

# Cervical Cancer Prevention

## UAE Experience



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**Chair O&G Department**  
**Tawam Hospital**

# Introduction:

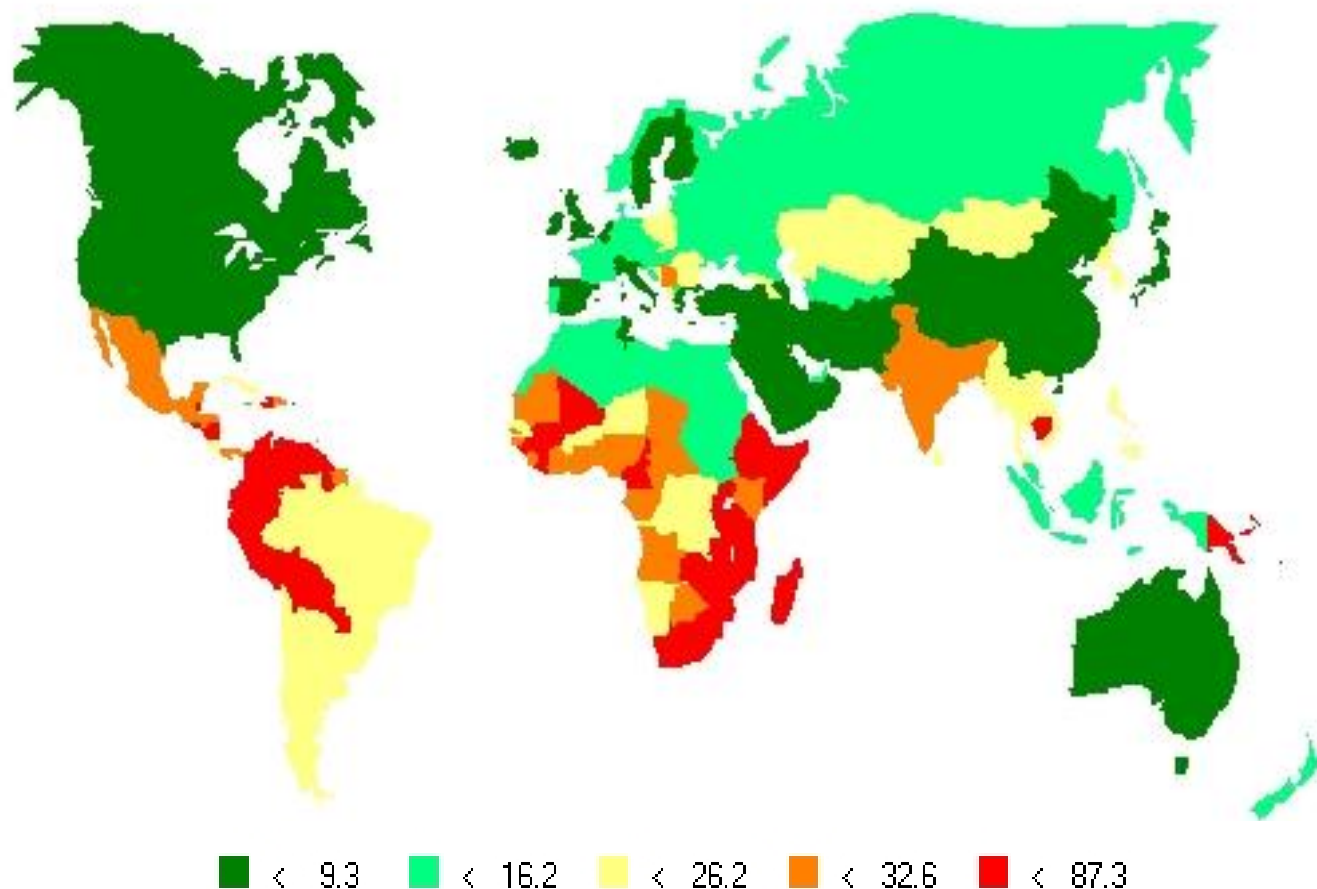
- 1- The story of Cervical Cancer
- 2- HPV as a cause of Cervical Cancer
- 3- Cancers caused by HPV
- 4- HPV Vaccines available in the market
- 5- UAE experience
- 6- Conclusions

