



# Gynecological Malignancies & Breast Cancer Trends 2000 - 2014

**Princess Margaret Hospital  
Nassau, The Bahamas**

**Raleigh Butler MD**



# Gynecological Malignancies & Breast Cancer Trends 2000 - 2014

- **Institutional Data only**
- **Bahamas Breast Initiatives Foundation  
2011-2014**
- **Cancer Registry at PMH**
- **Nothing to Declare**



# Out patient services

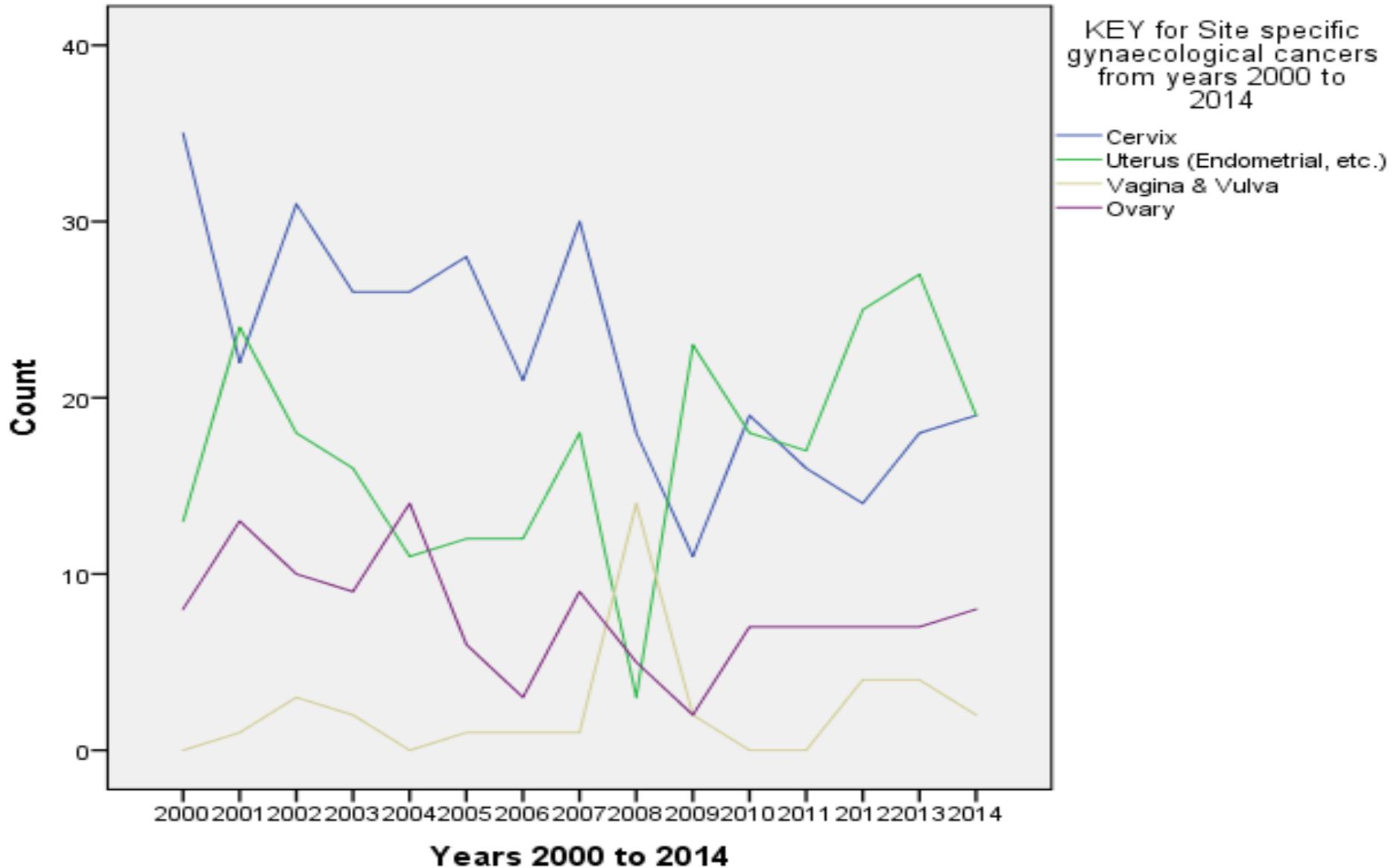


# Out patient services

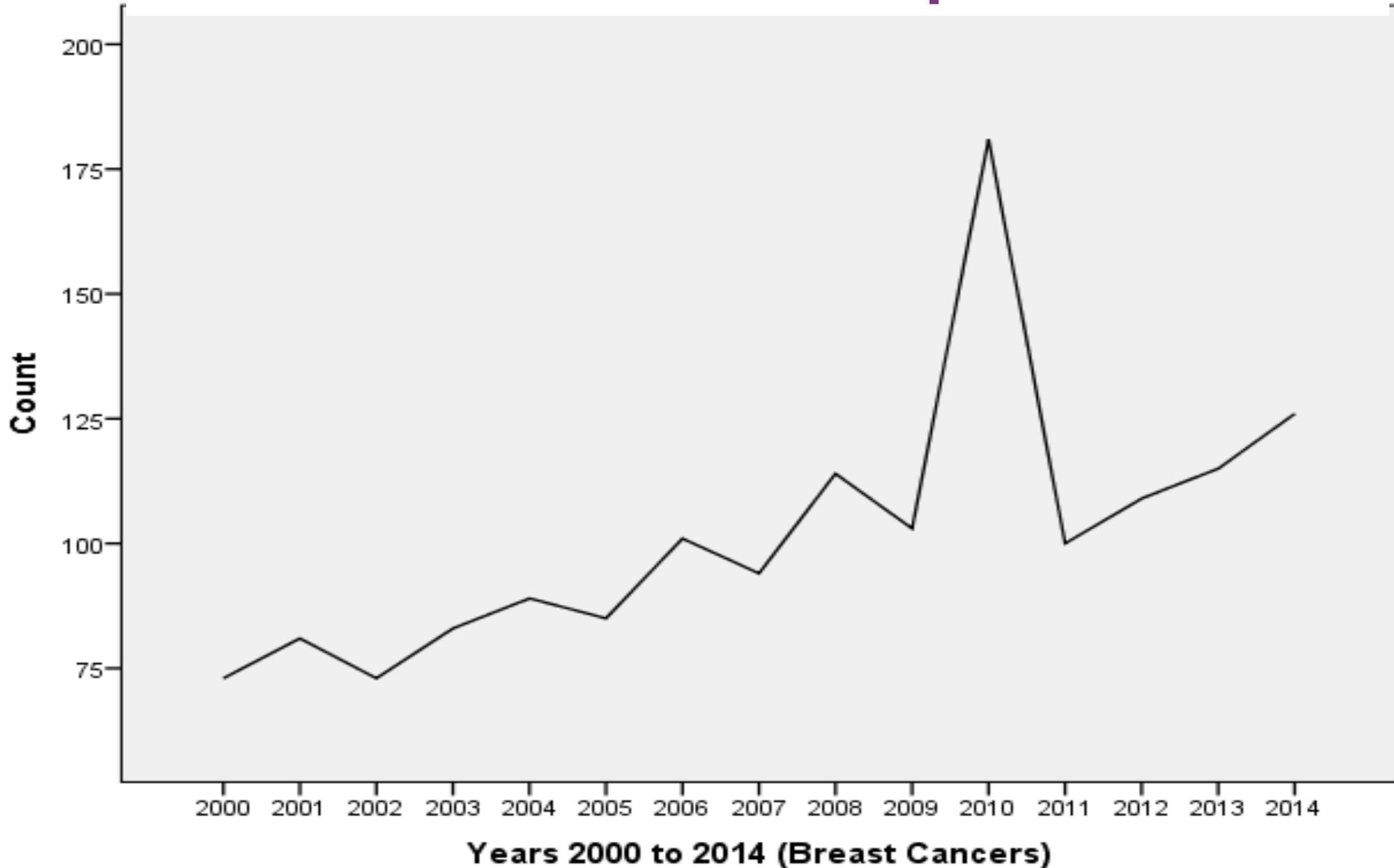
- Gyne Onc Clinic
- Colposcopy Clinic
- Out patient chemotherapy



# Gynecologic Cancer Trends 2000-2014



# Breast Cancer Trends for Years 2000 to 2014



# Gynecologic Malignancy

## Trends

- **Cervix Cancer slight decrease**
- **Uterine Increasing**
- **Vagina and vulva stable**
- **Ovarian Cancer Stable**
- **Breast Cancer increasing slightly**

# Cervix Cancer: The Bahamas

- **<10% screened**
- **48 Yrs. Average Age**
- **48% Diagnosed <50 yrs.**
- **75%  $\geq$  Stage 3 disease**
- **50% of Cervix Ca Deaths <18months**
- **15% Urological and/or GI manifestations**

LOCAL NEWS

# HPV lab opened at hospital to help tackle cervical cancer

THE Princess Margaret Hospital officially opened the public health care system's first Human Papillomavirus testing lab yesterday.

