

# Cervical screening and early diagnosis in low- and lower-middle-income countries (LMICs): current situation

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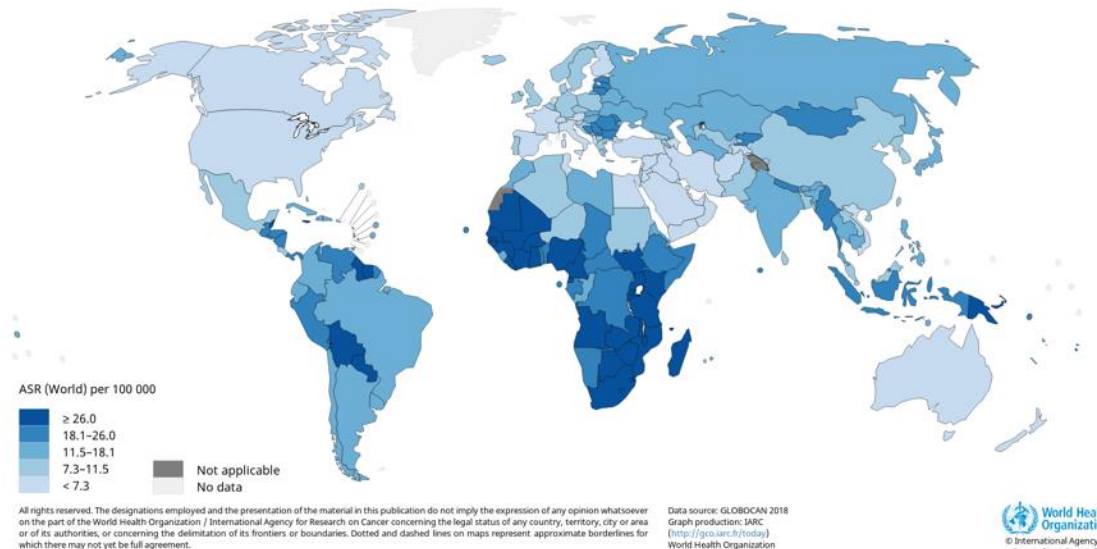
