Michele Rumsey	WHO.	Collaborating	Centre.	University	of Te	chnology	Sydney

Reviewing and Development of the National Curricula for Diploma of Nursing and Certificate for Community Health Workers Framework.

May 2021

Technical Report Regulation and Education Review and Recommendations

October 2016 - February 2021

Michele Rumsey WHO Collaborating Centre, University of Technology Sydney

CONTENTS

ACRONYMS
EXECUTIVE SUMMARY
SITUATION ANALYSIS
KRA 1 – STREAMLINE REGISTRATION10
KRA 2 - STRENGTHENING NURSING COUNCIL SYSTEMS11
KRA 3 - GOVERNANCE COMMITTEE RESPONSIBILITIES12
KRA 4 - STANDARDS13
KRA 5- ACCREDIATION15
KRA 6- PARTNERSHIPS17
KRA 7 LESSONS LEARNT18
CHALLENGES19
STRAEGIC PRIORITIES21
ANNEXES ERROR! BOOKMARK NOT DEFINED
ANNEX 1– WHO STATE OF THE WORLD'S NURSING REPORT – 2020 – PNG COUNTRY PROFILE 22
ANNEX 2- PNG NURSING COUNCIL HEALTH WORKFORCE ISSUES PAPER23
Table 1: Composition and Growth of the Public Sector Health Workforce 1988–2009 26
Table 2: New Registered graduate nurses and overseas nurses27
Table 3: Newly registered midwives29
ANNEX A: NURSING, MIDWIFERY AND COMMUNITY HEALTH WORKER INSTITUTES33
Table 4: Institutes and accreditation status providing nursing and midwifery updated 2021 33
Table 5: Community Health Worker Institutes34
ANNEX B: IMPROVING PNG MATERNAL AND CHILD HEALTH EDUCATION – 10 YEARS35
ANNEX C: PNG NURSING COUNCIL'S ROLE IN ACCREDITING EDUCATIONAL INSTITUTES - INCLUDING AUDITS AND RECOMMENDATIONS FROM CHW AND NURSING PRINCIPALS' MEETING
ANNEX D: PNG NURSING COUNCIL REGISTRATION PROCESSES38

ANNEX E: PNG NC Registered Comparison HCRPS 2012 and 2014-2016 ATP Registration re	
Table 5. Comparison of current practicing PNG NC registrants against old HCRP data by P	
Table 6. Practising registrants PNG Nursing Council by Province and Hospital	40
ANNEX 3: COVID ADVICE COMMONWEALTH CHIEF NURSING AND MIDWIFERY OFFICER INFORMATION	41
ANNEX 4: PNG NURSING COUNCIL HEALTH WORKFORCE COVID ISSUES BRIEF	43
ANNEX 5: BASIC PSYCHOSOCIAL SKILLS ONLINE TRAINING	45
ANNEX 6 – COORDINATION AND COLLABORATION	46
REFERENCES	51
References for grounds up approach following partnership principles	52

ACRONYMS

CHW	Community Health Worker
CPD	Continuing Professional Development
DFAT	Department of Foreign Affairs and Trade
DHERST	Department of Higher Education Research Science and Technology
NDoH	National Department of Health
NGO	Non-government organisation
PNG	Papua New Guinea
PNG NC	Papua New Guinea Nursing Council
SOWN	State of World's Nursing
UOG	University of Goroka
UPNG	University of Papua New Guinea
WHO	World Health Organization
WHO CC UTS	WHO Collaborating Centre at the University of Technology Sydney

EXECUTIVE SUMMARY

Nursing and community health workers (CHWs) are the largest cadre of the health workforce in Papua New Guinea (PNG) (WHO 2020). The recently released World Health Organization (WHO) State of World's Nursing (SOWN) Report PNG Country profile (Annex 2) shows nurses, midwives and CHWs are 72% of the country's health workforce, which is 75% female. The report highlights the significant shortage of nurses, estimating a shortfall of 20,000 – 30,000 by 2030, only 10 years away.

We know there is a 28% shortage of nursing educators in PNG⁷⁻¹³ with only 50% holding an education qualification, resulting in low quality graduates and leading to a health workforce under pressure. In addition there are few opportunities for continuing professional development for health workers. Recently there has been significant increase in Schools of Nursing (SON) with the goal to have one in each province that has resulted in an increase of Schools over the last 6 years from 8 to 17. There are 14 are carrying out a Diploma in General Nursing (DGN), 1 carrying out bachelor-level program, and 2 carrying post-registration programs (at University of Goroka (UOG) and University of Papua New Guinea (UPNG). A further 3 are trying to get accredited. Following the World Bank (2011) report, The PNG National Department of Health (NDOH) has suggested a school should be located in every Province. Although an increase in numbers of nursing students has being achieved in recent years, the PNG Nursing Council accreditation audit review¹⁰ has significant concerns about the quality of graduates from Schools using the outdated and old curricula (late 1990s)and with a significant shortage of skilled and qualified educators. With new schools proposed the already stretched educational system for nurses and CHW will continue to weaken without urgent action.

Investment in health system improvement in Papua New Guinea has led to many projects being undertaken since 2011 focussing on health education, governance, service delivery and infrastructure. This report builds on the results of a major project conducted in partnership with the NDoH, WHO PNG Office and Department of Foreign Affairs and Trade Australia (DFAT) (2012-2017) which integrated work to address the four areas affecting the health workforce: governance, education, association and regulation. All of these projects aligned with each other and grew out of previous work undertaken such as the Ministerial Taskforce on Maternal Health Papua New Guinea 2009 and DFAT Nursing and CHW Educational Diagnostic Audits across PNG in 2012 with over 1,200 stakeholders.

For a full summary of these health projects please see https://www.uts.edu.au/research-and-teaching/our-research/who-collaborating-centre/what-we-do/3.-regulation-and-education/integrating-health-projects-papua-new-guinea

This technical report outlines the key result areas (KRAs) 1-7 achievements and challenges of regulation within NDOH over the last 6 years. Significant headway has been made in regulation, accreditation, standards and data, and many links have been provided to show case some of that work. Attached below are some summary points from this technical report. The SOWN country profile (Annex 2) and human resources for health and regulation issues paper Annex 2, further provide a comprehensive picture of current nursing and midwifery regulation data in PNG.

Summary points:

- Of the PNG health workforce, nurses, midwives and CHWs are the main component of 71% of registered practitioners, followed by allied health 12%, dental 1%, medical practitioners 12%, medical specialists 0.5%, health extension officers 3.5% (Annex 2);
- Nursing and CHW Curriculums do not follow National Health Standards 2011-2020 and need urgent review;
- Nurses and midwives in PNG total around 5,500, CHWs around 4,500 which is well below the WHO baseline benchmark of 23 per 10,000 population (which would equate at = 20,171 health workforce of nurses, midwives and doctors in PNG (Annex 2);
- These figures concur with the WHO SOWN Report 2020 that states that between 20,000 30,000 nurses are needed by 2030 (Annex 2);
- Only 75% educational institutes met the NDOH staff ceiling stated in PNG NC 2017 ⁸ review;

- In 2017 before the significant increase in institutes there was a shortfall of around 38 educators in PNG:
- There are no masters programs for nursing in PNG and only 28% of educators have a master's level qualification;
- Only 60% of educators have any educational qualification;
- Student attrition rate is very high in some institutes suggesting poor quality education.

Achievements

- Regulations systems and process and been significantly improved and strengthened with majority of policies, forms, reports now available on NDOH web site.
- Strengthening of regulatory procedures, accreditation, communication strategy, policies, standards, documentation archiving (50 years) and committee structures has occurred;
- Accreditation of old and new nursing and midwifery institutes has been carried out;
- Registration fees have been increased and renewal changed to every other year with PNG Nursing Council (PNG NC) finances strengthened from 2PGK 10,000 to over 300,000 PGK;
- License renewal process streamlined 3,758 in 2012, has doubled to **6,271** 2015, and is now back to 5,000:
- Stakeholder review of Health Practitioner Bill (HPB) completed;
- Committees and processes and reliance have received professional acknowledgment:
- Significant registrar leadership and support achieved;
- Graduates receive provisional registration after 6 months and go through competencybased approval by clinicians (preceptors) to become fully registered;
- Review conducted over the 10 year period 2004–2014 showed only 44% conversion to full registration, with increase in 2014–15 up to 69%, and 2016 73%.

Positive impacts

- An increase from 8-17 nursing institutes, with a further 3 in the pipeline yet to be accredited.
 (Table 4 Annex 2)
- PNG NC audit review indicated nursing student enrollments exceeded projections from 157 to 505 (2012-2017) (Table 2 Annex 2);
- Midwives registered for first time in 2014, support to Midwifery Schools increasing from 4 to 5 with others in pipeline^{11,18}. Increased number of midwives in PNG from 293 to 780 (2009-2019) Figure 1;
- 18 month Midwifery Curriculum approved in 2017, now running in 3 of 5 institutes, last two to start in 2020 and review of midwifery competences and midwifery skills log book complete;
- PNG NC Roadshows held in all Provinces to discuss regulation, competences, ethical practice;
- Building a body of Evidence and Research See Annex 2 for more details.

Challenges and ongoing work:

- Nursing Curriculums do not follow National Health Standards 2011-2020 and need urgently review.
- Registration staffing is currently weak with only one administrator, NDOH have not replaced the DFAT supported position. Staffing assistance will be required for registration to continue under Medical Registration Act 1980.
- Lack of Chief Nursing and Midwifery Officer for strategic governance and leadership for 72%³⁵ of workforce within NDOH and across PNG (see Annex 2):
- Regulation financial viability infrastructure and staffing still to be worked on;
- Many new graduates are not being employed by Provinces;
- Increase needed for Preceptorship training for clinical facilitators to ensure student clinical practice assessments are in line with national competencies and reviewed curriculum;
- Government and employer ratification that continuing professional development (CPD) is required and sponsored to enable pathway for health professionals to become educators;

- Renewal of regulation legalisation (HPB) and recurring license renewal tied to CPD required; Exploration of issues such as: workforce, scope of practice, specialisation, competency, language and skill mix, arising from overseas trained health care workers continues to be needed.

SITUATION ANALYSIS

Role of regulation

The PNG Nursing Council (PNG NC) regulation authority was established as a Statutory Body in the early 1960s. Like an overarching legal framework of the National Department of Health (NDoH), its mandated roles and responsibilities are stipulated in the current PNG Medical Registration Act 1980. This Act gives PNG NC a major responsibility to:

'Promote and promote the public interest through the maintenance of nurses' standards of conduct and competencies'.

In order to achieve this purpose, PNG NC has a statutory mandate to approve and monitor education programs that lead to registration as a nurse in any category or midwife. (See Annex 2)

Functions and powers of the PNG NC

Functions and powers of the PNG NC include advising the Health Minister on policy matters relating to nursing, in particular-

- (i) The formulation, review and replacement of the Medical Registration Act 1980;
- (ii) The registration and licensure of nurses;
- (iii) An inspection of nursing and midwifery schools;
- (iv) Approval of training schools;
- (v) Setting of standards for training schools;
- (vi) The publication of persons registered;
- (vii) Allowing register for inspection by public;
- (viii) Issuing of certificates of graduation;
- (ix) Disciplinary action against nurses convicted of an offence.

Heath workforce and regulation

Papua New Guinea's (PNG) health worker density in 2013 was estimated to be 0.58 per 1000 population compared to the recommended density of 2.5 per 1000⁷ for the effective provision of primary health care services. More than half of the current health workers were approaching retirement age in the next decade (2011 -2021). Critical cadres such as nurses, midwives and community health workers (CHWs) are particularly low, and there is insufficient capacity within training facilities to produce the number and quality of health workers needed⁷. The gap between population needs and the number of nurses is set to further increase, with an estimated shortage range of 20,000 to 30,000 nurses projected by 2030 (WHO, 2020). Therefore there is an urgent need to increase the quality and quantity of registered nurses and nursing educators in PNG to support this increased need.

The last decade has indeed seen an increasing amount of work in PNG focusing on the human resources for health crisis outlined by the World Bank Report (2011) and the Sustainable Development Goals. Several scenarios for change are outlined by the World Bank of which the recommended scenario would envisage:

"i) A gradual reduction in the population-to-doctor, nurse and CHW ratios; ii) maintaining nurses and CHWs as the backbone of the service-delivery system-particularly rural service delivery …" (World Bank, 2011. p. 125)

This scenario, which outlines the need to more than double nurses by 2030, did not however include midwifery in its projections and costing. The regulation of this group of health professionals falls under the mandate of the PNG NC and needed urgent review and strengthening to provide a streamlined efficient registration of qualified and graduating students.

In 2001, the projected numbers of nursing graduates for 2010 were 445 for entry-level, requiring an increase of 64 extra academic staff and 25 replacement staff needed. In 2012 there were only eight schools providing pre-registration nursing education, majority providing a diploma-level program

except for the one bachelor-level program at PAU. University of Papua New Guinea (UPNG) provided post-registration programs, but not undergraduate nursing programs. Yet in 2012 the number of annual graduates was only 157²³.

To support PNG to increase the size and quality of its health workforce, AusAID (2013) embarked on a diagnostic audit^{12,23} that resulted in fully funded in-country scholarships, and regulation support. The aim was to increase the quality and quantity of nursing and midwifery students to 456 annual graduates, improvements in curriculum, educator numbers and faculty development support by 2016 Table 1^{8, 25}.

Summary of recommendations from the 2013 Nursing Diagnostic Audit:

- PNG NC has limited human resources and capacity to carry out its role and the structure of PNG NC needs review.
- Registration processes needed to be simplified.
- Accreditation audit framework process should be a simplified.
- Completing nursing students should be registered promptly in order to facilitate their entry into the workforce as quickly as possible and without legal risk.
- The curriculum for all Schools of Nursing to be reviewed and updated by November 2013 ensuring they include the National Health Plan 2011-2020 and National Health Service Standards 2011-2020.
- PNG NC competency standards need to be printed and distributed for all registered nurses at all levels in PNG.
- A national registration model should be produced outlining the role of the NDoH, PNG NC, Schools of Nursing (SONs), affiliated and amalgamated universities and other stakeholders.
- All SON must ensure nursing competencies are integrated throughout programs by November 2013 including: units, subjects, log books, student portfolios and assessments.
- PNG NC and Human Resources Branch (Training and Curriculum Development Section) NDoH and DHERST in partnership should audit the schools every three years to monitor the implementation of the standards within education programs, as some have not been audited for 30 years. Audits should cover
 - o educational resources and infrastructure
 - o adequate teaching support at clinical sites as well as the required case mix,
 - o specialist practitioners and a safe environment for optimal student learning.

PNG NC registration and accreditation processes were weak in 2013 and legislation overseeing registration is carried out through outdated Medical Registration Act 1980. Link to summary of previous work in PNG Integration Health Projects in Papua New Guinea and DFAT diagnostic audit reports.

This technical report outlines the many achievements carried out to meet the above recommendations.

KRA 1 – STREAMLINE REGISTRATION

KRA 1. Expedited resolution of existing backlog in Nurse and Midwife registrations, as demonstrated by: processing of all registration requests currently outstanding and routine issue of Probationary Registration Licenses by the Nursing Counsel to new Nurses Graduating from colleges each year.

- Provide advice and support to the Registrar and staff to improve systems and processes involved in the registration of Nurses, Midwives and Paediatric Nurses in PNG, with this support to be initially targeted at improving efficiency in registrations of graduate Nurses and Midwives;
- Provide hands on-support to the Registrar and her staff with processing the backlog of Nurse and Midwife registrations and renewals;

Summary of achievements:

- Streamlining of registration practice was carried out in the first few years including developing overseas policy and all PNG NC forms that were uploaded onto the NDOH webpage for the first time.
- Backlog of registrants cleared.
- DFAT provided administration support to achieve this significant work.
- System to register Double Majors achieved.
- Registrar position finally approved after 5 years of acting.
- Advice provided on how to improve systems covered in KRA 2.
- Adviser's model of short term inputs with regular contact with country counterparts enabled a continuous support model while keepings costs low.

Links to relevant evidence

- PNG NC NDOH link to resources on Webpagehttps://www.health.gov.pg/subindex.php?health_ministry=7
- PNG NC Reports https://www.health.gov.pg/subindex.php?health ministry=7
- PNG NC Reports http://www.health.gov.pg/nursing_pdf/PNGNCR_2016.pdf
- Link to youtube of Registration activity in PNG https://youtu.be/or5vOc_NQ8k

KRA 2 - STRENGTHENING NURSING COUNCIL SYSTEMS

KRA 2. Strengthened Nursing Council systems for registration for Nurses and Midwives, as demonstrated by: streamlined governance processes, reduction in processing times, clear documentation of processes, clear registration **competency requirements.**

Provide advice and support to the Registrar and staff to improve systems and processes involved
in the registration of Nurses, Midwives and Paediatric Nurses in PNG, with this support to be initially
targeted at improving efficiency in registrations of graduate Nurses and Midwives;

Summary of achievements:

- Consultation with all partners and agreed changes to all policies by Nursing Council Board took considerable amount of time and negotiation -
 - For example, development of the Overseas Practitioners Policy required consultation with non-government organisations (NGOs) and employers, Department of Employment and Immigration and review of their work visa policies to ensure they worked with PNG NC.
 An individual now must be registered before they can obtain a work visa.
 - Temporary registration it was agreed that Temporary Registration could be approved by officers, following a check list, the reported to the Board to speed up the process for short term visiting practitioners.
 - As a result, the number of renewals, registrants and provisional registrants to full registration has improved from 44% - 73% (see Annex 2).
- Health Care Practitioners Registration System (HPRS) development, data analysis, field
 and form review and update was carried out and launched in 2017 (media story link below).
 The HPRS is a vital source of information for the country's health workforce, holding details
 of all registered nurses and midwives in PNG, including new and overseas nurses and
 midwives.
- Because of the major reform of the PNG NC and updated information available, it is now known that 6,271 practitioners are registered with the Council. A total of 4,566 are registered nurses (including new graduates), 721 are registered midwives and 1,427 are nurse aides ⁸.
- This work is ongoing and issues with Datac and payment by NDOH have hampered the continued upload of this information into the database.
- Work with the PNG Medical Board to rectify this issues has been held up by instability of the Board and then COVID -19 in 2020.
- This analysis showed that in PNG the registered health workforce is comprised of Medical and Dental 17%, Allied Health 12%, Nursing Board (aides and CHW's) 71%, with Pharmacy on a separate register.
- The WHO SOWN Report analysis by NDOH concurred with data stating nursing and midwifery comprises 72% of the PNG health workforce ³⁵.

Links to relevant evidence

- NDOH link to resources on Webpage https://www.health.gov.pg/subindex.php?health_ministry=7
- https://postcourier.com.pg/new-health-care-registration-system-launched/
- Annual report significant review of national accreditation audit outlining many findings in this report http://www.health.gov.pg/nursing_pdf/PNGNCR_2016.pdf
- PNG Health Practitioners Registration System launched

KRA 3 - GOVERNANCE COMMITTEE RESPONSIBILITIES

KRA 3. Strengthened Nursing Council governance processes, as demonstrated by: clear documentation around **governance committee responsibilities**, evidence of regular meetings, development of effective staff performance management systems

- Provide advice and support to the Registrar to strengthen Council leadership and management capacity, including staff performance management processes and governance structures (including relevant committees);
- Review the existing staffing structure of the Nursing Council and the proposed new staffing structure and make realistic recommendations for short and long term supplementation of current staffing levels to enable registration backlogs to be cleared and to better support the Nursing Council to efficiently fulfill its functions;

Review the purpose and membership of the following Nursing Council Committees and make recommendations aimed at increasing the effectiveness of these committees:

- a. Nurse Registration Committee
- b. Nurse Education Committee
- c. Nurse Disciplinary Committee

Summary of activities:

The PNG NC's role is to register nurses and midwives as well as provide standards and accreditation for educational institutes. Due to an extreme backlog of registrations and some institutes not being audited for 30 years, work was required to update processes, protocols and standards. Review of membership and setting up of a committee structure and enabling Board to run smoothly and effectively was a crucial part of this work. All procedures and Terms of references were included in annual reports and published on the PNG NC website.

Activities also included a communication strategy with roadshows, newsletters and setting opening hours within the PNG NC so other work could be carried out in between registration processing. The registration of up to 6,000 registrants a year is an over whelming task if no administrative support is provided. If the staffing is not adequate other PNG Council activities can easily be postponed hence a review for proposed staffing structure of NC was conducted. This work has led to the strengthening of Nursing Council leadership and management capacity.

Links to relevant evidence

Link to PNG Nursing Council Reports with summary of all above activities carried out:

- https://www.health.gov.pg/subindex.php?health_ministry=7
- http://www.health.gov.pg/nursing_pdf/PNGNCR_2016.pdf
- https://www.uts.edu.au/research-and-teaching/our-research/who-collaboratingcentre/news/nursing-council-papua-new-guinea-releases-update-2014-registered-nursesand-midwives

KRA 4 - STANDARDS

KRA 4: Broader Nursing Council systems and standards are reviewed and recommendations implemented, as demonstrated by: review documentation, documentation of consultations and endorsement, and associated changes to relevant systems and standards

In consultation with stakeholders, building upon existing work in this area, conduct a broad scale review of the Nursing Council standards and practices and make recommendations for their improvement. In particular;

- a) Competency standards for registration,
- b) Development of competency assessment tools for nursing training provisional licensing requirements
- c) Registration requirements for overseas nurses
- d) Registration fee schedule for all types of registration

Summary of activities:

- The PNG NC conducted over 25 visits covering every Province and 18 educational Institutes, and met with well over 2,000 stakeholders and associated facilities. Link to youtube of Registration activity including audits, archiving, accreditation visits across PNG https://youtu.be/or5vOc_NQ8k
- Work continues on the PNG NC website newsletters, roadshows, and the PNG NC report that is constantly updated with information and resources available for use by interested parties.
- The PNG NC Annual Report with detailed information was first developed and published at end of 2017 ¹⁰, and new annual reports are being prepared for upload to web site.
- Review and publication of all PNG NC procedures and policies for a-e a outcomes were reported in the first annual report https://www.health.gov.pg/subindex.php?health_ministry=7
- NDOH link to resources on Webpage
 https://www.health.gov.pg/subindex.php?health_ministry=7. This provides evidence of the review of PNG NC systems and standards.

PNG Medical Board

- Strengthening Regulation Processes Report was approved by the previous Medical Board, and the new Medical Board was approved by the Health Minister on 11th July 2019. New discussions will be held with Board and are ongoing.
- Development and sharing of the PNG NC Overseas Registrants Policy shows a new approach of working.
- Some of these early discussions have been held up by COVID-19.

Treasury

- Numerous discussions with Treasury included Medical Board colleagues have occurred regarding a Trust Account (post 90/10 legislation).
- Accounting Vote Codes have now been approved so nursing registrants can add codes to payments to enable tracking of registrant's payments to Treasury of around 300,000 Kina.

Minister for Health

Meetings held have enabled support: for review of PNG NC structures, finances, establishment
of a Chief Nursing Officer, HPB priority discussions, and Nursing and CHW curriculum review

support (quality improvements, fast track educators program) that are ongoing and incorporate open dialogue.

Health Practitioners Bill:

 PNG NC has played a significant role in extensive workshop discussions held that have resulted in a briefing documents that includes series of recommendations being made to the Secretary of Health and Health Minister. Stakeholder meetings have been held with the new Legal Adviser, with all briefs and recommendations shared.

Summary of HPB workshop recommendations outlined below

	NG Nursing Council - Recommendations Recommendations 3/2020		
2016 Recommendations 2	2019	3/2020	
 Secretary of Health to coordinate a joint meeting with all regulatory authorities, Minister for Health, and relevant advisers; Bill needs to be coordinated centrally with a legislative Policy developed with all stakeholders to provide rational for components within the legislation; Agree with set up of an independent overarching authority under legislation with several Boards/ Committees Registrars: Medical and Dental 17% Pharmacy Allied Health 12% Nursing Board (aides and CHW's) 71%. Each Board / Committee would have a Registrar Fees to be paid to relevant Boards; Agreed national funding and budget against Registrar and Committees functions to carry out mandated role; Shared staff to carry out registration, standards 	 Legislation needs to outline health professionals competency and continuing professional development (CPD) requirements; Legislation connected to policy for registration of specialist programs Legislation to cover specialist practitioners that wish to carry out private practice Improve legislative power regarding the public knowledge of complaints; and private practitioner's ability to practise; Although not being trained any more (14.4) need Nurse Aide and Enrolled Nurses, to be added as still exist on register; Community Health Workers are situated with the Nursing and Midwifery Board 	 Health Board/ Authority to be a standalone agency and not under Health Department Health Practitioners Board to be change to Health Practitioners Authority Agree that each board must have a Registrar Advisory Committee composing of members from different authority to be in place. Board to have a trust account or separate Bank Account for operation Community Health workers to be part of the Nursing Council as Nursing is responsible for CHW Curriculum and training Legislation to all Nurses to conduct private practice. Legislation to clearly specify the Registration fee for different Registration functions Penalty fee clearly be outline for any default in both Registration and Practice 	Agree with set up of an independent overarching authority under legislation with several Boards/ Committees Registrars: - Medical and Dental 17% - Pharmacy - Allied Health 12% - Nursing Board (aides and CHW's) 71%. Registrar Each Board / Committee would have a Registrar Community Health Workers Community Health Workers to be situated with Nursing Council Account and Fees — Have separate trust account fee to be paid to different account Accreditation of learning institutions Legislation needs to strengthen; accreditation powers to ensure only quality institution can be established and must meet the professional and educational standard. Prior to starting any new institution, protocol must be followed. Specialist practice and CPD Legislation connected to policy for registration of specialist programs Legislation needs to outline health professionals competency and continuing professional development (CPD) requirements; Private practice Legislation to cover specialist practitioners that wish to carry out private practice

KRA 5- ACCREDIATION

KRA 5. Education programs that lead to registration are **monitored**, **reviewed and accredited**, as demonstrated by: written documentation outlining the theoretical and clinical requirements of curricula and effective communication of these requirements to relevant institutions; development of a schedule for implementation, and commencement of accreditation activities.

Undertake a review of the Nursing Council of PNG National Framework for the Accreditation,
 Monitoring and Evaluation of nursing and midwifery programs.

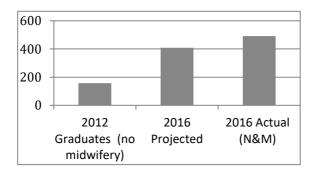
Summary of activities:

- Increase from 7 to 14 educational institutes running Diploma in General Nursing (DGN) and one
 running a Degree in Nursing and 2 running post registration programs, a further 3 institutes are in
 under discussion.
- The PNG NC Annual Report with detailed information was developed and published at end
 of 2017⁸ 10, and a new annual report being prepared for upload to web site.

The NDoH Workforce Enhancement Plan

This Plan led to improvements in regulation and infrastructure that have contributed to a
greater than 200% increase to 491 nurses and midwives graduating in 2016 (PNG NC Annual
Report 2016), exceeding the DFAT diagnostic audit projections of 2013.

National Registered Nursing and Midwifery Projections 8,23



Specialist practice

- Apart from midwifery, UPNG continues to be the only institute running post-registration programs, and specialist practice will be reviewed in 2020.
- Ongoing post-registration education masters and educators programs to be explored in the future.
- Scope of practice and above issues to be explored in line with proposed curriculum review.

Midwifery

- Post-registration midwifery degree is now running in 4 to 5 institutes across PNG.
- Following a comprehensive review of the national midwifery framework, the PNG NC approved the 18 month midwifery program in 2019.

10 years of Maternal and Child Health in PNG (MCH) Review Brief (Figure in Annex1)

 Improvements in midwifery have been ongoing since the NDOH Maternal and Child Health Taskforce Report (2009). Over the past 10 years, many areas have been worked on and addressed, however many challenges still exist. Figure 1. Annex 2 (Annex C).

