

Cervical Cancer

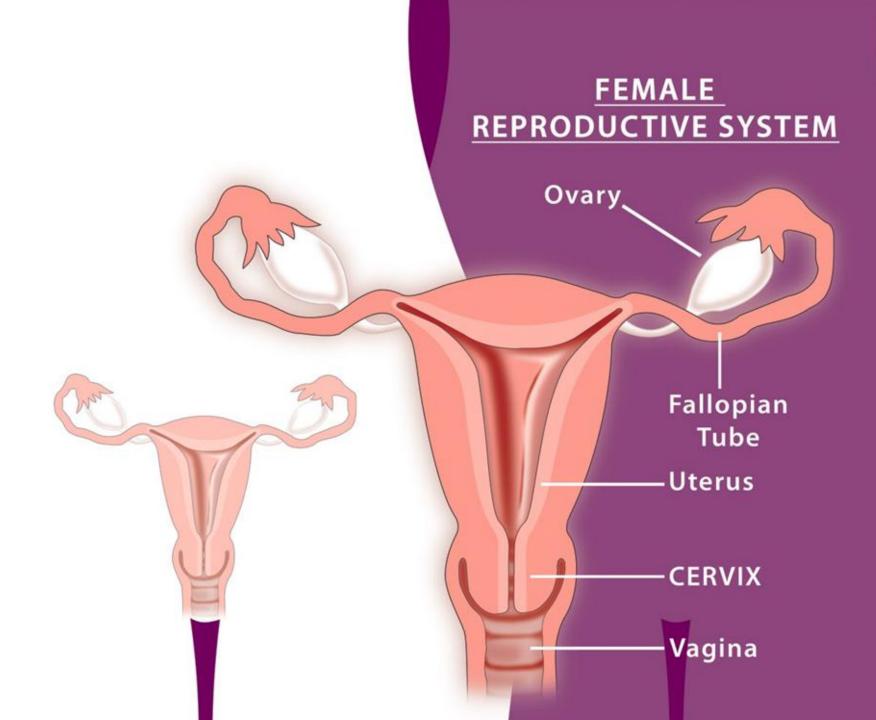
PREVENTION & CONTROL A CARIBBEAN PERSPECTIVE

DR. VIKASH CHATRANI

MBBS, DM (OBGYN), FACOG, F.MAS, FICS Obstetrican, Gynaecologist, Gynae-Oncologist, Minimal Access Surgeon. Director – Barbados Cancer Society