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August 27, 2020

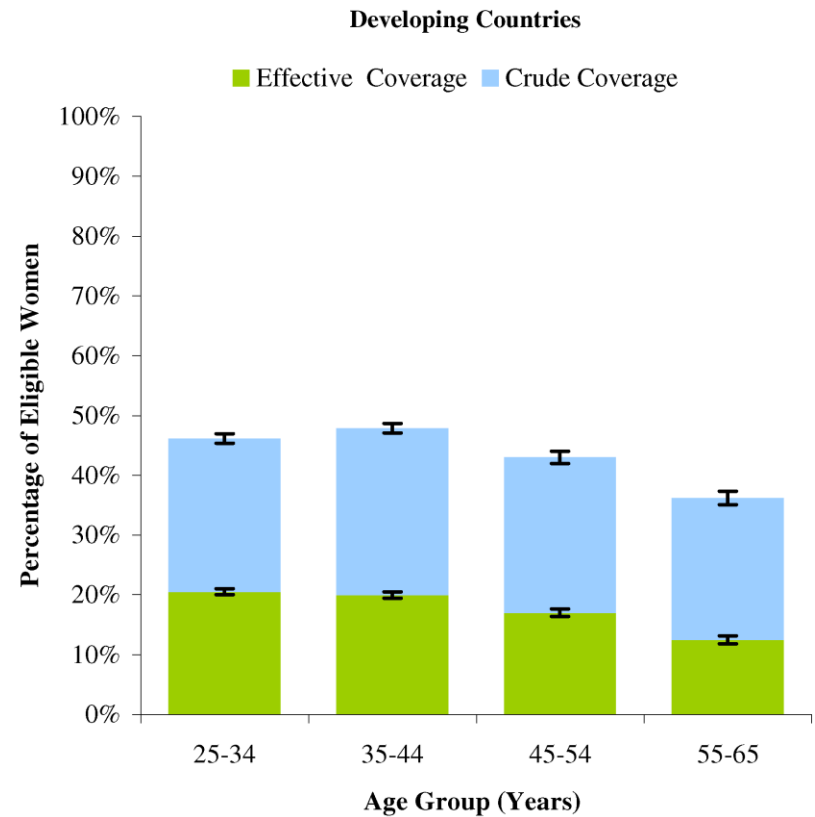
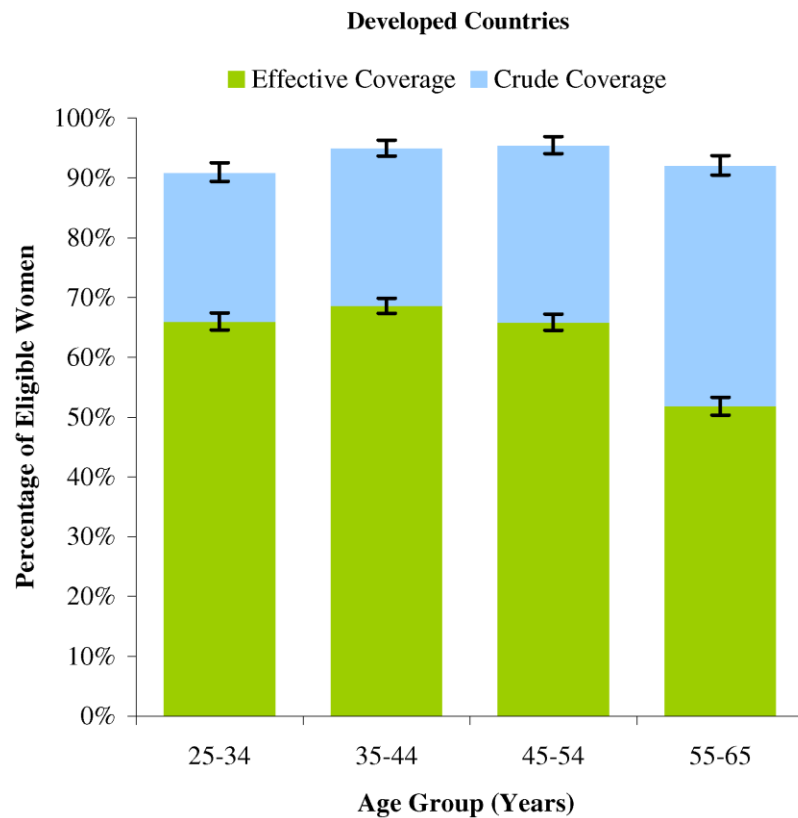
# Cervical Cancer Burden

