

Braiding Together Evidence, Equity & Advocacy for Cervical Cancer Prevention

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UW Medicine

LONDON
SCHOOL of
HYGIENE
& TROPICAL
MEDICINE



32 years seeing patients: Prof in Ob/Gyn with ID Training
Researcher, published >80 papers, wrote chapters, etc
15 years as a WHO consultant: HPV Vaccine and Cx Ca Guidelines

Perspectives

Liberia

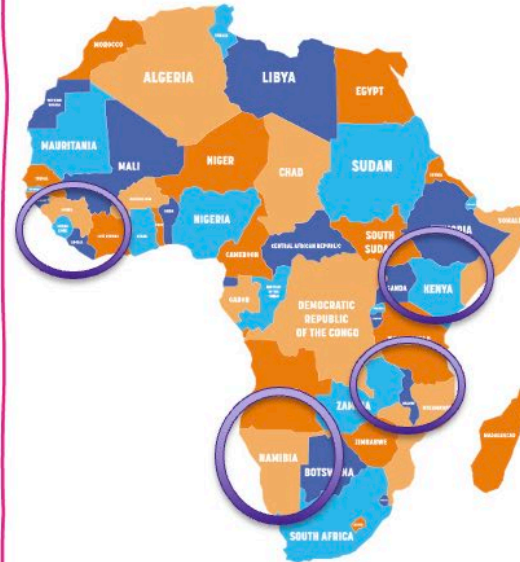
Nicaragua



Brownsville,
Texas



Map of Africa



Kenya
Malawi
Namibia

Seattle



WHO AM I?

- Everywhere I have seen women with advanced cervical cancer
- Finally – in 2018, I reached point of “Enough” – seen enough. And we have enough.
- Wrote book published in January: using the power of story
 - Survivor’s stories from 6 continents
 - Everyday language to talk about this preventable cancer
 - Tackles stigma, patriarchy, equity, supply economics, etc.

Dr. Linda Eckert

ENOUGH


'a searing
call to arms'

Nicholas Kristof,
New York Times
columnist

BECAUSE WE CAN STOP
CERVICAL CANCER



PARTNER WITH ADVOCATES

- Combining Data with Stories and Advocacy  IMPACT
- All of us have a story, and all of us can be advocates
- We just need to be open to the circles where we already are!
- And, we just never know what will happen!!
- You are having a great day of updates today- which is awesome- and also grounding your super-powers: collaboration and community!
- Challenge us all to think of where our advocacy can go

WHERE TO GO: ROAD TO ADVOCACY

Advocacy via Community can lead to policy change

- USA: Act Up, HIV/AIDs advocacy in 1980's
 - FDA changed clinical trial policy
 - trial HIV drug pricing changed
- Ireland: Story of Savita Halappanavar's death in 2012
 - Led to step wise changes in policy
 - Constitutional Amendment for change in Reproductive Health Policy in 2018

<https://www.history.com/news/act-up-aids-patient-rights>

<https://www.usnews.com/news/best-countries/articles/2022-06-27/the-story-behind-irelands-abortion-ban-and-its-reversal>

STORY TO COMBAT INTANGIBLES

Again- as you think about the technical information you will be hearing –Hold onto the ideas of combining story with technical information to combat

Stigma

Access challenges

Inequity

Language

Knowledge

And that lessening cancer deaths is an intergenerational gift!

CERVICAL CANCER: INTERGENERATIONAL IMPACT

nature medicine



Article

<https://doi.org/10.1038/s41591-022-02109-2>

Global and regional estimates of orphans attributed to maternal cancer mortality in 2020

Received: 3 October 2022

Accepted: 25 October 2022

Published online: 20 November 2022

Florence Guida^{1,11}✉, Rachel Kidman², Jacques Ferlay¹, Joachim Schüz¹, Isabelle Soerjomataram¹, Benda Kithaka³, Ophira Ginsburg⁴, Raymond B. Mailhot Vega⁵, Moses Galukande⁶, Groesbeck Parham⁷, Salvatore Vaccarella¹, Karen Canfell⁸, Andre M. Ilbawi⁹, Benjamin O. Anderson⁹, Freddie Bray¹, Isabel dos-Santos-Silva¹⁰ & Valerie McCormack^{1,12}✉

- Utilizing cancer mortality and fertility data, estimated number of orphans from cancer
- In 2020: 1,047,000 orphans from maternal cancer
 - 20% (n=210,000) from cervical cancer
 - 25% (n=258,000) from breast cancer
- 27 yo colleague's story— now parenting 6