- Following the Maternal and Child Health Initiative (MCHI) program M & E analysis, the Midwifery Curriculum Framework was reviewed and developed in 2014 and was approved by NDOH PNG NC in 2017.
- The review of the Midwifery Skills Log Book is crucial to the 18 month program. The new knowledge and skills added to the National Midwifery Curriculum Framework are not included in the old skills log books.
- The 12 month midwifery program was phased out at the end of 2018. Three midwifery schools have commenced the 18mth program in 2019, with PAU and UPNG following in 2020.
- Another midwifery program is planned for delivery in Lae, in line with ANGAU Hospital redevelopment requirements.

Midwifery Skills Log Book

Two workshops were funded by Australian Awards and UNICEF and supported by UTS
midwifery staff. Attendees included 25 participants from all 5 midwifery schools and clinical
areas. A final draft structure of the Log Book was produced and validated by stakeholders
and finalised in 2020.

Links to relevant evidence

- Improving Midwifery Skills in PNG
- Integration Health Projects in Papua New Guinea
- Selected publications linked in above resources

KRA 6- PARTNERSHIPS

KRA 6. Strong and productive relationships built with the Registrar, Nursing Council Chair and staff, Medical Board and other NDOH health workforce leadership broader educational institutions and development partners, and other relevant stakeholders as demonstrated by positive feedback.

Collaboration and partnership

- The PNG NC conducted over 25 visits throughout PNG, covering every Province and 18
 educational Institutes, and met with well over 2,000 stakeholders and associated facilities to
 ensure stakeholder engagement. See Annex 6
- Maintained Combined Leaders United in Business (CLUB) providing opportunities for networking and sharing resources, the CLUB is informal and confidential with high level leaders, educators, and clinicians.
- Ongoing stakeholder meetings for the Health Practitioner Bill have enable frank discussions regarding continuing improvements for registration and the need for quality improvement of nursing graduates via curriculum review and specialist practice discussions.
- Attendance at important regional and global events including Medical Regulation SPC, WHO
 Health's of Health Fiji, World Health Assembly Geneva, WHO SOWN Report Meetings
 Sydney, South Pacific Chief Nursing Midwifery Officer Alliance (SPCNMOA) meetings held
 across the Pacific in Cook Islands, New Zealand, Solomon Islands, Tonga.
- Invited by NDOH to speak on health workforce at APEC Meeting held in PNG
- Developed pictorial representation of PNG NC achievements for uptake of information through a short video. https://www.youtube.com/watch?v=or5vOc NQ8k&t=7s

Links to some of relevant evidence

- 1. Rumsey, M. and N. Joesph, *Papua New Guinea Nursing Council 2017 Report* NDoH, http://www.health.gov.pg/pages/nursing_ab.htm
- 2. Rumsey, M. and N. Joesph, *Regulation impacts in the Pacific*, in *4th Global Health Workforce Forum*. 2017, World Health Organization, Dublin, Ireland
- 3. Rumsey, M., Joseph, N., Kililo, M., & Tefuarani, N. (2019). *The need for improved educational development of nurses and midwives to strengthen quality of care in PNG.* Paper presented at the WHO Global Symposium on Health Workforce Accreditation, Istanbul, Turkey.
- Rumsey, M., Joseph, N., & Kililo, M. (2019). The need for improved educational development of nurses and midwives to strengthen quality of care in PNG 10 year Review. Paper presented at the ANU Policy Development PNG Update,, Papua New Guinea,. Poster_Strengthening Nursing and Midwifery Education in PNG.pdfPDF, 2.89 MB
- 4. *Dr Osborne Liko, Chair PNG Medical Council attended* SPC, WHO CC UTS, (2018). Heads of Health and Medical Regulatory Meetings Brief Retrieved from www.spcnmoa.com
- 5. Rumsey, M., & Joesph, N. (2017). *Papua New Guinea Nursing Council 2016 Report* PNG National Department of Health Retrieved from http://www.health.gov.pg/pages/nursing_ab.htm
- 6. Rumsey, M., & Joesph, N. (2017). *Political and social trends, Global, regional, national and local governance trends Role of Health Personnel Regulation in Accelerating Progress towards UHC and SDGs.* Paper presented at the Fourth Global Forum on Human Resources for Health,, Dublin.
- 7. Dawson, A., Kililo, M., Geita, L., Mola, G., Brodie, P. M., Rumsey, M., Homer, C. S.(2016). Midwifery capacity building in Papua New Guinea: Key achievements and ways forward. *Women and Birth, 29*(2), 180-188. doi:10.1016/j.wombi.2015.10.007
- 8. Moores, A., Catling, C., West, F., Neill, A., Rumsey, M., Samor, M. K., & Homer, C. S. (2016). What motivates midwifery students to study midwifery in Papua New Guinea? *Pacific Journal of Reproductive Health*, 1(2), 60-67.
- 9. Rumsey, M., Neill, A., Kililo, M., & Homer, C. (2016). PNG Maternal and Child Health Initiative Phase II: Final Report. http://dfat.gov.au/about-us/publications/Pages/png-maternal-and-child-health-initiative-phase-2-final-report.aspx
- 10. APEC's 8th High Level Meeting on Health and the Economy
- 11. State of the World's Nursing Report WHO CC

KRA7 LESSONS LEARNT

KRA7.

We have learnt that we need to work closely with the key stakeholders to develop the work plan and timeline, which will outline methods and activities to address the objectives of any work, while fostering common understanding and trust. We have adapted the WHO WPRO White Papers 'grounds up approach'² to include principles of partnership^{1,3} and which cover; safety, respect, collaboration, beneficence and reciprocity, relationship-based and justice². The grounds up approach² adopting the principles of partnership^{1,3} ensures that national capacity in terms of governance, accreditation and mutual recognition of qualifications.

Lessons learned and best practices

- Understanding of culturally appropriate working patterns to ensure activities are implemented at an appropriate pace and owned by the partners.
- All programs / project / research to be developed and delivered using the WHO CC UTS adapted 'grounds up approach²; adopting the principles of partnership^{1,3}
- To create sustainable change, support needs to be provided intermittently in country over a long period. Strong, trusting relationships need to be built up front with an agreed work plan.
- One of the main strengths of the HPB is to enable the regulation authorities to become
 autonomous. It is envisaged that the upcoming HPB enactment would give greater power for
 such bodies to execute their legal roles and responsibilities effectively. In particular, this will
 assist the regulation of the health workforce by ensuring safe and competent workers,
 delivering a high standard of health services at all levels and all times.
- The success of the Maternal and Child Health reviews carried out by the NDoH through research, extensive monitoring and evaluation over the 10 year period (2009-2019) shows that positive outcomes can be achieved, particularly in relation to the review of the Midwifery Curriculum Framework and its implementation. It is recommended that this model be applied to a Nursing and CHW curricula to further improve outcomes and practices.
- To create sustainable change, support needs to be provided intermittently with short-term inputs over a long period. Strong, trusting relationships need to be built up front with an agreed work plan.

Reporting – contract variations

- Developed a work plan in consultation with counterparts this was reviewed regularly, and a contract variation applied for over the 6 year period.
- The majority of this work from 2014-2020 was carried out remotely with short inputs in-country for important events and meetings.

Cost efficiencies

- An Adviser's model of short-term inputs with regular contact with country counterparts enabled a continuous support model with sustainable relationship building and maintenance while keepings costs low.
- This model has also helped us during COVID-19 as colleagues are used to a series on online meetings and seminars.
- The WHO CC UTS was able to support colleagues from PNG to attend many international and regional events facilitating leadership of counterparts with no extra cost to contract.
- The WHO CC UTS linkage enabled the provision of support from a variety of staff/interns, with in-kind support from UTS, and added value to the contracted work without extra cost.

CHALLENGES

Key challenges and gaps

- Although the number of nurses graduating in PNG has exceed the Diagnostic Audit
 expectations ⁷, graduate quality, employment of registered nurses and shortage of educators
 remains a challenge.
- Financial restraints in NDoH hamper the PNG NC planning, storage, office space and structures. There is an ongoing challenge to ensure staff are employed, meetings and events are held in-line with planned activities.
- Finalisation of the Health Practitioner's Bill (HPB) has been drawn out since 2012 and remains an ongoing process. A new policy developed as a guide for the new Legislation when the HPB is enacted by the Parliament. PNG NC is working with adviser James Cooper, NDoH legal officers and PNG Solicitors Office in this development.
- Work with Medical Board to rectify the issues of Health Practitioners Registration System and HPB have been held up by instability of the Board and then COVID -19.
- A Curriculum Review for Nursing and Community Health Workers (CHWs) is urgently required
 to address the lack of educators, increase the quality of graduates, scope of practice,
 specialist practices and bring these curricula into the 21st century. Currently there are very few
 opportunities for continuing professional development.
- There is a 28% shortage of nursing and midwifery educators in PNG with only 50% holding an education qualification, resulting in low quality graduates. This analysis was carried with the original 8 institutes now increased to 17 and it is possible that now the shortage is significantly higher.
- Although accreditation processes have been improved significantly, the increase in the number of institutes and private entities establishing schools outside of the legal requirements of the NDOH and PNG NC is putting significant pressure on PNG NC and NDOH staff.
- Whilst Australian Awards funds are essential funds, they are not ring fenced and often go to university administration, leaving midwifery units without educators, transport and resources.
- PNG is the only country in the Pacific region not to have a Chief Nursing and Midwifery Officer which has been previously approved this remains an important aim for 2021.
- The PNG NC has wasted considerable time trying to find storage for archive documents that have been overtaking office space. While a system is in place, this will be an ongoing issue.
- Although significant work has been carried out with Treasury and NDOH, accounting (AIP)
 financial restraints still remain that hamper the PNG NC planning and structures. There is an
 ongoing challenge to ensure staffs are employed, meetings and events are held in-line with
 planned activities
- WHO states that one midwife is needed for every 175 births to cover health outcomes and SDGs, or 4.5 nurses, midwives and doctors per 1,000 population.
- For every 1,000 births as many as 9 mothers and 24 babies die, and WHO and PNG Health Minister 2019 meeting estimates 6,000 more skilled birth attendants are needed to meet the global standard.
- Midwifery is a post-registration program so does not attract DHERST student funding, which challenges viability of this very important program.

Cross-cutting issues (gender, disability and equity)

- Improving regulation of the health workforce provides access to quality care for the entire population.
- Regulating nurses and midwives, 75% of who are women, addresses gender and equity across PNG. The majority of nurses and midwives also work in rural and remote areas.

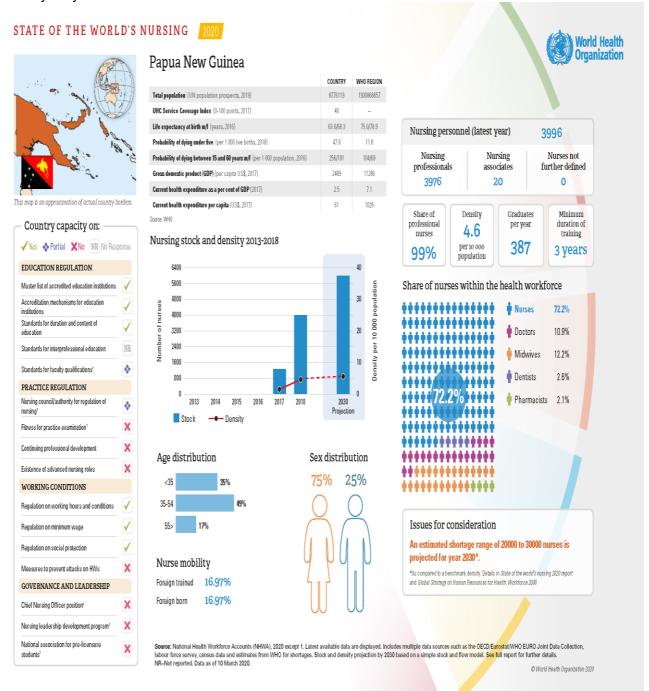
STRAEGIC PRIORITIES

Strategic priorities for regulation in PNG

- Ensure the long awaited NDOH, PNG NC and Health Training Branch review of Nursing and CHW curricula is carried out with previously approved DFAT funding. Program ot start in 2021 with WHO and DFAT funding see previous recommendations Annex 2 (Annex C).
- The Nursing and CHW Curriculum Review This work is urgent to cover the scope of practice from village health worker and CHW through to general nurse and finally onto nurse practitioner and educator. It will include a professional development pipeline and pathway for these important health workers who work mainly in rural and remote settings and will outline entry requirements and educational level of program in line with national qualifications framework; address the urgent shortage of educators for nursing and CHW institutes; build the educational faculty's capacity in partnership with clinicians to ensure new curriculum can be taught and integrated into institutes ensuring a quality management process, student attributes, and subjects in line with competencies and appropriate teaching and assessment processes. The Gap Analysis due July 31st 2021 will address the main priorities for improvement in the two programs: the Community Health Workers Certificate and the Diploma of General Nursing.
- Review of all new nursing and midwifery institutes is required in line with the accreditation framework to ensure all graduates can be registered.
- The number of institutes providing DGN programs needs further review to maintain quality of graduates.
- Ensure adequate staff are available for the registration renewal period of March 2018- 2020 and adequate information is given to nurses and midwives to ensure they renew.
- Website, newsletters and road shows should continue to be developed to build upon the Nursing Council's overall communication strategy.
- Enactment of Health Practitioners' Bill Facilitation of the HPB by Policy and Planning and Legal teams should be completed and passed by Parliament.
- NDOH must approve the PNG NC structure for DPM funding so new technical and clerical
 positions can be filled whilst awaiting HPB enactment to rectify the acute shortage of
 manpower.
- Funding allocation needs to be aligned with PNG NC proposed annual AIP.
- Office equipment and space for PNG NC to be expanded and purchased as previously suggested to enable staff productivity is optimum.
- HPRS to be restored for data entry and updating of client data, requiring publication of active registrants as mandated by the MRA 1980.
- A Trust Account in line with Treasury discussions to be considered and established to hold registration fees and provide some funding to cover PNG NC operational costs.

ANNEX 1- WHO STATE OF THE WORLD'S NURSING REPORT - 2020 - PNG COUNTRY PROFILE

Worked on with a team from PNG NDOH and PNG Nursing Council, workshops held At WHO CC UTS Sydney and WHO PNG Office.



World Health Organization. (2020). *State of the World's Nursing Report - 2020*. Retrieved from Geneva: https://www.who.int/publications/i/item/9789240003279

ANNEX 2- PNG NURSING COUNCIL HEALTH WORKFORCE ISSUES PAPER



PAPUA NEW GUINEA NURSING COUNCIL Office of the Registrar

TELEPHONE: 301 3803/3013799 PRIVATE MAIL BAG

FAX: 3013604/3230753 PORT MORESBY

Email: nina_joseph@health.gov.pg PAPUA NEW

GUINEA

PNG NURSING COUNCIL HEALTH WORKFORCE ISSUES PAPER

1. Introduction

- 1.1 The responsibility of the Papua New Guinea Nursing Council (PNG NC) is to protect and promote the public interest, through registering nurses and midwives and assuring the maintenance of the standards of conduct and competence these professions¹⁻⁶. As part of this purpose, the PNG NC has a statutory mandate to approve and monitor educational programs that lead to registration and keep accurate data on the number of registered nurses and midwives Table 1, 2 and 3.
- 1.2 The Medical Board currently registers doctors and community health workers (CHWs). This paper provides an overview of the current issues for the nursing and midwifery workforce with limited information on CHWs.
- 1.3 The PNG NC comes under the outdated Medical Registration Act 1980, the aim is to have this replaced with the **Health Practitioners Bill 2014**. The PNG NC aims to become the Nursing and Midwifery Board, with additional CPD powers for professionals and will then also have the mandated responsibility to register Community Health Workers (CHWs). Which makes logical sense with the health workforce structures of PNG.

2. Background

- 2.1 Nurses, midwives and CHWs are the main professional component of the health workforce 71% with allied health 12%, dental 1%, medical practitioners 12%, medical specialists 0.5% health extension officers (play a role as health centre mangers) 3.5%. The contribution of nurses and midwives recognized as essential to meeting health development goals (Annex B), and delivering safe and effective care. Accessibility to and coverage of health care services are, to a great extent, dependent on nurses and midwives.
- 2.2 Papua New Guinea's health sector is facing a workforce crisis⁷ The World Health Organization (WHO) has workforce baselines that are required to provide essential care.

These are a health worker- to- population ratio of 23 doctors, nurses and midwives per 10,000 population. Below this critical threshold, coverage of essential health interventions is unlikely. According to the WHO⁹, the density of doctors per 10,000 population in PNG 0.6; and the density of nursing and midwifery personnel is 5.7 per 10,000 population. This means an **overall ratio of 6.3 doctors, nurses and midwives per 10,000 which is far short of the critical threshold of 23.** This has led to the conclusion that **PNG needs up to 20,171 doctors, nurses and midwives to reach the critical threshold** for the current population (8,776,109 in 2019¹⁰).

- 2.3 According to the World Bank 2011 Report,⁷ the health system infrastructure in PNG primarily comprises 19 provincial hospitals, 73 urban clinics, 192 health centres, and 447 health sub-centres¹. The public sector finances the operation of some 2,746 health facilities, of which 94 are urban and 2,652 are rural⁷. These numbers may have change slightly since 2015 but not significantly.
- 2.4 The World Bank 2011 Report⁷ also outlined that the number of nurses should increase from 4298 in 2009 to almost 5,000 in 2020 and to about 8,500 in 2030—an increase of about 160%. This would mean a rapid expansion in the number of nurses by 10.1% per annum between 2015 and 2020, 5.1% between 2020 and 2025 and 7.3% between 2025 and 2030. Midwives were included in these calculations. The 2011 and 2014 State of the World Midwifery Reports (UNFPA, WHO, ICM) estimated that PNG needed to at least triple its midwifery workforce to cater for the needs of the population for essential maternity care.
- 2.5 Accurate registration renewals for 2014 nurse and midwife registrants were a total of 4,298, matching the World Bank 2011⁷ and Health NHCS data from 2009. As of 2019, 4,428 biennial renewal practicing certificates (ATPs) issues, a further 326 full licences, 83 midwives and 611 nurses estimated the nursing and midwifery stock at 5,448 for 2020. This has been achieved by a rapid increase in institutes as discussed later in this paper; see Annex A Table 4 for details of accredited and proposed institutes (updated 2021).
- 2.6 Data on community health workers (CHWs) is less clear entrance to program is from year 10 of school and is a modular program (see Annex A Table 5). They provide care in the community at health centres and rural and urban clinics to the 80% of the population that live in rural and remote areas of PNG^{11,12}. PNG has a long history of training CHWs since 1942. Out of the 7,154 registered with the Medical Board it is unclear how many are active and practising it is estimated between 4000 -5000¹¹ across PNG. Currently following their registration CHWs can access Nursing Diploma (DGN) acknowledging prior learning, the DGN entrance requirements are completion of grade 12 at secondary school.
- 2.7 Recent strengthening of the registration process and increase in fees has capture more PNG NC registrants in PNG, but doesn't mean every nurse and midwife has renewed their registration. Data shows that although nursing and midwifery figures have increased the

- Department of Personnel Management (DPM) have not created new posts or filled vacancies within Provincial Health Authorities (PHA). PNG NC Board has highlighted evidence of new graduates not getting employment for over 6 months and consequential losses to the workforce are unknown.
- 2.8 The National Health Plan (NHP) 2011–2020¹³ sets out the strategic directions for the development of Papua New Guinea's health sector over the next decade. It recognises that the crisis in the health human resources area is a critical factor confronting any viable strategy designed to implement the objectives. Among the factors are⁷:
 - An ageing health workforce;
 - Limited pre-service training capacity to replenish the health workforce;
 - Weaknesses in the curriculum of training programs supplying new entrants to the direct service-delivery health workforce;
 - An almost total lack of systematic in-service training, especially for rural health providers.
- 2.9 However, the lack of trustworthy data obstructs a picture of exactly who makes up the health workforce, making workforce planning, at times, ad-hoc and donor planning difficult. The implementation of Health Workforce Enhancement Plan, has highlighted many health workforce issues, the problems with data collection as well as existing data that is yet to be held centrally, or analysed for accuracy. We are also a long way from the suggested 20,171 health workforce required to meet WHO basic benchmarks. This paper aims to clarify the current situation according to the PNG NC data for nursing and midwifery.
- 3. Current status of health workforce data
 - 3.1 The NDoH, the government more generally, and the Churches Health Council have a number of databases which contain important information on health sector employees. These systems duplicate some information contained in other systems, and, in some cases, the same information is collected but different codes are used. These data systems include⁷:
 - WHO HRH database development WISEN
 - the Government Payroll System 2004 (Department of Finance);
 - the Churches Health Council Payroll;
 - Health Care Practitioner's Registration System (HCPRS) within the Medical Board and Nursing Council;
 - Health Human Resource Management System (within NDoH);
 - National Headcount Survey (NHCS) 2009 (within NDoH); and
 - Health Management Information System (within NDoH).
 - Human Resources Information System (HRIS) (within NDoH) currently under pilot.

- 3.2 All these systems have significant constraints. There are considerable gaps in the data and accurate information on the size and characteristics of the publicly financed health workforce are inadequate. In addition, data on the workforce in the private sector and church health services are almost non-existent. For example, the data sourced from the national payroll has major constraints and probably overestimated the actual number of nurses by 1,000 due mainly to significant numbers of "ghost workers" on the payroll and inadequate payroll cleansing. Efforts to validate the existing stock of qualified health workers who are actually working within the health system has met with only partial success, and the process of validating the age, qualification, experience and other characteristics of the existing health workforce on the payroll system has all but collapsed, due to complex systems and inter departmental disagreements.
- 3.3 In recognition of this problem, the Human Resources Division of NDoH developed new estimates of the current size of the publicly financed health workforce in 2009⁷ in order to form a basis for the new National Health Plan 2010–2020. The results for the nursing and midwifery workforce are shown in Table 1.
- 3.4 The National Headcount Survey 2009 database on the characteristics of the publicly financed health workforce took considerable effort and was a one off survey. If the existing systems were rationalized and better coordinated, the key information should be available on a continuous basis and a national survey of this kind should not be needed.

Table 1: Composition and Growth of the Public Sector Health Workforce 1988–2009

Category	1988	1998	2004	2009	Change 1998-2009 (%)	Change 2004–2009 (%)
Nurses	2,917	2,920	3,980	3,618	23.9	-9.1

Source: Data for 1988, 1998 and 2004 as presented in and documented in Chapter 2 of Strategic Directions for Human Development (World Bank, 2007) and 2009 from the NHCS 2009 (NDoH, 2009)⁷.

- With respect to nursing officers a majority (1,807 or 55%) were deployed in urban areas while 1,472 (45%) were deployed in rural areas. Midwives, critical to turning around the crisis in maternal mortality, comprised a fraction over 8% (293) of the total nursing stock, and two-thirds (192) of midwives were deployed in rural areas—significantly more than for the nursing group as a whole.
- Of the total number of nursing officers (excluding midwives) of 3,252, over 16% (534) working in direct service delivery were aged 55 years or older and almost one-third more (1,106) were aged 45–54 years of age, and thus scheduled to retire over the next decade. Another 35% (1,122) were aged 35–44 years of age. Some 15% of nurses (489) were aged less than 35 years—about the same proportion of the workforce scheduled to retire imminently. Lastly, Nursing officers, on average, were younger in rural areas, particularly among the younger age group of 25–34 years.
- Midwives were presented as a separate occupation—albeit one that currently requires a nursing qualification prior to training as a midwife. In 2009, there were 284 midwives in service delivery of which 77 (over 27%) were aged 55 years or more and expected to retire shortly. Significantly, 38% of midwives working in hospitals were of retirement age compared to about 22% in rural areas. Another 43% of midwives (123) were aged 45–54 years and expected to retire over the next decade, as well. Only a 3.9% of midwives (11) were aged below 35 years.

4. Inflow of new graduate nurses

- 4.1 In 2012, 157 nurses graduated in PNG, following World Bank Workforce Crisis Report, DFAT diagnostic audits^{7,8,9}, NDOH Workforce Enhancement Plan, by 2016 the annual number had tripled to 467. Table 2 shows the numbers increasing due to increase in Schools from 7 13, with 4 universities and a further 3 in the pipeline (See Annex A) and an increase in nursing graduates from those schools. Improved PNG NC registration processes provided accreditation (Annex A, B, C), streamline of processes, data input strengthening and tracking. However, ongoing support for updating curriculum, infrastructure, scholarships and educators is needed to scale-up production of quality workforce^{7,8,9}. The improved registration process has allowed this significant tracking of nursing and midwifery workforce, however the withdrawal of the DFAT supported data administrators will weaken these system improvements reducing tracking and data capacity of PNG NC.
- 4.2 As previously highlighted employment of new graduates has been extremely slow, although a health workforce crisis ⁷, filling vacancies and creating new posts has been hampered by the complex NDOH, DPM and PHA, systems. One approach has been for PNG NC to issue registration certificates at time of graduation, before nurses and or midwives return to the provinces, see Annex 6 for details on registration process. However this is timely and complex as all registration forms need to be received from schools before graduation, checked, approved by PNG NC Board, certificates issued and delivered. This process has been recently hampered with withdrawal of donor funding for administration and data personnel with in the PNG NC.
- 4.3 These numbers and registration have also increased due to improvements in overseas registration process, (see Table 2) including working with stakeholders, MSF, Red Cross, VSO, missions, Mercy Boats, Department of Immigration Health Secretary. Nursing Council recognises nurses registered in other countries such as Australia, New Zealand, Philippines, Fiji and other South Pacific Islands, but has no reciprocity agreement with any of these countries. All applicants from overseas requiring registration must submit required documentation to the Nursing Council.

Table 2: New Registered graduate nurses and overseas nurses

			YEARS						TOTAL BY INSTITUTION				
NO.	INSTITUTION	LOCATION	2019	8102	2017	2016	2015	2014	2013	2012	2011	2010	
1	ST. BARNABAS SCHOOL OF NURSING	ALOTAU	42		26	52	15	19	8	16	28	0	206
2	ST. MARY'S SCHOOL OF NURSING, VUNAPOPE	KOKOPO (RABAUL)		37	32	89	27	25	34	18	26	49	337
3	LUTHERAN SCHOOL OF NURSING, DWU	MADANG		81	40	33	24	48	37	31	33	88	415
4	LAE SCHOOL OF NURSING, UNITECH	LAE		37	46	36	40	22	24	24	0	61	290
5	NAZARENE COLLEGE OF NURSING, KUDJIP	MT HAGEN	45	34	36	100	21	26	13	20	71	0	366

6	MENDI SCHOOL OF NURSING	MENDI	107	85	81	70	39	61	0	0	0	0	443
7	HIGHLANDS REGIONAL COLLEGE OF NURSING	GOROKA		50	89	44	22	40	36	26	51	0	358
8	PACIFIC ADVENTIST UNIVERSITY	PORT MORESBY		41	89	43	32	27	26	22	16	15	311
	NEW INSTITUTES												
9	ARAWA SCHOOL OF NURSING	ARoB		22									22
10	ENGA COLLEGEG OF NURSING	WABAG	30										30
11	ASIA PACIFIC INSTITUTE OF APPLIED SOCIAL, ECONOMIC & TECHNICAL STUDIES	PORT MORESBY											
	TOTAL		224	387	439	467	220	268	178	157	225	213	2778
9	OVERSEAS	OVERSEAS (All Countries)	9	42	66	60	113	111	113	27	29	13	583
	GRAND-TOTAL		233	429	505	527	333	379	291	184	254	226	3361

5. Inflow of new graduate midwives

- Taskforce on Maternal Health in Papua New Guinea (2009)¹⁴. Historically, midwives were recorded on the register as specialist nurses and were hard to track. There has been a significant improvement in the number of registered midwives that have graduated since 2009, supported by the Australian aid funded Maternal and Child Health Initiative¹⁵ (MCHI) which was started in 2011. The main aim of the MCHI was to contribute to a decrease in maternal mortality rate in PNG in a sustainable manner through improved quality of essential maternal and newborn health care. The objectives of the Initiative were: to improve the standard of midwifery clinical teaching and practice in the five teaching sites; and to improve the quality of obstetrical care in two regions through the provision of clinical mentoring, supervision and teaching.
- 5.2 In 2014, an improvement in regulation processes enabled all 5 midwifery curriculums to be approved by the PNG NC which enabled the backlog of midwifery graduates to be registered (Table 3). An MCHI review of the midwifery curriculum and quality of midwifery graduates ¹⁶⁻¹⁹, resulted in an upgrade of the midwifery curriculum from 12-18 months. This curriculum has now been through all the NDOH and PNG NC approval processes and being taught in 4 out of the 5 midwifery institutes. A study to determine the locations and experiences of graduates from 2012 and 2013, highlighted that 90% of new bachelor of midwifery graduates returned to clinical areas with the majority returning to remote and rural clinical areas ^{18,19}.
- 5.3 A ten year review of midwifery in PNG (Annex B) from the NDOH Maternal Health Taskforce 2009 shows that there was an estimated 293⁷ midwives in PNG registered as specialist nurses, with an estimated 42% retiring in 5 years. By 2019 significant focus on midwifery there were an estimated 847 midwives in the country (new graduates plus

existing midwives). However, WHO 2019 review stated you need 1 midwife for every 175 births^{20,21} or to cover health outcomes and SDGs 4.5 nurses, midwives and doctors per 1,000 population. Currently for every 1,000 births as many as 9 mothers and 24 babies die, WHO and PNG Health Minister 2019 meeting therefore estimated 6,000 more skilled birth attendants are required to meet the global standard ²² and improve maternal outcomes in PNG.

