MEDICAL EDUCATION AND ACCREDITATION STATUS IN PAPUA NEW GUINEA

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2013 PNG ESTIMATES

- PNG Total Population 7,200,000
- PNG Total Male Population 3,700,000
- PNG Total Female Population 3,500,000
- PNG there are nearly 200,000 more male
- We have increased our population by 38.0% between 1990 and 2000 (increased by 1,428,832)
- We are doubling our population in 26 years
- Annual growth rate 2.7%
PNG HEALTH CHALLENGES
Their lives are hard ..........
Women in PNG have 5-6 kids each
HEALTH CHALLENGES
PNG Health Workforce Crisis:
A Call to Action

October 2011

THE WORLD BANK

A CALL FOR ACTION
Rural Health Services

PNG HEALTH CHALLENGES
## Human Resource

<table>
<thead>
<tr>
<th></th>
<th>Province Total</th>
<th>(Rural Staff-Part of total)</th>
<th>Per Capita TP</th>
<th>Per Capita RP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Doctors</td>
<td>800</td>
<td>150</td>
<td>9,000</td>
<td>45,000</td>
</tr>
<tr>
<td>Dentist</td>
<td>80</td>
<td></td>
<td>90,000</td>
<td>90,000</td>
</tr>
<tr>
<td>Health Extension Officers</td>
<td>233</td>
<td>193</td>
<td>26,000</td>
<td>30,000</td>
</tr>
<tr>
<td>Nursing Officers</td>
<td>2920</td>
<td>1463</td>
<td>2,465</td>
<td>3,000</td>
</tr>
<tr>
<td>Community Health Workers</td>
<td>3926</td>
<td>2603</td>
<td>1,833</td>
<td>1,700</td>
</tr>
<tr>
<td>Lab technicians</td>
<td>256</td>
<td>129</td>
<td>28,125</td>
<td>34,000</td>
</tr>
</tbody>
</table>

TP=Total Population (7.2 Million)
RP=Rural Population (87% of Total Population)
The University of Papua New Guinea’s School of Medicine and Health Sciences (SMHS) is a significant contributor to the health workforce needs and health knowledge of the country and thus the overall health improvements of the country’s population, especially the rural poor and the urban disadvantaged. It also has great potential to contribute to new knowledge and innovative practice through its research activities. In an environment of a depleted health workforce and increasing demand to meet more complex health needs in Papua New Guinea, the SMHS is a vital and key respondent to these challenges.
School of Medicine & Health Sciences
VISION
To be the premier medical and services training institution in the South Pacific Region, equipping future leaders in health services with the knowledge, skills and attitudes to meet the health needs of the nation’s rural and urban communities.

MISSION
To provide a comprehensive and caring learning environment that encourages student growth in knowledge, expertise and ethical practice relevant to the building of a healthy and robust society.

OBJECTIVES
To meet the increasing health needs in Papua New Guinea, the SMHS will increase its intake of medical students and all other health worker categories over the next 5 and 10 years, while maintaining a high-quality learning environment, and a special emphasis on preparation for work in rural areas.
Programs currently offered

Undergraduate

1. Bachelor of Medicine and Bachelor of Surgery
2. Bachelor of Dental Surgery
3. Bachelor of Oral Health
4. Bachelor of Pharmacy
5. Bachelor of Medical Laboratory Sciences
6. Bachelor of Medical Imaging Science
7. Bachelor of Clinical Nursing – Midwifery
8. Bachelor of Clinical Nursing – Paediatrics
9. Bachelor of Clinical Nursing – Acute care
10. Bachelor of Clinical Nursing – Mental Health
11. Bachelor of Clinical Nursing – Administration & Education
12. Diploma in Anaesthetic Science
13. Diploma in Dental Technology
14. Diploma in Public Health
Postgraduate