Crystal Clear Waters

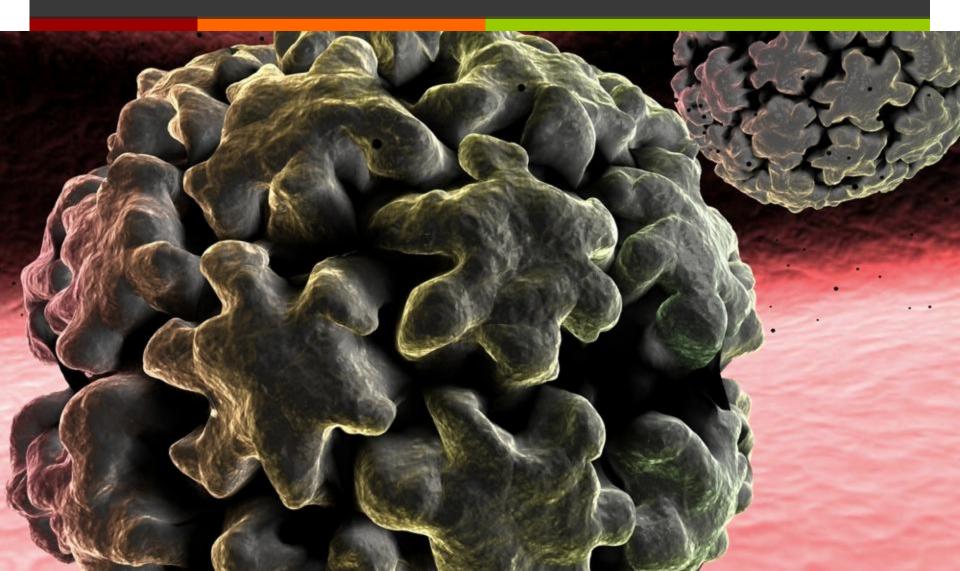


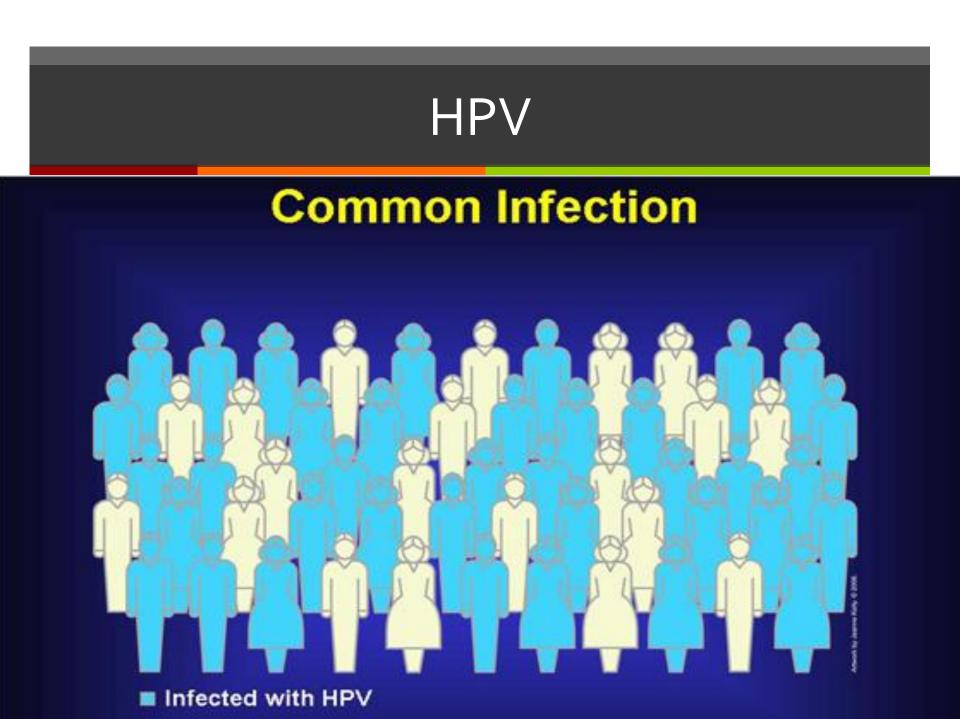


Who gets Cervical Cancer? ALL WONEN

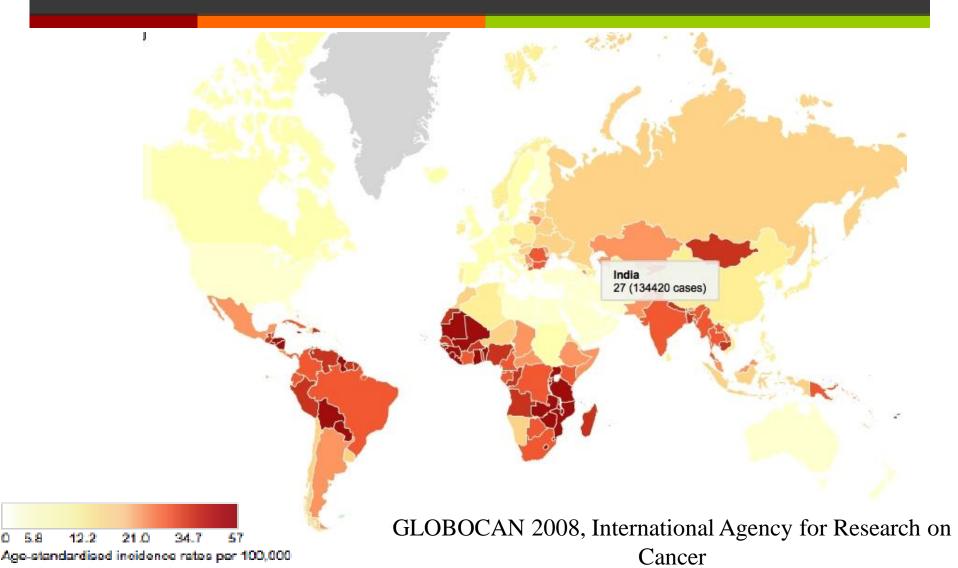
ARE AT RISK

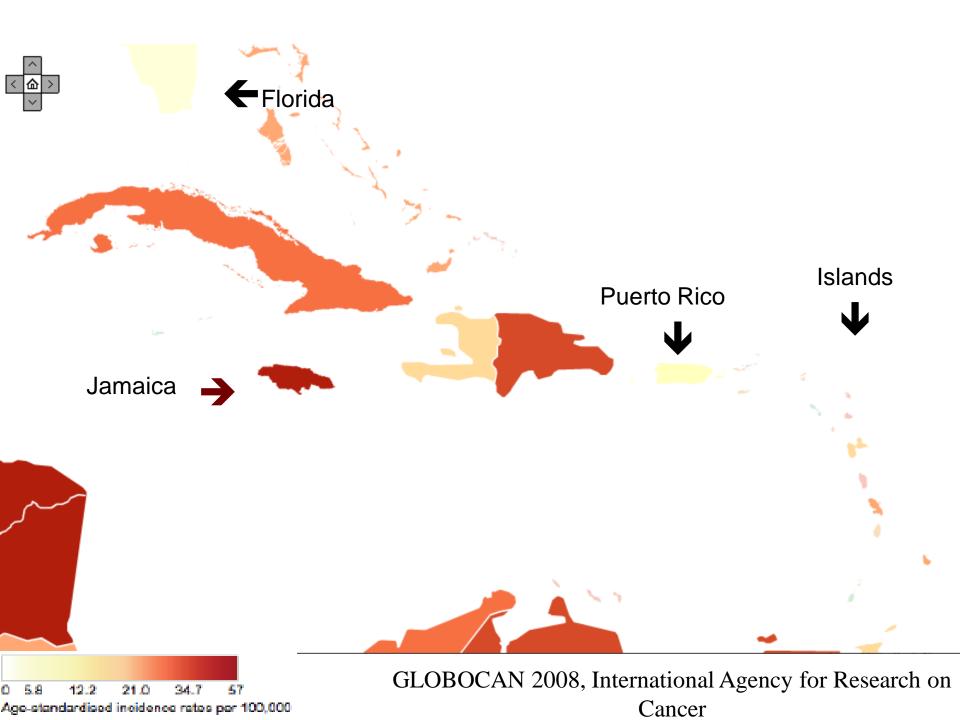
Human Papillomavirus (HPV)

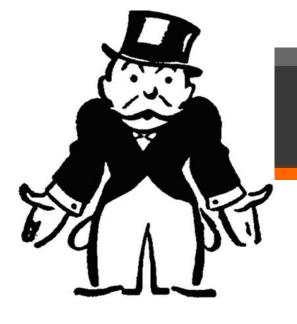




More Common In Developing Countries









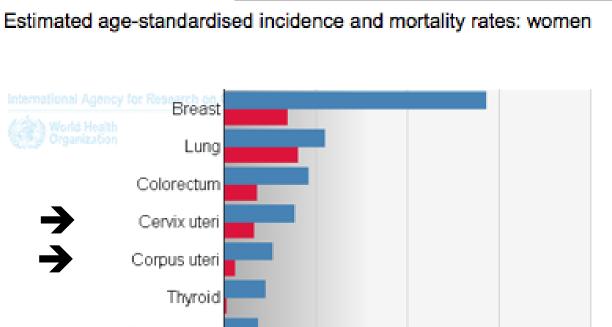
Because of poor access to screening and treatment services, the vast majority of deaths occur in women living in low- and middle-income countries.