5.4 As Annex B shows the significant focus and donor funding was reduced on maternal and child health half way through the 10 year cycle in 2015.

Table 3: Newly registered midwives

<i>I abie</i>	Table 3: Newly registered midwives											
					YEARS						TOTAL BY INSTITUTION	
NO.	INSTITUTION	LOCATION	2018	2017	2016	2015	2014	2013	2012	2011	2010	
1	ST. MARY'S SCHOOL OF NURSING & MIDWIFERY	VUNAPOPE	17		20		0	0	0	0	0	37
2	UPNG _ SCHOOL OF MEDICINE & HEALTH SCIENCE	PORT MORESBY	20	1	2	18	69	0	0	0	0	110
3	LUTHERAN SCHOOL OF NURSING, DWU	MADANG	10	10	21	19	74	0	0	102	0	236
4	PACIFIC ADVENTIST UNIVERSITY	PORT MORESBY	1	12	22	17	78	0	0	0	2	132
5	UNIVERSITY OF GOROKA	GOROKA	1	11	11	33	92	0	0	0	0	148
11	OVERSEAS	OVERSEAS (All Countries)				1	2	2	3	0	6	14
		TOTAL:	49	34	76	88	315	2	3	102	8	
10	OVERSEAS	OVERSEAS (All Countries)	0	0	0	1	2	2	3	2	0	10
	GRAND TOTAL											687

6. Workforce distribution and location

6.1 PNG NC Annex E Table 5 and 6, show analysis of registrants by province. The analysis was carried out by comparing the total number of registrants in every province, registered since 1964, against the 2014-2016 renewal period. It shows that there has been an increase in the percentage of nurses and midwives to urban National District Capital (NCD) from 15% to 19%. Half of these nurses and midwives, 409, are practising at Port Moresby General Hospital (PMGH). The analysis in Table 5 was able to further disaggregate the data to the skill set of registrants during that period at PMGH. The other percentages across PNG are reasonable, considering the variables in the data, from the total number of registrants to the renewal period. Increases in percentages of the total nursing and midwifery workforce have occurred in other urban sites Eastern Highlands 6-7%, Morobe

- 9-9.5%, Southern Highlands 5-6%, Western Highlands 6.5-8.5%, Milne Bay 4.5-7%, however, Madang has decreased its percentage of the workforce from 5% down to 3%.
- 6.2 It could be surmised that early PHAs have established systems to streamline new posts in the provinces and have been able to attract a higher percentage of the workforce, for example, Western Highlands and Milne Bay.

7. Quality and skill set of workforce

- 7.1 PNG NC audit review in 2014/2015 highlighted a 28% shortage of nursing educators alone in PNG^{12,23-25} with only 50% holding an education qualification, resulting in low quality graduates, and leading to a health workforce under pressure. In addition there are few opportunities for continuing professional development (CPD), short courses or training²⁶.
- 7.2 Recently, there has been political influence to have a School of Nursing in each province that has resulted in a mushrooming of both nursing schools and CHW schools, without an increase in educators to run them. The number of Nursing Schools has increased from 7-13, with a further 5 proposed schools. Annex A and C highlights in detail the complex role of accreditation and number of institutes requiring ongoing support. PNG NC accreditation is a highly politicalised process with many partners involved: NDOH must agree on the need for an institute under health workforce requirements; PNG NC then carry the regulation, competency standards and facilities audit often in partnership with Department of Higher Education Research Science Teaching (DHERST) who then carry out an educational audit. All partners have to agree and PNG NC must cite MOUs with all health facilities who can providing appropriate skill based clinical and rural placements for students.
- 7.3 Although an increase in the numbers of nursing students is now being achieved, the PNG Nursing Council accreditation audit review¹⁰ has **significant concerns** about the quality of graduates from outdated and old curricula (late 1990s) with a significant shortage of skilled and qualified educators. With new schools proposed the already stretched educational system for nurses and CHW **will continue to weaken without urgent action**. This is outside of any natural disasters eg. earthquake in Southern Highlands or significant pressure on PNG health system with COVID 19 pandemic.

8. Infection control capacity of nurses and community health workers

8.1 In response to the **COVID 19 Pandemic** notes were taken at a meeting (19/03/20) in NDOH with representatives from PMGH, education, NDOH (policy and training), regulation and representatives from two provinces outside of NCD. Current national nursing curriculum does cover infection control but information is out dated and does not integrate NDOH National Health Standards (2011-2020). Community health workers modules do also cover epidemics and infection control, but information has not been updated for several years.

Hospitals, health centres, urban and rural clinics have very limited, if any supply of sanitisers, soap, gloves, personnel protective clothing (PPE). It was stated that even at national referral hospital clinicians could not obtain any of the above essential equipment, except for soap. None of senior representatives knew of any infection control measures or training. They recognised the NDOH was putting together guidance and representative were screen visitors to the PNG.

- 8.2 .There is limited governance and leadership in NDOH for the 71% nursing, midwifery and CHW workforce. There have been several, briefs, approaches and approvals by NDOH and Health Ministers to appoint a Chief Nursing and Midwifery (CNMO) Leader in the Ministry. PNG is the only country in the Pacific to not have this leadership postion, to provide ministerial guidance and advise²⁷⁻²⁹ is crucial at times of natural disaster and pandemics.
- 8.3 Annex 6 has a letter from the Australian CNMO to all nurses and midwives in Australia she highlights 'that nurses and midwives are the frontline are fundamental in meeting community needs in this evolving and complex challenge', taking leadership and issuing directives is crucial at this time.
- 8.4 PNG is currently coping with a multitude of health security issues including natural disasters, infectious and emerging diseases, TB, antimicrobial resistance (AMR), and lack of systems to undertake national routine surveillance. However as highlighted, weak health systems are exacerbated by geographical constraints of isolation, lack of quality health workers, limited health resources and limited governmental investment in health. As described above, in the PNG, the main professional groups delivering care and providing access to care, especially in remote and rural areas which constitutes 80% of PNG population are nurses, midwives and community health workers.
- 8.5 As frontline responders and the largest health workforce in the PNG, nurses, midwives community health workers are vital in three areas:

Early detection - trained nurses and midwives have the capacity for early detection of infectious diseases. Increased knowledge and awareness of surveillance indicators will decrease detection time.

Stop the spread of disease - trained nurses have the capacity to stop the spread of disease. Data from recent infectious disease outbreaks such as Ebola and SARS **have shown the effects of "super spreaders".** This is a term used to describe **the 20/80 rule**, where a small percentage of individuals within any population infect disproportionately others. Unfortunately, as front-line responders, nurses and midwives have the potential to be super spreaders. Fortunately, correct training in detection, and infection prevention and control will protect nurses and decrease nosocomial transmission arresting the impact of super spreading.

Build trust and change behaviour within communities - Trained nurses and midwives are the interface with local communities, they play a vital role in building trust, education and changing behaviour within communities. This has been seen in vector control eg. Malaria nets dispensed through health care centres by nurses; water, sanitation and hygiene practices; immunisation coverage; sexual health and so on.

8.6 Recent studies carried out by the lead organisation WHO Collaborating Centre, University of Technology, in the Pacific have assessed leadership, faculty development, regulation, maternal and child health, health workforce needs during climate related disasters and reviewed Pacific online learning. Findings across this body of research show that health workforce education is weak across the Pacific and in the PNG with limited educators, outdated curricula, education programs that do not match health security needs, and limited continuing professional development opportunities. Other research also shows that health workers' skills, competencies, clinical experience, and expectations are often poorly matched with changing population health needs.

9. Recommendations from this report:

- 9.1 The following health workforce recommendations have been outlined following this paper:
- Finalisation of the Health Practitioner's Bill (HPB) including CPD guidance, has been drawn out since 2012 and remains an ongoing process.
- PNG is the only country in Pacific to not have Chief Nursing and Midwifery Officer which has been previously approved – aim establishment for 2020.
- Systems set up for fast and effective sharing of guidance across PNG with health centres, clinics and hospitals.
- A Curriculum Review for Nursing and Community Health Workers (CHWs) is urgently required to address the lack of educators, increase the quality of graduates, scope of practice, specialist practices and bring these curricula into the 21st century. Including
- Set up a strategy for post registration training and short courses for ongoing continuing professional development, strengthening a pathway for specialisation and educators.
- There is a 28% shortage of nursing and midwifery educators in PNG with only 50% holding an education qualification, resulting in low quality graduates. This analysis was carried with the original 8 institutes now increased to 13 with further 5 in pipeline the shortage will significantly higher.
- Although accreditation process have been improved significantly increase in number of
 institutes and private entities establishing schools outside of the legal requirements of the
 NDOH and PNG NC is putting significant pressure on PNG NC and NDOH staff.
- Whilst Australian Awards funds are essential funds they are not ring fenced and often go
 to the university administration, leaving midwifery unit without educators, transport and
 resources.
- Review funding for Midwifery as it is a post registration program so does not attract DHERST student funding.

- Urgent discussion between NDOH, DPM, DHERST, Institutes and PHA to ensure new graduates are employed and are not lost from the workforce.
- Health Workforce Survey 2008 to be carried out again to review conditions of service, location, working hours, rates of pay, retention, remuneration.
- Action the requested submission on inadequate staffing levels and infrastructure improvements for the PNG NC (following several reports and recommendations to NDOH).
- Review and build on current work on registration processes to be upgraded to an online system for safety, accessibility, security and HPB requirements.
- Provide a one page brief for DFAT summarising this paper.

ANNEX A: NURSING, MIDWIFERY AND COMMUNITY HEALTH WORKER INSTITUTES

Table 4: Institutes and accreditation status providing nursing and midwifery updated 2021.

No	A: Institutes and accreditation status providing Name of Institute & Course/s offered	Institution	
	Existing	location	Accredited Indicate with Yes or No
1	Pacific Adventist University Bachelor in Nursing and midwifery	NCD- 17 Mile	Yes
2	DWU- St Mary's School of Nursing - Diploma general nursing & midwifery	ENBP	Yes
3	University of Papua New Guinea – post reg midwifery, child, acute care, mental health		Ongoing
4	University of Goroka – midwifery		Ongoing
5	Lae School of Nursing – Diploma general nursing	Lae	Yes
6	Highlands Regional College of Nursing - Diploma general nursing	EHP	Yes
7	Mendi School of Nursing - Diploma general nursing	SHP	Yes – ongoing governance
8	Enga College of Nursing - Diploma general nursing	EP	Yes
9	Lutheran School of Nursing - Diploma general nursing & midwifery	Madang	Yes
10	St Barnabas School of Nursing - Diploma general nursing	Milne Bay	Yes
11	Nazarene College of Nursing - Diploma general nursing	Jiwaka Province	Yes

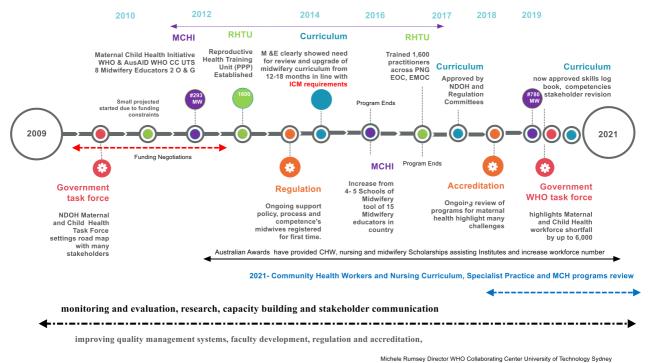
	Name of Institute/ Course/s offered Established	Institution	Accredited Indicate with Yes or
	since 2014	location	No
12	Asia Pacific Institute of Applied Social, Economic, and Technical Studies (APIASETS) Private runtraining program	NCD	Yes - work in progress to address recommendations per audit report
13	WNB Kimbe School of Nursing Diploma general nursing	WNBP	Yes - work in progress to address recommendations per audit report
14	Arawa School of Nursing Diploma general nursing	AROB	Yes - work in progress to address other recommendations per audit report
15	Sacred Heart Lemakot School of Nursing Diploma general nursing	NIP	Yes - work in progress to address recommendations per audit report
16	East Sepik - Boram School of Nursing Diploma general nursing	ESP	Working on To comply with accreditation process
17	DWU- St Benedicts School of Nursing (Kaindi) Diploma general nursing	ESP	Working on DHERST has approved no PNG NC approval
18	Kundiawa School of Nursing Diploma general nursing	Simbu Province	Work in progress To comply with accreditation processes
19	Tuna Bay School of Nursing	NCD	No
20	Prophet School of Nursing	NCD	No

Table 5: Community Health Worker Institutes

#	CHW Training Schools	Location
1	Apiasets	Hohola, NCD
2	Arawa School of Nursing (CHW)	Buka, Autonomous region of Buka
3	Baun CHWTS	Finschaffen, Lae, Morobe Province
4	GAUBIN CHWTS	Magang, Manang Province
5	KAPUNA CHWTS	Kerema, Culf Pro Province
6	Kugumanda CHWTS	Wabag, Enga Province
7	Kumin CHWTS	Mendi. Sotuher Highlands Province
8	Kundiawa CHWTS	Kundiawa, Simbu Province
9	Ongamuga CHWTS	Goroka
10	Raihu CHWTS	Vanimo. WSP
11	Rummginae CHWTS	Daru, WP
12	Salamo CHWTS	Alotau, MBP
13	St Gerard's veifa'a CHWTS	Centeral Pr Province
14	St Margaret's CHWTS	ORO P Province
15	Telefomin CHWTS	Vanimo, WSP
16	Tinsley CHWTS	Mt. Hagen, WHP
17	Tombil CHWTS	Mt. Hagen, WHP
18	Kuickila CHWTS	Centeral Province
19	Lemakot CHWTS	Kavieng, New Ireland Provenance

ANNEX B: IMPROVING PNG MATERNAL AND CHILD HEALTH EDUCATION – 10 YEARS Figure 1: Improving PNG maternal and child health education – 10 years





ANNEX C: PNG NURSING COUNCIL'S ROLE IN ACCREDITING EDUCATIONAL INSTITUTES - INCLUDING AUDITS AND RECOMMENDATIONS FROM CHW AND NURSING PRINCIPALS' MEETING

Audits of the Schools of Nursing³⁰ and Community Health Workers³¹ (CHW) training institutes funded by Australian aid DFAT were undertaken in 2012 to provide recommendations on the limited pre-service capacity. The Nursing Diagnostic Audit addressed the workforce crisis by recommending an increase from 215 nursing graduates in 2012 to 456 annual nursing graduates by 2016. To enable this, a variety of recommended measures were outlined: infrastructure improvements in the schools, continuation of the Australian Awards scholarships and an increase in educators. Other areas seen as critical were curriculum review, programs to build faculty capacity and continuing professional development for educators. The audit recommendations were again reviewed and ratified at the SON and CHW Principals Meeting and by the Secretary of Health in February 2015.

PNG NC Accreditation Role

The responsibility of the PNG NC is to protect and promote the public interest through the maintenance of nurses' standards of conduct and competence. To assist in achieving this purpose, the Council has a statutory mandate to approve and monitor educational

programs that lead to registration. The ultimate goal of the PNG NC is to ensure that graduates of nursing and midwifery education programs are competent practitioners who recognize and value the importance of the partnership the profession has with the community³².

To be able to try and address the outlined service capacity and its mandated role in 2014 the PNG NC set up an annual program to audit schools each year. In year 2014, the schools audited were Enga School of Nursing (re-established School), St Barnabas School of Nursing, St Marys School of Nursing and Midwifery, and Lae School of Nursing. Five midwifery curriculums were also approved. A further four schools have been planned for 2015. Again this program can only be carried out with staffing and financial support from the NDoH.

Accrediting Pre-Registration Programs

The Nursing Council accredits current Diploma and Degree Programs (which are now University Programs under the Higher Education System)^{5,33}. The PNG NC National Framework for the accreditation, monitoring and evaluation of Nursing and Midwifery education programs outlines the minimum standards of any institution to be accredited as a nursing institution.

Involvement of regulatory body with curriculum development

The PNG NC Education Committee (NCEC) approves the proposed curriculum along with a stakeholder consultation including Office of Higher Education and NDoH; it then goes to the PNG NC for final review. Once this final review has been completed, the curriculum is placed within the Health Curriculum Advisory Committee for formalised approval⁵.

Education program monitoring process

As a component of the quality process, all Tertiary Institutions conducting an accredited Nursing/Midwifery education program should submit an annual monitoring report on the progress of the course to the NCEC³².

Statement from the Secretary of Health

The expansion of health worker training schools is supported by the Secretary of Health, Mr Kase. As evidence of this, in March 2015 there was a ground-breaking ceremony for a new nurse training school to be introduced in West New Britain. Mr Kase took the opportunity to remind training providers of the importance of undergoing the appropriate accreditation processes before the training programs can commence³⁴.

"We need to maintain the standard of healthcare in PNG. For this reason, health worker training providers must be accredited through the PNG Nursing Council and Medical Board. This is a legal requirement for the graduates to practice in the PNG health sector and ensures that our health workforce continue to be highly competent in their roles and be responsive to the needs of our people." ³⁴

New educational institutes are being established across PNG as a response to the health workforce crisis, however as outlined by the Sectary of Health these institutes must be accredited and follow due process. It is recognised that the existing institutes should be strengthen^{30,31} in the current situation with a critical shortage of educators, a program to increase educator numbers is required before more schools are established. The experience of the double major program shows the negative impact on individuals and institutes that do not follow the existing mandated accreditation process.

Principals' and PNG NC Board Meeting Recommendations

To ensure health workforce of PNG continues to grow several recommendations have been recognised by the Nursing Council and The Principals' Meeting which were ratified by the Secretary of Health in March 2015 and PNG NC Board recommendations outlined in annual reports 2015 and 2017:

- 1. Urgent need to review both the nursing and community health worker curriculums in line with the new National Health Plan 2011-2020. (Ongoing implementation of new midwifery curriculum is also required).
- 2. Ongoing Preceptorship training urgently needed through support from the NDoH.
- Strengthen partnership with NDoH in terms of communication, continuing professional development, and ensuring consistency in funding including salaries for state and church schools.
- 4. It is essential that all training institutes and students have access to, and are provided, copies of treatment books and national standards.
- 5. Training institutes are in urgent need of internet services to enable high quality education provision to students.
- 6. Continued input for infrastructure improvements following NDoH DFAT Diagnostic Audits carried out in all nursing and CHW institutes.
- 7. It is essential the Principals of all training institutes of nursing, midwifery and CHWs meet annually.

ANNEX D: PNG NURSING COUNCIL REGISTRATION PROCESSES

Provisional registration for nurses

To register at the PNG Nursing Council for provisional registration, nurses must show evidence of the following to be able to be employed in PNG, whether in the Government, Church, NGOs or private sector. Applicants must have:

- · Completed 2000 theory hours
- Completed 1600 hours in clinical practise
- Provide an Institutional Academic Award
- Completed G4 Statement of Competency
- Character references

Nursing graduates from approved curriculum are given provisional registration. This is recorded in the Register Book as graduate nurse with provisional registration, but the graduates' details are not added to the HCPRS database until they receive full registration, and the Nursing Schools do not keep lists to record who has been registered or who has not been registered.

From provisional to full registration

After six months clinical work, the provisionally registered nurse must apply for a full registration to practice as a nurse in PNG. A full registration fee is required. This comes from the hospital or employer and may come individually or in bulk. Most try to apply for full registration, individually. Historically there has been no tracking for those who have been registered provisionally and when they become fully registered, especially as provisional registrants were not uploaded into HCPRS. Data analysis carried out in 2014 showed that since 2009, 1102 graduate nurses were issued provisional registration, very few have continued onto request full registration (see recommendations).

If a nurse has had a provisional registration for more than 6 months, they are required as a matter of urgency to apply for a full registration. Under the Medical Act 1980 health practitioners are required to have a full registration to be registered to practice.

Midwifery registration

Registered nurses undertake a 12 month midwifery program in 5 institutes which is at bachelor level. One completed, the midwifery graduate must meet the PNG NC reporting requirement then they receive full registration as a midwife.

Overseas nurses and midwives

PNG recognises trained nurses and midwives in other countries such as Australia, New Zealand, Philippines, Fiji and other South Pacific Islands but has no agreement with any of these countries. All applicants for registration from overseas must produce the PNG NC required documentation:

Once they meet the requirements set by the PNG NC they are given a provisional registration for six months. Full registration is granted after completion of all the requirements and the payment of a fee by the applicant.

Outstanding registrants

Double Major (12 month midwifery and paediatrics course) graduates have been a registration issue since 2004 around 216 practitioners were not registered as the curriculum was not accredited by the Nursing Council (as outlined below). This situation is now urgent.

Double Major Registration Skills Log Book and Supervisors Guide will be uploaded to the PNG NC website. NDOH who coordinate training are providing skills training for supervisors to provide a process to enable registration of this group of practitioners.

ANNEX E: PNG NC Registered Comparison HCRPS 2012 and 2014-2016 ATP Registration renewals

Table 5. Comparison of current practicing PNG NC registrants against old HCRP data by Province.

No. Province	HCRPS prior to 2012	# of Renewals 2014- 2016	% of renewed registrants
1 Bougainville Province	553 (3.5%)	152 (3.5%)	27%
2 Central Province	153 (1%)	25 (0.5%)	16%
3 East New Britain Province	1111 (7%)	276 (6.5%)	25%
4 East Sepik Province	718 (4%)	156 (4%)	22%
5 Eastern Highlands	1003 (6%)	304 (7%)	30%
6 Enga Province	412 (2.5%)	147 (3.5%)	36%
7 Gulf Province	250 (1.5%)	64 (1.5%)	26%
8 Hela Province	14	2	14%
9 Jikawa Province	N/A	5	0

10 Madang Province	843 (5%)	141 (3%)	17%
11 Manus Province	239 (1.5%)	28 (1%)	12%
12 Milne Bay province	703 (4.5%)	299 (7%)	43%
13 Morobe Province	1436 (9%)	398 (9.5%)	28%
14 National Capital District	2471 (15%)	818 (19%)	33%
15 New Ireland Province	457 (3%)	136 (3%)	30%
16 Oro Province	326 (2%)	95 (2%)	29%
17 Other Country	172 (1%)	6*	3%
18 Simbu Province	402 (2.5%)	144 (3%)	36%
19 Southern Highlands Province	740 (5%)	256 (6%)	35%
20 Unknown	1720 (10%)	1	0.06%
21 West New Britain Province	449 (3%)	128 (3%)	28%
22 West Sepik Province	434 (3%)	130 (3%)	30%
23 Western Highlands Province	1021 (6.5%)	364 (8.5%)	36%
24 Western Province	559 (3.4%)	231 (5%)	41%
Totals	16,186	4306	27%

Note: A further 1,000 to be incorporated in to the renewal figure of 4306. Some will be second payment for incomplete payments due to increase in registration fees. * overseas renewls were low in this period compared with actual registration of 224 overseas practitioners.

Table 6. Practising registrants PNG Nursing Council by Province and Hospital

Historical data HCPRS prior to 2012	Paed	Specialist	Midwives	Nurses	Aids	Other	Total
National Central District (NCD)			142	1396	404	529	2471
PMGH - level 7main referral hospital							804
Renewal of registration for NCD 2014-2016							818
PMGH level 7main referral hospital	4	54	28	102	58	163*	409

PNG Nursing Council agreed to following recommendations for its 2014-2015 Annual Report 5.

ANNEX 3: COVID ADVICE COMMONWEALTH CHIEF NURSING AND MIDWIFERY OFFICER INFORMATION



Australian Government

Department of Health

Commonwealth Chief Nursing and Midwifery Officer

Dear Nurses and Midwives,

I'm writing to update you on the COVID-19 outbreak situation in Australia and internationally and to outline the Commonwealth's current and future support for the central role you are playing in our national response.

Nurses and Midwives on the frontline are fundamental in meeting the community needs in this evolving and complex challenge. There is the very real possibility that larger scale community outbreaks will occur across Australia, placing a significant burden on the health and aged care systems, in which you play a critical role.

Communication

There has been a significant amount of advice and information already provided to health professionals. I recognise that the evolving nature of this outbreak has required public health advice to evolve rapidly with the emerging epidemiology. This has made it more challenging for people to keep it up to date causing some confusion and a perception of inconsistency of information and information gaps. We will be undertaking a broad community education campaign on COVID-19. One of the important messages of the campaign will be the value of basic standard hygiene messages (hand washing, cough etiquette, social distancing) in preventing transmission. Nurses and Midwives are highly trusted professionals in our community, and it is important that you play a role in communicating that message to your patients, family and friends along with general balanced information about this virus.

Situation as at 10 March 2020

As you will be aware, the international situation has changed significantly in the last few weeks. Cases have now been reported in over 105 countries, some with sustained widespread community transmission. Despite our success in containing the initial cases associated with travellers from China, we are now seeing the expected second wave of imported cases from a number of countries (most notably Iran). We have evidence of limited community transmission in Sydney. New imported cases are being seen every day, some from countries not previously identified as high risk. It is no longer realistic that we will prevent further importation of cases, and further local outbreaks seeded from imported cases are likely.

Disease characteristics

I will share with you our current state of knowledge about COVID-19. It is clear that a great majority of people with COVID-19 infection (>80%) have mild disease, not requiring any specific health intervention. This mild disease contributes to the high transmissibility of the virus, as many people with infection will continue working and interacting with the community because their symptoms are so mild. There is very little evidence of significant COVID-19 disease in children. Initially, it was suggested that children were less susceptible to infection but more recent evidence supports the fact that children may be infected, in many cases without being aware of symptoms. The role children play in transmission is unknown.

Current approach to response

At present our response, under the Australian Health Sector Emergency Response Plan for COVID-19 (www.health.gov.au/Covid19-plan),is focused on early identification of cases, isolation, contact tracing and quarantine where indicated - under the supervision and direction of the public health unit in each state or territory.

If more widespread community transmission occurs, the focus will shift to early detection and home isolation of cases to prevent or delay transmission, with less emphasis on identifying contacts who are generally unlikely to be very infectious, unless they themselves also develop symptoms. We will let you know if and when such a shift in the public health response is indicated. Even in a large scale outbreak, isolation of as many cases as possible can play a critical role in flattening the epidemic curve.

Reducing exposure in health care settings

It is clear that, with increasing cases of COVID-19, there is benefit in more sophisticated strategies to prevent the co-mingling of suspect or proven cases with other patients in health care settings. We have previously advised members of the community that, if they believe that they could potentially have or be exposed to COVID-19, they should phone their GP or local health service and seek advice before attending. If followed, this practice has allowed the practice or hospital to make arrangements for isolation and testing.