## Case sharing:

- 30 YO G10P9, presented with stage III cervical cancer
- Radio-Chemotherapy
- Residual progressive disease
- Offered further Chemotherapy / exentration
- Admitted lately with advanced stage
- Died at the age of 32 with nine children around her?

# Every Day, 800 Women Die from Cervical Cancer

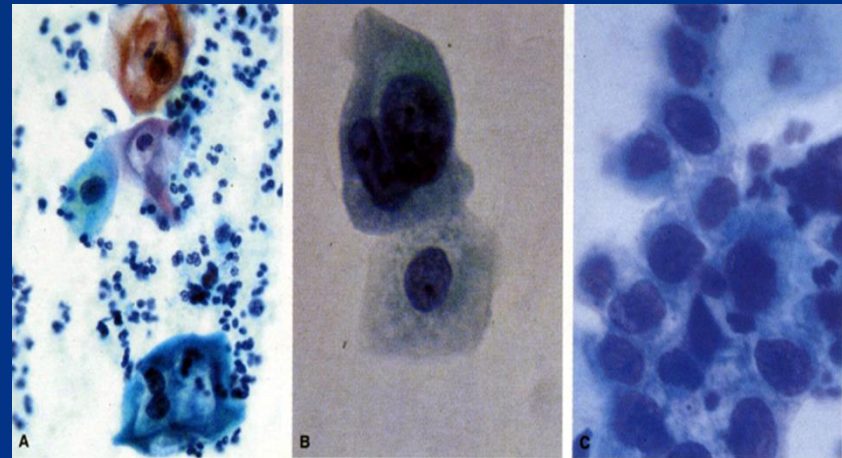
Incidence of Cervix uteri cancer: ASR (World) (All Ages)



# Primary Prevention

## SCREENING – Pap Smear

The Pap test examines a cellular sample derived from exfoliated or mechanically dislodged cells of the cervix, vagina, and in some cases, endometrium. These cells are then examined by light microscopy.



## 2- Collecting the smear: Knowledge, Attitude & Practice of UAE female primary care physicians on cervical screening

**Badrinath P, Ghazal-Aswad S, Osman N, Deemas E,  
McIlvenny S.**

**A study of knowledge, attitude, and practice of cervical  
screening among female primary care physicians in the  
United Arab Emirates.**

***Health Care Women International 2004; 27:663-670***

The background of the slide is a dark blue field filled with several interlocking gears of varying sizes and shades of blue. On the far left, there is a vertical strip with a colorful, abstract, and pixelated pattern in shades of orange, yellow, and red.

## 3- Cytology & Pathology Services



## 4- Management of Abnormal smear:

### COLPOSCOPY SERVICES IN UNITED ARAB EMIRATES



J Low Genit Tract Dis. 2006  
Jul;10(3):151-5.





## 5- Management of Cervical Cancer Tawam Hospital Experience 1980-1998



## 7- Prevalence of cervical abnormalities among women in The United Arab Emirates



**Cervical smear abnormalities in the United Arab Emirates — a pilot study in the Arabian Gulf.**

**Acta Cytol. 2006 Jan-Feb;50(1):41-7.**

# Prevalence of Chlamydia

- 1039 women approached
- 919 (88%) agreed to participate
- The overall prevalence 2.6%