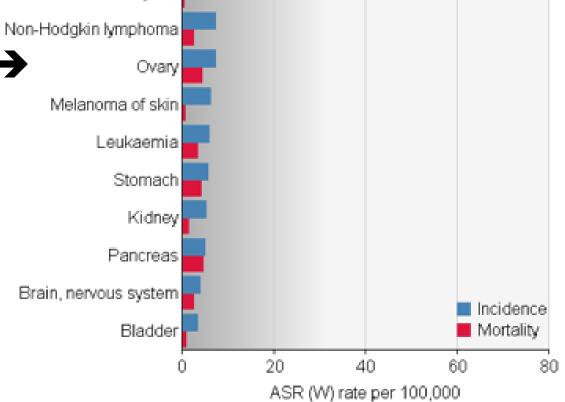


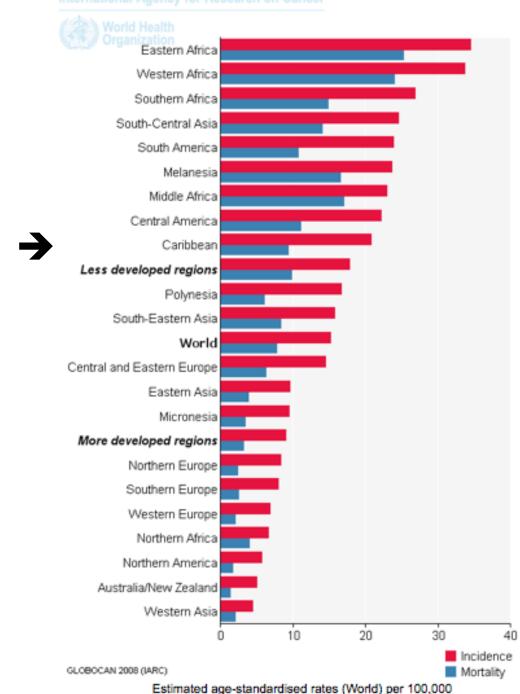
POOR ECONOMICS



Gynaecological Cancers







International Agency for Research on Cancer

PREVENTION



The 3 Levels of Prevention

PRIMARY PREVENTION Girls 9-13 years

HPV vaccination

Girls and boys, as appropriate

- Health information and warnings about tobacco use*
- Sexuality education tailored to age & culture
- Condom promotion/provision for those engaged in sexual activity
- Male circumcision

^f Tobacco use is an additional risk factor for cervical cancer.

SECONDARY PREVENTION

Women >30 years of age

Screening and treatment as needed

- "Screen and treat" with low cost technology VIA followed by cryotherapy
- HPV testing for high risk HPV types (e.g. types 16, 18 and others)

TERTIARY PREVENTION

All women as needed

Treatment of invasive cancer at any age

- Ablative surgery
- Radiotherapy
- Chemotherapy

COMPREHENSIVE CERVICAL CANCER PROGRAMS

COMMUNITY	PRIMARY HEALTH CARE	SECONDARY HEALTH CARE TERCIARY HEALTH CARE
PRIMARY PREVENTION	SCREENING & EARLY DETECTION	DIAGNOSIS, TREATMENT & PALLIATIVE CARE
-Health education -Counselling -HPV VACCINATION	-Screening of women at risk: Pap or HPV or VIA -Screen and treat -Cytology Labs	 -Colposcopy/biopsy -Pathology labs -Cryotherapy/LEEP -Surgery, radiotherapy, chemotherapy -Palliative care

© Dr Tomo Kanda Advisor on Chronic Diseases & Mental Health PAHO Office for Barbados and Eastern Caribbean Countries

PRIMARY PREVENTION Girls 9-13 years

HPV vaccination

Girls and boys, as appropriate

- Health information and warnings about tobacco use*
- Sexuality education tailored to age & culture
- Condom promotion/provision for those engaged in sexual activity
- Male circumcision
- ^f Tobacco use is an additional risk factor for cervical cancer.









