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# BIPAI

Baylor International  
Pediatric AIDS Initiative



**Texas Children's  
Hospital®**

## Public-Private Partnership in Public Health, Maternal & Child Health

# UPNG School of Medicine and Health Sciences (SMHS)

- 1960 Papuan Medical College established as training center for all cadre of health professionals
- 1967 – First medical students enrolled. The Papuan Medical College became the Faculty of Medicine of UPNG.
- 1990's – UPNG became the School of Medicine and Health Sciences
  - Now with 7 divisions: Public Health, Basic Medical Sciences, Pathology, Clinical Sciences, Dentistry, Health Sciences and Nursing

# UPNG SMHS

- **Objective**

- The SMHS will increase its intake of medical students and other categories of health workers over the next 5 to 10 years while maintaining a high quality learning environment with a special emphasis on preparation for work in rural areas.

- This led to...

# Comprehensive Needs Assessment

- Multiple site visits – assess care, Medical School needs
- Identify gaps in Maternal/Child Health and Public Health
- Basis for multi-year Public-Private Partnership with UPNG and NDoH

# Public Private Partnership

- Memorandum of Agreement signed Oct, 2013
  - Baylor College of Medicine-Texas Children's hospital (BCM-TCH)
  - The PNG National Department of Health
  - The University of Papua New Guinea (UPNG)
  - 5 year MOA
  - Personnel on ground November, 2013
- Funding for PPP provided by ExxonMobil PNG (EMPNG) for 3 years



# Goals of PPP

- **Strengthen 3 core areas:**
  - **Public Health**
  - **Maternal Health**
  - **Paediatrics**
- **Improve clinical care at Port Moresby General Hospital**
- **Fund a PNG learner for an MPH program at the University of Texas**
- **Provide lectures for medical students and residents**
- **Assistance in research programs**
- **M&E framework developed to capture pertinent data in teaching, training, improved care outcomes**

# Strengthen Public Health

- ❑ One Baylor Faculty Public Health specialist seconded as long-term full time faculty member to UPNG
- ❑ Increased the number of faculty from 3 to 4 at the time

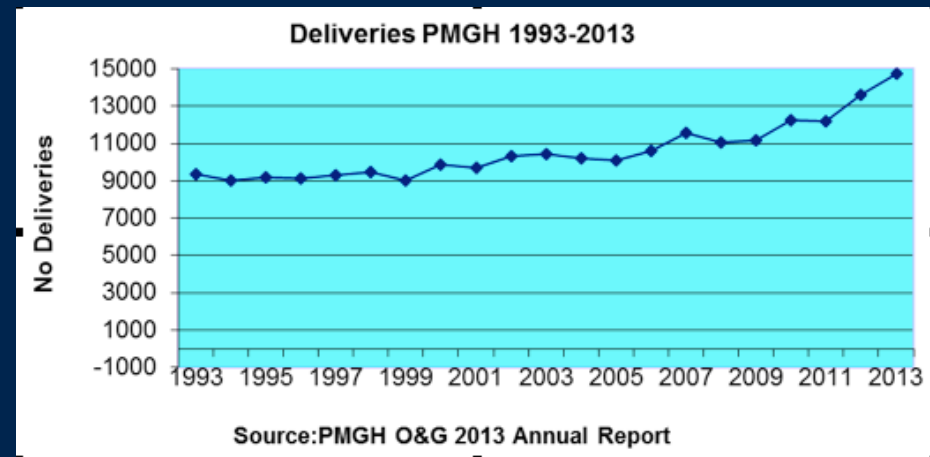
# Role of Public Health Specialist

- ❑ Develop and teach core public health courses in Epidemiology and Biostatistics
- ❑ Research Mentorship of student projects at both undergraduate and postgraduate levels as well as short term training workshops
- ❑ Assist with the review of the medical school's curriculum for Public Health.
  - ❑ Incorporating additional measurements for academic progression



# Strengthen Maternal Health – Background PNG

- Maternal Mortality ratio
  - 79 per 100,000 live births
    - PNG data 2012
  - 733 per 100,000 live births
    - WHO data



Port Moresby General Hospital Division of Obstetrics and Gynaecology. Annual Report, 2013

# Strengthen Maternal Health – Background UPNG SMHS

- Mid-range goals (2-3 years)
  - Train 60 MBBS students each year in Reproductive Health, Obstetrics and Gynecology
  - Train 6-8 DGO candidates each year, and graduate 3-5 MMed (O&G) candidates each year

\* “Implementing the Strategic Plan of the School of Medicine and Health Sciences – Master Implementation PLAN 2015”

# Strengthen Maternal Health

- ❑ Provide one Maternal Health specialist as long-term full time faculty member to UPNG
- ❑ Teaching at UPNG SMHS
- ❑ Clinical care at PMGH

# Strengthen Child Health - Background PNG & UPNG

- The ideal # of paediatricians as per national health plan
  - Total paediatricians needed = 60
  - Current active clinical workforce = 31
  - PMGH = 8 (currently 5)
  - UPNG = 4 (currently 3 with Baylor-Texas Childrens Paediatrician)
- Shortfall = 23
- Maximum increase up to 2018 = 14
  - Predicted shortfall = between 9-17

# Strengthen Child Health

- ❑ One Baylor Paediatric specialist seconded as long-term full time faculty member to UPNG
- ❑ Increases the number of faculty from 3 to 4

# Role of Paediatric Specialist

- ❑ Provide academic and clinical training in child health to medical students and post-graduate students
- ❑ Clinical support as Senior Medical Officer to PMGH
  - ❑ General Paediatrics
  - ❑ Tuberculosis
  - ❑ HIV
  - ❑ Malnutrition
- ❑ Research mentorship of post-graduate students
- ❑ Assist with the review of the medical school's curriculum for Child Health
- ❑ Outreach support to Tari Hospital in collaboration with NDoH and UNICEF

# Progress of Program

## Education

- >120 lectures given
- >55 research projects mentored
- Training to >200 healthcare workers

## Outreach

- Tari Hospital

# Clinical Outcomes – From M&



11.5	11.5	32.7
15.2	9.1	27.3



Malnutrition either directly caused or contributed to 36% of all deaths (\*PHR 2



# Strong partnership to support existing programs

- NDoH
- UNICEF
- WHO
- DFAT
- World Vision
- Provincial and District Health (Hela Province)
- US Embassy
- And many others

# UPNG SMHS – looking ahead

- Need for increased capacity of health workforce in PNG is acute
- Government and development partners will play a vital role
- Infrastructure development vital
- SMHS must increase its intake of medical students and other categories of health workers over next 10 years, with special emphasis on rural and provincial parts of the country
- PPP can support this vision

# Future Vision of the PPP

- Long term faculty support to boost *ability* to increase the number of next generation of Faculty, available to teaching hospitals and Public Health Professionals
- Improve clinical care to maternal and child health
- MPH Scholarship: PNG public health learner will be supported for a two-year MPH program at the University of Texas School of Public Health – Houston, TX
- Additional capacity building programs currently in process (Infectious Disease Training and grants)
  - Other funding sources being sought, program expansion?

# Acknowledgements

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THANK YOU



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