Estimated age-standardized incidence rates (World) in 2018, cervix uteri, all ages



- Fourth most common cancer among women worldwide
- Highest incidence in LMICs
- Second most common cancer among women in LMICs
- 90% deaths due to cervical cancer in LMICs

# Reduced Screening in LMICs



# Barriers to Screening



- Economic
- Competing priorities
- Social
- Political

# Principles for Screening in LMICs

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- Needs space accessible to general population
  - Does not rely on highly trained doctors or lab personnel to perform
  - Results can be obtained immediately
  - Is associated with treatment
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# Cervical Screening Methods



## ■ Cytology

- Visual inspection with acetic acid (VIA)

- HPV testing



# HPV Tests



- CareHPV
- Xpert HPV - Cepheid

# HPV Testing in LMICs

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## OPPORTUNITIES

- Decreased risk of subjective interpretation
- Easier to administer
- Point-of-care with immediate results
- Coupled with VIA to triage

## CHALLENGES

- Remains expensive
- Requires equipment and supply chain
- Batch testing may be necessary
- Still requires access to treatment

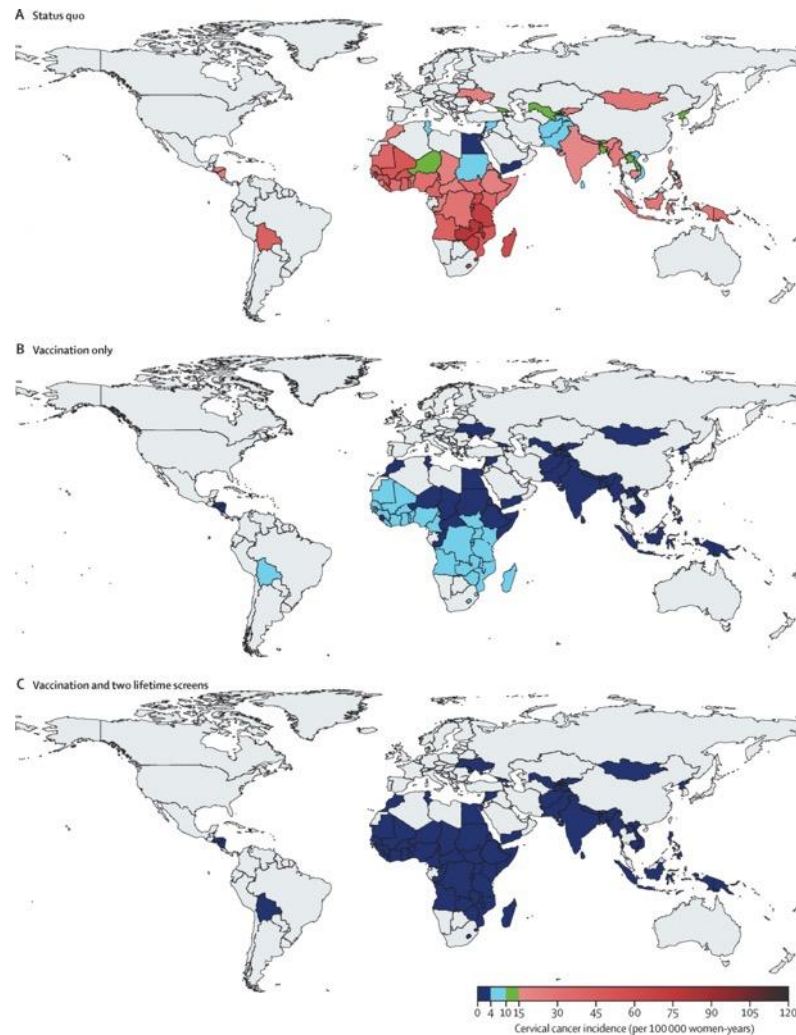


# HPV Vaccine

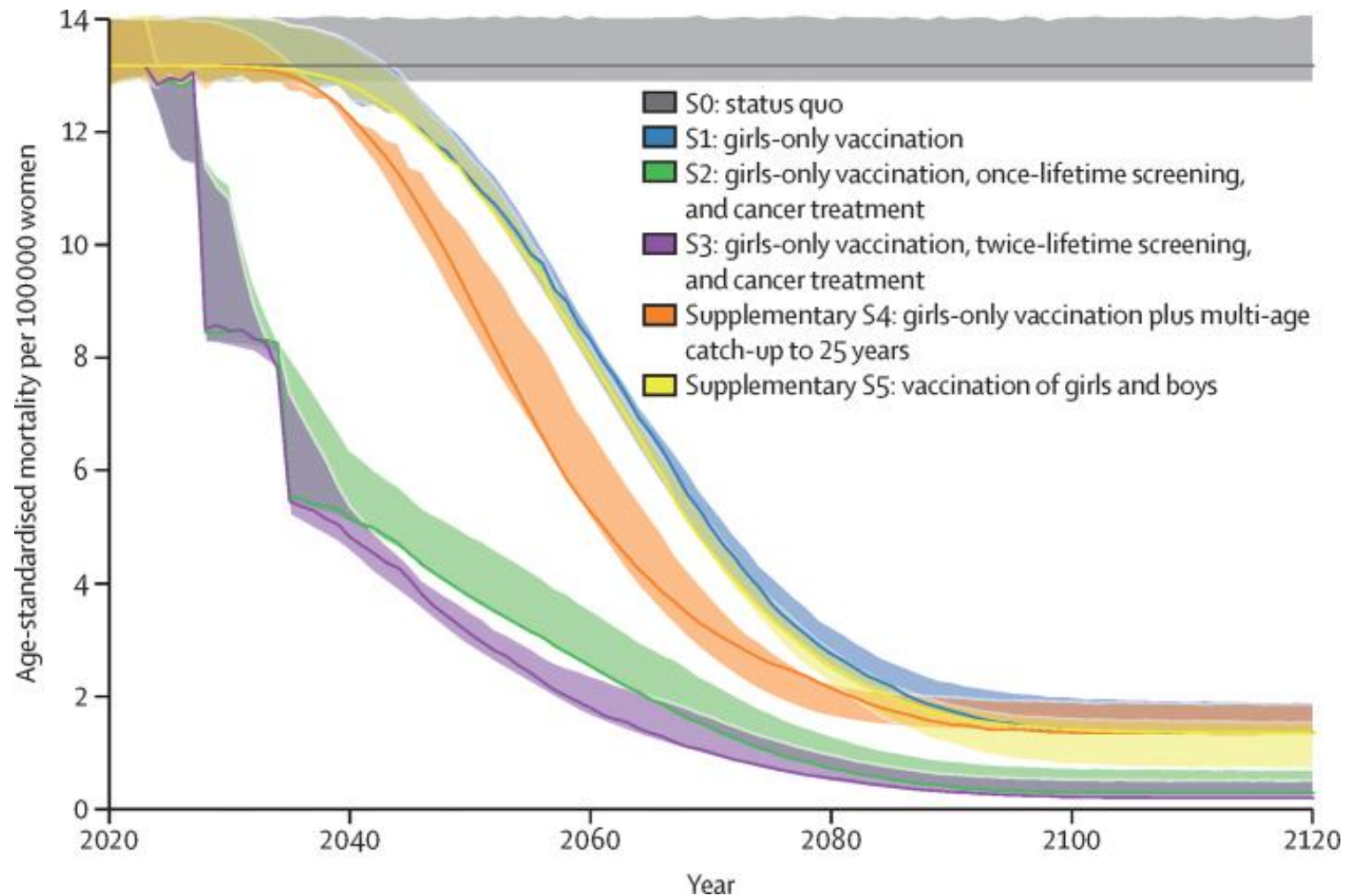


- Available since 2006
- Protect against 2, 4, or 9 types of HPV
- WHO recommends for girls ages 9 to 14 years

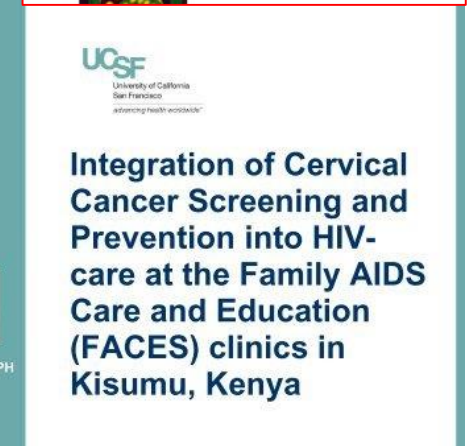
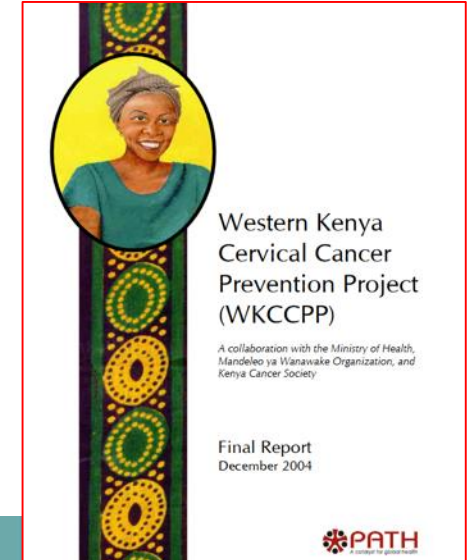
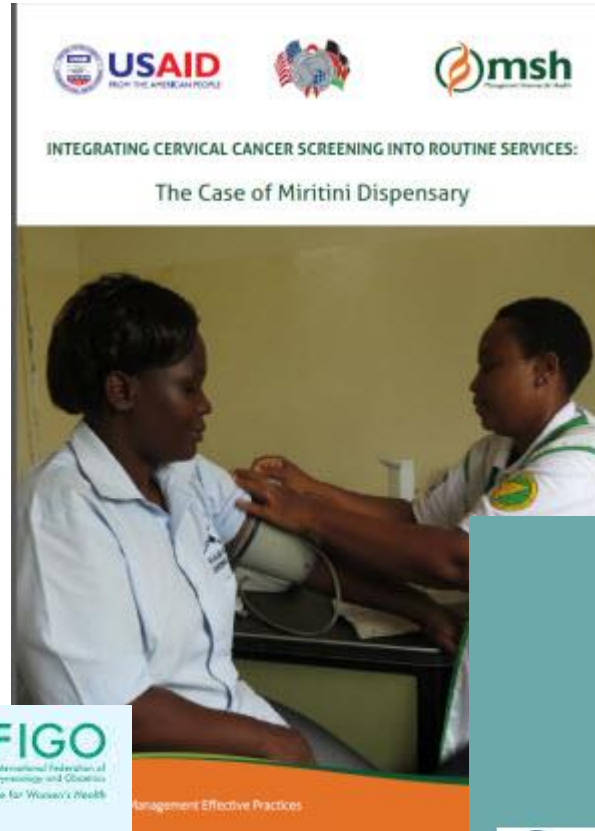
# Continued Screening Need - Incidence