Without the mother: 1-3

- Increased anxiety & depression
- Marry younger
- Less likely to complete education
- Get less health care
- Generational poverty

1. Ellis J, Dowrick C, Lloyd-Williams M. *J R Soc Med*. 2013 Feb; 106(2): 57-67. doi: 10.1177/0141076812472623
2. Sundstrom K, Bencina G, Andersson M, Salomonsson S, Fang F, Wang J. *Annals of Oncology*. Vol 34, S2, S539, October 2023. DOI: <https://doi.org/10.1016/j.annonc.2023.09.1988>
3. Singhrao R, Huchko M, Yamey G. *PLoS Med*, 2013 Aug; 10(8): e1001499. doi: 10.1371/journal.pmed.1001499

CERVICAL CANCER: INTERGENERATIONAL IMPACT

JAMA Oncology | **Brief Report**

Maternally Orphaned Children and Intergenerational Concerns Associated With Breast Cancer Deaths Among Women in Sub-Saharan Africa

Moses Galukande, MD; Joachim Schüz, PhD; Benjamin O. Anderson, MD; Annelie Zietsman, MD; Charles Adisa, MD; Angelica Anele, MD; Groesbeck Parham, MD; Leeya F. Pinder, MD; Songiso Mutumba, MD; Dorothy Lombe, MD; Anna Cabanes, PhD; Milena Foerster, PhD; Isabel dos-Santos-Silva, PhD; Valerie McCormack, PhD

For every 100 deaths of the women at any age, there were 121 maternal orphans

Original Article **Cancer**

Estimating Child Mortality Associated With Maternal Mortality From Breast and Cervical Cancer

Raymond B. Mailhot Vega, MD, MPH^{1,2}; Onyinye D. Balogun, MD³; Omar F. Ishaq, MD¹; Freddie Bray, MD⁴; Ophira Ginsburg, MD⁵; and Silvia C. Formenti, MD³


For every 100 women who die from breast or cervical cancer, from 14 to 30 children would die as a result

IT'S COST EFFECTIVENESS

➤ OXFAM estimates:

- women's contributions to families, communities, and countries measure well above 10.8 trillion USD,
- more than three times the size of the global tech industry.¹

➤ WHO health economy team²:

- For lower income countries:
- Each dollar spent on screening through 2050:  \$3.20 to the economy based on work force earnings
- Add in unpaid labor: \$26 dollars returned to economy for each dollar spent.

26:1 return!!!

¹<https://www.oxfam.org/en/not-all-gaps-are-created-equal-true-value-care-work#:~:text=They%20carry%20out%2012.5%20billion,of%20the%20global%20tech%20industry>. Accessed 10 Dec, 2023

²WHO: Global Strategy to Accelerate the Elimination of Cervical Cancer as a Public Health Problem. WHO, 17 Nov 2020. Global Strategy.

CERVICAL CANCER: PREVENTABLE

- We already have the “Moonshot” for this cancer
- It’s preventable:
 - We know what causes it,
 - how to find it,
 - how to treat it
 - even have a vaccine
- YET DEADLY
 - Globally – kills a woman every 90 seconds
 - In US kills once every two hours
 - In UK kills once every 12 hours (3200 cases/year)
 - 662,000 global cases in 2022¹
 - projected to reach 855,000 cases by 2040²

***It’s not just about
the science.
Cervical Cancer
is a case study in
global public
health***

¹<https://gco.iarc.who.int/media/globocan/factsheets/cancers/23-cervix-uteri-fact-sheet.pdf>. Accessed 26 Feb, 2024