According to health officials, HPV, a sexually transmitted disease, is the main cause of cervical cancer.

Doctors report that cervical cancer is now second only to breast cancer in terms of prevalence among Bahamian women, with many younger women diagnosed with severe forms of pre-cancerous lesions.

This is because many women in the Bahamas are not able to afford the High Risk (HR) HPV test, which costs about \$200.

Health Minister Dr Hubert Minnis said the facility, which will aid in early detection of the disease, will ensure the entire female population is protected.

He said: "Before the introduction of this HPV facility, pap smear was the only tool available to us. Once utilised properly (the test) can prevent cancer of the cervix."

"With early detection we will be able to eradicate it and



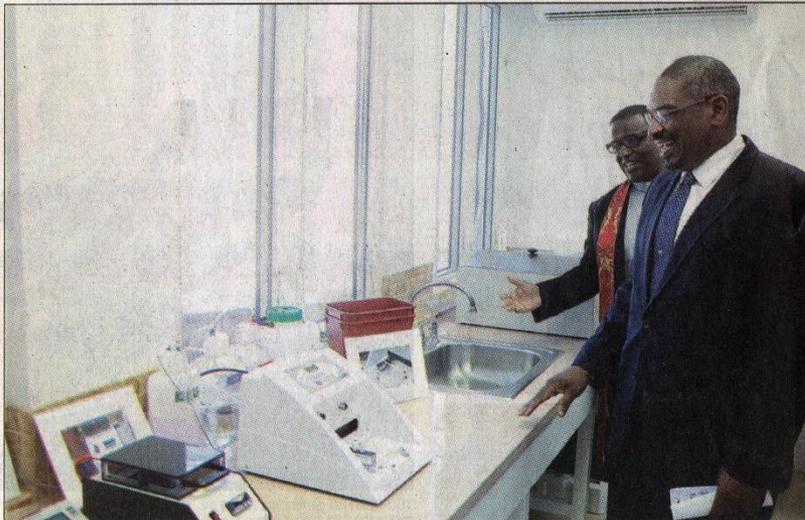
DR HUBERT MINNIS gives a speech at the Princess Margaret Hospital.

save those individuals who are afflicted with this type of illness."

Dr Minnis said it is hoped the HPV vaccine, which is now used by the private health care sector, will be introduced to PMH in the future.

The new facility will provide almost 1,000 Bahamian women a year with a local alternative to the lengthy and expensive testing previously used.

Local and international Rotary Clubs along with various civic and private donors partnered to purchase the equipment and materials to set up the lab.



MINISTER OF HEALTH Dr Hubert Minnis and Fr Sebastian Campbell tour the new HPV Testing Lab yesterday at the Princess Margaret Hospital. Photo: Tim Clarke/Tribune Staff



THE OFFICIAL OPENING OF THE HUMAN PAPILLOMA VIRUS (HPV) LABORATORY OF THE PRINCESS MARGARET HOSPITAL BY THE HON. DR. HUBERT MINNIS MINISTER OF HEALTH 26TH MARCH, 2012

EQUIPMENT DONATED BY:  
 ROTARY CLUBS OF THE BAHAMAS  
 ROTARY INTERNATIONAL  
 ROTARY OF FORT LAUDERDALE SOUTH  
 ROYAL SOCIETY OF ST. GEORGE  
 INSER WHEEL OF EAST NASSAU  
 DEPARTMENT OF OBSTETRICS AND GYNECOLOGY PMH  
 HELVETIC MANAGEMENT SERVICES  
 MARSHFIELD TOURS LIMITED  
 THE ARCHITECTURAL STUDIO  
 ANONYMOUS DONORS



Compliments Dr Stokes

# Colposcopy Expands to SBHC

Updated for: Thursday, May 13, 2010 5:06 PM

## The Tribune

HOME BUSINESS EDITORIAL FEATURES SPORTS MULTIMEDIA WEATHER WORLD NEWS C

### Spanish government donates colposcope to the Bahamas

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*Pictured from left during the presentation are Dr Pearl McMillan, Director, Department of Public Health; Jesus Silva, Spanish Ambassador to The Bahamas; Veronica Rolle, South Beach Clinic Administrator; Dr Darron Hallendale, Registrar, OBGYN Unit, Princess Margaret Hospital; and Charlene Bain, Acting Administrator, Department of Public Health.*

Published On: Tuesday, October 13, 2009

WITH THE donation of a colposcope from the Government of Spain, the Ministry of Health through the South Beach Clinic is now able to assist patients with detection and treatment of cervical cancer.

