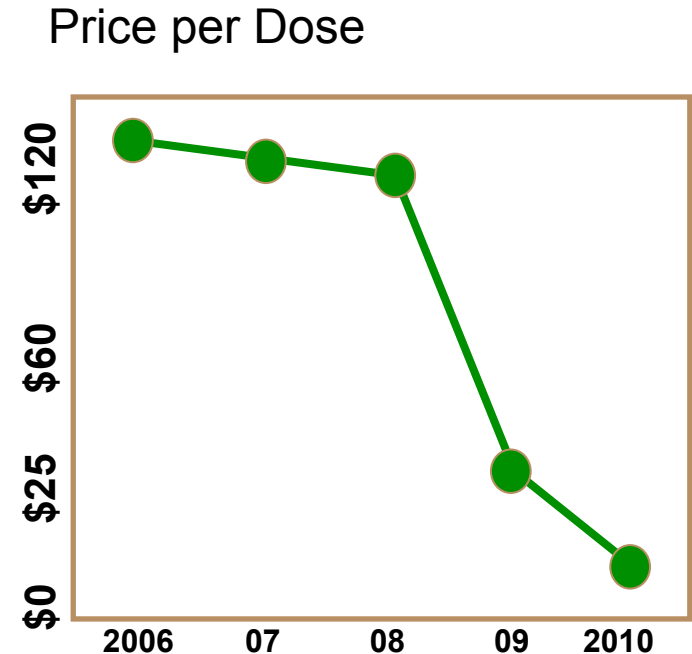
- Planning
- Formative research
- Vaccine implementation
- Evaluation
- Screening



www.rho.org/HPV-practical-experience.htm

Vaccine financing

- Low income countries
 - GAVI approved, 2011
 - Contingent on final price negotiated (<\$5/dose) and country ability to deliver successfully
- Middle income
 - Price drop (~\$15-30/dose)
 - PAHO Revolving Fund (~\$13/dose)



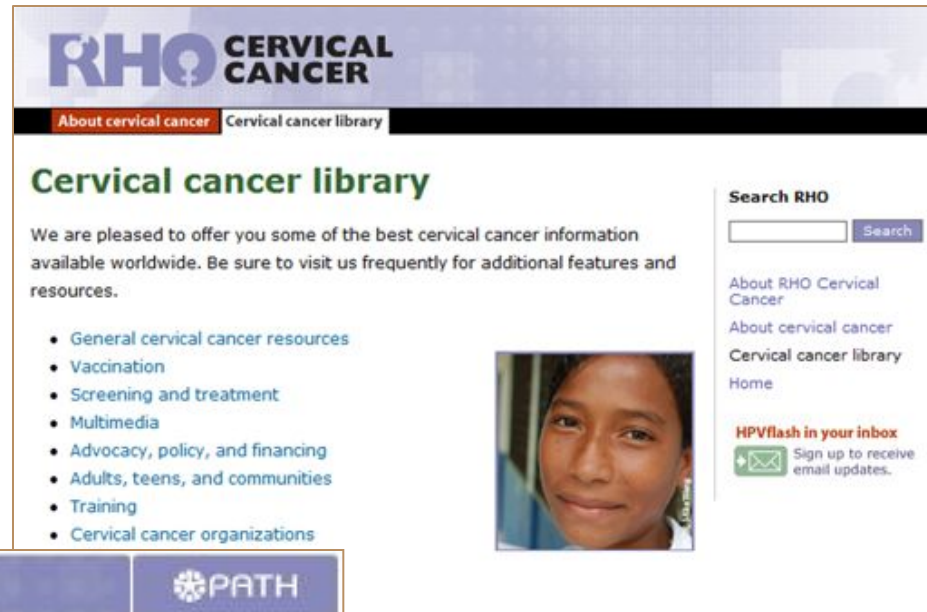
GAVI opportunity

- 57 countries eligible for GAVI assistance
- 2 HPV vaccine pathways approved
 - National introduction
 - Demonstration project
- Demonstration project has 3 objectives
 1. Learn by doing, on small scale first
 2. Explore opportunities for integrating with other adolescent interventions
 3. Strengthen or develop comprehensive national cervical cancer control strategy



Many resources now available

- Online library at www.rho.org
- Action planner



WHO tools for cervical cancer prevention and control



Why a comprehensive prevention approach?

- Vaccine not 100% effective – still need screening
- Issue of generational equity – many women already infected, won't benefit from vaccine
- In long run, vaccine will ease burden on screening as there are fewer positives needing treatment
- Synergies in raising awareness about cervical cancer prevention – both screening and vaccine >> demand
- Engages broader range of stakeholders
- Allows countries to start from where they are and build accordingly



Conclusions

- Immunization is trusted, familiar, and less likely than other services to have inequities in coverage.
- Many synergies for combining screening and HPV vaccination, although timetables for introduction and scale-up may differ.
- Options for affordable screening and HPV vaccine now exist.
- In the long term, a comprehensive approach offers the biggest payoff.



Thank you



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