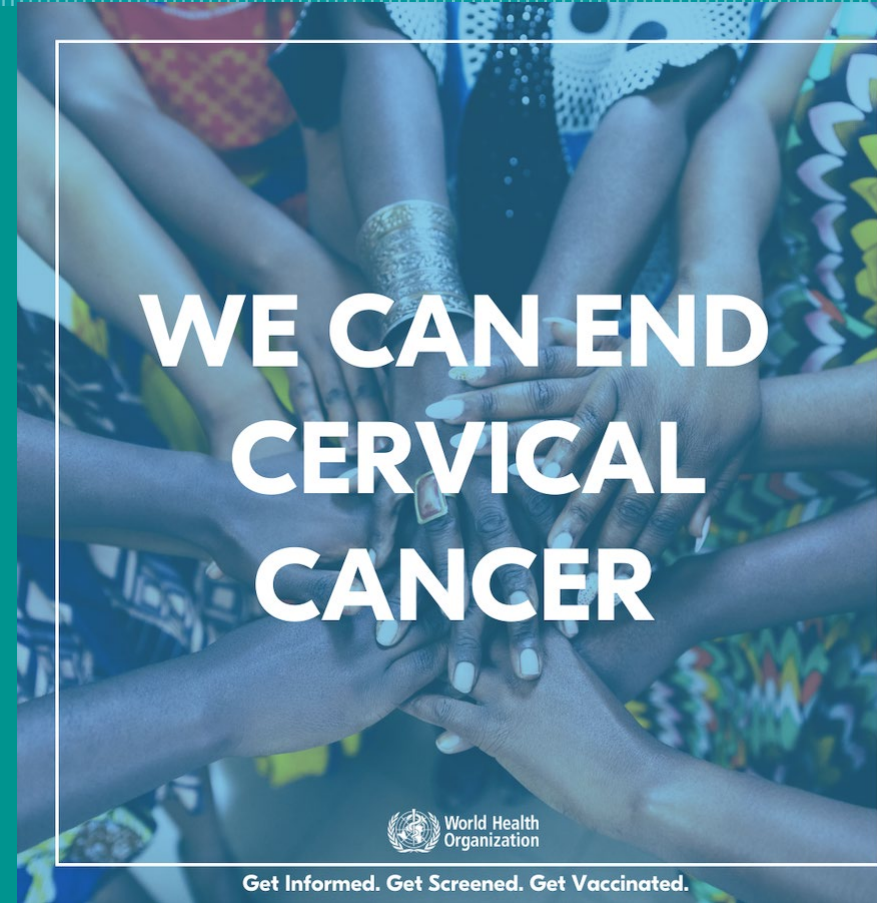
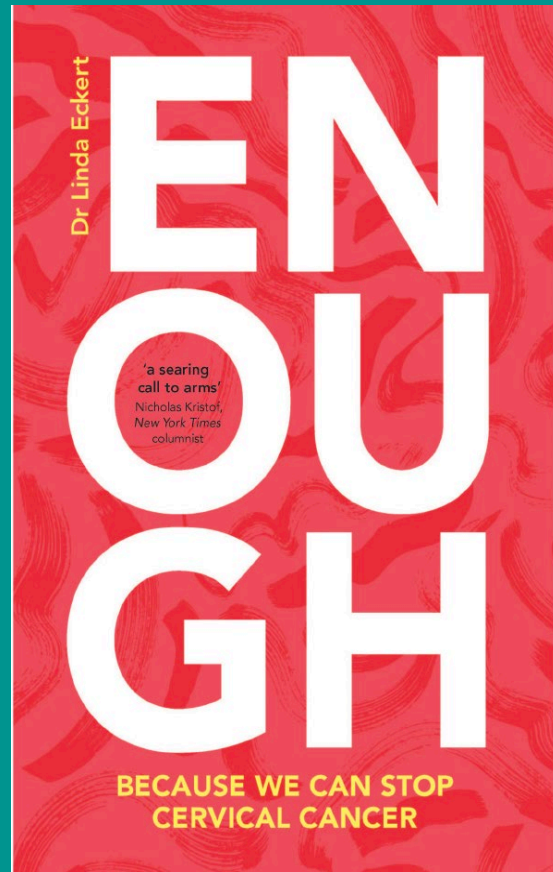
²https://gco.iarc.fr/tomorrow/en/dataviz/bubbles?sexes=1_2&cancers=23. Accessed 28 December, 2023.

PARTNER WITH ADVOCATES

- In my career- I'm now seeking opportunity for advocacy partnerships
- Why?
 - Implementation assistance-no "science or guideline silos"
 - Advocates can teach us to use power of story
 - Together: Overcome the Intangibles
 - Stigma
 - Patriarchy
 - Societal value of people with cervixes!!!