Spanish Ambassador to The Bahamas, Jesus Silva, formally handed over the colposcope to Dr Pearl McMillan, Director of the Department of Public Health at the South Beach Clinic last Thursday.

The Government of Spain through the Spanish Agency for International Development Cooperation (AECID) has allocated \$250,000 to fund a multi-phase project geared towards early detection and treatment of cervical cancer.

The Government of Spain has committed to donating a colposcope to each of the participating countries.



# Bahamas to introduce cervical cancer vaccine into public healthcare system

CARIBBEAN360 : JULY 9, 2013

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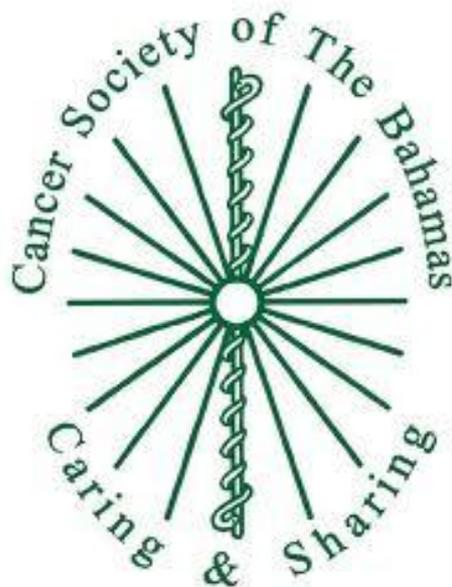


**NASSAU, Bahamas, Tuesday July 9, 2013** – The Bahamas government says it plans to introduce the Human Papilloma Virus (HPV) vaccine into the public healthcare system for females who are most at risk for cervical cancer.

Health Minister Dr Perry M. Gomez said discussions are taking place with the American pharmaceutical company Merck.

Public Health officials say the introduction of the vaccine into the public healthcare system will be a “major triumph” as the vaccine is currently only available within the private healthcare system and is unattainable to tens of thousands of females who are unable to afford private healthcare.

## CANCER SOCIETY OFFERS FREE EXAMS



**The Cancer Society of the Bahamas will offer free Breast/prostate exams and Pap Smears to the general public as part of Cancer Awareness Month 2011.**

Cervical cancer is one of the leading causes of cancer-related deaths in developing countries, including the Bahamas. Since the advent of the Pap test more than 50 years ago, the death rate from cervical cancer has significantly reduced worldwide.

### **Cause**

More than 90% of cases of cervical cancer are caused by the Human Papilloma Virus, a virus that is contracted through exchange of body fluids during sexual intercourse with an infected partner.

### **Risk Factors**

Factors that significantly increase the risk for cervical cancer include multiple sexual partners, sexual activity at a young age, other sexually transmitted infections (HIV, Chlamydia, Gonorrhea, Hepatitis, and Herpes), cigarette smoking, and a weakened immune system as with HIV infection.

# Gynecological Malignancies Age at Diagnosis & Primary Site Report 2000 - 2014

## Breast Cancer Cases

### Primary Site Report 2000 - 2014

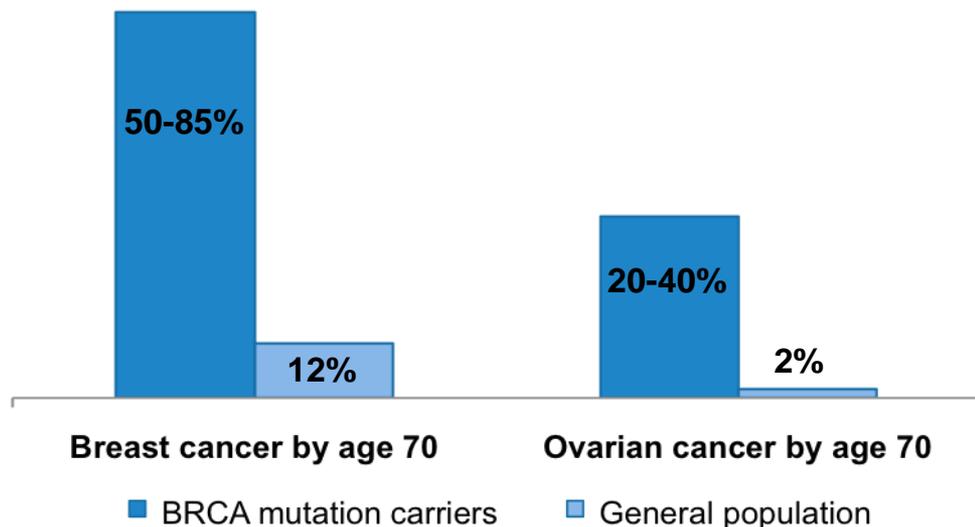
The Bahamas Breast Cancer Initiative Foundation  
BRAC Data – 2011 - 2014