1. Master of Medicine (internal medicine)
2. Master of Medicine (child health)
3. Master of Medicine (surgery)
4. Master of Medicine (obstetrics & gynaecology)
5. Master of Medicine (anaesthesiology)
6. Master of Medicine (emergency medicine)
7. Master of Medicine (pathology)
8. Master of Medicine (ophthalmology)
9. Master of Medicine (otorhinolaryngology)
10. Master of Medicine (medical imaging)
11. Master of Medicine (psychiatry)
12. Master of Medicine (dermatology)
13. Master of Medicine (rural health)
14. Master of Medical Sciences
15. Master of Dental Surgery
16. Master of Public Health
17. Higher Postgraduate Diploma (surgical sub-specialties)
18. MD, PhD
Length of Medical Education

- Length of Medical Education to be a licensed physician:
  - undergraduate 7 years
  - postgraduate 4-6 years

- Graduate 40 MBBS students each year

- Internship/residency requirements – 2 years and 80 RMOs each year

- Specialty training after initial post-graduate training – 4 years and 2 years super specialties – 150 candidates
• Undergraduate program
• Coordinated by School Medical Education Unit
• PBL Curriculum based on the “Newcastle Model”
• 50 new enrollments each year
• Total 220 Medical students
• Graduate 40 - 45 students each year
Comprehensive guide to University policy, procedure, process and codes of good practice for assessment in course work programmes.
INTERNAL - SELF ASSESSMENT

- Set against Universities Quality Assessment Standards
- Educational Programme & Programme Evaluation
- Institutional Context
- Governance and Management
- Existing Quality Assurance System
- Strengths and Weakness
- Resources and Facilities
EXTERNAL AUDIT ASSESSMENT

DR JEANETTE Baird - Office of Higher Education (OHE)
UPNG Academic Audit
External Quality Assessment

- National Higher Education Quality Assurance and Accreditation Committee
- Commission for Higher Education
- External Panel drawn from the Register of international experts
- Site visit
Governing Authority on Professional Standards

**National Department of Health**
- Quality assurance of health curriculums
- National Health Training Standards.
- Country’s health priority needs

**PNG Medical Board**
- Regulatory Powers
- Inspection
- Registration
- Licence
Medical Education Accreditation

• Mandatory or non-mandatory - voluntary
• Accreditation body – 2004, used WFME guidelines
• Interval and external accreditation
• Domestic and international validity of accreditation
• Relevance to WHO Guidelines for Quality Assurance of Basic Medical education in the Western Pacific Region, and WFME’s Global Standards for Quality Improvement in Medical Education
Future Plan

• Need for an Independent Regulated and compulsory accreditation system for Medical Education.
• Improve Medical Education to meet international standards
• Improve international institutional partnerships
• Achieve a better collaboration with other accreditation bodies and different branches dealing with medical education in PNG
• Improve on CME
• Increase Manpower
• PNG should open a second medical school
THANK YOU!

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MEDICAL BOARD OF PAPUA NEW GUINEA

SETS STANDARDS FOR

• Clinical practice and ethical Conduct
• Training programme leading to registration
• Assessment of health professional prior to practice in PNG.
• Issue licences
Undergraduate MB BS Program

7 YEAR PROGRAM

1st year (SFY)
- School of Natural & Physical Sciences
  Basic Sciences (SFY)

2nd year - 5th Year
School of Medicine & Health Sciences

6th – 7th Year
Residency training program
MISSION OF THE SCHOOL

To provide a comprehensive and caring learning environment that encourages student growth on knowledge, expertise and ethical practice relevant to building a healthy and robust society.
GOAL OF THE SCHOOL

Contribute to meeting the increasing health needs of Papua New Guinea

OBJECTIVE OF THE SCHOOL

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

The 5 “clusters” of personal qualities, skills and Understanding representing the Domains of the curriculum. Learning and assessment organised around these Domains which continue from Year 2 to Year 5.
MBBS Year 2

Domain 1 – Community Medicine
Domain 2 – Individual Medicine
Domain 3 – Professional & Personal Qualities and Skills
Domain 4 – Critical Analysis and information management
Domain 5 – Life Long Learning & Teaching Skills
Elective Contract and Report
Domains

- **Domain 1** - all aspects of Public Health
- **Domain 2** – knowledge and theory component of all learning in the course. Includes all written assessments or vivas that test knowledge. Carries the greatest weight in all years.
- **Domain 3** – includes professional skills (competency in clinical assessment and procedural tasks etc), communication skills, ethics etc.
- **Domain 4** – Includes informatics, critical analysis of important and topical issues and critical analysis of evidence i.e. evidence based learning.
- **Domain 5** – Assessment of self learning. Mostly assessed by elective activities, however remedial learning to make up for deficiencies and oral viva assessments following Group Task assessments also contribute in Year 2 and Year 3.