# National workshop on Cervical Cancer Prevention & Control in UAE

21 - 22 September 2004

Published EMJ,



WHO Collaborating Centre  
For Research in Human Reproduction





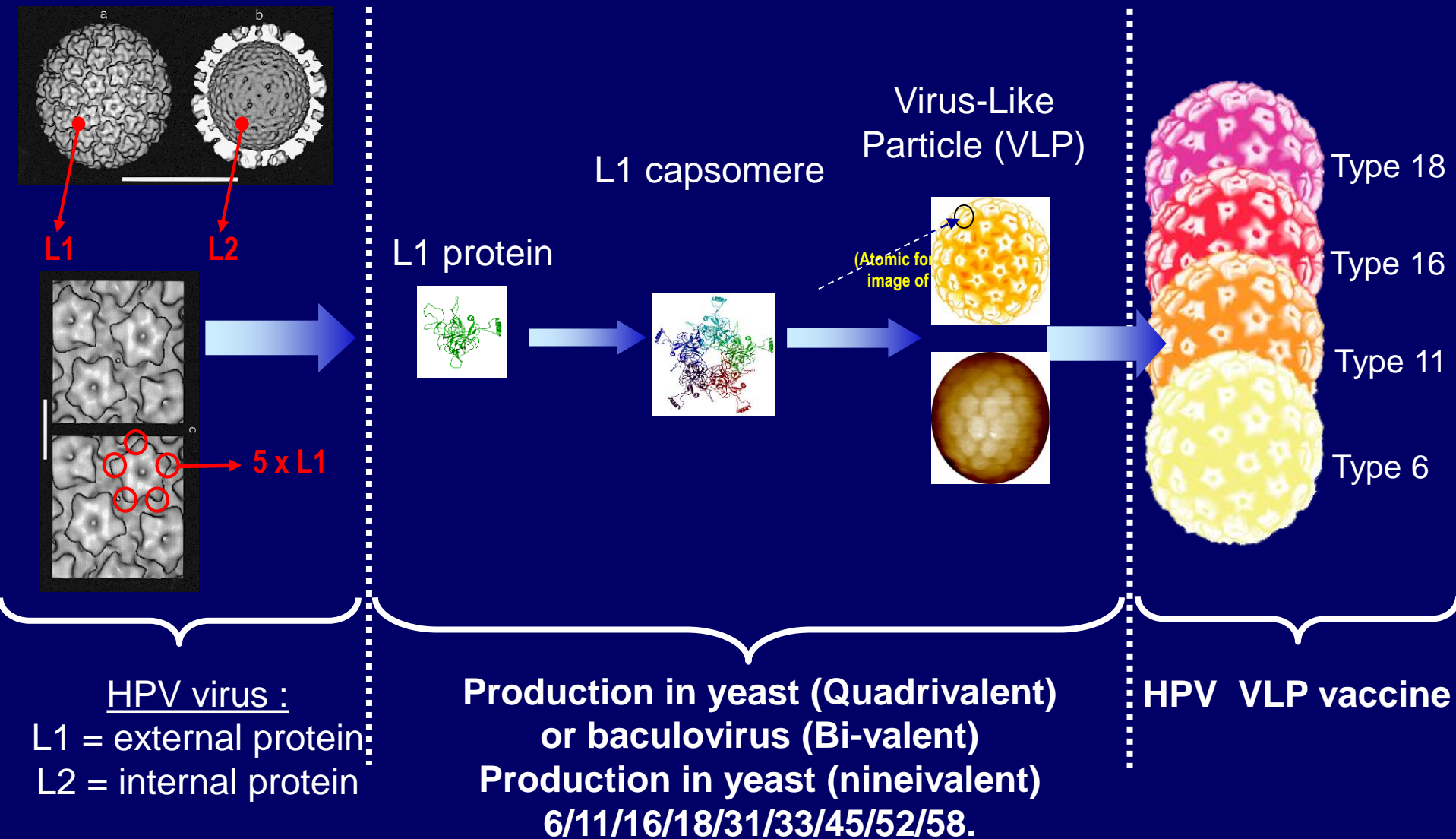
The Nobel Assembly at  
Karolinska Institute  
has decided on 6 October  
2008 to award  
**The Nobel Prize** in  
Physiology or Medicine for  
2008 with one half to  
**Harald zur Hausen**  
for his discovery of  
"human papilloma  
viruses causing cervical  
cancer"