As case numbers increase, there is a need for new strategies. We will shortly be announcing to the community an expansion of the COVID-19 national hotline (1800 020 080). This hotline will operate 24 hours a day, seven days a week. Expansion of the national hotline is part of our strategy to support general practices to manage the flow of cases.

People who believe that they may have been exposed to, or have, COVID-19 will be encouraged to call the national hotline to seek advice. A standard protocol for the call centre operators will be provided. We will share call centre information and the triage protocol with you shortly, as many GP practices have asked to have the same protocol available for their reception staff to ensure consistent messaging and patient disposition.

Personal Protective Equipment

There have been some mixed messages about what personal protective equipment (PPE) is required in the clinical assessment of potential COVID-19 cases. All of the evidence currently suggests that droplet spread is the main mode of transmission and that surgical masks are adequate (and much easier to fit than P2 masks). For your reference, the current PPE guidelines endorsed by the expert COVID-19 infection control committee is available on the Department of Health website, www.health.gov.au/Covid19-health-professionals. It is important to emphasise that all current evidence suggests that if you follow the infection control and PPE requirements you and your family will be protected. No one can accurately predict how the COVID-19 outbreak will develop in Australia. Our collective response has to be flexible and collaborative. The Australian Government has committed to provide the necessary resources to support the response in whatever form it needs to take.

Yours sincerely

Alison J McMillan Chief Nursing and Midwifery Officer, Commonwealth Department of Health 11th March 2020, GPO Box 9848, Canberra ACT 2601, www.health.gov.au

ANNEX 4: PNG NURSING COUNCIL HEALTH WORKFORCE COVID ISSUES BRIEF BRIEF - 20TH March 2020 updated 10/11/20

As frontline responders and the largest health workforce 71% in the PNG (WHO 2020 State of Worlds Nursing Report is comparable at 72%), nurses, and midwives community health workers are vital for infection control in three areas:

Early detection - trained nurses and midwives have the capacity for early detection of infectious diseases. Increased knowledge and awareness of surveillance indicators will decrease detection time.

Stop the spread of disease - trained nurses have the capacity to stop the spread of disease. Data from recent infectious disease outbreaks such as Ebola and SARS **have shown the effects of "super spreaders"**. This is a term used to describe **the 20/80 rule**, where a small percentage of individuals within any population infect disproportionately others. Unfortunately, as front-line responders, nurses and midwives have the potential to be super spreaders. Fortunately, correct training in detection, and infection prevention and control will protect nurses and decrease nosocomial transmission arresting the impact of super spreading.

Build trust and change behaviour within communities - Trained nurses and midwives are the interface with local communities, they play a vital role in building trust, education and changing behaviour within communities. This has been seen in vector control eg. Malaria nets dispensed through health care centres by nurses; water, sanitation and hygiene practices; immunisation coverage; sexual health and so on.

Following summary and recommendations have been developed from the attached PNG NC health workforce issues paper and meeting held in NDOH 19.3.20 and meetings throughout the year. Section # related to paper.

Summary points:

- Nurses, midwives and CHWs are the main professional component of the health workforce 71% registered, with allied health 12%, dental 1%, medical practitioners 12%, medical specialists 0.5%, health extension officers 3.5% (#2.1);
- In PNG 80% of population live try to access health in rural and remote areas;
- Nurses currently have no access to PPE, soap, sanitisers, gloves across PNG (#8.1);
- No infection control training, short courses or continuing professional development opportunities (#6,7,8);
- PNG Nursing Council registration indicated annual nursing student graduates exceeded projections tripling from 157 to 467 (Table 2);
- An increase from 8-17 nursing institutes, with a further 3 in the pipeline yet to be accredited (Annex 1), current graduates not being employed;
- Curriculums do not follow National Health Standards 2011-2020
- Nurses and midwives stock around 5,500, CHWs around 4,500, this is well below WHO
 baseline benchmark of 23 per 10,000 population which would equate at = 20,171 health
 workforce (#2.2);
- No information currently available on retired practitioners, very few came up in an age search of registration data.
- Registration systems currently weak with only one administrator, assistant will be required should large numbers of overseas practitioners need to be registered under Medical Registration Act 1980.
- Lack of CNMO strategic governance and leadership for 71% of workforce in NDOH (#8.2)

Recommendations

DFATs support and advice to health sector around these issues would be very helpful:

- Urgently required previously approved ministerial Chief Nursing and Midwifery Officer for coordination, advice and ministerial guidance.
- Urgent discussion between NDOH, DPM, DHERST, health workforce Institutes and PHA required to ensure new graduates are employed and are not lost from the workforce.
- Strengthen regulatory capacity in case there is a influx of overseas practitioner who will require urgent registration.
- Urgent provision of PPE, soap, sanitisers, gloves across health facilities in PNG, starting with provincial hospitals.
- Set up a communication strategy text system for advise
- Assist NDOH WHO in provision of guidance on infection control
- Provide infection control training
- Central coordination of many short course provided through out PNG often outside of NDOH training.

Ongoing

- Urgent work on CHW and Nursing old curriculums and faculty development to 21st century practice
- Review of post registration specialist practice programs mental health, critical care, child care, others required

Not considered in this brief - medications or higher levels of isolation, intensive care provision for serious cases across PNG. Some health centres still operate with TB patients in medical wards and many health facilities do not follow NDOH National Health Standards (2011-2020) that set out infection control standards (space between beds etc) and guidance.

Note several other projects have been carried out over 2021 including:

- Support of JID DFAT CoHELP
- Working with ANGAU staff
- Setting up a COVID resources WhatsApp and communising to try and advice on misinformation
- WHO CC UTS Face book links and posts
- Development of Basic Psychosocial Skills: Training for COVID-19 Responders see Annex 5

ANNEX 5: BASIC PSYCHOSOCIAL SKILLS ONLINE TRAINING





Basic Psychosocial Skills online Training is a FREE program for those affected by the pandemic designed to build resilience and mental health wellbeing for first responders and frontline health staff.

The FREE online course:

- Focuses on personal well-being
- Explores supportive communication in everyday interactions
- Provides a practical framework to enable first responders to support others to problem-solve and make healthy decisions
- Examines how to recognise emotional patterns and provide support to individuals
- Provides a certificate on completion

View a detailed video on how to sign up: https://youtu.be/-Cguw2SCHOQ

Enrol for this FREE online course: http://open.uts.edu.au/COVID-19-responders-en.aspx

Read instructions on how to sign up: https://bit.ly/3bEJGkx

Read more about the basic psychosocial skills course: https://bit.ly/3sgZpf7

You will need an email account to register and log in for the online course.

For more information and full Power Point https://bit.ly/3cZCGy2 with facilitation notes, please contact michele.rumsey@uts.edu.au

FAQs

Which Brower is better to use for this course?

It is recommended to use Google Chrome for this online course.

How many resources are provided in the Basic Psychosocial Skills training program? The program provides 3 resources. <u>Guidance report</u>, short <u>online course</u> and <u>presentation</u> with facilitation notes.

How many languages is the guidance offered in?

While the online course is only in English, the guidance report is provided in 28 languages.

Is the online course time-bound?

No. The online course is self-paced and takes an average of 3 hours to complete with a short quiz and a certificate awarded.

ANNEX 6 - COORDINATION AND COLLABORATION

A list/overview of stakeholders collaborated with have been include however over the 6year period 1, 000s of nurses and midwives have been met emailed and collaborated with. A variety of social media tools have been used, WhatsApp, LinkedIn, Facebook, Twitter, Zoom, Go meet, Webex, text and phone calls.

Several database have been developed with all committees and contact information.

Name	Position	Organisation
Dr. Nina Pangiau	Registrar, PNG Nursing Council	PNG NC
Peter Pindan	Chair, PNG Nursing Council	NDoH
Total I maan	PNG Nursing Council Registration Committee	PNG NC
	PNG Nursing Council, Council Board	PNG NC
Dr. Paison Dakulala	Deputy Secretary for Health	NDoH
Sr. Eunice Laim	Surgeon - Operating Theatre	Port Moresby General Hospital (PMGH)
Mr. Bernard Rutmat	Deputy CEO	Christian Medical Council
Mr. Frederick Kebai	PNGNA	Laloki Psychiatric Hospital
Thelma Ali	Medical Standards	NDoH
Mary Therese Apini	Technical Advisor- Allied Standards and Accreditation	NDoH
Pamela Kari	Technical Officer- Professional Nursing Standards and	NDoH
Faillela Kall	Accreditation	NDON
Mary Kililo	TA – Training HR	NDoH
Dr. Philip Golpak	Deputy Director Medical Services	Pathology Dept, PMGH
Sr. Jeanette Maris	NCD Health Services	Gordons, NCD
Sr. Romana Kumsombi	NCDHS	Gordons
Mr David Weeden		Oil Search
Annie Rose So-onguku	Midwife	PAU
Mr Wallace - White Kintak	Principle, plus staff	Nazarene School of Nursing
Mary Panohai	Dean of Nursing, plus staff	St Marys Vunapope School of Nursing (East New Britain)
Mr. Manase Moya	Principle and staff	Lae SON
Mr. Virtus Amugar	Principle and staff	Madang SON/M
Mr Sadi	A/Principle and staff	Highlands SON
Mr Joseph lupi	HR Manager	NDoH
Mr John Mondo	IT Manager	NDoH
Dr Lochetto	MCH Advisor	WHO-PNG
Dianne Dagam	Asst. Program Manager, Health	DFAT, PNG
Daisy Raburabu	Australian Aid, PNG	DFAT, PNG
Susan Nalu	Family Health Services Coordinator	NCD Health Office
Dr Nancy Buasi	Midwifery Coordinator UPNG	Midwifery Society
Sr. Carol Hosea	Director, Nursing Clinical (DDNC)	POM GEN - 248106
Sr. Jennifer Pyakalia	Unit Coordinator, Obstetric & Gynae	POM GEN
Sr Daniels	Assistant Director Nursing Services	PII
Sr Leisa Stallard	Drector of Nursing Services	PII
Samuel N J David	HR Director	PII
Francis Hualupmomi	A/Assistant Director OHE	The office of Higher Education
Charles Mabia	Acting Director OHE	The office of Higher Education
Sulphain Passingnan	Education Officer, In Service Training	NDoH
Julie Dopsie	Education Officer Pre Service Training	NDoH
Julian Aihi	Overseas Training Officer, Staff Development	NDoH
Aketa Tiaon-lentake	Senior Lecturer	Pacific Adventist University (PAU)