HPV Vaccines



Social Conservatives



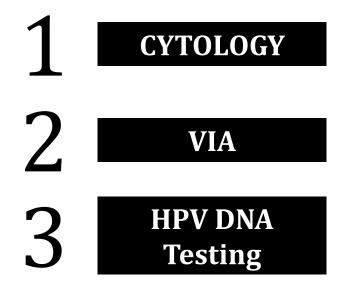
It Doesn't have to Be Like This



SECONDARY PREVENTION Women > 30 years of age Screening and treatment as needed

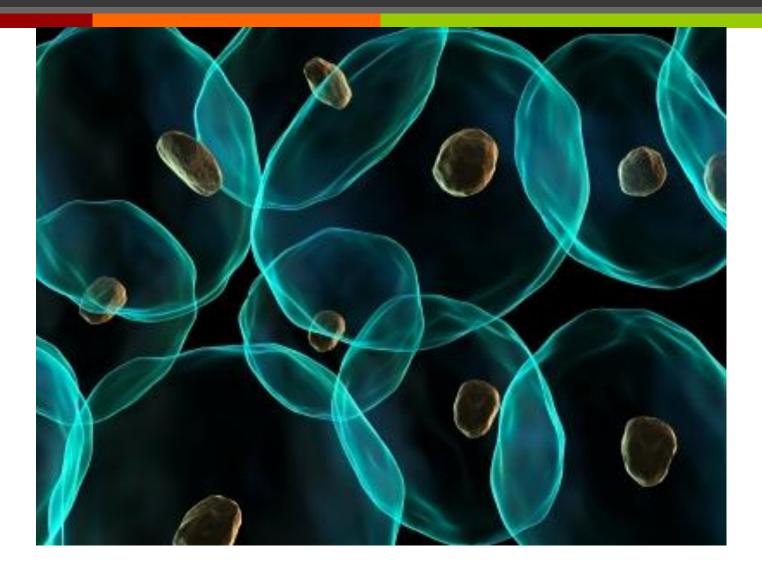
- "Screen and treat" with low cost technology VIA followed by cryotherapy
- HPV testing for high risk HPV types (e.g. types 16, 18 and others)

SECONDARY PREVENTION Screening & Early Detection

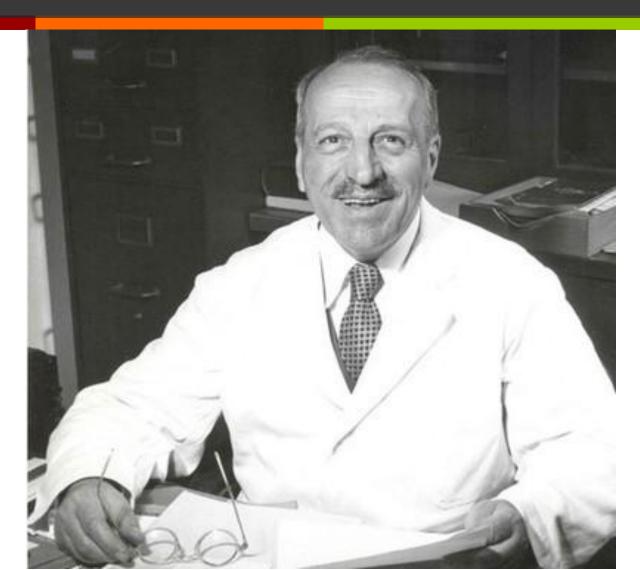


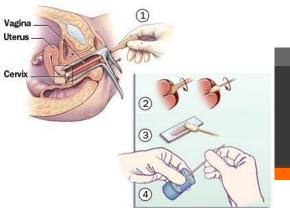
CYTOLOGY – The Study Of Cells

1



George Papanicolaou

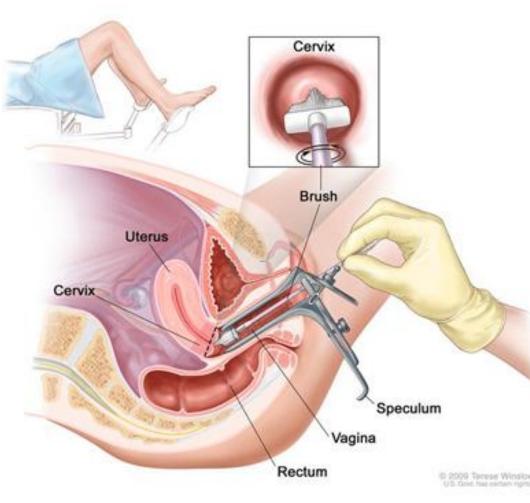




What is a Pap Test?

- Cells are collected from the surface of your cervix by a doctor/nurse
- These cells are then checked under a microscope for any abnormalities
- If abnormal (or *precancerous*) cells are found, they can be treated *before* they turn into cancer
- Cervical cancer can be found in the early stages, when it is easier to treat

Cells are collected from the surface of your cervix by a doctor/nurse/health care provider





These cells are then checked under a microscope for any abnormalities



If abnormal (or *precancerous*) cells are found, they can be treated *before* they turn into cancer

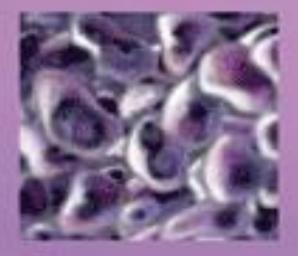
HPV can cause changes in cervical cells over time