## HPV vaccine available:

- 1- Cancers caused by HPV
- 2- HPV Vaccines: Bi-valent & quadri-valent
- 3- HPV9
- 4- therapeutic HPV vaccine



# The vaccine mimics the virus shell



# Vaccine Implementation process in United Arab Emirates

- Total UAE population estimate in 2005 is 4,320,000\*\*.
- Females represent 32.4% of the total population,
- of which females of 9-26 years of age represent 10%\*\*.(432,000)

**Inputs**  
 Population Demographics

\* UAE Abu Dhabi Census results 2005

Number of girls/women in your population within the following age groups:

0-19	171,135*
20-39	202,490*
40-59	59,064*
60+	9,361*
<b>Total</b>	<b>442,050</b>

Number of boys/men in your population within the following age groups:

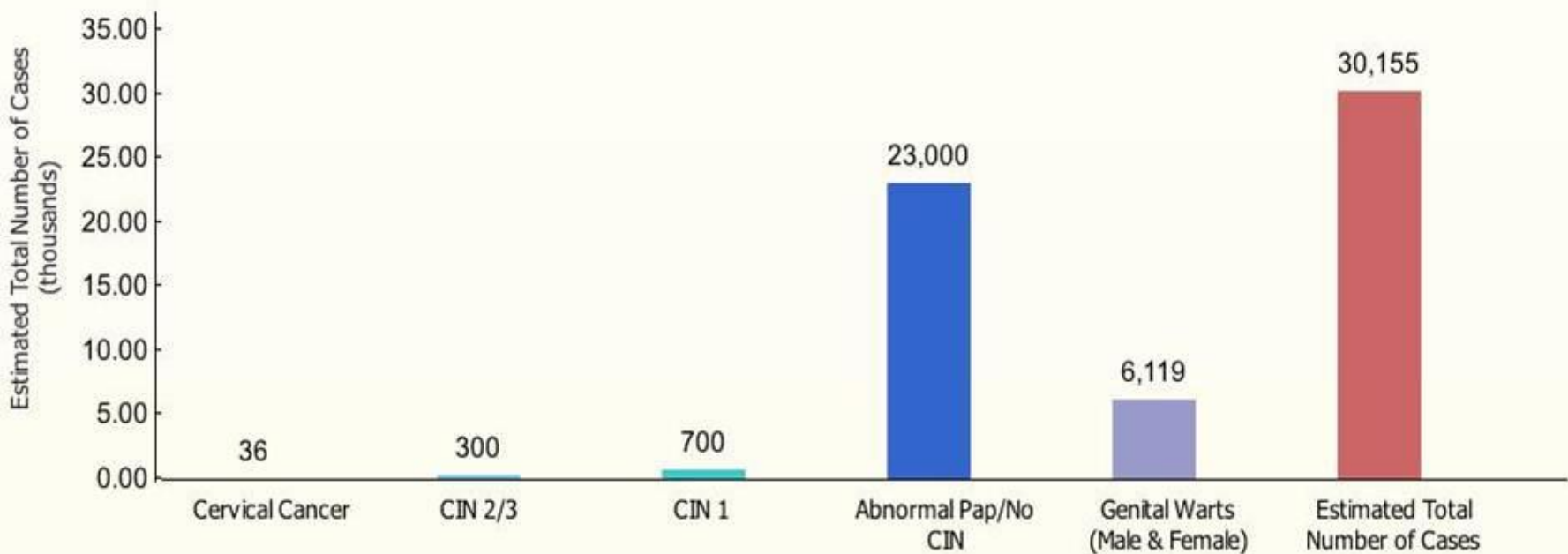
0-19	208,429*
20-39	444,776*
40-59	184,996*
60+	11,868*
<b>Total</b>	<b>850,069</b>