MR Stucy Langer Principal Ms Noreen Tabua Principal Ms Many Fonaha Principal Ms Many Fonaha Principal Ms Many Fonaha Mr Villace Kintak Principal Ms Noreen Ms Many Fonaha Ms Walface Kintak Principal Ms Noreen Ms Many Fonaha Ms Noreen Ms Ms Noreen Ms Noreen Ms Noreen Ms Ms Noreen Ms	Michele Rumsey WHO Collaborati	ng Centre Huiversity Sciences Sydney	PAU
Mis Lucy Langer Mis Noreen Tabbue Principal Mis Mary Ponahai Mis Mary Mis	Mr Saidi Lani	Care Taker Principal	Highlands Regional School of Nursing
MR Manase Moya Principal Mr Manase Moya Mr Manase Moya Mr Frincipal Mr Wallace Kintak Mr Wallace Kintak Principal Mr Vallace Kintak Mr Vallace Kintak Principal Mr Vallace Kintak Mr Vallace Kintak Principal Mr Vallace Kintak Mr Vallace Kintak Principal Dean UPRG School of Nursing Prof. Askapi Principal Sr. Danne Kono Lecturer PAU Dean UPRG School of Medicine & Health Sclence PAU Sr. Rosemary Akaina Surgical Unit PMGH Sr. School of Medicine & Health Sclence PAU Prof. Makapi Principal Princip	Ms Lucy Langer	Principal	
Mr. Mary Ponahai Principal Lue School of Nursing Principal St. Mary's Vunapope School of Nursing Mr. Wallace Kintak Principal Lutheran School of Nursing Mr. Wallace Kintak Principal Nazarene School of Nursing Enga College of Nursing UPNG - School of Medicine & Health Science PAU UPNG - School of Medicine & Health Science PAU UPNG - School of Medicine & Health Science PAU Enga College of Nursing PMGH Science Scienc	Ms Noreen Tabua	Principal	_
Mrs Mury Ponahai Mr Vitus Amuga Principal Mr. Wallace Kintak Principal Dean UPNG - School of Nursing Br. Backelow of Medicine & Health Sclence PrOf. Nakapi Teviturani Sclence PrOf. Nakapi Teviturani Sclence PrOf. Nakapi Teviturani Sclence PrOf. Nakapi Teviturani Scr. Bosenary Akalna Surgical Unit PMGH Sr. Edna John Surgical Unit PMGH Sr. Soseh Sr. Soseh Sr. Surgical Unit PMGH Sr. Antonia Robinson EPI Program Officer Nic Wulatal Director - Public Health Mr. Pamela Kairi Prochiaci Officer - (Nursing Prof. Standards) Mr. Danela Kairi Prochiaci Officer - (Nursing Prof. Standards) Mr. Danela Kairi Prochiaci Officer - (Nursing Prof. Standards) Mr. Staling Specialist Midwife Labour Ward Mr. Staling Sr. Roselyn Kail Sr. Roselyn Kail Sr. Roselyn Kail Sr. Elizabeth Natera Mr. David Kundam Mr. Pius Kalambe Analyst Programer, Information Comm. Toch. (ICT) Nobri Rosemary Jogo Technical Officer - Nursing Clinical Standards Nobri Sulpain Passingan Coordinator - Knursing Standards Nobri Mr. Baid Kundam Mr. Baid Kundam Mr. Pius Kalambe Analyst Programer, Information Comm. Toch. (ICT) Nobri Rosemary Jogo Technical Officer - Nursing Clinical Standards Nobri Sulpain Passingan Coordinator - Nursing Standards Nobri Mr. Billy Naide CEO Milniam Loval Coordinator - Nursing Standards Nobre Milne Bay PHA Mr. Billy Naide Sr. Elimi Kaptigau Padiatric Nurse / Manager Provincial Hospital Mr. Mallace White Kintak Mr. Milne Bay PHA Mr. Wallace White Kintak Mr. Milne Bay PHA Mr. Hagen Provincial Hospital Mr. Males	Mr Manase Mova	•	
Mr. Wallace Kintak Mr. Wallace Wallace Mr. Billy Naide Mr. Billy Naide Mr. Wallace Wintak		•	S
Mr. Wallace Kintak Principal Enga College of Nursing Enga College of Nursing Enga College of Nursing Prof. Nakapi Tefuurani Dean UPNG - School of Medicine & Health Services College of Nursing UPNG - School of Medicine & Health Services Research Value of Nursing UPNG - School of Medicine & Health Services Research Value of Nursing UPNG - School of Medicine & Health Services Research Value of Nursing UPNG - School of Medicine & Health Services Research Value of Nursing UPNG - Nursing Unit PMGH - School of Nursing Value of Nursing Unit PMGH - School of Nursing Upricing - Public Health PMGH - NCD Health Services Medical Standards - NDOH Many Stating Specialist Midwife Labour Ward Medical Standards - NDOH Mary Stating Specialist Midwife Labour Ward PMGH - Nazarene College of Nursing Sr. Pauline Kalate Acting Principal Les School of Nursing Sr. Pauline Kalate Acting Principal Les School of Nursing Sr. Mary Akis Nurse Nurse School of Nursing Sr. Mary School of Nursing Sr. Mary School of Nursing Mr. David Kundam Human Resource Trainer School of Nursing Mr. David Kundam Human Resource Trainer School of Nursing Medical Standards Nurse Millen Research Medical Standards Nurse Millen Research Medical Standards Nurse Millen Research Medical Standards Nurse Medical Standards Nurse Millen Research Medical Standards Nurse Medical Standards Nurse Millen Research Medical Standards Nurse Medical Standards Nurse Medical Standar	•	•	I
Ms Noelyn Koatalo Principal Enga College of Nursing Prof. Nakapi Terlurani Dean UPNG - School of Medicine & Health Science Sr. Dianne Kono Lecturer PAU Science PAU Science Sr. Rosemary Akaina Surgical Unit PMGH PMGH Sr. Caha John Surgical Unit PMGH PMGH PMGH Sr. Caha John Surgical Unit PMGH PMGH PMGH PMGH PMGH PMGH PMGH PMGH	<u> </u>	•	_
Prof. Nakapi Tefuarani Dean		•	S
Sr. Dianne Kono Lecturer PMGH Sr. Rosemary Akaina Surgical Unit PMGH Sr. Rosemary Akaina Surgical Unit PMGH Sr. Cosah Surgical Unit PMGH Sr. Osaah Surgical Unit PMGH Sr. Osaah Surgical Unit PMGH Sr. Antonia Robinson EPI Program Officer North PMGH Sr. Antonia Robinson EPI Program Officer North PMGH Sr. Antonia Robinson EPI Program Officer North PMGH Ms. Pameia Kairi Technical Officer - (Nursing Prof. Standards) Medical Standards - NDOH Ms. Pameia Kairi Technical Officer - (Nursing Prof. Standards) Medical Standards - NDOH Msr. Stiating Specialist Midwife Labour Ward PMGH Msr. Stiating Specialist Midwife Labour Ward PMGH Sr. Roselyn Kali Nurse Nararene College of Nursing Sr. Roselyn Kali Nurse Nararene Officer Standards & Accreditation North Msr. Standards	_	•	UPNG - School of Medicine & Health
Sr. Edha John Surgical Unit Sr. Oseah Surgical Unit Sr. Oseah Surgical Unit Sr. Antonia Robinson Dr. Niko Wustai Dr. Niko Wustai Dr. Niko Wustai Dr. Niko Wustai Dr. Laka Varage Manager - Workforce Standards & Accreditation Ms. Pamela Kalrit Technical Officer (Nursing Prof. Standards) Dr. Laka Varage Manager - Workforce Standards & Accreditation Medical Standards - NDOH Mary Sitaing Specialist Midwife Labour Ward PMGH Mury Staining Specialist Midwife Labour Ward PMGH Mury Staining Specialist Midwife Labour Ward PMGH Nurse Nazarene College of Nursing Sr. Roselyn Kail Nurse Nazarene College of Nursing Sr. Falliabeth Natera Midwifery Coordinator Lutheran School of Nursing Sr. Elizabeth Natera Midwifery Coordinator Lutheran School of Nursing Mr. David Kundam Mr. Plus Kalambe Analyst Programmer, Information Comm. Tech. (ICT) NoDH Rosemary Jogo Technical Officer - Nursing Clinical Standards Modical Standards Sulpain Passingan Coordinator - (Inservice Training), HR Health Training NCD Health Services Miriam Lovai Coordinator - Nursing Standards NCD Health Services MISS NCD, PNG Sr. Elini Kaptigua Hannah Peart Vouth with a Mission Mr. Billy Natide CEO Miline Bay PHA Sr. Sneige Navis Sr. Sineji Kila Senior Nurse Manager Mine Bay PHA Mr. Billy Natide Senior Nurse Manager Mine Bay PHA Mr. Billy Natide Deputy Director Ourdinive Health Services (DCHS) Mine Bay PHA Mr. Miline Bay PHA Mr. Hagen Provincial Hospital Mr. Miline Bay PHA Mr. Hagen Provincial Hospital Mr. Miline Bay PPA Mr. Hagen Provincial Hospital Mr. Miline Bay PPA Mr. Hagen Provincial Hospital Mr. Miline Bay Provincial Hospital Mr. Miline Bay Provincial Hospital Mr. Malager Miline May Provincial Hospital Mr. Malager Provincial Hospital Mr. Hagen Provincial Hospital Mr. Medical Superintendent Mr. Joseph Turian Director Nursing Servic	Sr. Dianne Kono	Lecturer	
Sr. Edha John Surgical Unit Sr. Oseah Surgical Unit Sr. Oseah Surgical Unit Sr. Antonia Robinson Dr. Niko Wustai Dr. Niko Wustai Dr. Niko Wustai Dr. Niko Wustai Dr. Laka Varage Manager - Workforce Standards & Accreditation Ms. Pamela Kalrit Technical Officer (Nursing Prof. Standards) Dr. Laka Varage Manager - Workforce Standards & Accreditation Medical Standards - NDOH Mary Sitaing Specialist Midwife Labour Ward PMGH Mury Staining Specialist Midwife Labour Ward PMGH Mury Staining Specialist Midwife Labour Ward PMGH Nurse Nazarene College of Nursing Sr. Roselyn Kail Nurse Nazarene College of Nursing Sr. Falliabeth Natera Midwifery Coordinator Lutheran School of Nursing Sr. Elizabeth Natera Midwifery Coordinator Lutheran School of Nursing Mr. David Kundam Mr. Plus Kalambe Analyst Programmer, Information Comm. Tech. (ICT) NoDH Rosemary Jogo Technical Officer - Nursing Clinical Standards Modical Standards Sulpain Passingan Coordinator - (Inservice Training), HR Health Training NCD Health Services Miriam Lovai Coordinator - Nursing Standards NCD Health Services MISS NCD, PNG Sr. Elini Kaptigua Hannah Peart Vouth with a Mission Mr. Billy Natide CEO Miline Bay PHA Sr. Sneige Navis Sr. Sineji Kila Senior Nurse Manager Mine Bay PHA Mr. Billy Natide Senior Nurse Manager Mine Bay PHA Mr. Billy Natide Deputy Director Ourdinive Health Services (DCHS) Mine Bay PHA Mr. Miline Bay PHA Mr. Hagen Provincial Hospital Mr. Miline Bay PHA Mr. Hagen Provincial Hospital Mr. Miline Bay PPA Mr. Hagen Provincial Hospital Mr. Miline Bay PPA Mr. Hagen Provincial Hospital Mr. Miline Bay Provincial Hospital Mr. Miline Bay Provincial Hospital Mr. Malager Miline May Provincial Hospital Mr. Malager Provincial Hospital Mr. Hagen Provincial Hospital Mr. Medical Superintendent Mr. Joseph Turian Director Nursing Servic	Sr. Rosemary Akaina	Surgical Unit	PMGH
Sr. Oseah Sr. Antonia Robinson EPI Program Officer Nr. Niko Wuatai Director - Public Health NCD Health Services Nr. Niko Wuatai Director - Public Health NCD Health Services Ns. Pamela Kairi Technical Officer - (Nursing Prof. Standards) Medical Standards - NDOH Ned Varage Manager - Workforce Standards & Accreditation Medical Standards - NDOH Medical Standards - Nursing Sr. Pauline Kalate Acting Principal Les School of Nursing Mr. David Kundam Human Resource Trainer Mr. David Kundam Human Resource Trainer Mr. Pavid Kundam Mr. Pavid Kundam Human Resource Trainer Mr. Pavid Kundam Mr. Mr. Milane Kundam Mr. Milane Kundam Mr. Milane Kundam Mr. Milane Kundam Mr. Malage Mr. Mager Mr. Hagen Provincial Hospital Mr. Milane Kundam Mr. Magen Provincial Hospital Mr. Magen Provincial	•		PMGH
Sr. Artonia Robinson EPI Program Officer Dr. Niko Wuatai Director - Public Health N. Pamela Kairi Technical Officer - (Nursing Prof. Standards) Modical Standards - NDOH Mary Sitaing Specialist Midwife Labour Ward FMGH Mary Sitaing Sr. Roselyn Kali Nurse Nazarene College of Nursing Sr. Rauline Kalate Acting Principal Lae School of Nursing Sr. Elizabeth Natera Midwifery Coordinator Sr. Mary Akis Nurse Alayst Programmer, Information Comm. Tech. (ICT) Rosemary Jogo Technical Officer - Nursing Clinical Standards Medical Standards Medical Standards Medical Standards Medical Standards Modical Standards NDOH Rosemary Jogo Technical Officer - Nursing Clinical Standards Modical Standards Modical Standards Modical Standards Modical Standards NDOH Rosemary Jogo Technical Officer - Nursing Standards Modical Standards Modical Standards NDOH Rosemary Jogo Technical Officer - Nursing Standards NDOH NCD, PNG Technical Officer Standards NDOH NCD, PNG Tec			
Dr. Niko Wuatai Director - Public Health NCD Health Services Ms. Pamela Kairi Technical Officer - (Nursing Prof. Standards) Medical Standards - NDOH To. Laka Varage Manager - Workforce Standards & Accreditation Medical Standards - NDOH Mary Staing Specialist Midwife Labour Ward PMGH Sr. Roselyn Kali Nurse Nazarene College of Nursing Sr. Pauline Kalate Acting Principal Lae School of Nursing Sr. Elizabeth Natera Midwifery Coordinator Lutheran School of Nursing Mr. Plus Kalambe Nurse St. Mary's School of Nursing Mr. David Kundam Human Resource Trainer Medical Standards Medical Standards Mr. Plus Kalambe Analyst Programmer, Information Comm.Tech. (ICT) Mr. Plus Kalambe Analyst Programmer, Information Comm.Tech. (ICT) Mr. Shaling Analyst Programmer, Information Comm.Tech. (ICT) Training Sr. Sheila Sete Coordinator - (Inservice Training), HR Health Training Sr. Sheila Sete Coordinator - Nursing Standards NCD, PNG Miriam Lovai Coordinator - Nursing Standards NCD, PNG Mr. Billy Naide CCO Mine Bay PHA Mr. Billy Naide CEO Mine Bay PHA Mr. Billy Naide CEO Mine Bay PHA Milne Bay PHA Mr. Billy Naide CEO Milne Bay PHA Mr. Gupty Director Curative Health Services (DCH) Mr. Magen Provincial Hospital Mr. Michael Kawega Mr. Magen Provincial Hospital Mr. Michael Kawega Mr. Hagen Provincial Hospital Mr. Michael Kawega Mr. Hagen Provincial Hospital Mr. Magen Provincial Hospital Mr. Magen Provincial Hospital Mr. Hagen Provincial Hospital Mr. Lagen Provincial Hospital Mr. Hagen Provincial Hospital		_	
Ms. Pamela Kairi Dr. Laka Varage Manager - Workforce Standards & Accreditation Medical Standards - NDOH Mary Sitaing Specialist Midwife Labour Ward PMGH Sr. Roselyn Kali Nurse Sr. Roselyn Kali Nurse Nidwifery Coordinator Lutheran School of Nursing Sr. Elizabeth Natera Midwifery Coordinator Lutheran School of Nursing Sr. Mary Akis Nurse St. Mary's School of Nursing Mr. David Kundam Human Resource Trainer Mr. Pius Kalambe Analyst Programmer, Information Comm. Tech. (ICT) NDOH Rosemary Jogo Technical Officer - Nursing Clinical Standards Medical Standards NoDH NoDH Rosemary Jogo Technical Officer - Nursing Clinical Standards Medical Standards NoDH NoDH Rosemary Jogo Technical Officer - Nursing Standards NoDH NoDH NoDH NoDH NoDH NoDH NoDH NoDH			
Dr. Laka Varage Manager - Workforce Standards & Accreditation Medical Standards - NDOH Mary Sitaing Specialist Midwife Labour Ward PMGH Sr. Roselyn Kall Nurse Nazarene College of Nursing Sr. Pauline Kalate Acting Principal Lae School of Nursing Sr. Elizabeth Natera Midwifery Coordinator Lutheran School of Nursing Mr. David Kundam Human Resource Trainer Mendi School of Nursing Mr. Plus Kalambe Analyst Programmer, Information Comm.Tech. (ICT) NDOH Rosemary Jogo Technical Officer - Nursing Clinical Standards Medical Standards Sulpain Passingan Coordinator - (Inservice Training), HR Health Training NDOH Sr. Sheila Sete Coordinator - Family Health Services NDOH Miriam Lovai Coordinator - Family Health Services NDOH Sr. Elmi Kaptigau Paediatric Nurse / Manager PMGH Mr. Billy Naide CEO Miline Bay PHA Sr. Sinepi Kila Senior Nurse Manager Miline Bay PHA Sr. Agnes Davis Deputy Senior Nurse Manager Miline Bay PHA Sr. Agnes Davis Deputy Senior Nurse Mana			
Mary Sitaing Specialist Midwife Labour Ward PMGH Sr. Roselyn Kali Nurse Nazarene College of Nursing Sr. Pauline Kalate Acting Principal Lae School of Nursing Sr. Pauline Kalate Acting Principal Lae School of Nursing Sr. Bary Akis Nurse St. Mary's School of Nursing Sr. Mary Akis Nurse St. Mary's School of Nursing Mr. David Kundam Human Resource Trainer Mendi School of Nursing Mr. Pius Kalambe Analyst Programmer, Information Comm.Tech. (ICT) Rosemary Jogo Technical Officer - Nursing Clinical Standards Medical Standards Sulpain Passingan Coordinator - (Inservice Training), HR Health Training Sr. Shella Sete Coordinator - Nursing Standards NCD Health Services Miriam Lovai Coordinator - Nursing Standards NCD, PNG Sr. Elmi Kaptigau PMGH Hannah Peart Youth with a Mission Mr. Billy Naide CEO Milne Bay PHA Sr. Sinepi Kila Senior Nurse Manager Milne Bay PHA Sr. Agnes Davis Deputy Senior Nurse Manager Milne Bay PHA Sr. Agnes Davis Deputy Senior Nurse Manager Milne Bay PHA Sr. Roselyn Kall Deputy Director Curative Health Services (DCHS) Dr. Perista Mamadi Deputy Director Curative Health Services (DCHS) Mr. Wallace White Kintak Mr. Wallace White Kintak Mr. Michael Kawega Manager Mt. Hagen Provincial Hospital Mr. Manage Okk Manager Mt. Hagen Provincial Hospital Mr. Manage Okk Manager Mt. Hagen Provincial Hospital Mr. Hagen Provin		, ,	
Sr. Roselyn Kali Sr. Roselyn Kali Sr. Roselyn Kali Sr. Pauline Kalate Acting Principal Acting Principal Las School of Nursing Sr. Elizabeth Natera Midwifery Coordinator Lutheran School of Nursing Mr. David Kundam Human Resource Trainer Mendi School of Nursing Mr. Pius Kalambe Analyst Programmer, Information Comm. Tech. (ICT) Nobel Rosemary Jogo Technical Officer - Nursing Clinical Standards Medical Standards Sulpain Passingan Coordinator - (Inservice Training), HR Health Training Sr. Shelia Sete Coordinator - Nursing Standards NCD Health Services Miriam Loval Coordinator - Family Health Services NDoH Sr. Elimi Kaptigau Paediatric Nurse / Manager Hannah Peart Nr. Billy Naide CEO Miline Bay PHA Sr. Agnes Davis Sr. Maureen Haharieu Dr. Perista Mamadi Deputy Director Curative Health Services (DCHS) Miline Bay PHA Dr. Guapo Kiage A/DCHS Nr. Wallace White Kintak Mr. Michael Kawega Manager Mr. Wallace White Kintak Mr. Michael Kawega Manager Mr. Hagen Provincial Hospital Mr. Mallace White Kintak Mr. Michael Kawega Manager Mr. Hagen Provincial Hospital Mr. Malgen Provincial Hospital Mr. Malgen Provincial Hospital Mr. Michael Kawega Manager Mr. Hagen Provincial Hospital Mr. Hagen Provincial Hospital Mr. Hagen Provincial Hospital Mr. Magen Provincial Hospital Mr. Hagen			
Sr. Pauline Kalate Sr. Eliziabeth Natera Midwifery Coordinator Mr. David Kundam Mr. Pilus Kalambe Mr. Palvis Kalambe Mr. Palvis Kalambe Mr. Palvis Kalambe Mr. Palvis Kalambe Mr. Pilus Kalambe Mr. Malambe Mr. M	-	-	
Sr. Elizabeth Natera Midwifery Coordinator Lutheran School of Nursing Sr. Mary Akis Nurse St. Mary's School of Nursing Mr. David Kundam Human Resource Trainer Mendi School of Nursing Mr. Pavid Kundam Human Resource Trainer Mendi School of Nursing Mr. Pius Kalambe Analyst Programmer, Information Comm.Tech. (ICT) NDOH Rosemary Jogo Technical Officer - Nursing Clinical Standards Medical Standards Coordinator - (Inservice Training), HR Health Training Coordinator - (Inservice Training), HR Health Training Training Coordinator - Nursing Standards NDOH NDOH NDOH Training Sr. Sheila Sete Coordinator - Nursing Standards NCD, PNG NDOH NDOH NODH NDOH NODH NODH NODH NDOH NDO	•	1101100	
Sr. Mary Akis Nurse St. Mary's School of Nursing Mr. David Kundam Human Resource Trainer Mendi School of Nursing Mr. Pius Kalambe Analyst Programmer, Information Comm.Tech. (ICT) NDoH Rosemary Jogo Technical Officer - Nursing Clinical Standards Medical Standards NDoH Sulpain Passingan Coordinator - (Inservice Training), HR Health Training Sr. Sheila Sete Coordinator - Nursing Standards NCD Health Services NDoH Sr. Sheila Sete Smith Smith Services NDoH Sr. Eimi Kaptigau Paediatric Nurse / Manager PMGH Hannah Peart Youth with a Mission Milne Bay PHA Sr. Sinepi Kila Senior Nurse Manager Milne Bay PHA Sr. Agnes Davis Deputy Senior Nurse Manager Milne Bay PHA Sr. Agnes Davis Deputy Senior Nurse Manager Milne Bay PHA Sr. Agnes Davis Deputy Senior Nurse Manager Milne Bay PHA Dr. Perista Mamadi Deputy Director Curative Health Services (DCHS) Milne Bay PHA Dr. Guapo Kiage A/DCHS Mt. Hagen Provincial Hospital Mr. Wallace White Kintak Principal Mt. Hagen Provincial Hospital Mr. Michael Kawega Manager Mr. Hagen Provincial Hospital Mr. Hagen Provincial Hospital Mr. Michael Kiromat Project Officer Mr. Hagen Provincial Hospital Mr. Ager Provincial Hospital Mr. Magen Provincial Hospital Mr. Joseph Provincial Hospital Mr. Hagen Provincial Hospital Mr. Magen Provincial Hospital Mr. Joseph Provincial Hospital Mr. Hagen Provincial Hospital Mr. Joseph Provincial Hospital Mr. Hagen Provincial Hospital Mr. Joseph Turina Director Nursing Services St. Mary's Hospital St. Mary's Hospital M			_
Mr. David Kundam Mr. Pius Kalambe Analyst Programmer, Information Comm.Tech. (ICT) NDOH Rosemary Jogo Technical Officer - Nursing Clinical Standards Sulpain Passingan Coordinator - (Inservice Training), HR Health Training Sr. Sheila Sete Coordinator - Nursing Standards NDOH NDOH NOCH Ririam Lovai Coordinator - Family Health Services NIPOH Ririam Lovai Coordinator - Family Health Services NDOH Ririam Lovai Ririam Lovai Coordinator - Family Health Services NDOH Ririam Lovai Coordinator - MIDOH Ririam Lovai Ririam Lov	0		
Mr. Pius Kalambe Analyst Programmer, Information Comm.Tech. (ICT) Rosemary Jogo Technical Officer - Nursing Clinical Standards Medical Standards Medical Standards Medical Standards Sulpain Passingan Coordinator - (Inservice Training), HR Health Training Sr. Sheila Sete Coordinator - Family Health Services NDOH Miriam Lovai Coordinator - Family Health Services NDOH St. Elizabeth Piskupe SMHS NCD, PNG Sr. Elimi Kaptigau Paediatric Nurse / Manager PMGH Hannah Peart Mr. Billy Naide CEO Millne Bay PHA Sr. Sinepi Kila Senior Nurse Manager Millne Bay PHA Sr. Agnes Davis Deputy Senior Nurse Manager Millne Bay PHA Dr. Perista Mamadi Deputy Director Curative Health Services (DCHS) Millne Bay PHA Dr. Guapo Kiage A/DCHS Mr. Wallace White Kintak Mr. Wallace White Kintak Principal Mr. Wallace White Kintak Mr. Michael Kawega Manager Mr. Hagen Provincial Hospital Mr. Michael Kawega Manager Nursing, Clinical Mr. Hagen Provincial Hospital Mr. Jose Yekuma Unit Manager, OPD & Emer Dept. Mr. Hagen Provincial Hospital Mr. Nang Bomai Health Educator, Public Policy UPNG Dr. Paul Passingnan Vice President Divine Word University Mr. Nicholas Larme Provincial Hospital Mr. Forbital Norman Deputy Matron St. Mary's Hospital Mr. Joseph Turian Deputy Matron Mr. Joseph Turian CEO Mendi Hospital Mr. Joseph Turian	•	111111111111111111111111111111111111111	
Rosemary Jogo			_
Sulpain Passingan Coordinator - (Inservice Training), HR Health Training Sr. Sheila Sete Coordinator - Nursing Standards NCD Health Services Miriam Lovai Coordinator - Family Health Services NDOH Sc. Elizabeth Piskupe SMHS NCD, PNG Sr. Elmi Kaptigau Paediatric Nurse / Manager PMGH Hannah Peart Mine Bay PHA Sr. Sinepi Kila Senior Nurse Manager Miline Bay PHA Sr. Sinepi Kila Senior Nurse Manager Miline Bay PHA Sr. Agnes Davis Deputy Senior Nurse Manager Miline Bay PHA Miline Bay PHA Miline Bay PHA Sr. Agnes Davis Deputy Senior Nurse Manager Miline Bay PHA Miline Bay Pla	Mr. Pius Kalambe		NDoH
Training Sr. Sheila Sete Coordinator - Nursing Standards NCD Health Services Miriam Lovai Coordinator - Family Health Services NDOH Elizabeth Piskupe SMHS NCD, PNG Sr. Eimi Kaptigau Paediatric Nurse / Manager PMGH Hannah Peart Vouth with a Mission Mr. Billy Naide CEO Miline Bay PHA Sr. Sinepi Kila Senior Nurse Manager Miline Bay PHA Sr. Agnes Davis Deputy Senior Nurse Manager Miline Bay PHA Sr. Agnes Davis Deputy Senior Nurse Manager Miline Bay PHA Miline Bay Provincial Hospital Miline Bay Provincial Hospital Miline Bay Ptolineir Miline Bay Ptolineir Mil	Rosemary Jogo	_	Medical Standards
Miriam Lovai Coordinator - Family Health Services NDoH Elizabeth Piskupe SMHS NCD, PNG Sr. Eimi Kaptigau Paediatric Nurse / Manager PMGH Hannah Peart Youth with a Mission Mr. Billy Naide CEO Miline Bay PHA Sr. Sinepi Kila Senior Nurse Manager Miline Bay PHA Sr. Agnes Davis Deputy Senior Nurse Manager Miline Bay PHA Sr. Agnes Davis Deputy Senior Nurse Manager Miline Bay PHA Sr. Adureen Haharieu Acting Training Coordinator Miline Bay PHA Dr. Perista Mamadi Deputy Director Curative Health Services (DCHS) Miline Bay PHA Dr. Guapo Kiage A/DCHS Mt. Hagen Provincial Hospital Mr. Wallace White Kintak Principal Mt. Hagen Provincial Hospital Mr. Wallace White Kintak Principal Mt. Hagen Provincial Hospital Mr. Michael Kawega Manager Mt. Hagen Provincial Hospital Mr. AdCEO Mt. Hagen Provincial Hospital Ms. Patricia Kiromat Project Officer Mt. Hagen Provincial Hospital Mr. Hagen Provincial Hospital Mr. Joe Yekuma Unit Manager, OPD & Emer Dept. Mt. Hagen Provincial Hospital Mr. Nang Bomai Health Educator, Public Policy UPNG Dr. Paul Passingnan Vice President Divine Word University Mr. Nicholas Larme Provincial Hadvisor East New Britain Province Dr. Felix Draku Medical Superintendent St. Mary's Hospital Mr. Joseph Turian CEO Mendi Hospital Mr. Joseph Turian CEO Mendi Hospital		Training	
Elizabeth Piskupe Sr. Eimi Kaptigau Paediatric Nurse / Manager PMGH Hannah Peart Youth with a Mission Mr. Billy Naide CEO Milne Bay PHA Sr. Sinepi Kila Senior Nurse Manager Milne Bay PHA Sr. Agnes Davis Deputy Senior Nurse Manager Milne Bay PHA Sr. Maureen Haharieu Acting Training Coordinator Milne Bay PHA Dr. Perista Mamadi Deputy Director Curative Health Services (DCHS) Milne Bay PHA Dr. Guapo Kiage A/DCHS Mt. Hagen Provincial Hospital Mr. Wallace White Kintak Principal Mr. Wallace White Kintak Mr. Michael Kawega Manager Manager Mt. Hagen Provincial Hospital Mr. Joe Yekuma Unit Manager, OPD & Emer Dept. Mt. Hagen Provincial Hospital Mr. Nang Bomai Health Educator, Public Policy UPNG Dr. Paul Passingnan Vice President Provincial Health Advisor East New Britain Province Dr. Felix Draku Medical Superintendent St. Mary's Hospital Mr. Loep Hospital Mr. Joseph Turian CEO Mendi Hospital			
Sr. Elmi Kaptigau Paediatric Nurse / Manager PMGH Hannah Peart Youth with a Mission Mr. Billy Naide CEO Milne Bay PHA Sr. Sinepi Kila Senior Nurse Manager Milne Bay PHA Sr. Agnes Davis Deputy Senior Nurse Manager Milne Bay PHA Sr. Maureen Haharieu Acting Training Coordinator Milne Bay PHA Dr. Perista Mamadi Deputy Director Curative Health Services (DCHS) Milne Bay PHA Dr. Guapo Kiage A/DCHS Milne Bay PHA Dr. Guapo Kiage A/DCHS Milne Bay PHA Dr. Guapo Kiage A/DCHS Milne Bay PHA Dr. Wallace White Kintak Principal Mr. Hagen Provincial Hospital Mr. Wallace White Kintak Principal Mr. Hagen Provincial Hospital Mr. Hagen Provincial Hospital Mr. Michael Kawega Manager Mursing, Clinical Mr. Hagen Provincial Hospital Mr. Joseph Turian Project Officer Mr. Hagen Provincial Hospital Mr. Principal Mr. Hagen Provincial Hospital Mr. Joseph Mr. Hagen Provincial Hospital Mr. Joseph Turian Project Officer Mr. Hagen Provincial Hospital Mr. Joseph Turian Divine Word University Mr. Hagen Provincial Hospital Mr. Joseph Turian CEO Mention St. Mary's Hospital Mr. Joseph Turian CEO Menti Hospital Mr. Joseph Turian CEO Menti Hospital Mr. Joseph Turian CEO Menti Hospital Mr. Joseph Turian Mention Me			
Hannah Peart Mr. Billy Naide CEO Milne Bay PHA Sr. Sinepi Kila Senior Nurse Manager Milne Bay PHA Sr. Agnes Davis Deputy Senior Nurse Manager Milne Bay PHA Milne Bay PHA Sr. Agnes Davis Deputy Senior Nurse Manager Milne Bay PHA Dr. Acting Training Coordinator Milne Bay PHA Dr. Perista Mamadi Deputy Director Curative Health Services (DCHS) Milne Bay PHA Dr. Guapo Kiage A/DCHS Mt. Hagen Provincial Hospital Mr. Wallace White Kintak Principal Mr. Michael Kawega Manager Mr. Hagen Provincial Hospital Mr. Michael Kawega Manager Nursing, Clinical Mr. Hagen Provincial Hospital Mr. Joe Yekuma Unit Manager, OPD & Emer Dept. Mt. Hagen Provincial Hospital Mr. Nang Bomai Health Educator, Public Policy UPNG Dr. Paul Passingnan Vice President Divine Word University Mr. Nicholas Larme Provincial Health Advisor East New Britain Province Dr. Felix Draku Medical Superintendent St. Mary's Hospital Mr. Joseph Turian Mr. Joseph Turian CEO Mendi Hospital			
Mr. Billy Naide CEO Milne Bay PHA Sr. Sinepi Kila Senior Nurse Manager Milne Bay PHA Sr. Agnes Davis Deputy Senior Nurse Manager Milne Bay PHA Sr. Maureen Haharieu Acting Training Coordinator Milne Bay PHA Dr. Perista Mamadi Deputy Director Curative Health Services (DCHS) Milne Bay PHA Dr. Guapo Kiage A/DCHS Mt. Hagen Provincial Hospital Sr. Roselyn Kali Deputy Director Nursing Services Mt. Hagen Provincial Hospital Mr. Wallace White Kintak Principal Mt. Hagen Provincial Hospital Mr. Michael Kawega Manager Mt. Hagen Provincial Hospital Sr. Joanne Okk Manager Nursing, Clinical Mt. Hagen Provincial Hospital Dr. Michael Dokup A/CEO Mt. Hagen Provincial Hospital Mr. Joanne Okk Mt. Hagen Provincial Hospital Mr. Joe Yekuma Unit Manager, OPD & Emer Dept. Mt. Hagen Provincial Hospital Mr. Nang Bomai Health Educator, Public Policy UPNG Dr. Paul Passingnan Vice President Divine Word University Mr. Nicholas Larme Provincial Health Advisor East New Britain Province Dr. Felix Draku Medical Superintendent St. Mary's Hospital Sr. Lucie Turupia Director Nursing Services St. Mary's Hospital Mr. Joseph Turian CEO Mendi Health Hospital Mr. Joseph Turian CEO Mendi Health Hospital	. •	Paediatric Nurse / Manager	PMGH
Sr. Sinepi Kila Senior Nurse Manager Milne Bay PHA Sr. Agnes Davis Deputy Senior Nurse Manager Milne Bay PHA Sr. Maureen Haharieu Acting Training Coordinator Milne Bay PHA Dr. Perista Mamadi Deputy Director Curative Health Services (DCHS) Milne Bay PHA Dr. Guapo Kiage A/DCHS Mt. Hagen Provincial Hospital Mr. Wallace White Kintak Principal Mr. Wallace White Kintak Mr. Michael Kawega Manager Manager Mt. Hagen Provincial Hospital Mr. Michael Kawega Manager Nursing, Clinical Mr. Hagen Provincial Hospital Mr. Michael Dokup A/CEO Mt. Hagen Provincial Hospital Mr. Joe Yekuma Unit Manager, OPD & Emer Dept. Mt. Hagen Provincial Hospital Mr. Nang Bomai Health Educator, Public Policy UPNG Dr. Paul Passingnan Vice President Divine Word University Mr. Nicholas Larme Provincial Health Advisor East New Britain Province Dr. Felix Draku Medical Superintendent St. Mary's Hospital Mr. Lucie Turupia Director Nursing Services St. Mary's Hospital Sr. Wesi Kerak Director Nursing Services Mendi Hospital Mr. Joseph Turian CEO Mendi Hospital			
Sr. Agnes Davis Deputy Senior Nurse Manager Milne Bay PHA Sr. Maureen Haharieu Acting Training Coordinator Milne Bay PHA Dr. Perista Mamadi Deputy Director Curative Health Services (DCHS) Milne Bay PHA Dr. Guapo Kiage A/DCHS Mt. Hagen Provincial Hospital Sr. Roselyn Kali Deputy Director Nursing Services Mt. Hagen Provincial Hospital Mr. Wallace White Kintak Principal Mt. Hagen Provincial Hospital Mr. Michael Kawega Manager Mt. Hagen Provincial Hospital Mr. Michael Lawega Manager Mt. Hagen Provincial Hospital Dr. Michael Dokup A/CEO Mt. Hagen Provincial Hospital Mr. Joe Yekuma Unit Manager, OPD & Emer Dept. Mt. Hagen Provincial Hospital Mr. Nang Bomai Health Educator, Public Policy UPNG Dr. Paul Passingnan Vice President Divine Word University Mr. Nicholas Larme Provincial Health Advisor East New Britain Province Dr. Felix Draku Medical Superintendent St. Mary's Hospital Sr. Lucie Turupia Director Nursing Services St. Mary's Hospital Sr. Wesi Kerak Director Nursing Services Mendi Hospital Mr. Joseph Turian CEO Mendi Hospital	Mr. Billy Naide	CEO	Milne Bay PHA
Sr. Maureen Haharieu Acting Training Coordinator Milne Bay PHA Dr. Perista Mamadi Deputy Director Curative Health Services (DCHS) Milne Bay PHA Dr. Guapo Kiage A/DCHS Mt. Hagen Provincial Hospital Sr. Roselyn Kali Deputy Director Nursing Services Mt. Hagen Provincial Hospital Mr. Wallace White Kintak Principal Mt. Hagen Provincial Hospital Mr. Michael Kawega Manager Mt. Hagen Provincial Hospital Sr. Joanne Okk Manager Nursing, Clinical Mt. Hagen Provincial Hospital Dr. Michael Dokup A/CEO Mt. Hagen Provincial Hospital Mr. Patricia Kiromat Project Officer Mt. Hagen Provincial Hospital Mr. Joe Yekuma Unit Manager, OPD & Emer Dept. Mt. Hagen Provincial Hospital Mr. Nang Bomai Health Educator, Public Policy UPNG Dr. Paul Passingnan Vice President Divine Word University Mr. Nicholas Larme Provincial Health Advisor East New Britain Province Dr. Felix Draku Medical Superintendent St. Mary's Hospital Sr. Lucie Turupia Director Nursing Services St. Mary's Hospital Mr. Joseph Turian CEO Mendi Hospital Mr. Joseph Turian CEO Mendi Hospital	Sr. Sinepi Kila	Senior Nurse Manager	Milne Bay PHA
Dr. Perista Mamadi Deputy Director Curative Health Services (DCHS) Milne Bay PHA Dr. Guapo Kiage A/DCHS Mt. Hagen Provincial Hospital Sr. Roselyn Kali Deputy Director Nursing Services Mt. Hagen Provincial Hospital Mr. Wallace White Kintak Principal Mr. Michael Kawega Manager Mt. Hagen Provincial Hospital Mr. Joe Yekuma Unit Manager, OPD & Emer Dept. Mr. Hagen Provincial Hospital Mr. Nang Bomai Health Educator, Public Policy UPNG Dr. Paul Passingnan Vice President Divine Word University Mr. Nicholas Larme Provincial Health Advisor East New Britain Province Dr. Felix Draku Medical Superintendent St. Mary's Hospital Sr. Lucie Turupia Director Nursing Services St. Mary's Hospital Mr. Ponohai Principal St. Mary's Hospital Mr. Joseph Turian CEO Mendi Hospital	Sr. Agnes Davis	Deputy Senior Nurse Manager	Milne Bay PHA
Dr. Guapo Kiage A/DCHS Mt. Hagen Provincial Hospital Sr. Roselyn Kali Deputy Director Nursing Services Mt. Hagen Provincial Hospital Mr. Wallace White Kintak Principal Mt. Hagen Provincial Hospital Mr. Michael Kawega Manager Mt. Hagen Provincial Hospital Sr. Joanne Okk Manager Nursing, Clinical Mt. Hagen Provincial Hospital Dr. Michael Dokup A/CEO Mt. Hagen Provincial Hospital Ms. Patricia Kiromat Project Officer Mt. Hagen Provincial Hospital Sr. Christine Dirye Sr. In-Charge, Paediatric Ward Mt. Hagen Provincial Hospital Mr. Joe Yekuma Unit Manager, OPD & Emer Dept. Mt. Hagen Provincial Hospital Mr. Nang Bomai Health Educator, Public Policy UPNG Dr. Paul Passingnan Vice President Divine Word University Mr. Nicholas Larme Provincial Health Advisor East New Britain Province Dr. Felix Draku Medical Superintendent St. Mary's Hospital Sr. Lucie Turupia Director Nursing Services St. Mary's Hospital Sr. Placidia Norman Deputy Matron St. Mary's Hospital Mr. Joseph Turian CEO Mendi Hospital	Sr. Maureen Haharieu	Acting Training Coordinator	Milne Bay PHA
Sr. Roselyn Kali Deputy Director Nursing Services Mt. Hagen Provincial Hospital Mr. Wallace White Kintak Principal Mt. Hagen Provincial Hospital Mr. Michael Kawega Manager Mt. Hagen Provincial Hospital Sr. Joanne Okk Manager Nursing, Clinical Mt. Hagen Provincial Hospital Dr. Michael Dokup A/CEO Mt. Hagen Provincial Hospital Ms Patricia Kiromat Project Officer Mt. Hagen Provincial Hospital Sr. Christine Dirye Sr. In-Charge, Paediatric Ward Mt. Hagen Provincial Hospital Mr. Joe Yekuma Unit Manager, OPD & Emer Dept. Mt. Hagen Provincial Hospital Mr. Nang Bomai Health Educator, Public Policy UPNG Dr. Paul Passingnan Vice President Divine Word University Mr. Nicholas Larme Provincial Health Advisor East New Britain Province Dr. Felix Draku Medical Superintendent St. Mary's Hospital Sr. Lucie Turupia Director Nursing Services St. Mary's Hospital Sr. Placidia Norman Deputy Matron St. Mary's Hospital Mary Ponohai Principal St. Mary's Hospital Sr. Wesi Kerak Director Nursing Services Mendi Hospital Mr. Joseph Turian CEO Mendi Hospital	Dr. Perista Mamadi	Deputy Director Curative Health Services (DCHS)	Milne Bay PHA
Mr. Wallace White Kintak Principal Mt. Hagen Provincial Hospital Mr. Michael Kawega Manager Mt. Hagen Provincial Hospital Sr. Joanne Okk Manager Nursing, Clinical Mt. Hagen Provincial Hospital Dr. Michael Dokup A/CEO Mt. Hagen Provincial Hospital Ms Patricia Kiromat Project Officer Mt. Hagen Provincial Hospital Sr. Christine Dirye Sr. In-Charge, Paediatric Ward Mt. Hagen Provincial Hospital Mr. Joe Yekuma Unit Manager, OPD & Emer Dept. Mt. Hagen Provincial Hospital Mr. Nang Bomai Health Educator, Public Policy UPNG Dr. Paul Passingnan Vice President Divine Word University Mr. Nicholas Larme Provincial Health Advisor East New Britain Province Dr. Felix Draku Medical Superintendent St. Mary's Hospital Sr. Lucie Turupia Director Nursing Services St. Mary's Hospital Mary Ponohai Principal St. Mary's Hospital Sr. Wesi Kerak Director Nursing Services Mendi Hospital Mr. Joseph Turian CEO Mendi Hospital	Dr. Guapo Kiage	A/DCHS	Mt. Hagen Provincial Hospital
Mr. Michael Kawega Manager Mt. Hagen Provincial Hospital Sr. Joanne Okk Manager Nursing, Clinical Mt. Hagen Provincial Hospital Dr. Michael Dokup A/CEO Mt. Hagen Provincial Hospital Ms Patricia Kiromat Project Officer Mt. Hagen Provincial Hospital Sr. Christine Dirye Sr. In-Charge, Paediatric Ward Mt. Hagen Provincial Hospital Mr. Joe Yekuma Unit Manager, OPD & Emer Dept. Mt. Hagen Provincial Hospital Mr. Nang Bomai Health Educator, Public Policy UPNG Dr. Paul Passingnan Vice President Divine Word University Mr. Nicholas Larme Provincial Health Advisor East New Britain Province Dr. Felix Draku Medical Superintendent St. Mary's Hospital Sr. Lucie Turupia Director Nursing Services St. Mary's Hospital Sr. Placidia Norman Deputy Matron St. Mary's Hospital Mary Ponohai Principal St. Mary's Hospital Sr. Wesi Kerak Director Nursing Services Mendi Hospital Mr. Joseph Turian CEO Mendi Hospital	Sr. Roselyn Kali	Deputy Director Nursing Services	Mt. Hagen Provincial Hospital
Mr. Michael Kawega Manager Mt. Hagen Provincial Hospital Sr. Joanne Okk Manager Nursing, Clinical Mt. Hagen Provincial Hospital Dr. Michael Dokup A/CEO Mt. Hagen Provincial Hospital Ms Patricia Kiromat Project Officer Mt. Hagen Provincial Hospital Sr. Christine Dirye Sr. In-Charge, Paediatric Ward Mt. Hagen Provincial Hospital Mr. Joe Yekuma Unit Manager, OPD & Emer Dept. Mt. Hagen Provincial Hospital Mr. Nang Bomai Health Educator, Public Policy UPNG Dr. Paul Passingnan Vice President Divine Word University Mr. Nicholas Larme Provincial Health Advisor East New Britain Province Dr. Felix Draku Medical Superintendent St. Mary's Hospital Sr. Lucie Turupia Director Nursing Services St. Mary's Hospital Sr. Placidia Norman Deputy Matron St. Mary's Hospital Mary Ponohai Principal St. Mary's Hospital Sr. Wesi Kerak Director Nursing Services Mendi Hospital Mr. Joseph Turian CEO Mendi Hospital	Mr. Wallace White Kintak	Principal	Mt. Hagen Provincial Hospital
Sr. Joanne Okk Manager Nursing, Clinical Mt. Hagen Provincial Hospital Dr. Michael Dokup A/CEO Mt. Hagen Provincial Hospital Ms Patricia Kiromat Project Officer Mt. Hagen Provincial Hospital Sr. Christine Dirye Sr. In-Charge, Paediatric Ward Mt. Hagen Provincial Hospital Mr. Joe Yekuma Unit Manager, OPD & Emer Dept. Mt. Hagen Provincial Hospital Mr. Nang Bomai Health Educator, Public Policy UPNG Dr. Paul Passingnan Vice President Divine Word University Mr. Nicholas Larme Provincial Health Advisor East New Britain Province Dr. Felix Draku Medical Superintendent St. Mary's Hospital Sr. Lucie Turupia Director Nursing Services St. Mary's Hospital Sr. Placidia Norman Deputy Matron St. Mary's Hospital Mary Ponohai Principal St. Mary's Hospital Sr. Wesi Kerak Director Nursing Services Mendi Hospital Mr. Joseph Turian CEO Mendi Hospital	Mr. Michael Kawega	-	
Dr. Michael Dokup A/CEO Mt. Hagen Provincial Hospital Ms. Patricia Kiromat Project Officer Mt. Hagen Provincial Hospital Mr. Hagen Provincial Hospital Mr. Joe Yekuma Unit Manager, OPD & Emer Dept. Mt. Hagen Provincial Hospital Mr. Nang Bomai Health Educator, Public Policy UPNG Dr. Paul Passingnan Vice President Divine Word University Mr. Nicholas Larme Provincial Health Advisor East New Britain Province Dr. Felix Draku Medical Superintendent St. Mary's Hospital Sr. Lucie Turupia Director Nursing Services St. Mary's Hospital Mary Ponohai Principal St. Mary's Hospital St. Mary's Hospital Mendi Hospital Mr. Joseph Turian CEO Mendi Hospital		_	-
Ms Patricia Kiromat Project Officer Mt. Hagen Provincial Hospital Sr. Christine Dirye Sr. In-Charge, Paediatric Ward Mt. Hagen Provincial Hospital Mr. Joe Yekuma Unit Manager, OPD & Emer Dept. Mt. Hagen Provincial Hospital Mr. Nang Bomai Health Educator, Public Policy UPNG Dr. Paul Passingnan Vice President Divine Word University Mr. Nicholas Larme Provincial Health Advisor East New Britain Province Dr. Felix Draku Medical Superintendent St. Mary's Hospital Sr. Lucie Turupia Director Nursing Services St. Mary's Hospital Sr. Placidia Norman Deputy Matron St. Mary's Hospital Mary Ponohai Principal St. Mary's Hospital Mr. Joseph Turian CEO Mendi Hospital			
Sr. Christine Dirye Sr. In-Charge, Paediatric Ward Mt. Hagen Provincial Hospital Mr. Joe Yekuma Unit Manager, OPD & Emer Dept. Mt. Hagen Provincial Hospital Mt. Nang Bomai Health Educator, Public Policy UPNG Dr. Paul Passingnan Vice President Divine Word University Mr. Nicholas Larme Provincial Health Advisor East New Britain Province Dr. Felix Draku Medical Superintendent St. Mary's Hospital Sr. Lucie Turupia Director Nursing Services St. Mary's Hospital Sr. Placidia Norman Deputy Matron St. Mary's Hospital Sr. Wary's Hospital Mary Ponohai Principal St. Mary's Hospital Mr. Joseph Turian CEO Mendi Hospital	•		
Mr. Joe Yekuma Unit Manager, OPD & Emer Dept. Mr. Nang Bomai Health Educator, Public Policy UPNG Dr. Paul Passingnan Vice President Divine Word University Mr. Nicholas Larme Provincial Health Advisor East New Britain Province Dr. Felix Draku Medical Superintendent St. Mary's Hospital Sr. Lucie Turupia Director Nursing Services St. Mary's Hospital Sr. Placidia Norman Deputy Matron St. Mary's Hospital St. Mary's Hospital Mary Ponohai Principal St. Mary's Hospital Mr. Joseph Turian CEO Mendi Hospital		-	
Mr. Nang Bomai Health Educator, Public Policy UPNG Dr. Paul Passingnan Vice President Divine Word University Mr. Nicholas Larme Provincial Health Advisor East New Britain Province Dr. Felix Draku Medical Superintendent St. Mary's Hospital Sr. Lucie Turupia Director Nursing Services St. Mary's Hospital Sr. Placidia Norman Deputy Matron St. Mary's Hospital Mary Ponohai Principal St. Mary's Hospital Sr. Wesi Kerak Director Nursing Services Mendi Hospital Mr. Joseph Turian CEO Mendi Hospital		<u> </u>	-
Dr. Paul Passingnan Vice President Divine Word University East New Britain Province Dr. Felix Draku Medical Superintendent St. Mary's Hospital Sr. Lucie Turupia Director Nursing Services St. Mary's Hospital Sr. Placidia Norman Deputy Matron St. Mary's Hospital St. Mary's Hospital St. Mary's Hospital Mary Ponohai Principal St. Mary's Hospital Mendi Hospital Mr. Joseph Turian CEO Mendi Hospital			
Mr. Nicholas Larme Provincial Health Advisor East New Britain Province Dr. Felix Draku Medical Superintendent St. Mary's Hospital Sr. Lucie Turupia Director Nursing Services St. Mary's Hospital Sr. Placidia Norman Deputy Matron St. Mary's Hospital Mary Ponohai Principal St. Mary's Hospital Sr. Wesi Kerak Director Nursing Services Mendi Hospital Mr. Joseph Turian CEO Mendi Hospital			
Dr. Felix Draku Medical Superintendent St. Mary's Hospital Sr. Lucie Turupia Director Nursing Services St. Mary's Hospital Sr. Placidia Norman Deputy Matron St. Mary's Hospital Mary Ponohai Principal St. Mary's Hospital Sr. Wesi Kerak Director Nursing Services Mendi Hospital Mr. Joseph Turian CEO Mendi Hospital			-
Sr. Lucie Turupia Director Nursing Services St. Mary's Hospital Sr. Placidia Norman Deputy Matron St. Mary's Hospital Mary Ponohai Principal St. Mary's Hospital Sr. Wesi Kerak Director Nursing Services Mendi Hospital Mr. Joseph Turian CEO Mendi Hospital			
Sr. Placidia Norman Deputy Matron St. Mary's Hospital Mary Ponohai Principal St. Mary's Hospital Sr. Wesi Kerak Director Nursing Services Mendi Hospital Mr. Joseph Turian CEO Mendi Hospital		•	
Mary Ponohai Principal St. Mary's Hospital Sr. Wesi Kerak Director Nursing Services Mendi Hospital Mr. Joseph Turian CEO Mendi Hospital	•		
Sr. Wesi Kerak Director Nursing Services Mendi Hospital Mr. Joseph Turian CEO Mendi Hospital			
Mr. Joseph Turian CEO Mendi Hospital	•	•	-
•		=	-
Mr. Paul Mabon Deputy Director, Policy & Admin Madang Provincial Health Division	•		I
	Mr. Paul Mabon	Deputy Director, Policy & Admin	Madang Provincial Health Division