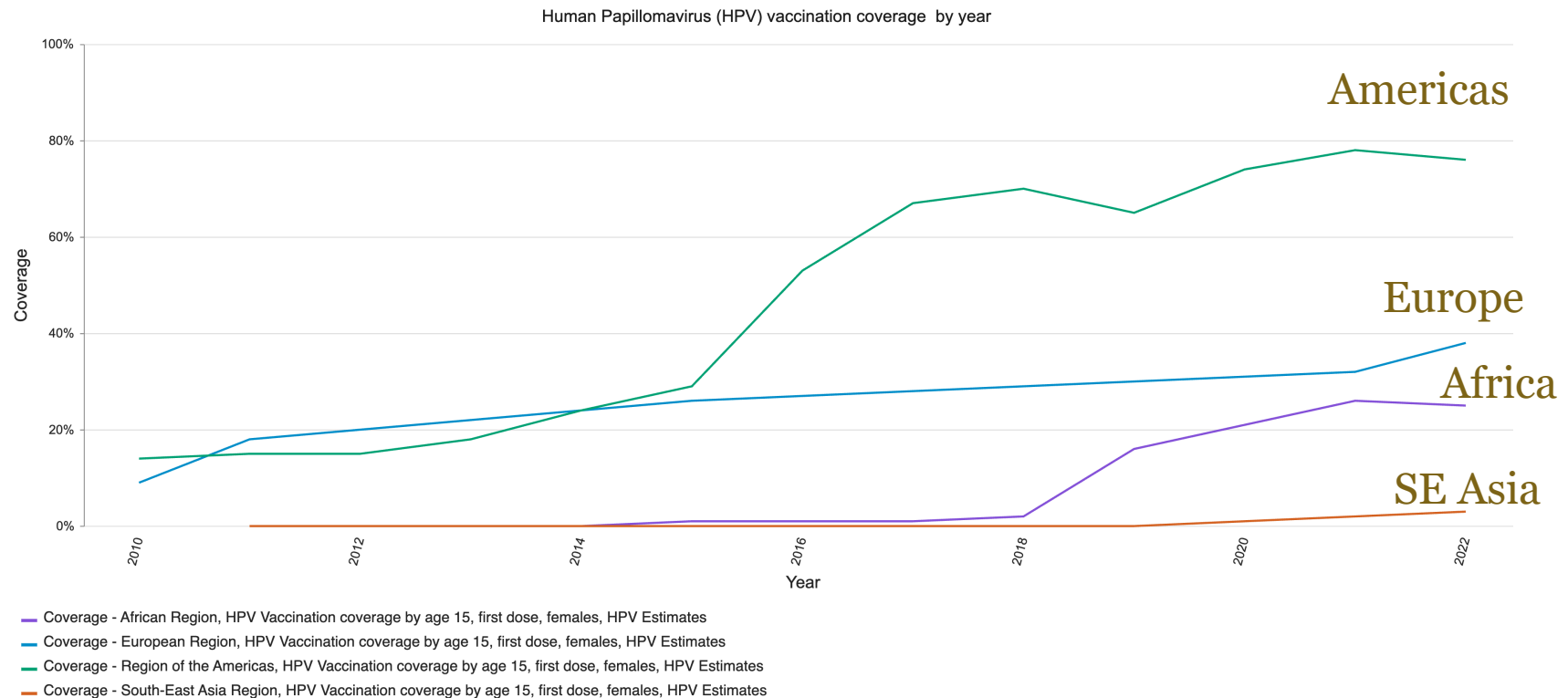
@drlindaeckert **Let's Go!!!!** drlindaeckert.com

human
reproduction
programme
hrp
research for impact
UNDP UNFPA UNICEF WHO WORLD BANK