Note: When displayed values exceed one million, metric identifiers M (1,000,000), B (1,000,000,000) etc. are used.  
 Note: Enter the number of females/males in your population by age group. If the population distribution is not known, enter the Total Population using the orange tab above.  
 Note: By entering the total population, the age stratification on the population demographics screen will be based on the U.S. Census Population. (9)

Results  
Estimated Total Number of Cases

chart  table 

Burden of Illness of Cervical Abnormalities and Anogenital Warts over 1 year(s)



Note: When displayed values exceed one million, metric identifiers M (1,000,000), B (1,000,000,000) etc. are used.  
Note: RRP and Head and Neck Cancers as well as Vulvar, Vaginal, Penile and Anal Cancers are not included in the tool, nor are indirect costs.  
The results shown are based on the incidence rates entered in the configuration screen and data entered in the input section of the tool.

# Considerations: Target Population

- HPV vaccine is most efficacious when administered prior to marriage / being sexually active.
- The primary cohort for HPV vaccine should be selected based on:
  - Age of marriage,
  - Feasibility of reaching young adolescent girls by vaccine delivery setting
- Options for vaccine delivery strategies
  - School-based program: Abu Dhabi – UAE, Australia, Canada, New Zealand, Norway, Romania, Sweden and United Kingdom
  - Health-care facility-based program: Belgium, Denmark, France, Germany, Macedonia and United States
  - Community-based program

# Optimal Timing for Primary Prevention is Before Exposure

**“...HPV infection is sexually transmitted and is usually acquired within the first few years following sexual debut.”**

**“Ideally, therefore, the vaccine should be administered before sexual debut, i.e., before any risk of exposure to HPV.”**

***World Health Organization<sup>1</sup>***

1. World Health Organization, United Nations Population Fund. *Preparing for the introduction of HPV vaccines: policy and programme guidance for countries*. Geneva, Switzerland: World Health Organization; 2006.



# Considerations: Vaccine Acceptance

- Vaccine uptake success will depend on acceptance by the community, health care providers and parents/guardians.
- Studies have demonstrated that knowledge of cervical cancer as a preventable disease is low among the general public
- Targeted educational campaigns can help to understand the benefits of HPV vaccination and address concerns
- Providing the following information can increase acceptability:
  - Stress the prevention of HPV-related diseases cervical cancer and genital warts.
  - Safety and efficacy of the vaccine
  - Endorsement by health authorities

- A survey conducted in UAE n Oct-Nov 2006 reveled that
  - 45 % of UAE respondent mothers are highly willing to vaccinate their daughters
  - 60 % of UAE respondent mothers are highly willing to take the vaccination themselves
  - 80% of young adult UAE females are willing to take the vaccine
  - The major reason for willing of vaccination was for prevention of cervical cancer & HPV infection (50-70%)
- Similar study conducted on a sample of Abu Dhabi High school female students & partners show that 94 % partners opted yes to implementation of the vaccine program

# Abu Dhabi HPV vaccination Program implementation

- Date: Initiated in March 2008
- Delivery: Emirate wide , School-based Program, utilizing the existing school vaccination program
- Target population: all female students in Grade 11 enrolled in government or private schools ( mean age 16-17 years)
- Free of charge for nationals , with small copayment for non-nationals (50 Dhs./ about 15 USD for the three doses)
- Quadrivalent HPV vaccine adopted initially

# HAAD Key Initiatives

## Media Coverage

Sunday, April 12, 2009 | Abu Dhabi 28 °C

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### Global briefing

#### The scourge of piracy

A US-flagged ship is attacked by pirates for the first time in nearly 200 years as naval patrols prove ineffective against determined Somali operatives in fair weather and favourable waters.