Mr. Arthur Wagun	Deputy Director, Technical Health Programs	Madang Provincial Health Division
Dr. Paschol Michon	Dean, Health Sciences	Divine Word University
Ms Noreen Tabua	A/Principal,	St. Barnabas School of Nursing
Mr. Oscar Karatu	Lecturer	St. Barnabas School of Nursing
Ms Greta Dimiyasi	Senior Tutor	
Ms Florence Bagoia		St. Barnabas School of Nursing
	Senior Tutor	St. Barnabas School of Nursing
Ms Philipa Bateman	Senior Tutor	St. Barnabas School of Nursing
Mr. Martin Jonathon	Tutor	St. Barnabas School of Nursing
Ms Anna Ilaisa	Tutor	St. Barnabas School of Nursing
Mr. Wallace White Kintak	Principal	Nazarene College of Nursing
Ms Liah Kamboa	Deputy Principal	Nazarene College of Nursing
Ms Maria Gomara	Clinical Coordinator	Nazarene College of Nursing
Ms Dare Collin	Lecturer	Nazarene College of Nursing
Mrs Grace Aua Dyrie	Senior Tutor	Nazarene College of Nursing
Mr. Ali Mun	Senior Tutor	Nazarene College of Nursing
Mr. Peter Moses	Senior Tutor	Nazarene College of Nursing
Mr. Jason Jambui	Senior Tutor	Nazarene College of Nursing
Mrs Jacquline Opa	Clinical tutor	Nazarene College of Nursing
Sr. Christine Dirye	Sr. In-Charge, Paediatric Ward	Kudjip Nazarene Hospital
Mr. Joe Yekuma	Unit Manager, OPD & Emer Dept.	Kudjip Nazarene Hospital
Mr. David Pia	In Service Instructor	Kudjip Nazarene Hospital
Ms Margaret Miringoi	CHW Operating Theatre	Kudjip Nazarene Hospital
Sr. Georgina Layabi	Supervisor, Medical Ward	Kudjip Nazarene Hospital
Sr. Elizabeth Ou	Director Nursing Services	Kudjip Nazarene Hospital
Dr. Scott Dooley, MD	Hospital Administrator	Kudjip Nazarene Hospital
Sr. Regina Kintak	Deputy DNS	Kudjip Nazarene Hospital
Mr. Baru Dirye	NHM Secretary	Kudjip Nazarene Hospital
Sr Rose Tinuli	Sr. In Charge	St. Marys Vunapope SON
Sr Julie Fonateiba	Midwife	St. Marys Vunapope SON
Bernadeth Ray	RCHW	St. Marys Vunapope SON
Rose Damag	RND	St. Marys Vunapope SON
Sr Relida Peril	Nursing Officer	St. Marys Vunapope SON
Mary Akis	Deputy Principal	St. Marys Vunapope SON
Gemma Meermans	Lecturer	St. Marys Vunapope SON
Margaret Kulilan	Senior Lecturer	St. Marys Vunapope SON
Nola Maika	Lecturer	St. Marys Vunapope SON
Bernadette Wageg	Clinical Coordinator	St. Marys Vunapope SON
Franscisca Bevi	Senior Tutor	St. Marys Vunapope SON
Caroline Tomado	Tutor	St. Marys Vunapope SON
Joanne Kiapitai	Senior Tutor	St. Marys Vunapope SON
Mr. Peter Tirang	Hospital Administrator	St. Marys Hospital
Sr. Lucy Laupu	Outgoing Hospital Administrator	St. Marys Hospital
Sr. Lucie Turupia	Hospital Matron, St. Marys, Hospital	St. Marys Hospital
Sr. Placidia Norman	Deputy Matron, St. Marys Hospital	St. Marys Hospital
Sr. Rosemary Pilakvue	RN, Midwife	St. Marys Hospital
Sr. Caroline Kambual	General Nurse	St. Marys Hospital
Sr. Queen Turlua	Acute Care Nurse	St. Marys Hospital
Sr. Queen Turiua Sr. Clara Puttu	Sr. In Charge	St. Marys Hospital
Sr. Georgina Kiulel	Deputy Sr. In Charge	St. Marys Hospital
Mr. Essau Hurris		St. Marys Hospital
	Officer In Charge	
Mr. Kelly Mangoa	D/Principal	Lae School of Nursing
Mr. McNel Elia	Senior Lecturer	Lae School of Nursing
Ms Antonia Karis	Registrar	Lae School of Nursing
Ms Veronic Waffi	District Health Administrator	Mutzing Health Centre
Lautuo Ambrias	District Nursing Officer	Mutzing Health Centre
Sr. May Bartsaka	Nursing Officer	Malahang Lae Urban Clinic
Sr. Diana Samai	Specialist Nurse – Critical Care, Clinical Supervisor Unit 5	Angau Memorial Hospital
	•	•

Sr. Alberta Lulu	Nurse Midwife, Clinical Supervisor, Unit 3	Angau Memorial Hospital
Sr. Pessie Kereng	Special Nurse Midwife , Clinical Supervisor of O & G	Angau Memorial Hospital
	& Oncology	,
Sr. Bing Titus	In Service CoOrdinator, Angau Hospital	Angau Memorial Hospital
Mr. Ian Payau	Nursing Research Coordinator	Angau Memorial Hospital
Mr. Jack Aita	Provincial Officer	Morobe Provincial Health Office
Sr. Lina Kusak	Lae District Nursing Officer, Training & Clinical	Morobe Provincial Health Office
or. Ema Rusuk	Nursing	morose i rovinciai ricalari cinoc
Mr. Ulch Tapia	National Health Secretary Lutheran Health Services	Morobe Provincial Health Office
Sr. Grace L. Tewang	Lecturer	Lae School of Nursing
Sr. Kolish Palanga	Lecturer	Lae School of Nursing
Sr. Dorcas Dion	Senior Tutor	Lae School of Nursing
Sr. Aine Tongamp	Senior Tutor	Lae School of Nursing
Mr. Lucas Muka	Senior tutor	Lae School of Nursing
Aimu T. Samandingke	Senior Tutor	Lae School of Nursing
Ms Anastasia Loubai	Librarian	Lae School of Nursing
Mr. Michael Stanley	Assistant Librarian	Lae School of Nursing
Mr. Kumbai Pariwe	Administrative Assisstant	Lae School of Nursing
Mr. Amon Tani	Mess Supervisor	Lae School of Nursing
Mr. Conrad Tawila	D/Principal	Mendi School of Nursing
Sr. Elizabeth Seto	Lecturer	Mendi School of Nursing
Mr. Thomas Wamea	Senior Tutor	Mendi School of Nursing
Sr. Sandie Magie	Tutor	Mendi School of Nursing
Mr. Jack Tolo	Tutor	Mendi School of Nursing
Mr. Navao Mankuo	Provincial Architect	Mendi School of Nursing
Mr. Warren Temokang	School Board Member	Mendi School of Nursing
Sr. Josepha Rex	HR Manager	Mendi School of Nursing
Sr. Winnie Gaso	Nursing Officer	Mendi Town Urban Clinic Staff
Sr. Judy Longo	Nursing Officer	Mendi Town Urban Clinic Staff
Sr. Dorothy Pisimi	Nursing Officer	Mendi Town Urban Clinic Staff
Jacinta Eket	Nursing Officer	Mendi Town Urban Clinic Staff
Mr. David Binowi	Nursing Officer	Mendi Town Urban Clinic Staff
Michaela Koha	CHW	Mendi Town Urban Clinic Staff
Leota Kumbiye	CHW	Mendi Town Urban Clinic Staff
Mr Eddie Yehreawame	HEO	Kaupena Health Centre
Mr. Mek Pure	1	Kaupena Health Centre
	PNG Bible Church Health Secretary	l
Sr. Josephine Pure	OIC Health Centre, Nursing Officer	Kaupena Health Centre
Sr. Isralyn Lux	Nursing Officer	Kaupena Health Centre
Sr. Neolah Nol	Nursing Officer	Kaupena Health Centre
Sr. Dusi Andauo	Nursing Officer	Kaupena Health Centre
Mr. Simon Kundip	CHW	Kaupena Health Centre
Nancy Kepelea	CHW	Kaupena Health Centre
Kola Pure	CHW	Kaupena Health Centre
Ruth Nol	CHW	Kaupena Health Centre
Sr. Linda Wapu	Matron	Lalibu Health Centre
Sr. Helen Kambaiye	District Nursing Supervisor	Lalibu Health Centre
Mr. Jim Nimbo	Hospital Secretary	Lalibu Health Centre
Sr. Juliana Gehala	SIC OPD	Lalibu Health Centre
Mr. Virtus Amugar	Principal	Madang Lutheran SON
Mr. Jimmy Boromio	D/Principal	Madang Lutheran SON
Sr. Monica Tauna	Tutor Nursing Practice 1 & 2	Madang Lutheran SON
Sr. J. Angasa	Clinical Supervisor	Madang Lutheran SON
Sr. K. Tarabi	Tutor Obstetrics	Madang Lutheran SON
Sr. Elizabeth Hambuhau	Tutor Paediatrics	Madang Lutheran SON
Esther Suambau	Registrar	Madang Lutheran SON
Sr. Francesca Mabong	Nursing Officer	Jomba Urban Clinic
Sr. Agnes Baning	Nursing Officer	Jomba Urban Clinic
<u> </u>	_	1