# Continued Screening Need - Mortality



# Cervical Screening in Kenya





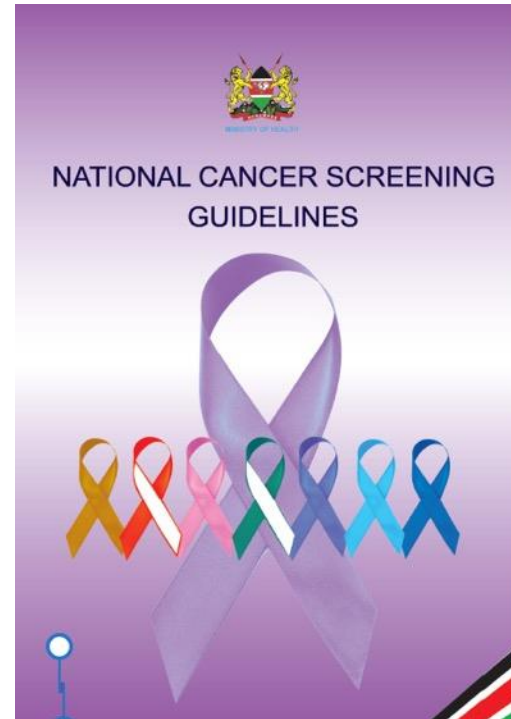
# Awareness Campaigns

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# Kenya Ministry of Health Support

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**Despite >20 years recommendations and strategies, only 16% of women in Kenya have been screened for cervical cancer**

# HPV Vaccine Rollout in Kenya

CAPITAL HEALTH

## Kenya To Launch HPV Vaccine Friday In Efforts To Combat Cervical Cancer



By MUTHONI WAWERU  
Published October 17, 2019



Health CS Sicily Kariuki witnesses the vaccination a 10 year old girl with HPV vaccine at Othaya Health Centre in Nyeri County on Thursday, October 24. By receiving the HPV vaccine now, 10 years old girls are protected from developing cervical cancer later in life/MoH

## Catholic Church cautions govt on HPV vaccine side-effects

MONDAY OCTOBER 21 2019

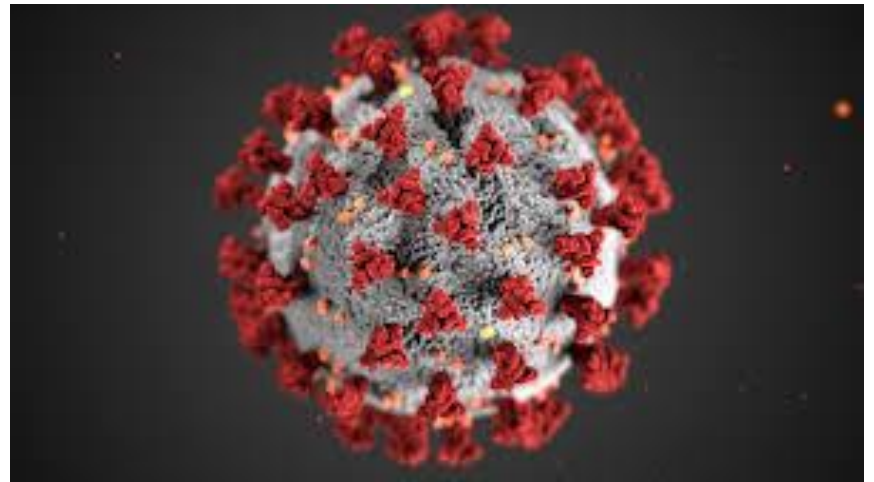


Archbishop Martin Kivuva of the Catholic Diocese of Mombasa addresses journalists during the launch of the cervical cancer vaccine campaign at Ziwani Primary School in Mombasa on October 18, 2019. PHOTO | WACHIRA MWANGI | NATION MEDIA GROUP



# Current Situation

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# Summary

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- LMICs shoulder disproportionate burden of cervical cancer
  - Economic, social, and political barriers impede screening
  - HPV testing is a promising, but challenges remain
  - Despite HPV vaccine, screening remains important to reduce incidence and mortality
  - COVID-19 will likely impact screening and vaccination efforts for years to come
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## **Treatment, Research and Expert Education - Nairobi**

- Evans Malava
- Catherine Kiptinness
- Judith Lukorito
- Christine Njiru
- Mercy Wanjiku
- James Munyao
- Julia Njoroge
- Reinhard Wanakacha
- Peter Juma
- Dennis Omondi
- Grace Achieng
- Norah Matheka
- Betty Muchai



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- Stanley Luchters



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- Tony Cagle
- Christine McGrath
- Scott McClelland
- Rochelle Garcia



## **Coptic Hope Centre - Nairobi**

- Samah Sakr
- Bishop Paul
- Sherry Eskander

International Agency for Research on Cancer



## **International Agency for Research on Cancer - Lyon**

- Hugo de Vuyst
- Silvia Franceschi



## **Centers for Disease Control and Prevention**

- Sara Forhan
- Cathy Ruto
- Tanya Jennings
- Elizabeth Unger



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