#### Programme to vaccinate schoolgirls extended

Milly Underwood  
Last Updated April 11, 2009 8:30AM UAE / April 11, 2009 4:30AM GMT

ABU DHABI // Building on the success of a pilot programme last year, the Health Authority-Abu Dhabi is offering vaccinations for cervical cancer to girls at all schools in the emirate.

Almost 6,000 girls aged 17 were inoculated last year, and a further 4,000 have received the first dose of the Gardasil vaccination this year. The three-dose vaccinations, which were administered by school nurses, required the consent of the girls and their parents or guardians. The scheme was so successful – about 70 per cent of the girls chose to be vaccinated – that the health authority will now extend it to both government and private schools.

The injections are free for Emiratis; expatriates pay a fee of Dh50 (US\$14) for the



Nancy Bradford, left, administers a shot of Gardasil to a 14-year-old patient in Texas to vaccinate against human papillomavirus, or HPV. *Jeppia Rinaldi / Reuters*

### Other UAE stories

- Dh50m boost for amateur football
- Emirates Airline incident 'a near disaster'
- Gales batter the UAE
- Rider delayed over US visa
- Online Government questions welcomed
- RTA seeks to tighten minibus licensing

### Top stories

- Dh50m boost for amateur football
- Emirates Airline incident 'a near disaster'
- Gales batter the UAE
- State of emergency: protesters grab tanks
- Dubai rallies to three month high
- First Sowwah bridges near completion
- Milroy can swing it to win it, says Player

### Your View

- What special training should minibus drivers

Read the newspaper as it was printed

## Public Education

- Cervical cancer and other HPV diseases
- Culturally sensitive information

General Authority for Health Services  
Abu Dhabi, UAE

### A new vaccine to prevent Cervical Cancer

**Introduction:**  
Human Papilloma Virus (HPV) has been demonstrated to be the cause of more than 90% of cases of cervical cancer and is involved in other cancers and diseases. Overall, about 10 percent of women at any one time have an HPV infection, and they are more common in young women than in older women. Most cervical infections by even cancer-related HPV types go away on their own and do not cause cancer. In some women, cancer-related HPV infections persist and can progress over several years to invasive cervical cancer.




## CME Events:

- June 2007 & October 2007
- Engagements of 300 HCP
- Local and international speakers

General Authority for Health Services  
Abu Dhabi, UAE

### HPV and HPV Vaccine

Information for Healthcare Providers



مجلس الصحة أبو ظبي  
Health Authority Abu Dhabi (HAAD)


### INVITATION

The HAAD Public Health Team are pleased to invite you to attend a symposium on:

**"Cervical Cancer Prevention and Beyond: Introducing the comprehensive approach"**

To be held on Sunday, 17th June 2007  
From 8:30 - 10:30  
At HAAD auditorium, Abu Dhabi  
This event is accredited by HAAD - CME hours

For meeting with the following topics:  
Supported by HAAD in partnership with Merck Sharp & Dohme



# Uptake of HPV Vaccine – Abu Dhabi

- The uptake over the years 2008-2011 is generally satisfactory and comparable to that in countries that have implemented the program
- The uptake is generally higher in government schools (63 %) than in private schools (21% )
- The uptake in national girls (74%) exceeds that of non-national girls (29%) in governmental schools; but the difference is much smaller in private schools (23% and 21% respectively)

# **Introduction of Cervical Cancer Screening in AD 2013**



# Facts, United Arab Emirates

70% of cervical cancer cases are diagnosed at a late stage and are therefore not curable.

There is an urgent need to increase rates of cervical cancer prevention and early detection.



## Who is eligible for cervical screening?

All women between the ages of 25 and 65 are eligible for a cervical screening test every 3-5 years.