We have Enough. We Are Enough

GLOBAL HPV VACCINE COVERAGE

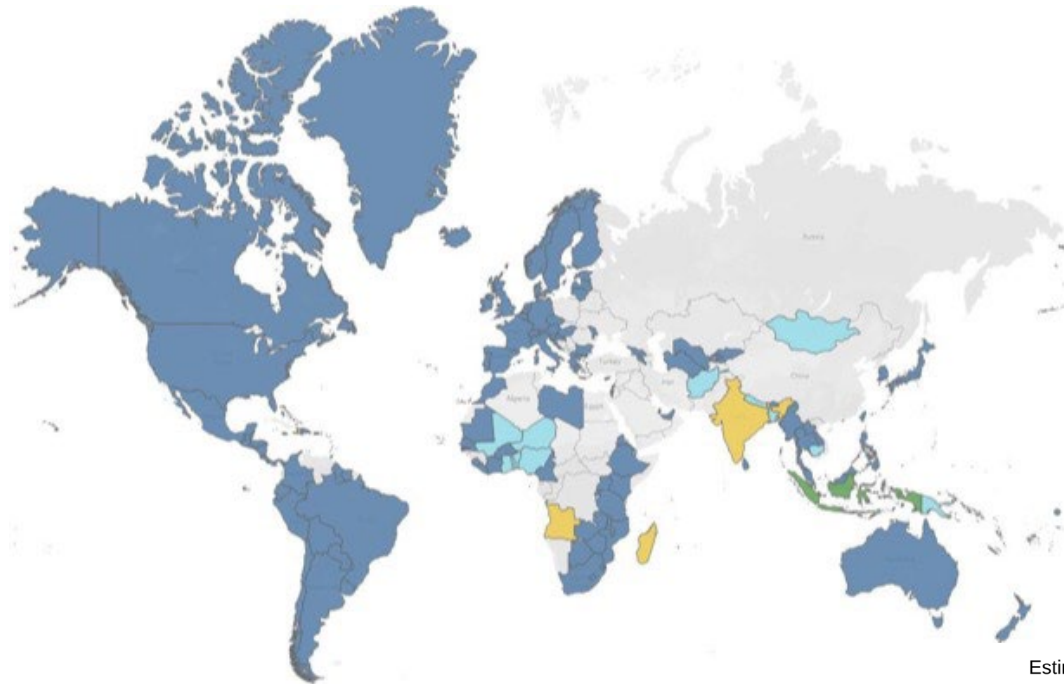


Source: WHO Immunization Data portal

Date of export: 9/24/2023

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GLOBAL HPV VACCINE COVERAGE

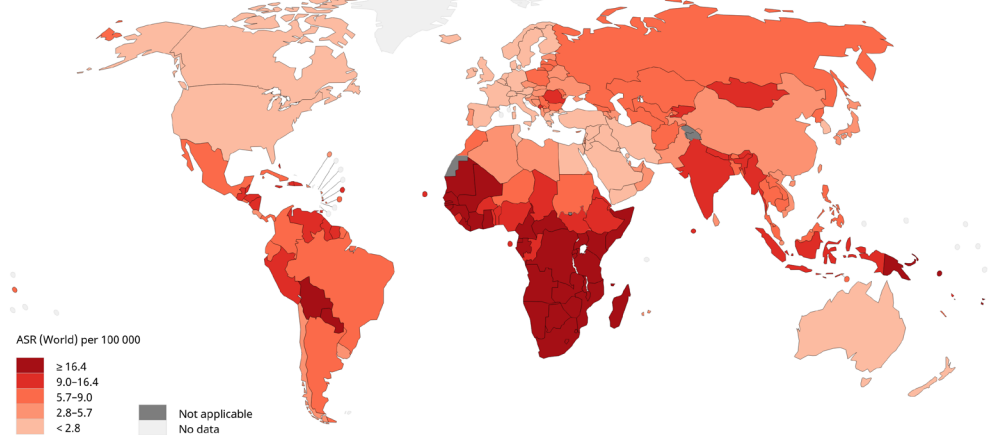


A bit of a mismatch!

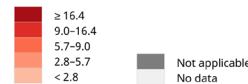
- National
- Subnational
- Demo complete
- Projected - national

PATH, Global HPV Vaccine Introduction Overview, 2022

Estimated age-standardized mortality rates (World) in 2020, cervix uteri, all ages