Sr. Valsie Oir Health Centre Midwife Sr. Norah Alung Sr. Mana Christina Midwife Sr. Mana Christina Midwife Sr. Mana Christina Midwife Sr. Mana Christina Midwife Mir. Paul Mabon Deputy Director, Policy & Admin Madang Provincial Health Division Mr. Arthur Wagun Deputy Director, Folicy & Admin Mr. Anna Christina Mr. Arthur Wagun Deputy Director, Folicy & Admin Mr. Anna Environmental Health Officer PHO Madang Provincial Health Division Mr. Averance Gigl Health Projects PHO Madang Provincial Health Division Mr. Lavrence Gigl Health Projects PHO Madang Provincial Health Division Mr. Lavrence Gigl Health Projects PHO Madang Provincial Health Division Mr. Lavrence Gigl Health Projects PHO Madang Provincial Health Division Mr. Wilfred Peter Provincial Malaria Supervisor Madang Provincial Health Division Mr. Wilfred Peter Provincial Malaria Supervisor Madang Provincial Health Division Mr. Wilfred Peter Provincial Malaria Supervisor Madang Provincial Health Division Mr. Wilfred Peter Provincial Malaria Supervisor Madang Provincial Health Division Mr. Wilfred Peter Provincial Malaria Supervisor Madang Provincial Health Division Mr. Gell Sual Sr. Galog Sual Director of Nursing Modion Hospital Modion Hospital Mr. Gery Modion Hospital Mr. John Madang Provincial Mr. Gery Modion Hospital Mr.	Mr. Kasu Eddie	Nursing Officer (M)	Dan Ben Urban Clinic
Micwite Sr. Mana Christina Micwite Sr. Mana Christina Micwite Mr. Paul Mabon Deputy Director, Policy & Admin Mr. Arthur Wagun Deputy Director, Technical Health Programs Madang Provincial Health Division Mr. Sonny Atna Environmental Health Officer PHO Madang Provincial Health Division Mr. Sonny Atna Environmental Health Officer PHO Madang Provincial Health Division Mr. Lawrence Olgi Health projects PHO Madang Provincial Health Division Mr. Lawrence Olgi Health projects PHO Madang Provincial Health Division Mr. Writere Peter Provincial Health Promotion Madang Provincial Health Division Mr. Writere Peter Provincial Health Supervisor Madang Provincial Health Division Mr. Writere Peter Provincial Family Health Supervisor Madang Provincial Health Division Mr. Writere Peter Provincial Family Health Supervisor Madang Provincial Health Division Mr. Writere Peter Provincial Family Health Supervisor Madang Provincial Health Division Mr. Writere Peter Modion Hospital Mr. Gavilla Madang Division Mr. Writere Peter Modion Hospital Mr. Gavilla Madang Division Mr. Writere Peter Modion Hospital Mr. Howard Modion Hospital Mr. Anna Sallii Ward 1 Modion Hospital Mr. Anna Sallii Ward 3 Modion Hospital Mr. Modion Hospital Mr. Anna Sallii Writere Mr. Ferry Alois Nr. Lawrence Mr. Ferry Alois Nr. Lawrence Nr. Lecturer DGN Modion Hospital Mr. Torholos Nr. John Tumun Tutor - DGN Madang Lutheran SON Madang Lutheran SON Madang Lutheran SON Mr. John Tumun Tutor - DGN Madang Lutheran SON Madang		` '	
Milowife Mr. Paul Mabon Deputy Director, Policy & Admin Mr. Arthur Wagun Deputy Director, Technical Health Programs Mr. Arthur Wagun Deputy Director, Technical Health Programs Mr. Sonny Alna Environmental Health Officer PHO Madang Provincial Health Division Mr. Lawrence Gigl Health projects PHO Madang Provincial Health Division Mr. Lawrence Gigl Health projects PHO Madang Provincial Health Division Mr. Lawrence Gigl Health projects PHO Madang Provincial Health Division Mr. Wilfred Peter Provincial Malaria Supervisor Madang Provincial Health Division Mr. Wilfred Peter Provincial Malaria Supervisor Madang Provincial Health Division Mr. Wilfred Peter Provincial Malaria Supervisor Madang Provincial Health Division Mr. Wilfred Peter Provincial Malaria Supervisor Madang Provincial Health Division Mr. Wilfred Peter Provincial Malaria Supervisor Madang Provincial Health Division Mr. Wilfred Peter Provincial Malaria Supervisor Madang Provincial Health Division Mr. Wilfred Peter Madang Provincial Health Division Mr. Toristine Gawi Fr. Gaity Sual Director of Nursing Modilion Hospital Sr. Tenesa Davur Modilion Hospital Mr. Josephine Mala Mr. Ward 1 Modilion Hospital Mr. Arthur Modilion Hospital Mr. Modilion Hospital Mr. Modilion Hospital Mr. Ward 1 Modilion Hospital Mr. Modilion Hospital Mr. Terry Alois Mr. Toriy Alo	- Cit valois		7 HOXIONATION FIGURE CONTROL
Mr. Paul Mabon Deputy Director, Policy & Admin Mr. Arthur Wagun Doputy Director, Technical Health Programs Madang Provincial Health Division Mr. Arthur Wagun Doputy Director, Technical Health Programs Madang Provincial Health Division Mr. Lawrence Gigl Health projects PHO Madang Provincial Health Division Mr. Lawrence Gigl Health projects PHO Madang Provincial Health Division Mr. Varence Gigl Health projects PHO Madang Provincial Health Division Mr. Wiffred Peter Provincial Health Promotion Mr. Wiffred Peter Provincial Health Division Mr. Wiffred Peter Provincial Health Division Mr. Wiffred Peter Provincial Family Health Supervisor Madang Provincial Health Division Mr. Wiffred Peter Provincial Family Health Supervisor Madang Provincial Health Division Mr. Wiffred Peter Provincial Family Health Supervisor Madang Provincial Health Division Mr. Wiffred Peter Provincial Family Health Supervisor Modilion Hospital Mr. Griss Gwaidong Modilion Hospital Mr. Ser, Sipora Gwaidong Modilion Hospital Mr. Jernesa Davur Mr. Medical Ward Modilion Hospital Mr. Arna Salili Ward 1 Modilion Hospital Mr. Arna Salili Ward 1 Modilion Hospital Mr. Modilion Hospital Mr. Health Division Mr. Wiffred Mr. Modilion Hospital Mr. Frery Alois Mr. Jerny Alois Mr. Ser, Managare Bamasi Training Coordinator Modilion Hospital Mr. Terry Alois Mr. Ser, Ward Modilion Hospital Mr. Terry Alois Mr. Jerry Alois M	Sr. Norah Alung		Alexishaffen Health Centre
Mr. Sonny Atna Environmental Health Officer PHO Madang Provincial Health Division Mr. Sonny Atna Environmental Health Officer PHO Madang Provincial Health Division Mr. Lawrence Gigl Health projects PHO Madang Provincial Health Division Mr. Lawrence Gigl Health projects PHO Madang Provincial Health Division Mr. Wilfred Peter Provincial Health Promotion Madang Provincial Health Division Mr. Wilfred Peter Provincial Health Promotion Madang Provincial Health Division Mr. Wilfred Peter Mr. Wilfred Peter Mr. Wilfred Peter Mr. Wilfred Peter Mr. Wilfred Madang Provincial Health Division Mr. Galug Sual Director of Nursing Modilion Hospital Sr. Galug Sual Director of Nursing Modilion Hospital Sr. Galug Sual Director of Nursing Modilion Hospital Sr. Thereas Davur Modilion Hospital Mr. Thereas Davur Modilion Hospital Mr. Anna Salili Ward 1 Modilion Hospital Sr. Anna Salili Ward 1 Modilion Hospital Mr. Ward 3 Modilion Hospital Mr. Ward 3 Modilion Hospital Mr. Ward 4 Modilion Hospital Mr. Ward 4 Modilion Hospital Mr. Ward 4 Modilion Hospital Mr. Training Coordinator Modilion Hospital Mr. Ward 4 Modilion Hospital Mr. Tray Alois Nursery Modilion Hospital Mr. Tray Alois Mr. Toblas Tamb Tutor - DGN Madang Lutheran SON Mr. Toblas Tamb Tutor - DGN Madang Lutheran SON Mr. Toblas Tamb Tutor - DGN Madang Lutheran SON Mr. John Tumun Tutor - DGN Madang Lutheran SON Mr. Anna Madang Lutheran SON Mr. Madang Lutheran SON Mr. Anna Madang Lutheran SON Mr. Madang Lutheran SON Mr. Madang Lutheran SON Mr. Sp. Elizabeth Hambuhau Tutor - DGN Madang Lutheran SON Madang Lutheran SON Mr. Sp. Elizabeth Hambuhau Tutor - DGN Madang Lutheran SON Madang Lutheran SON Mr. Anna Mr. Anna Mr.	Sr. Mana Christina		Alexishaffen Health Centre
Mr. Lawrence Gigi Health projects PHO Madang Provincial Health Division Mr. Lawrence Gigi Health projects PHO Madang Provincial Health Division Mr. Wilfred Peter Provincial Malaria Supervisor Madang Provincial Health Division Mr. Wilfred Peter Provincial Malaria Supervisor Madang Provincial Health Division Mr. Wilfred Peter Provincial Family Health Supervisor Madang Provincial Health Division Ms. Christine Gawi Fr. Jennifer Simon Ms. Christine Gawi Chief Executive Officer Modilion Hospital Ms. Theresa Davur Medical Ward Modilion Hospital Ms. John Salili Ward 1 Modilion Hospital Ms. Anna Salili Ward 1 Modilion Hospital Ms. Lawrence Modilion Hospital Ms. Leah Isegi Ward 4 Modilion Hospital Ms. Hospital Ms. Leah Isegi Ward 4 Modilion Hospital Ms. Leuture Don Modilion Hospital Ms. Hospital Ms. Terry Alois Nursery Modilion Hospital Ms. Terry Alois Ms. John Turmun Ms. Stella Agat Leuture Don Ms. Madang Lutheran SON Mr. John Turmun Tutor - DGN Madang Lutheran SON Mr. John Turmun Tutor - DGN Madang Lutheran SON Ms. Ma	Mr. Paul Mabon	Deputy Director, Policy & Admin	Madang Provincial Health Division
Mr. Lawrence Gigi Health projects PHO Madang Provincial Health Division Bernadette Imbosi Provincial Health Promotion Madang Provincial Health Division Mr. Wilfred Peter Provincial Madaria Supervisor Madang Provincial Health Division Mr. Wilfred Peter Provincial Madaria Supervisor Madang Provincial Health Division Mr. Wilfred Provincial Family Health Supervisor Madang Provincial Health Division Mrs. Christine Gawi Modilon Hospital Mrs. Christine Gawi Modilon Hospital Mrs. Christine Gawi Modilon Hospital Mrs. Giprora Gwaldong Obsteric Ward Modilon Hospital Mrs. The Modilon Hospital Modilon Hospital Mrs. Amada Modilon Hospital Mrs. Amada Mrs. Mrs. Mrs. Mrs. Mrs. Mrs. Mrs. Mrs.	Mr. Arthur Wagun	Deputy Director, Technical Health Programs	Madang Provincial Health Division
Pernadette Imbosi	Mr. Sonny Atna	Environmental Health Officer PHO	Madang Provincial Health Division
Mr. Wilfred Peter Provincial Malaria Supervisor Madang Provincial Health Division Sr. Jennifer Simon Provincial Family Health Supervisor Madang Provincial Health Division Mrs. Christine Gawi Chief Executive Officer Modilon Hospital Modilon Hospital Sr. Glaug Sual Director of Nursing Modilon Hospital Modilon Hospital Sr. Sipora Gwaidong Obstetric Ward Modilon Hospital Modilon Hospital Sr. Josephine Mai Nur Ward 3 Modilon Hospital Modilon Hospital Sr. Josephine Mai Nur Ward 3 Modilon Hospital Modilon Hospital Sr. Anna Salili Ward 1 Modilon Hospital Modilon Hospital Sr. Margaret Bamasi Training Coordinator Modilon Hospital Sr. Margaret Bamasi Training Coordinator Modilon Hospital Sr. Hellen Krasimbie ICU Modilon Hospital Modilon Hospital Sr. Hellen Krasimbie ICU Modilon Hospital Modilon Hospital Sr. Hellen Krasimbie ICU Modilon Hospital Modilon Hospital Sr. Josephine Mai Nursery Modilon Hospital Modilon Modilon Hospi	Mr. Lawrence Gigi	Health projects PHO	Madang Provincial Health Division
Sr. Jennifer Simon Provincial Family Health Supervisor Modilon Hospital Sr. Galug Sual Director of Nursing Modilon Hospital Sr. Sipora Gwaidong Obstetric Ward Modilon Hospital Sr. Sipora Gwaidong Obstetric Ward Modilon Hospital Sr. Josephine Mal Num Ward 3 Modilon Hospital Sr. Josephine Mal Num Ward 3 Modilon Hospital Sr. Anna Salili Ward 1 Modilon Hospital Sr. Leah Isegi Ward 4 Modilon Hospital Sr. Hellen Krasimbie Sr. Leah Isegi Modilon Hospital Sr. Leah Isegi Ward 4 Modilon Hospital Sr. Hellen Krasimbie Sr. Leah Isegi Modilon Hospital Sr. Leah Isegi Modilon Hospital Sr. Stella Agat Lecturer DGN Modilon Hospital Mr. Terry Alois Nursery Modilon Hospital Mr. Terry Alois Nursery Modilon Hospital Mr. Tobias Tamb Tutor - DGN Madang Lutheran SON Mr. John Tumun Tutor - DGN Madang Lutheran SON Mr. John Tumun Tutor - DGN Madang Lutheran SON Sr. Elizabeth Hambuhau Tutor - DGN Madang Lutheran SON Sr. Monica Tauna Tutor - DGN Madang Lutheran SON Sr. Koe Tarabi Tutor - DGN Madang Lutheran SON Sr. Koe Tarabi Tutor - DGN Madang Lutheran SON Sr. Koe Tarabi Tutor - DGN Madang Lutheran SON Sr. Koeha Sony Likia Tutor Madana Lutheran SON Sr. Rachel Tombe Senior Lecturer School of Health Science - PAU Sr. Daine Kono Associate Lecturer School of Health Science - PAU Sr. Hettie Asugeni Associate Lecturer School of Health Science - PAU Sr. Hettie Asugeni Senior Lecturer School of Health Science - PAU Sr. Hettie Asugeni Senior Lecturer School of Health Science - PAU Sr. Hettie Asugeni Senior Lecturer School of Health Science - PAU Sr. Hettie Asugeni Senior Lecturer School of Health Science - PAU Sr. Hettie Asugeni Senior Lecturer School of Health Science - PAU Sr. Hettie Asugeni Senior Lecturer School of Health Science - PAU Sr. Hettie Asugeni Olic Asumsing Officer School of Health Science - PAU Sr. M	Bernadette Imbosi	Provincial Health Promotion	Madang Provincial Health Division
MS Christine Gawi Chief Executive Officer Modion Hospital	Mr. Wilfred Peter	Provincial Malaria Supervisor	Madang Provincial Health Division
Sr. Galug Sual Director of Nursing Modilon Hospital Sr. Sipora Gwaidong Obstetric Ward Modilon Hospital Sr. Theresa Davur Medical Ward Modilon Hospital Sr. Josephine Mai Num Ward 3 Modilon Hospital Sr. Josephine Mai Num Ward 3 Modilon Hospital Sr. Anna Saliii Ward 1 Modilon Hospital Sr. Anna Saliii Ward 1 Modilon Hospital Sr. Margaret Bamasi Training Coordinator Modilon Hospital Sr. Leah Isegi Ward 4 Modilon Hospital Sr. Diamba Kesa Nursing Officer Modilon Hospital Sr. Diamba Kesa Nursing Officer Modilon Hospital Mr. Terry Alois Nursery Modilon Hospital Sr. Stelia Agat Lecturer DGN Modilon Hospital Sr. Stelia Agat Lecturer DGN Modilon Hospital Sr. Stelia Agat Lecturer DGN Madang Lutheran SON Mr. John Tumun Tutor - DGN Madang Lutheran SON Mr. John Tumun Tutor - DGN Madang Lutheran SON Sr. Elizabeth Hambuhau Tutor - DGN Madang Lutheran SON Sr. Elizabeth Hambuhau Tutor - DGN Madang Lutheran SON Sr. Konica Tauna Tutor - DGN Madang Lutheran SON Sr. Konica Tauna Tutor - DGN Madang Lutheran SON Sr. Konica Tauna Tutor - DGN Madang Lutheran SON Sr. Judith Angasa Cilinical Supervisor DGN Madang Lutheran SON Sr. Rhods Sony Likia Tutor Madang Lutheran SON Sr. Diane Kono Associate Lecturer School of Health Science - PAU Sr. Diane Kono Associate Lecturer School of Health Science - PAU Sr. Lester Asugeni Lecturer School of Health Science - PAU Sr. Lester Asugeni Associate Lecturer School of Health Science - PAU Sr. Martha Madagi Lecturer Midwifery School of Health Science - PAU Sr. Martha Madagi Lecturer Midwifery School of Health Science - PAU Sr. Martha Madagi Lecturer Midwifery School of Health Science - PAU Sr. Kepu Taelabu Oli C. 6 Mile School of Health Science - PAU Sr. Martha Madagi Nursing Officer School of Health Science - PAU Sr. Modilon Hospital Madang Nursing O	Sr. Jennifer Simon	Provincial Family Health Supervisor	Madang Provincial Health Division
Sr. Sipora Gwaidong Sr. Thoresa Davur Medical Ward Modion Hospital Sr. Josephine Mai Num Ward 3 Modion Hospital Sr. Anna Saliii Ward 1 Modion Hospital Sr. Anna Saliii Ward 1 Modion Hospital Sr. Margaret Bamasi Sr. Leah Isegi Ward 4 Modion Hospital Sr. Hanna Saliii Ward 1 Modion Hospital Sr. Hanna Saliii Ward 4 Modion Hospital Sr. Leah Isegi Ward 4 Modion Hospital Sr. Hellen Krasimbie ICU Modion Hospital Sr. Hellen Krasimbie ICU Modion Hospital Modion Hospital Sr. Hellen Krasimbie ICU Modion Hospital Modion Hospital Mr. Terry Alois Nursery Modion Hospital Mr. Terry Alois Nursery Modion Hospital Mr. Totha Salia Lecturer DGN Madang Lutheran SON Mr. Tobias Tamb Tutor - DGN Madang Lutheran SON Mr. Tobias Tamb Tutor - DGN Madang Lutheran SON Mr. John Tumun Tutor - DGN Madang Lutheran SON Mr. M	Ms Christine Gawi	Chief Executive Officer	Modilon Hospital
Sr. Theresa Davur Nedical Ward Num Ward 3 Modilion Hospital Sr. Anna Salili Ward 1 Modilion Hospital Sr. Anna Salili Ward 4 Modilion Hospital Sr. Leah Isegi Ward 4 Modilion Hospital Sr. Hellen Krasimbie ICU Modilion Hospital Sr. Hellen Krasimbie ICU Modilion Hospital Modilion Ho	Sr. Galug Sual	Director of Nursing	Modilon Hospital
Sr. Theresa Davur Nedical Ward Num Ward 3 Modilion Hospital Sr. Anna Salili Ward 1 Modilion Hospital Sr. Anna Salili Ward 4 Modilion Hospital Sr. Leah Isegi Ward 4 Modilion Hospital Sr. Hellen Krasimbie ICU Modilion Hospital Sr. Hellen Krasimbie ICU Modilion Hospital Modilion Ho	Sr. Sipora Gwaidong	Obstetric Ward	Modilon Hospital
Sr. Josephine Mai Sr. Anna Saliii Ward 1 Modilon Hospital Sr. Margaret Bamasi Training Coordinator Sr. Leah Isegi Ward 4 Modilon Hospital Sr. Diamba Kesa Nursing Officer Modilon Hospital Mr. Terry Alois Nursery Modilon Hospital Mr. Torisa Tamb Tutor - DGN Madang Lutheran SON Mr. Tobias Tamb Tutor - DGN Madang Lutheran SON Mr. John Tumun Tutor - DGN Madang Lutheran SON Mr. John Tumun Tutor - DGN Madang Lutheran SON Mr. Roe Tarabi Tutor - DGN Madang Lutheran SON Mr. And Madang Lutheran SON Mr. Roe Tarabi Tutor Madang Lutheran SON Mr. And Madang Lutheran SON Mr. Roe Tarabi Mr. Lester Asugeni Mr. Lester Mr. Associate Lecturer Mr. Lester Asugeni Mr. Lester Mr. Madang Lutheran Mr. Madang Mr. Madang Mr. Mr. Mr. Mr. Madang Mr. Mr. Mr. Madang Mr. Mr. Mr. Mr. Madang Mr.	•	Medical Ward	-
Sr. Anna Salili Ward 1 Sr. Margaret Bamasi Training Coordinator Modilon Hospital Sr. Leah Isegi Ward 4 Modilon Hospital Sr. Leah Isegi Ward 4 Modilon Hospital Sr. Hellen Krasimbie ICU Modilon Hospital Sr. Hellen Krasimbie ICU Modilon Hospital Sr. Diamba Kesa Nursing Officer Modilon Hospital Mr. Terry Alois Nursery Modilon Hospital Sr. Stella Agat Lecturer DGN Madang Lutheran SON Mr. Tobias Tamb Tutor - DGN Madang Lutheran SON Mr. Jobias Tamb Tutor - DGN Madang Lutheran SON Sr. Elizabeth Hambuhau Tutor - DGN Madang Lutheran SON Sr. Elizabeth Hambuhau Tutor - DGN Madang Lutheran SON Sr. Monica Tauna Tutor - DGN Madang Lutheran SON Sr. Koe Tarabi Tutor - DGN Madang Lutheran SON Sr. Koe Tarabi Tutor - DGN Madang Lutheran SON Sr. Roba Sony Likia Tutor Madang Lutheran SON Sr. Rachel Tombe Senior Lecturer School of Health Science - PAU Sr. Diane Kono Associate Lecturer School of Health Science - PAU Sr. Diane Kono Associate Lecturer School of Health Science - PAU Sr. Hettle Assugeni Associate Lecturer School of Health Science - PAU Sr. Br. Authan Madang Lecturer Midwifery School of Health Science - PAU Sr. Ruth Galang Senior Lecturer School of Health Science - PAU Sr. Ruth Galang Senior Lecturer School of Health Science - PAU Sr. Ruth Galang Senior Lecturer School of Health Science - PAU Sr. Ruth Galang Senior Lecturer School of Health Science - PAU Sr. Ruth Galang Senior Lecturer School of Health Science - PAU Sr. Ruth Galang Senior Lecturer School of Health Science - PAU Sr. Ruth Galang Senior Lecturer School of Health Science - PAU Sr. Ruth Galang Senior Lecturer School of Health Science - PAU Sr. Ruth Galang Senior Lecturer School of Health Science - PAU Sr. Romatha Madagi Lecturer Midwifery School of Health Science - PAU Sr. Romatha Madagi Lecturer Midwifery School of Health Science - PAU Sr. Romatha Madagi Lecturer Midwifery School of Health Science - PAU Sr. Romatha Madagi Lecturer Midwifery School of Health Science - PAU Sr. Romatha Madagi Lecturer Midwifery School of Health Science - PAU Sr. Antonia Guba Paed	Sr. Josephine Mai	Num Ward 3	-
Sr. Margaret Bamasi Training Coordinator Modilon Hospital Sr. Leah Isegi Ward 4 Modilon Hospital Sr. Hellen Krasimble ICU Modilon Hospital Sr. Hellen Krasimble ICU Modilon Hospital Mr. Terry Alois Nursery Modilon Hospital Mr. Tobias Tamb Tutor - DGN Madang Lutheran SON Mr. John Tumun Tutor - DGN Madang Lutheran SON Sr. Elizabeth Hambuhau Tutor - DGN Madang Lutheran SON Sr. Elizabeth Hambuhau Tutor - DGN Madang Lutheran SON Sr. Koe Tarabi Tutor - DGN Madang Lutheran SON Sr. Koe Tarabi Tutor - DGN Madang Lutheran SON Sr. Judith Angasa Clinical Supervisor DGN Madang Lutheran SON Sr. Rhoda Sony Likia Tutor Madang Lutheran SON Sr. Rhoda Sony Likia Tutor Madang Lutheran SON Sr. Rhoda Sony Likia Tutor Madang Lutheran SON Sr. Bina Kono Associate Lecturer School of Health Science - PAU Sr. Diane Kono Associate Lecturer School of Health Science - PAU Sr. Lester Asugeni Associate Lecturer School of Health Science - PAU Sr. Martha Madang Lecturer School of Health Science - PAU Sr. Martha Madang Lecturer School of Health Science - PAU Sr. Martha Madang Lecturer School of Health Science - PAU Sr. Martha Madang Lecturer School of Health Science - PAU Sr. Martha Madang Lecturer School of Health Science - PAU Sr. Acabett Geita Associate Lecturer School of Health Science - PAU Sr. Acabett Geita Associate Lecturer School of Health Science - PAU Sr. Routh Galang Senior Lecturer School of Health Science - PAU Sr. Routh Galang Senior Lecturer School of Health Science - PAU Sr. Routh Galang Senior Lecturer School of Health Science - PAU Sr. Routh Galang Senior Lecturer School of Health Science - PAU Sr. Kepu Taelabu OliC, 6 Mile School of Health Science - PAU Sr. Kopu Taelabu OliC, 6 Mile School of Health Science - PAU Sr. Kopu Taelabu OliC Nursing Officer School of Health Science - PAU Sr. Dara Renagi OliC Nursing Officer School of Health Science - PAU Mr. Mackenzle CHW School of Health Science - PAU Mr. Koivi K	· ·		-
Sr. Leah Isegi Ward 4 Modilon Hospital Sr. Hellen Krasimbie ICU Modilon Hospital Sr. Diamba Kesa Nursing Officer Modilon Hospital Mr. Terry Alois Nursery Modilon Hospital Mr. Terry Alois Nursery Modilon Hospital Sr. Stella Agat Lecturer DGN Madang Lutheran SON Mr. Tobias Tamb Tutor - DGN Madang Lutheran SON Mr. John Tumun Tutor - DGN Madang Lutheran SON Sr. Elizabeth Hambuhau Tutor - DGN Madang Lutheran SON Sr. Elizabeth Hambuhau Tutor - DGN Madang Lutheran SON Sr. Monica Tauna Tutor - DGN Madang Lutheran SON Sr. Monica Tauna Tutor - DGN Madang Lutheran SON Sr. Monica Tauna Tutor - DGN Madang Lutheran SON Sr. Monica Tauna Tutor - DGN Madang Lutheran SON Sr. Koe Tarabi Tutor - DGN Madang Lutheran SON Sr. St. Note Tarabi Tutor Madang Lutheran SON Sr. Rachel Tombe Senior Lecturer School of Health Science - PAU Sr. Rachel Tombe Senior Lecturer School of Health Science - PAU Mr. Lester Asugeni Lecturer School of Health Science - PAU Mr. Lester Asugeni Lecturer School of Health Science - PAU Sr. Jocabett Geita Associate Lecturer School of Health Science - PAU Sr. Jocabett Geita Associate Lecturer School of Health Science - PAU Sr. Jocabett Geita Associate Lecturer School of Health Science - PAU Sr. Martha Madagi Lecturer Midwifery School of Health Science - PAU Sr. Martha Madagi Lecturer Midwifery School of Health Science - PAU Sr. Martha Madagi Senior Lecturer School of Health Science - PAU Sr. Mortha Balang Senior Lecturer School of Health Science - PAU Sr. Kepu Taelabu OlC. 6 Mile School of Health Science - PAU Sr. Kepu Taelabu OlC. 6 Mile School of Health Science - PAU Sr. Antonia Guba Paediatric Specialist Nurse School of Health Science - PAU Sr. Casnel Matchus Nursing Officer School of Health Science - PAU Sr. Casnel Matchus Paediatric Specialist Nurse School of Health Science - PAU Mr. Koivi Kave CHW School of Health Science - PAU Mr. Koivi Kave CHW School of Health Science - PAU Mr. Skila Wapuli CHW School of Health Science - PAU Mr. Lester Reagi Olic Nursing Officer School of Health Science - PAU Mr. School			-
Sr. Hellen Krasimbie Sr. Diamba Kesa Nursing Officer Modilon Hospital Mr. Terry Alois Nursery Modilon Hospital Mr. Terry Alois Nursery Modilon Hospital Mr. Terry Alois Nursery Modilon Hospital Mr. Tobjas Tamb Mr. Tobias Tamb Tutor - DGN Mr. Jobias Tamb Tutor - DGN Madang Lutheran SON Mr. Jobias Tamb Tutor - DGN Madang Lutheran SON Mr. John Tumun Tutor - DGN Madang Lutheran SON Mr. John Tumun Mr. John Tumun Mr. John Tumun Madang Lutheran SON M			-
Sr. Diamba Kesa Nursing Officer Modilon Hospital Mr. Terry Alois Nursery Modilon Hospital Sr. Stella Agat Lecturer DGN Madang Lutheran SON Mr. Tobias Tamb Tutor - DGN Madang Lutheran SON Mr. John Tumun Tutor - DGN Madang Lutheran SON Sr. Elizabeth Hambuhau Tutor - DGN Madang Lutheran SON Sr. Monica Tauna Tutor - DGN Madang Lutheran SON Sr. Monica Tauna Tutor - DGN Madang Lutheran SON Sr. Monica Tauna Tutor - DGN Madang Lutheran SON Sr. Judith Angasa Clinical Supervisor DGN Madang Lutheran SON Sr. Robert Tauna Tutor Madang Lutheran SON Sr. Robert Tauna Tutor Madang Lutheran SON Sr. Robert Tauna Son Madang Lutheran SON Sr. Robert Tauna Son Madang Lutheran SON Sr. Robert Tombe Madang Lutheran SON Sr. Robert Tombe Senior Lecturer Madang Lutheran SON Sr. Robert Tombe Senior Lecturer School of Health Science - PAU Sr. Diane Kono Associate Lecturer School of Health Science - PAU Mr. Lester Asugeni Lecturer School of Health Science - PAU Sr. Hettle Asugeni Associate Lecturer School of Health Science - PAU Sr. Hettle Asugeni Associate Lecturer School of Health Science - PAU Sr. Martha Madagi Lecturer Midwifery School of Health Science - PAU Sr. Ruth Galang Senior Lecturer School of Health Science - PAU Sr. Ruth Galang Senior Lecturer School of Health Science - PAU Sr. Ruth Galang Senior Lecturer School of Health Science - PAU Sr. Ruth Galang Senior Lecturer School of Health Science - PAU Sr. Kepu Taelabu OlC, 6 Mile School of Health Science - PAU Sr. Kepu Taelabu OlC, 6 Mile School of Health Science - PAU Sr. Kepu Taelabu OlC, 6 Mile School of Health Science - PAU Sr. Antonia Guba Paediatric Specialist Nurse School of Health Science - PAU Sr. Casmei Malchus Nursing Officer School of Health Science - PAU Ms. Kila Wapuli CHW School of Health Science - PAU Ms. Kila Wapuli CHW School of Health Science - PAU Ms. Kila Wapuli CHW School of Health Science - PAU Ms. Kelon Varvang Officer School of Health Science - PAU Ms. Kelon Varvang Officer School of Health Science - PAU Ms. Helen Fred CHW School of Health Science - PAU Ms. H			-
Mr. Terry Alois Sr. Stella Agat Lecturer DGN Madang Lutheran SON Mr. Tobias Tamb Tutor - DGN Madang Lutheran SON Mr. John Tumun Tutor - DGN Madang Lutheran SON Mr. John Tumun Tutor - DGN Madang Lutheran SON Mr. John Tumun Tutor - DGN Madang Lutheran SON Mr. Sizisabeth Hambuhau Tutor - DGN Madang Lutheran SON Sr. Monica Tauna Tutor - DGN Madang Lutheran SON Madang Lutheran Madang Lutheran Madang Lutheran		177	<u>-</u>
Sr. Stella Agat Mr. Tobias Tamb Tutor - DGN Mr. John Tumun Tutor - DGN Mr. John Tumun Tutor - DGN Madang Lutheran SON Mr. John Tumun Tutor - DGN Madang Lutheran SON Mr. John Tumun Tutor - DGN Madang Lutheran SON Madang Lutheran SON Madang Lutheran SON Madang Lutheran SON Sr. Monica Tauna Tutor - DGN Madang Lutheran SON Madan		<u> </u>	-
Mr. Tobias Tamb Mr. John Tumun Tutor - DGN Mr. John Tumun Tutor - DGN Mr. John Tumun Tutor - DGN Madang Lutheran SON Sr. Elizabeth Hambuhau Tutor - DGN Madang Lutheran SON Madang Lutheran SON Sr. Monica Tauna Tutor - DGN Madang Lutheran SON Madang Lutheran SON Sr. Monica Tauna Tutor - DGN Madang Lutheran SON Madang Lutheran SON Sr. Judith Angasa Clinical Supervisor DGN Madang Lutheran SON Sr. Rhoda Sony Likia Tutor Madang Lutheran SON Sr. Rachel Tombe Senior Lecturer School of Health Science - PAU Sr. Diane Kono Associate Lecturer School of Health Science - PAU Mr. Lester Asugeni Lecturer School of Health Science - PAU Sr. Jocabett Geita Associate Lecturer School of Health Science - PAU Sr. Jocabett Geita Associate Lecturer School of Health Science - PAU Sr. Ruth Galang Senior Lecturer School of Health Science - PAU Sr. Ruth Galang Senior Lecturer School of Health Science - PAU Sr. Ruth Galang Senior Lecturer School of Health Science - PAU Sr. Keptu Taelabu OlC, 6 Mile School of Health Science - PAU Sr. Keptu Taelabu OlC, 6 Mile School of Health Science - PAU Sr. Casmei Malchus Nursing Officer School of Health Science - PAU Sr. Casmei Malchus Nursing Officer School of Health Science - PAU Sr. Casmei Malchus Nursing Officer School of Health Science - PAU Sr. Casmei Malchus Nursing Officer School of Health Science - PAU Sr. Casmei Malchus Nursing Officer School of Health Science - PAU Sr. Casmei Malchus Nursing Officer School of Health Science - PAU Sr. Casmei Malchus Nursing Officer School of Health Science - PAU Sr. Casmei Malchus School of Health Science - PAU Sr. Casmei Malchus Nursing Officer School of Health Science - PAU Sr. Casmei Malchus Nursing Officer School of Health Science - PAU Sr. Casmei Malchus School of Health Science - PAU Mr. Koivi Kave CHW School of Health Science - PAU Mr. Keivi Kave CHW School of Health Science - PAU Mr. Keivi Kave CHW School of Health Science - PAU Mr. Madang Lutheran SON Ma		-	-
Mr. John Tumun Tutor - DGN Madang Lutheran SON M			
Sr. Elizabeth Hambuhau Tutor - DGN Madang Lutheran SON Sr. Monica Tauna Tutor - DGN Madang Lutheran SON Madang Lutheran SON Tutor - DGN Madang Lutheran SON Madang Lut			
Sr. Monica Tauna Tutor - DGN Madang Lutheran SON Sr. Koe Tarabi Tutor - DGN Madang Lutheran SON Sr. Judith Angasa Clinical Supervisor DGN Madang Lutheran SON Sr. Rhoda Sony Likia Tutor Madang Lutheran SON Sr. Rachel Tombe Senior Lecturer School of Health Science - PAU Sr. Diane Kono Associate Lecturer School of Health Science - PAU Mr. Lester Asugeni Lecturer School of Health Science - PAU Sr. Jocabett Gelta Sr. Associate Lecturer School of Health Science - PAU Sr. Jocabett Gelta School of Health Science - PAU Sr. Autha Madang Lecturer Midwifery School of Health Science - PAU Sr. Ruth Galang Senior Lecturer School of Health Science - PAU Sr. Ruth Galang Senior Lecturer School of Health Science - PAU Sr. Ruth Galang Senior Lecturer School of Health Science - PAU Sr. Ruth Galang Senior Lecturer School of Health Science - PAU Sr. Ruth Galang Senior Lecturer School of Health Science - PAU Sr. Ruth Galang Senior Lecturer School of Health Science - PAU Sr. Wenu Taelabu OIC, 6 Mile School of Health Science - PAU Sr. Wendy Bonny RN HIV/STI School of Health Science - PAU Sr. Antonia Guba Paediatric Specialist Nurse School of Health Science - PAU Sr. Casmel Malchus Nursing Officer School of Health Science - PAU Sr. Lora Renaqi OIC Nursing Officer School of Health Science - PAU Mr. Koivi Kave CHW School of Health Science - PAU Ms. Klau Wapuli CHW School of Health Science - PAU Ms. Klau Wapuli CHW School of Health Science - PAU Ms. School of Health Science - PAU Ms. School of Health Science - PAU Ms. Loani Vanua CHW School of Health Science - PAU Ms. Loani Vanua CHW School of Health Science - PAU Ms. School of Health Science - PAU Ms. Loani Vanua CHW School of Health Science - PAU Ms. Loani Vanua CHW School of Health Science - PAU Ms. Loani Vanua CHW School of Health Science - PAU Ms. Loani Vanua CHW School of Health Science - PAU Ms. Loani Vanua CHW School of Health Science - PAU Ms. Loani Vanua CHW School of Health Science - PAU Ms. Loani Vanua CHW School of Health Science - PAU Ms. Loani Vanua CHW School of Health Scien			
Sr. Koe Tarabi Sr. Judith Angasa Clinical Supervisor DGN Madang Lutheran SON Sr. Rhoda Sony Likia Tutor Madang Lutheran SON Sr. Rhoda Sony Likia Tutor Madang Lutheran SON Sr. Rachel Tombe Senior Lecturer School of Health Science - PAU Sr. Diane Kono Associate Lecturer School of Health Science - PAU Mr. Lester Asugeni Lecturer School of Health Science - PAU Sr. Jocabett Geita Associate Lecturer School of Health Science - PAU Sr. Jocabett Geita Associate Lecturer School of Health Science - PAU Sr. Jocabett Geita Associate Lecturer School of Health Science - PAU Sr. Auth Galang Senior Lecturer School of Health Science - PAU Sr. Ruth Galang Senior Lecturer School of Health Science - PAU Sr. Ruth Galang Senior Lecturer School of Health Science - PAU Sr. Kepu Taelabu OIC, 6 Mile School of Health Science - PAU Sr. Wendy Bonny RN HIV/STI School of Health Science - PAU Sr. Antonia Guba Paediatric Specialist Nurse School of Health Science - PAU Sr. Casmel Malchus Nursing Officer School of Health Science - PAU Sr. Dora Renagi OIC Nursing Officer School of Health Science - PAU Mr. Koivi Kave CHW School of Health Science - PAU Mr. Koivi Kave CHW School of Health Science - PAU Mr. Koivi Kave CHW School of Health Science - PAU Mr. Schoo			
Sr. Judith Angasa Clinical Supervisor DGN Madang Lutheran SON Sr. Rhoda Sony Likia Tutor Madang Lutheran SON Sr. Rachel Tombe Senior Lecturer School of Health Science - PAU Sr. Diane Kono Mr. Lester Asugeni Lecturer School of Health Science - PAU Sr. Hettie Asugeni Associate Lecturer School of Health Science - PAU Sr. Hettie Asugeni Associate Lecturer School of Health Science - PAU Sr. Jocabett Geita Associate Lecturer School of Health Science - PAU Sr. Jocabett Geita Associate Lecturer School of Health Science - PAU Sr. Martha Madagi Lecturer Midwifery School of Health Science - PAU Sr. Ruth Galang Senior Lecturer School of Health Science - PAU Mr. Mackenzie Lecturer School of Health Science - PAU Sr. Kepu Taelabu OIC, 6 Mile School of Health Science - PAU Sr. Wendy Bonny RN HIV/STI School of Health Science - PAU Sr. Antonia Guba Paediatric Specialist Nurse School of Health Science - PAU Sr. Casmei Malchus Nursing Officer School of Health Science - PAU Sr. Idau Renagi OIC Nursing Officer School of Health Science - PAU Sr. Idau Renagi Nursing Officer School of Health Science - PAU Mr. Koivi Kave CHW School of Health Science - PAU Ms Kila Wapuli CHW School of Health Science - PAU Ms Helen Fred CHW School of Health Science - PAU Ms Loani Vanua CHW School of Health Science - PAU Ms Loani Vanua CHW School of Health Science - PAU Ms Loani Vanua CHW School of Health Science - PAU Ms Loani Vanua CHW School of Health Science - PAU Ms Loani Vanua CHW School of Health Science - PAU Ms Loani Vanua CHW School of Health Science - PAU Ms Loani Vanua CHW School of Health Science - PAU Ms Loani Vanua CHW School of Health Science - PAU Ms Loani Vanua CHW School of Health Science - PAU Ms Loani Vanua CHW School of Health Science - PAU Ms Loani Vanua CHW School of Health Science - PAU Ms Loani Vanua CHW School of Health Science - PAU Ms Loani Vanua CHW School of Health Science - PAU Ms Loani Vanua CHW School of Health Science - PAU Ms Loani Vanua CHW School of Health Science - PAU Ms Loani Vanua CHW School of Health Science - PAU			
Sr. Rhoda Sony Likia Tutor Madang Lutheran SON Sr. Rachel Tombe Senior Lecturer School of Health Science - PAU Sr. Diane Kono Associate Lecturer School of Health Science - PAU Mr. Lester Asugeni Lecturer School of Health Science - PAU Sr. Hettle Asugeni Associate Lecturer School of Health Science - PAU Sr. Jocabett Geita Associate Lecturer School of Health Science - PAU Sr. Martha Madagi Lecturer Midwifery School of Health Science - PAU Sr. Ruth Galang Senior Lecturer School of Health Science - PAU Mr. Mackenzie Lecturer School of Health Science - PAU Sr. Kepu Taelabu OIC, 6 Mile School of Health Science - PAU Sr. Wendy Bonny RN HIV/STI School of Health Science - PAU Sr. Antonia Guba Paediatric Specialist Nurse School of Health Science - PAU Sr. Casmei Malchus Nursing Officer School of Health Science - PAU Sr. Idau Renagi OIC Nursing Officer School of Health Science - PAU Mr. Koivi Kave CHW School of Health Science - PAU Ms Kila Wapuli CHW <td></td> <td> </td> <td></td>			
Sr. Rachel Tombe Senior Lecturer School of Health Science - PAU Sr. Diane Kono Associate Lecturer School of Health Science - PAU Mr. Lester Asugeni Lecturer School of Health Science - PAU Sr. Hettie Asugeni Associate Lecturer School of Health Science - PAU Sr. Jocabett Geita Associate Lecturer School of Health Science - PAU Sr. Jocabett Geita Associate Lecturer School of Health Science - PAU Sr. Martha Madagi Lecturer Midwifery School of Health Science - PAU Sr. Ruth Galang Senior Lecturer School of Health Science - PAU Mr. Mackenzie Lecturer School of Health Science - PAU Sr. Kepu Taelabu OIC, 6 Mile School of Health Science - PAU Sr. Wendy Bonny RN HIIV/STI School of Health Science - PAU Sr. Casmei Malchus Paediatric Specialist Nurse School of Health Science - PAU Sr. Casmei Malchus Nursing Officer School of Health Science - PAU Sr. Dora Renagi OIC Nursing Officer School of Health Science - PAU Sr. Idau Renagi Nursing Officer School of Health Science - PAU Mr. Koivi Kave CHW School of Health Science - PAU Ms. Kila Wapuli CHW School of Health Science - PAU Ms. Koivi Kave CHW School of Health Science - PAU Ms. Helen Fred CHW School of Health Science - PAU Ms. Loani Vanua CHW School of Health Science - PAU Ms. Marava Principal Highlands College of Nursing Mr. Saidi Lani Deputy Principal Highlands College of Nursing Mr. Gabriel Wau District Health Officer, HEO Highlands College of Nursing		-	
Sr. Diane Kono Associate Lecturer School of Health Science - PAU Mr. Lester Asugeni Lecturer School of Health Science - PAU Sr. Hettie Asugeni Associate Lecturer School of Health Science - PAU Sr. Jocabett Geita Associate Lecturer School of Health Science - PAU Sr. Martha Madagi Lecturer Midwifery School of Health Science - PAU Sr. Martha Madagi Senior Lecturer School of Health Science - PAU Mr. Mackenzie Lecturer School of Health Science - PAU Sr. Kepu Taelabu OIC, 6 Mile School of Health Science - PAU Sr. Wendy Bonny RN HIV/STI School of Health Science - PAU Sr. Antonia Guba Paediatric Specialist Nurse School of Health Science - PAU Sr. Casmei Malchus Nursing Officer School of Health Science - PAU Sr. Dora Renagi OIC Nursing Officer School of Health Science - PAU Sr. Idau Renagi Nursing Officer School of Health Science - PAU Mr. Koivi Kave CHW School of Health Science - PAU Ms Kila Wapuli CHW School of Health Science - PAU Ms Kila Wapuli CHW School of Health Science - PAU Ms Loani Vanua CHW School of Health Science - PAU Ms Loani Vanua Principal Mr. Saidi Lani Deputy Principal Highlands College of Nursing Mr. Saidi Lani Deputy Principal Mr. Gabriel Wau District Health Officer, HEO Highlands College of Nursing Mr. Gabriel Wau District Health Officer, HEO Highlands College of Nursing			
Mr. Lester Asugeni Sr. Hettie Asugeni Associate Lecturer School of Health Science - PAU Sr. Hettie Asugeni Associate Lecturer School of Health Science - PAU Sr. Jocabett Geita Associate Lecturer School of Health Science - PAU Sr. Martha Madagi Lecturer Midwifery School of Health Science - PAU Sr. Martha Madagi Senior Lecturer School of Health Science - PAU Mr. Mackenzie Lecturer School of Health Science - PAU Sr. Kepu Taelabu OIC, 6 Mile School of Health Science - PAU Sr. Wendy Bonny RN HIV/STI School of Health Science - PAU Sr. Antonia Guba Paediatric Specialist Nurse School of Health Science - PAU Sr. Casmei Malchus Nursing Officer School of Health Science - PAU Sr. Dora Renagi OIC Nursing Officer School of Health Science - PAU Sr. Idau Renagi Nursing Officer School of Health Science - PAU Mr. Koivi Kave CHW School of Health Science - PAU Ms Kila Wapuli CHW School of Health Science - PAU Ms Loani Vanua CHW School of Health Science - PAU Ms Loani Vanua CHW School of Health Science - PAU Mr. Sachool of Health Science - PAU Mr. Sachool of Health Science - PAU Ms Loani Vanua Principal Mr. Saidi Lani Deputy Principal Highlands College of Nursing Mr. Saldi Lani Deputy Principal Mr. Gabriel Wau District Health Officer, HEO Highlands College of Nursing Mr. Gabriel Wau District Health Officer, HEO Highlands College of Nursing			
Sr. Hettie Asugeni Associate Lecturer School of Health Science - PAU Sr. Jocabett Geita Associate Lecturer School of Health Science - PAU Sr. Martha Madagi Lecturer Midwifery School of Health Science - PAU Sr. Ruth Galang Senior Lecturer School of Health Science - PAU Mr. Mackenzie Lecturer School of Health Science - PAU Sr. Kepu Taelabu OIC, 6 Mile School of Health Science - PAU Sr. Wendy Bonny RN HIV/STI School of Health Science - PAU Sr. Antonia Guba Paediatric Specialist Nurse School of Health Science - PAU Sr. Casmei Malchus Nursing Officer School of Health Science - PAU Sr. Dora Renagi OIC Nursing Officer School of Health Science - PAU Sr. Idau Renagi Nursing Officer School of Health Science - PAU Mr. Koivi Kave CHW School of Health Science - PAU Ms Kila Wapuli CHW School of Health Science - PAU Ms Helen Fred CHW School of Health Science - PAU Ms Loani Vanua CHW School of Health Science - PAU Sr. Molly Marava Principal Highlands College of Nursing Mr. Saidi Lani Deputy Principal Highlands College of Nursing Mr. Gabriel Wau District Health Officer, HEO Highlands College of Nursing Sr. Kaviri Tsivane OIC Nursing			
Sr. Jocabett Geita Associate Lecturer School of Health Science - PAU Sr. Martha Madaqi Lecturer Midwifery School of Health Science - PAU Sr. Ruth Galang Senior Lecturer School of Health Science - PAU Mr. Mackenzie Lecturer School of Health Science - PAU Sr. Kepu Taelabu OIC, 6 Mile School of Health Science - PAU Sr. Wendy Bonny RN HIV/STI School of Health Science - PAU Sr. Antonia Guba Paediatric Specialist Nurse School of Health Science - PAU Sr. Casmei Malchus Nursing Officer School of Health Science - PAU Sr. Dora Renagi OIC Nursing Officer School of Health Science - PAU Sr. Idau Renagi Nursing Officer School of Health Science - PAU Mr. Koivi Kave CHW School of Health Science - PAU Ms Kila Wapuli CHW School of Health Science - PAU Ms Loani Vanua CHW School of Health Science - PAU Ms Loani Vanua CHW School of Health Science - PAU Sr. Molly Marava Principal Highlands College of Nursing Mr. Saidi Lani Deputy Principal Highlands College of Nursing Mr. Gabriel Wau District Health Officer, HEO Highlands College of Nursing Mr. Gabriel Wau District Health Officer, HEO Highlands College of Nursing			
Sr. Martha Madagi Lecturer Midwifery School of Health Science - PAU Sr. Ruth Galang Senior Lecturer School of Health Science - PAU Mr. Mackenzie Lecturer School of Health Science - PAU Sr. Kepu Taelabu OIC, 6 Mile School of Health Science - PAU Sr. Wendy Bonny RN HIV/STI School of Health Science - PAU Sr. Antonia Guba Paediatric Specialist Nurse School of Health Science - PAU Sr. Casmei Malchus Nursing Officer School of Health Science - PAU Sr. Dora Renagi OIC Nursing Officer School of Health Science - PAU Sr. Idau Renagi Nursing Officer School of Health Science - PAU Mr. Koivi Kave CHW School of Health Science - PAU Ms Kila Wapuli CHW School of Health Science - PAU Ms Helen Fred CHW School of Health Science - PAU Ms Loani Vanua CHW School of Health Science - PAU Mr. Saidi Lani Deputy Principal Highlands College of Nursing Mr. Saidi Lani Deputy Principal Highlands College of Nursing Mr. Gabriel Wau District Health Officer, HEO Highlands College of Nursing Sr. Kaviri Tsivane <td></td> <td></td> <td></td>			
Sr. Ruth Galang Senior Lecturer School of Health Science - PAU Mr. Mackenzie Lecturer School of Health Science - PAU Sr. Kepu Taelabu OIC, 6 Mile School of Health Science - PAU Sr. Wendy Bonny RN HIV/STI School of Health Science - PAU Sr. Antonia Guba Paediatric Specialist Nurse School of Health Science - PAU Sr. Casmei Malchus Nursing Officer School of Health Science - PAU Sr. Dora Renagi OIC Nursing Officer School of Health Science - PAU Sr. Idau Renagi Nursing Officer School of Health Science - PAU Mr. Koivi Kave CHW School of Health Science - PAU Ms Kila Wapuli CHW School of Health Science - PAU Ms Helen Fred CHW School of Health Science - PAU Ms Loani Vanua CHW School of Health Science - PAU Mr. Saidi Lani Deputy Principal Highlands College of Nursing Mr. Saidi Lani Deputy Principal Highlands College of Nursing Mr. Gabriel Wau District Health Officer, HEO Highlands College of Nursing Mr. Gabriel Wau District Health Officer, HEO Highlands College of Nursing			
Mr. Mackenzie Lecturer School of Health Science - PAU Sr. Kepu Taelabu OlC, 6 Mile School of Health Science - PAU Sr. Wendy Bonny RN HIV/STI School of Health Science - PAU Sr. Antonia Guba Paediatric Specialist Nurse School of Health Science - PAU Sr. Casmei Malchus Nursing Officer School of Health Science - PAU Sr. Dora Renagi OlC Nursing Officer School of Health Science - PAU Sr. Idau Renagi Nursing Officer School of Health Science - PAU Mr. Koivi Kave CHW School of Health Science - PAU Ms Kila Wapuli CHW School of Health Science - PAU Ms Helen Fred CHW School of Health Science - PAU Ms Loani Vanua School of Health Science - PAU Ms Loani Vanua School of Health Science - PAU Ms Loani Vanua School of Health Science - PAU Ms Loani Vanua School of Health Science - PAU Ms Loani Van			
Sr. Kepu Taelabu OIC, 6 Mile Sr. Wendy Bonny RN HIV/STI School of Health Science - PAU Sr. Antonia Guba Paediatric Specialist Nurse School of Health Science - PAU Sr. Casmei Malchus Nursing Officer School of Health Science - PAU Sr. Dora Renagi OIC Nursing Officer School of Health Science - PAU Sr. Idau Renagi Nursing Officer School of Health Science - PAU Sr. Idau Renagi Mr. Koivi Kave CHW School of Health Science - PAU MS Kila Wapuli CHW School of Health Science - PAU MS Helen Fred CHW School of Health Science - PAU MS Loani Vanua CHW School of Health Science - PAU MS Loani Vanua CHW School of Health Science - PAU Highlands College of Nursing Mr. Saidi Lani Deputy Principal Highlands College of Nursing Mr. Gabriel Wau District Health Officer, HEO Highlands College of Nursing Mr. Gabriel Wau OIC Nupuru Health Centre Highlands College of Nursing			
Sr. Wendy Bonny RN HIV/STI Sr. Antonia Guba Paediatric Specialist Nurse School of Health Science - PAU Sr. Casmei Malchus Nursing Officer School of Health Science - PAU Sr. Dora Renagi OlC Nursing Officer School of Health Science - PAU Sr. Idau Renagi Nursing Officer School of Health Science - PAU Sr. Idau Renagi Nursing Officer School of Health Science - PAU Mr. Koivi Kave CHW School of Health Science - PAU Ms Kila Wapuli CHW School of Health Science - PAU Ms Helen Fred CHW School of Health Science - PAU Ms Loani Vanua CHW School of Health Science - PAU Ms Loani Vanua CHW School of Health Science - PAU Highlands College of Nursing Mr. Saidi Lani Deputy Principal Highlands College of Nursing Mr. Gabriel Wau District Health Officer, HEO Highlands College of Nursing Mr. Gabriel Wau District Health Officer, HEO Highlands College of Nursing			
Sr. Antonia GubaPaediatric Specialist NurseSchool of Health Science - PAUSr. Casmei MalchusNursing OfficerSchool of Health Science - PAUSr. Dora RenagiOIC Nursing OfficerSchool of Health Science - PAUSr. Idau RenagiNursing OfficerSchool of Health Science - PAUMr. Koivi KaveCHWSchool of Health Science - PAUMs Kila WapuliCHWSchool of Health Science - PAUMs Helen FredCHWSchool of Health Science - PAUMs Loani VanuaCHWSchool of Health Science - PAUSr. Molly MaravaPrincipalHighlands College of NursingMr. Saidi LaniDeputy PrincipalHighlands College of NursingSr. Lesley RirikaSenior LecturerHighlands College of NursingMr. Gabriel WauDistrict Health Officer, HEOHighlands College of NursingSr. Kaviri TsivaneOIC Nupuru Health CentreHighlands College of Nursing			
Sr. Casmei Malchus Nursing Officer Sr. Dora Renagi OIC Nursing Officer School of Health Science - PAU Sr. Idau Renagi Nursing Officer School of Health Science - PAU Mr. Koivi Kave CHW School of Health Science - PAU Ms Kila Wapuli CHW School of Health Science - PAU Ms Helen Fred CHW School of Health Science - PAU Ms Loani Vanua CHW School of Health Science - PAU Sr. Molly Marava Principal Highlands College of Nursing Mr. Saidi Lani Deputy Principal Highlands College of Nursing Mr. Gabriel Wau District Health Officer, HEO Highlands College of Nursing Mr. Gabriel Wau OIC Nupuru Health Centre Highlands College of Nursing Highlands College of Nursing		<u> </u>	
Sr. Dora Renagi OIC Nursing Officer School of Health Science - PAU Sr. Idau Renagi Nursing Officer School of Health Science - PAU Mr. Koivi Kave CHW School of Health Science - PAU Ms Kila Wapuli CHW School of Health Science - PAU Ms Helen Fred CHW School of Health Science - PAU Ms Loani Vanua CHW School of Health Science - PAU Sr. Molly Marava Principal Highlands College of Nursing Mr. Saidi Lani Deputy Principal Highlands College of Nursing Sr. Lesley Ririka Senior Lecturer Highlands College of Nursing Mr. Gabriel Wau District Health Officer, HEO Highlands College of Nursing Sr. Kaviri Tsivane OIC Nupuru Health Centre Highlands College of Nursing			
Sr. Idau Renagi School of Health Science - PAU Mr. Koivi Kave CHW School of Health Science - PAU Ms Kila Wapuli CHW School of Health Science - PAU Ms Helen Fred CHW School of Health Science - PAU Ms Loani Vanua CHW School of Health Science - PAU Sr. Molly Marava Principal Highlands College of Nursing Mr. Saidi Lani Deputy Principal Highlands College of Nursing Mr. Saidi Lani Senior Lecturer Highlands College of Nursing Mr. Gabriel Wau District Health Officer, HEO Highlands College of Nursing Sr. Kaviri Tsivane OIC Nupuru Health Centre Highlands College of Nursing			
Mr. Koivi Kave CHW School of Health Science - PAU Ms Kila Wapuli CHW School of Health Science - PAU Ms Helen Fred CHW School of Health Science - PAU Ms Loani Vanua CHW School of Health Science - PAU Sr. Molly Marava Principal Highlands College of Nursing Mr. Saidi Lani Deputy Principal Highlands College of Nursing Sr. Lesley Ririka Senior Lecturer Highlands College of Nursing Mr. Gabriel Wau District Health Officer, HEO Highlands College of Nursing Sr. Kaviri Tsivane OIC Nupuru Health Centre Highlands College of Nursing		<u> </u>	
Ms Kila Wapuli CHW School of Health Science - PAU Ms Helen Fred CHW School of Health Science - PAU Ms Loani Vanua CHW School of Health Science - PAU Sr. Molly Marava Principal Highlands College of Nursing Mr. Saidi Lani Deputy Principal Highlands College of Nursing Sr. Lesley Ririka Senior Lecturer Highlands College of Nursing Mr. Gabriel Wau District Health Officer, HEO Highlands College of Nursing Sr. Kaviri Tsivane OIC Nupuru Health Centre Highlands College of Nursing	-		
Ms Helen Fred CHW School of Health Science - PAU Ms Loani Vanua CHW School of Health Science - PAU Sr. Molly Marava Principal Highlands College of Nursing Mr. Saidi Lani Deputy Principal Highlands College of Nursing Sr. Lesley Ririka Senior Lecturer Highlands College of Nursing Mr. Gabriel Wau District Health Officer, HEO Highlands College of Nursing Sr. Kaviri Tsivane OIC Nupuru Health Centre Highlands College of Nursing			
Ms Loani Vanua CHW School of Health Science - PAU Sr. Molly Marava Principal Highlands College of Nursing Mr. Saidi Lani Deputy Principal Highlands College of Nursing Sr. Lesley Ririka Senior Lecturer Highlands College of Nursing Mr. Gabriel Wau District Health Officer, HEO Highlands College of Nursing Sr. Kaviri Tsivane OIC Nupuru Health Centre Highlands College of Nursing	-	<u> </u>	
Sr. Molly Marava Principal Highlands College of Nursing Mr. Saidi Lani Deputy Principal Highlands College of Nursing Sr. Lesley Ririka Senior Lecturer Highlands College of Nursing Mr. Gabriel Wau District Health Officer, HEO Highlands College of Nursing Sr. Kaviri Tsivane OIC Nupuru Health Centre Highlands College of Nursing		<u> </u>	
Mr. Saidi Lani Deputy Principal Highlands College of Nursing Sr. Lesley Ririka Senior Lecturer Highlands College of Nursing Mr. Gabriel Wau District Health Officer, HEO Highlands College of Nursing Sr. Kaviri Tsivane OIC Nupuru Health Centre Highlands College of Nursing		<u>CHW</u>	
Sr. Lesley Ririka Senior Lecturer Highlands College of Nursing Mr. Gabriel Wau District Health Officer, HEO Highlands College of Nursing Sr. Kaviri Tsivane OIC Nupuru Health Centre Highlands College of Nursing	Sr. Molly Marava	<u>Principal</u>	
Mr. Gabriel Wau District Health Officer, HEO Highlands College of Nursing Sr. Kaviri Tsivane OIC Nupuru Health Centre Highlands College of Nursing	Mr. Saidi Lani	Deputy Principal	Highlands College of Nursing
Sr. Kaviri Tsivane OIC Nupuru Health Centre Highlands College of Nursing	Sr. Lesley Ririka	Senior Lecturer	Highlands College of Nursing
	Mr. Gabriel Wau	District Health Officer, HEO	Highlands College of Nursing
Sr. Julie Morinakave District Nursing Officer, Goroka Highlands College of Nursing	Sr. Kaviri Tsivane	OIC Nupuru Health Centre	Highlands College of Nursing
	Sr. Julie Morinakave	District Nursing Officer, Goroka	Highlands College of Nursing