### When a cervical screening test should be done

Age group (years)	Frequency of screening
25	First invitation
25 - 49	3 yearly
50 - 64	5 yearly
65+	Only screen those who have not been screened since age 50 or have had recent abnormal tests

# HAAD Recommendations For Cervical Cancer Control

## PREVENTION

### HPV vaccine

- All girls and young women, 15–26 years. Once per life time

## SCREENING

### Pap test

- Women aged 25–49 years, Every three years
- Women aged 50–65 years Every five years



+971 2 4493333



+971 2 4449822



Abu Dhabi, UAE, 5674 أبوظبي، الإمارات العربية المتحدة.

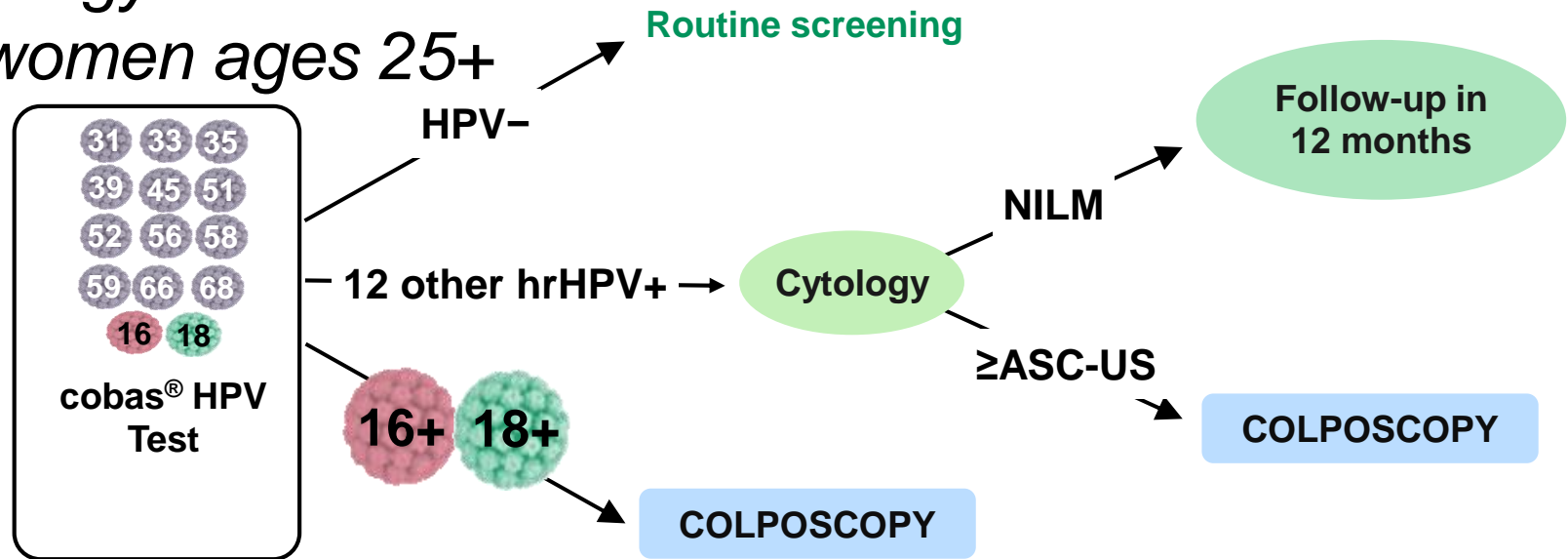
[www.haad.ae](http://www.haad.ae)

**Future / Soon plan**

# Screening Strategies: HPV Primary Screening Algorithm

**cobas<sup>®</sup> HPV Test with HPV 16/18 genotyping and reflex cytology**

*in women ages 25+*



This **cobas<sup>®</sup> HPV Test** was approved for use in this strategy by the FDA in April 2014