ASR (World) per 100 000



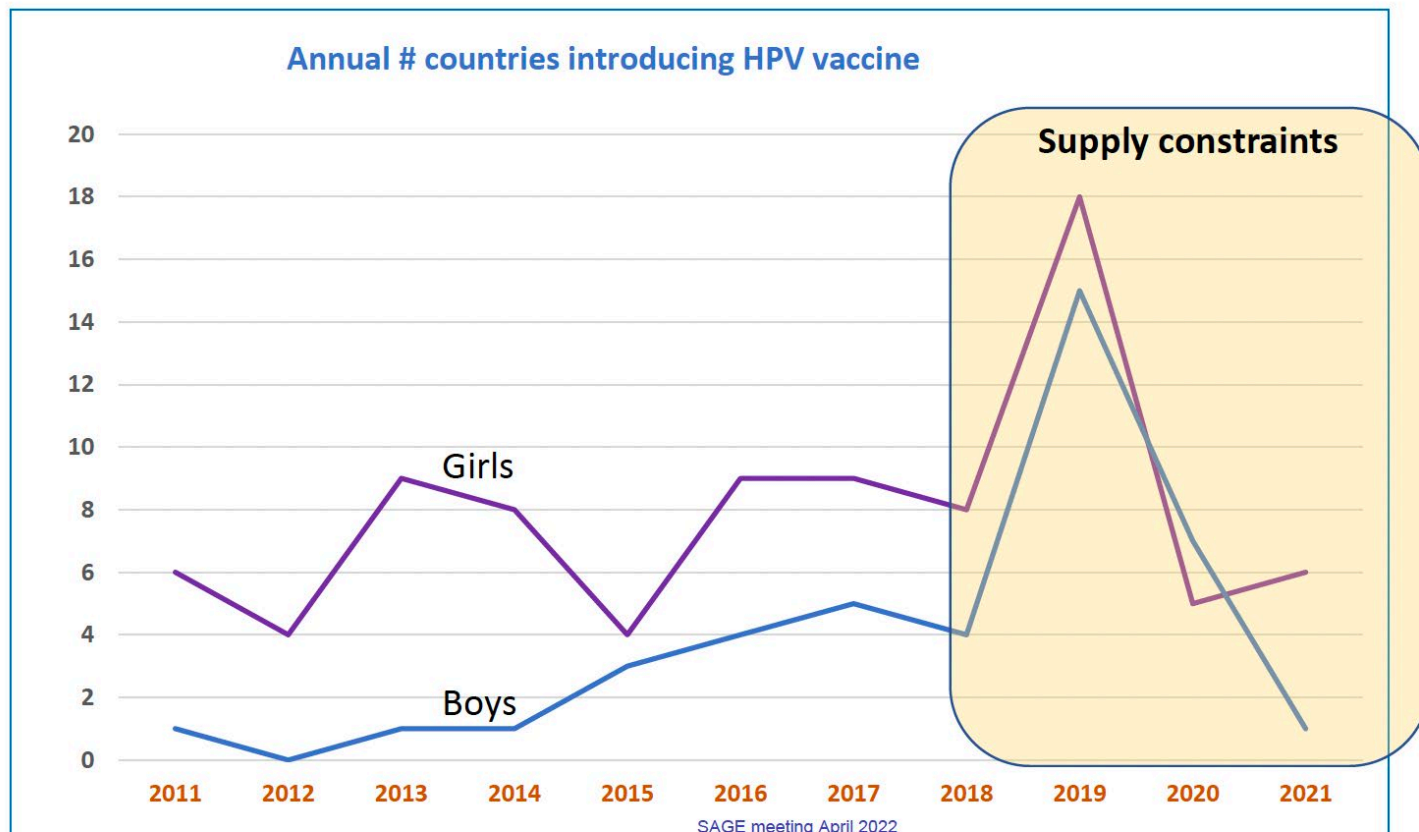
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Data source: GLOBOCAN 2020
Graph production: IARC
(<http://glo.iarc.fr/today>)
World Health Organization

HPV VACCINE INTRODUCTIONS

Session6_HP

Trends in HPV vaccine introduction Well Kept Secret!



GLOBAL HPV VACCINE SHORTAGE

- 28 Gavi eligible countries had to alter, delay or halt altogether HPV vaccine rollout
- Gavi estimates between 2020-2025: **34,000,000 girls to missed out on HPV vaccine** due to the global low income country supply constraint¹
- In lower income settings, only need 70 girls vaccinated to prevent a case of cervical cancer²
- HENCE global supply shortage: **485,000 lives** (given no treatment or screening in most Gavi countries)
- CDC modelling estimates that in US: 6500 40 yo's need to be vaccinated to save a case of cervical cancer³

¹<https://www.GAVI.org/sites/default/files/publications/2021-2025-GAVI-Investment-Opportunity.pdf>
p 13

²[https://www.thelancet.com/journals/langlo/article/PIIS2214-109X\(20\)30022-X/fulltext#sec1](https://www.thelancet.com/journals/langlo/article/PIIS2214-109X(20)30022-X/fulltext#sec1)

³Meites E, Szilagyi PG, Chesson HW, Unger ER, Romero JR, Markowitz LE. Human Papillomavirus Vaccination for Adults: Updated Recommendations of the Advisory Committee on Immunization Practices. MMWR Morb Mortal Wkly Rep 2019;68:698–702. DOI: <http://dx.doi.org/10.15585/mmwr.mm6832a3external>
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