**Academic Requirements**
The results of assessments in each trimester are reviewed by the year 2 committee.

**Academic Progression**
Students must be “satisfactory” in all domains to progress to Year 3. However, in accord with UPNG policy and criteria for progression, a student with a low GPA may be deemed to have failed the year.
MBBS Year 3

Domain 1 - Community Medicine
Domain 2 – Individual Medicine
Domain 3 – Professional & Personal Qualities and Skills
Domain 4 – Critical Analysis and Information Management
Domain 5 – Life long learning & teaching Skills Elective Contract and Report

ACADEMIC REQUIREMENTS
The results of assessments in each trimester are reviewed by the Year 3 committee.

ACADEMIC PROGRESSION
Students must be “satisfactory” in all domains to progress to year 4.
MBBS Year 4

Domain 1 – Community Medicine

Domain 2 – Individual Medicine (Prevention, Diagnosis & Management of Diseases)

Domain 3 – Professional & Personal Qualities And Skills (Professional Skills)
  * Certification (A certification booklet is provided)
  * Clinical Assessment
  * Case Write – Up

Domain 4 – Critical Analysis And Information Management

Domain 5 – Life Long Learning & Teaching Skills
  * Elective Contract and Report
  * Contract must be signed by the supervisor and approved by the Chair of Domain 5.
Attendance and participation

• Year 4 and year 5 of the MB BS curriculum prepare students for the responsibilities of their clinical residency.
• Attend all scheduled activities
• Participate fully in the clinical work of the units.
• Attend all P&C tutorials
• Attendance at tutorials and other teaching sessions are audited

ACADEMIC REQUIREMENTS
A record of academic requirements is kept and students are informed of any new requirements after Year 4 meeting.

ACADEMIC PROGRESSION
Students must be “satisfactory” in all domains and all attachments to progress to year 5.
A student with a low GPA may be deemed to have failed the year.
Domain 1 – Community Medicine
* Rural Health comprises one attachment in year 5, with individual and group activities contributing to the overall mark.

Domain 2 – Individual Medicine
Assessment is by written papers; these maybe in the format of:
MEQ (Modified Essay Question)
SAQ (Short Answer Question)
OSCA (Objective Structured Clinical Assessment)
Domain 3 – Professional & Personal Qualities and Skills

Certification
• Certification Booklet for PMGH based attachment
• An additional booklet for Urban Clinic rotations in MCUH.

Clinical Assessment
Case Write – Up during each attachment

Domain 4 – Critical Analysis And Information Management

Domain 5 – Life Long Learning & Teaching Skills
• Elective Contract and Report
• Each student must submit an elective contract signed by the supervisor and approved by the Chair of Domain 5.
• The overall Domain 5 mark and grade is a composite of the components of the elective.
Resident Medical Officer Training

• Minimum 2 years
• Do Clinical Rotation Blocks in different disciplines in Regional and Provincial Hospitals
• Must satisfactorily complete all clinical requirements in the RMO Registration Book.
• Clinical Heads sign all completed clinical blocks including overall code of practice and code of ethics assessment report.
• Report and registration book screened by RMO Pre Registration Committee of the PNG Medical Board
• PNG Medical Board approves Registration and Licensing of Medical Officer
Length of Medical Education

- Length of Medical Education to be a licensed physician - undergraduate 7 years & postgraduate 4-6 years)
- Graduate 40 MBBS students each year
- Internship/residency requirements – 2 years and 80 RMOs each year
- Specialty training after initial post-graduate training – 4 years and 2 years super specialties – 150 candidates listed in postgraduate programmes in 2013
Teaching Hospital
INTERNAL - SELF ASSESSMENT

- Set against Universities Quality Assessment Standards
- Background
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- Resources and Facilities
- Conclusion
PORT MORESBY GENERAL HOSPITAL