Normal cells



Pre-cancer cells



Cancer cells

Colposcopy

MANAN

WALLACH

Normal cervix



Cervical dysplasia







Cancerous or pre-cancerous cervical cells





Cervical biopsy ("punch"): small tissue samples are taken from the cervix and examined for disease or other problems

> Cervix viewed through speculum with patient in lithotomy position

Colposcopy

MANA

1

WALLACH

Screening with Cytology (Pap)

Test limitations





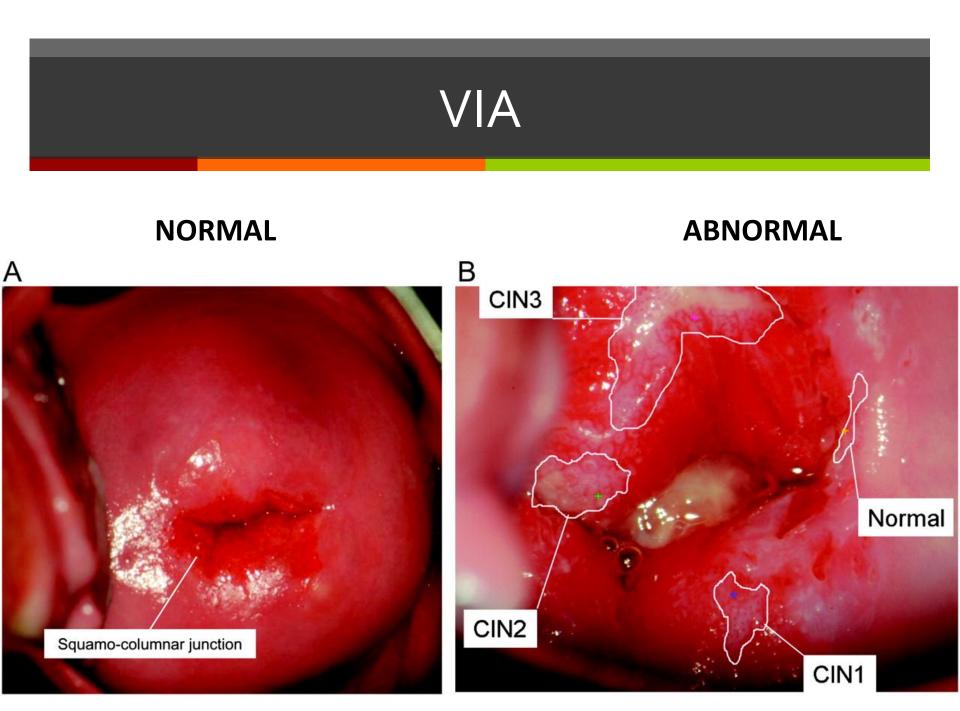
Multiple visits approach

Equipment and personnel requirements



VIA Visual Inspection with Acetic Acid





VIA Visual Inspection with Acetic Acid



Keep Walking

ACETOWHITE AREAS ARE CONSIDERED INDICATIVE OF PRECANCEROUS LESIONS

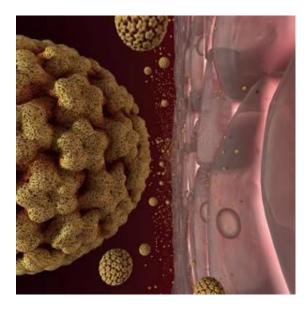
VIA

Visual Inspection with Acetic Acid

- Simple, widely feasible and affordable.
- Minimal infrastructural requirements.
- It can be provided by a wide rage of health professionals.
 - Results are **immediately available**,
 - "SCREEN AND TREAT"

HPV DNA Testing

HPV DNA TESTING



A sample of cells is collected from the cervix or vagina using a small brush or swab and sent to laboratory for processing

DETECTION OF DNA FROM HIGH-RISK HPV TYPES

HPV DNA Testing

Advantages

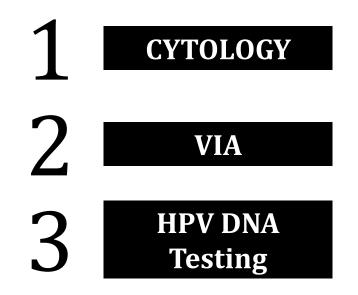
- Samples can be collected by a trained provider or, in the case of vaginal sampling, by the woman herself.
- オ It is not as subjective
- More "upstream" in the carcinogenic process, thus enabling for longer safety margin for screening.
- オ Higher sensitivity than Pap smear
- More effective among women aged 30 years or older

HPV DNA Testing

Limitations

- Expensive requiring laboratory facilities, special equipment, and trained personnel
- Requires follow-up visits for results and treatment.