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### FDA News Release

# FDA approves Gardasil 9 for prevention of certain cancers caused by five additional types of HPV

For Immediate  
Release

December 10, 2014

### Release

Español

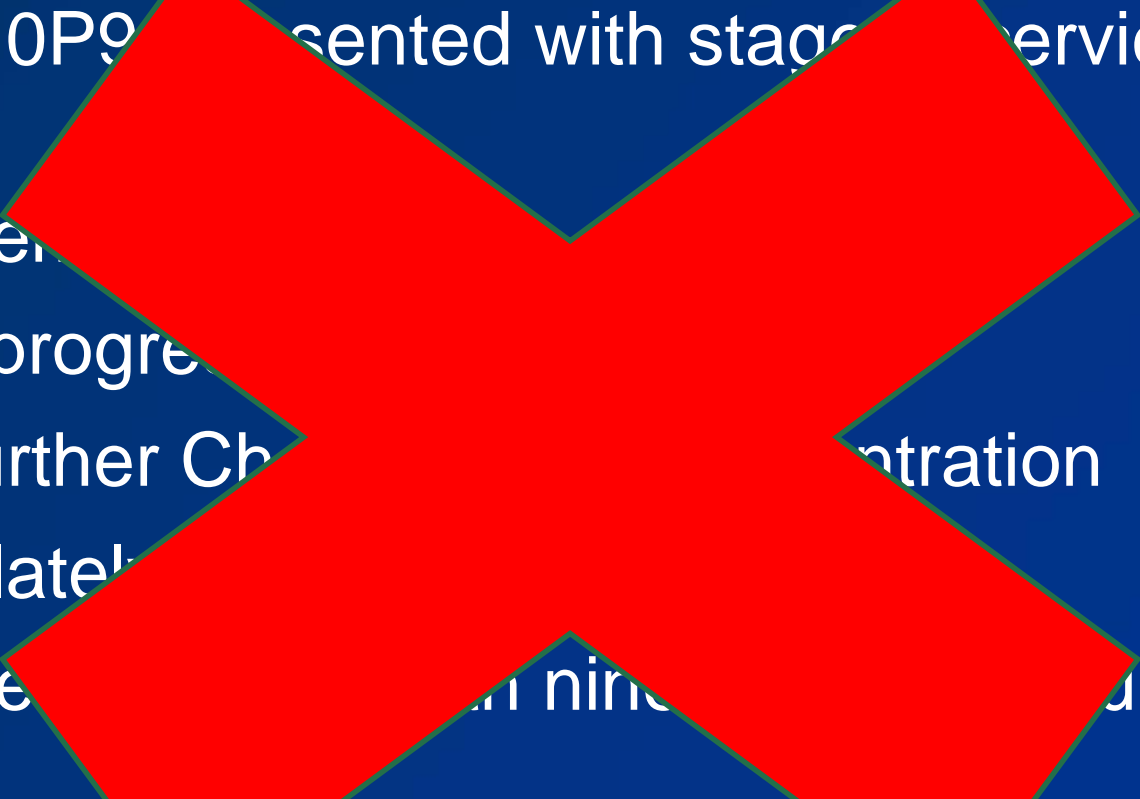
The U.S. Food and Drug Administration today approved Gardasil 9 (Human Papillomavirus 9-valent Vaccine, Recombinant) for the prevention of certain diseases caused by nine types of Human Papillomavirus (HPV). Covering nine HPV types, five more HPV types than Gardasil (previously approved by the FDA), Gardasil 9 has the potential to prevent approximately 90 percent of cervical, vulvar, vaginal and anal cancers.



# Final Summary

- Cervical cancer Is preventable disease
- HPV vaccine (HPV 4 / HPV 9) should be offered to all young girls before starting sexual activities
- The ideal time is 9-13 year old with two doses
- In AD/UAE, we have an excellent HPV vaccination program and started Screening by smear program
- BUT we are planning to move to HPV 9 soon, possible 2 doses
- And will move to HPV primary screening with smear triaging soon.

# Case sharing:

- 30 YO G10P9 presented with stage cervical cancer
  - Radio-Chemo
  - Residual progression
  - Offered further Chemotherapy
  - Admitted late
  - Died at the age of nine and her?
- 

# Thank you !