# GENETIC CANCER ASSESSMENT & COUNSELING

- **The Bahamas Breast Cancer Initiative Foundation:**
- **Public Private Partnership.**
- **Genetic testing (saliva sample) & Counseling:**
  - **Breast & Ovarian Ca**
  - **Unaffected relatives: BRCA1 or BRCA2 Mutation.**
- **23-27%: breast cancer with BRCA1 or 2 mutation**
- **BRCA Mutations: Highest in the World**

# BRCA Bahamas

- 23-27% of Bahamian women with breast cancer carry a *BRCA1* or *BRCA2* mutation<sup>1,2</sup>
  - Highest prevalence of *BRCA* mutations in world
- Carrying a *BRCA1/2* mutation causes genetic susceptibility for developing breast and ovarian cancer<sup>3</sup>



<sup>1</sup> Donenberg, Lunn, Curling, Turnquest, Krill-Jackson, Royer, Narod, and Hurley: *Breast Cancer Res Treat* (2011)

<sup>2</sup> Akbari, Donenberg, Lunn, Curling, Turnquest, Zhang, Narod, and Hurley: *Submitted* (2013)

<sup>3</sup> Chen and Parmigiani: *J Clin Oncol* (2007)

# GENETIC CANCER ASSESSMENT & COUNSELING

Patients tested for BRCA gene mutation by the genetic counselor:

**TOTAL TESTED FOR BRCA MUTATION: 1567**

## WOMEN WITH CANCER

○ BREAST CA POSITIVE	109
○ OVARIAN CA POSITIVE	13
○ MUTATIONS IN FAMILY AT RISK	30

## WOMEN WITHOUT CANCER

○ FAMILY HISTORY	612
○ NO FAMILY HISTORY	803

# Breast Cancer: The Bahamas

- **42 Yrs. Average Age**
- **48% Diagnosed <50 yrs**
- **20% < 20yrs age**
- **44%  $\geq$  Stage 3 disease**
- **43% of Breast Ca Deaths <50yrs**
- **23% BRCA Mutation**



# EXPERIENCES & CHALLENGES

- **Late Disease**
- **Cultural**
- **Archipelagic Society**
- **Screening uptake poor**
- **Community Involvement**



# CHALLENGES

- **Money**
- **Manpower**
- **Materials**
- **R& D**
- **Clinical Trials**



# Opportunities



- **Community involvement**
- **Prevention, Vaccines, etc**
- **NHI & Universal Health Care**
- **Palliative Care**

# Radiation

- Historically significant portion of treatments were in Miami
- Radiation Center Bahamas established
- Accredited by the American College of



# The New PMH: 2016



# Gynecologic Oncology Bahamas

- Needed some relief from time to time as a solo practitioner



Professor . Denny DePetrillo



CLOCKWISE: Dr. Theodore Turnquest, Dr. Tracy Roberts, Dr. Wesley Francis, Dr. Corrine Sinqee, Dr. Raleigh Butler, Dr. Margo Munroe, Dr. DuVaughn Curling

*Our Team*



LEFT TO RIGHT: Mrs. Judy Ward-Carter—Cancer Coordinator  
Mrs. Valderine Lewis-Sweeting- DCVRO/Cancer Registrar



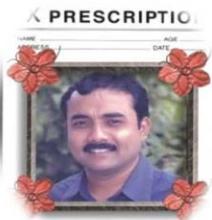
FIRST ROW: NOII Beverley William, R/N Sylvia Novella, R/N Jannah Khalfani  
SECOND ROW: R/N Nakia Smith, R/N Concepcion Ramiez, R/N Vincent Tueres  
THIRD ROW: R/N Marilyn Knowles, TCN Diane Hanna, N/A Jacklyn Bethel



LEFT TO RIGHT: Ms. Jeanette Andrews, Mrs. Brenda Lee Ferguson



Pharmacist  
Tristan Gaime



Pharmacist  
Nagesh Shenoy



Genetic Counselor  
Megan Trotter



Yellowbird Volunteer  
Mrs. Zelia Bethell



# Where We Are Now – Bahamas



February 6, 2015

Dr Raleigh Butler



Dr Darron Halliday



**THANK YOU**