SECONDARY PREVENTION Screening & Early Detection



COMPREHENSIVE CERVICAL CANCER PROGRAMS

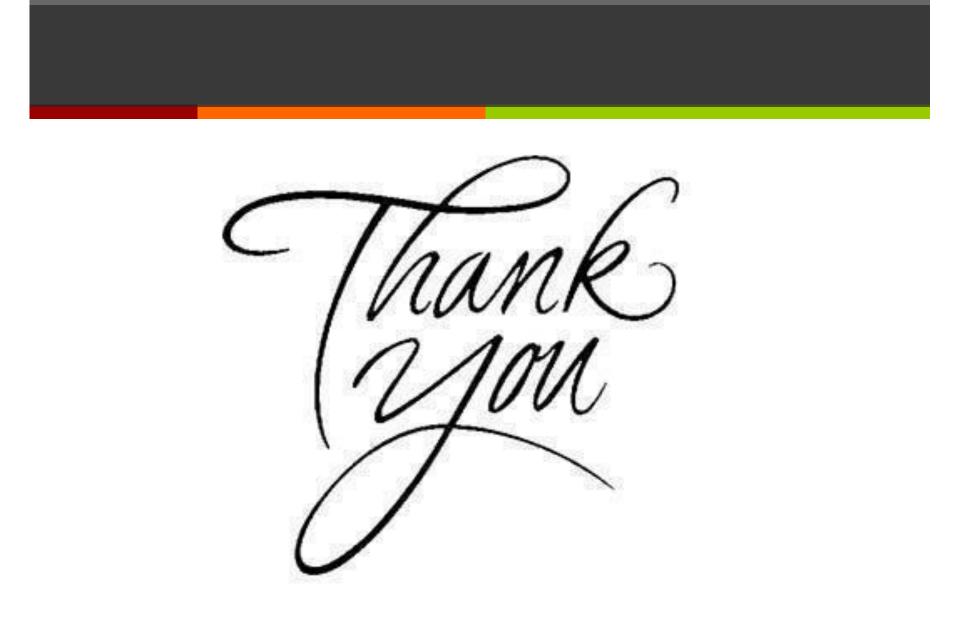
COMMUNITY	PRIMARY HEALTH CARE	SECONDARY HEALTH CARE TERCIARY HEALTH CARE
PRIMARY PREVENTION	SCREENING & EARLY DETECTION	DIAGNOSIS, TREATMENT & PALLIATIVE CARE
-Health education -Counselling -HPV VACCINATION	-Screening of women at risk: Pap or HPV or VIA -Screen and treat -Cytology Labs	 -Colposcopy/biopsy -Pathology labs -Cryotherapy/LEEP -Surgery, radiotherapy, chemotherapy -Palliative care

© Dr Tomo Kanda Advisor on Chronic Diseases & Mental Health PAHO Office for Barbados and Eastern Caribbean Countries

Millenium Development Goals



Implementation of cervical cancer prevention and control programs contributes to the attainment of the Millennium Development Goals through universal access to sexual and reproductive health services to improve women's health



References

- Incidence/mortality data Ferlay J, Shin HR, Bray F, Forman D, Mathers C and Parkin DM. GLOBOCAN 2008 v2.0, Cancer Incidence and Mortality Worldwide: IARC CancerBase No. 10 [Internet]. Lyon, France: International Agency for Research on Cancer; 2010. Available from: http://globocan.iarc.fr, accessed on day/month/year.
- Prevalence Bray F, Ren JS, Masuyer E, Ferlay J. Estimates of global cancer prevalence for 27 sites in the adult population in 2008. Int J Cancer. 2013 Mar 1;132(5):1133-45. doi: 10.1002/ijc.27711. Epub 2012 Jul 26
- Healthy Caribbean 2012 Rallying for Action on NCDs Regional Strategy and Plan of Action for Cervical Cancer presentation by Dr Tomo Kanda
- WHO Library Cataloguing-in-Publication Data. WHO guidance note: comprehensive cervical cancer prevention and control: a healthier future for girls and women.
- Google Image Database

Thank You