REFERENCES

- 1. Papua New Guinea Nursing Council. Midwifery Specialist Competency Standards. Port Moresby: NDoH, 2003.
- 2. Papua New Guinea Nursing Council. Competency Standards. Port Moresby: NDoH, 2002.
- 3. Papua New Guinea Nursing Council. Midwifery Assessment Guide for Midwifery Programs.
- 4. Office of Higher Education. Office of Higher Education Papua New Guinea National Qualifications Framework 2010. Port Moresby, 2010.
- 5. Papua New Guinea Nursing Council. Number 1 PNC NC Information leaflet. Port Moresby: Papua New Guinea Nursing Council; 2014.
- National Health Department. National Health Standards 2011-2020. Port Moresby, 2010.
- World Bank. PNG Health Workforce Crisis: A Call to Action. New Hampshire, USA: World Bank, 2011.
- 8. Papua New Guinea Nursing Council. PNG Nursing Council Annual Report 2014-2015. Papua New Guinea Papua New Guinea Nursing Council National Department of Health 2015. (2017 report ref to be added)
- 9. World Health Organization. World Health Statistics Report 2015. Geneva: WHO, 2015.
- 10. Population Division of the Department of Economic and Social Affairs of the United Nations Secretariat. World Population Prospects: The 2012 Revision. Geneva: United Nations, 2013.
- 11. Andersen B. Cultural Competency and Rural Disorder in PNG Health Promotion. Anthropological Forum; 2018: Taylor & Francis; 2018. p. 359-76.
- 12. Lock L, Ninkama J, Handen B. Department of Foreign Affairs Community Health Workers School Diagnostic Audit: Final Report. Sydney, Australia: World Health Organization Western Pacific Region and the University of Technology Sydney, 2013.
- 13. Government of Papua New Guinea. National Health Plan 2011-2020. Port Moresby, 2010.
- 14. National Department of Health (NDoH). Ministerial Taskforce on Maternal Health in Papua New Guinea, p36. . Port Moresby: National Department of Health, Government of Papua New Guinea (GoPNG), 2009.
- 15. WHO CC UTS. Australian aid DFAT: Maternal and Child Health Initiative M&E Report 2015. Sydney: WHO CC UTS.
- 16. Rumsey M, Neill A. PNG Maternal and Child Health Initiative Phase II: Mid-term Summary Report. Sydney, Australia: World Health Organization Western Pacific Region, AusAID & PNG National Department of Health, 2015.
- 17. Dawson A, Samor MK, Geita L, et al. Midwifery capacity building in PNG: Key achievements and ways forward. 2015.
- 18. Moores A, Catling C, West F, et al. What motivates midwifery students to study midwifery in Papua New Guinea? *Pacific Journal of Reproductive Health* 2016; **1**(2): 60-7.
- 19. Moores A, Puawe P, Buasi N, et al. Education, employment and practice: Midwifery graduates in Papua New Guinea. *Midwifery* 2016; **41**: 22-9.
- 20. Homer CS, Friberg IK, Dias MAB, et al. The projected effect of scaling up midwifery. *The Lancet* 2014; **384**(9948): 1146.
- 21. ten Hoope-Bender P, de Bernis L, Campbell J, et al. Improvement of maternal and newborn health through midwifery. *The Lancet* 2014; **384**(9949): 1226-35.
- 22. Organization WH. Newborns: reducing mortality. WHO; 2019.
- 23. Rumsey M, Roroi M, Polaiap A. Department of Foreign Affairs Papua New Guinea Capacity Nursing School Diagnostic Audit: Final Report. Sydney, Australia: World Health Organization Western Pacific Region and the University of Technology Sydney, 2013.
- 24. World Health Organization. World Health Organization and Australia forge new strategic partnership. In: Joint media release of the Australian Government Department of Health and WHO, editor. BRISBANE, Australia, 9 October 2017: World Health Organization, Manila, Philipines.; 2017.
- 25. Rumsey M, Joesph N. Papua New Guinea Nursing Council 2016 Report In: Health NDo, editor. PNG National Departement of Health; 2017.
- 26. Rumsey M, Theissen J, Neill A. World Health Organization, Review of Pacific Open Learning Health Net (POLHN),. World Health Organization Collaborating Centre for Nursing, Midwifery and Health Development,: University of Technology Sydney,, 2017
- 27. Rumsey M. Global Health and Nursing. 6th Edition ed. Australia: Elsevier.; 2020.
- 28. White J. A GCNMO consensus statement. Roles and responsibilities of the government chief nursing and midwifery officer. Sydney, : University of Technology Sydney,, 2010.
- 29. World Health Organization. Roles and Responsibilities of Chief Nursing and Midwifery Officers: A Capacity Building Manual,. Geneva, Switzerland.: WHO,,; 2015.

- 30. Rumsey M, Roroi M, Polaiap A. Papua New Guinea Capacity Nursing School Diagnostic Audit. Sydney: WHO CC UTS; 2012.
- 31. Lock L, Ninkama J, Handen B. Community Health Workers School Diagnostic Audit. Sydney: WHO CC UTS,,; 2012.
- 32. Papua New Guinea Nursing Council. National Framework for the accreditation, monitoring and evaluation of Nursing and Midwifery education programs. Port Moresby: Papua New Guinea Nursing Council, 2005.
- 33. Papua New Guinea National Department of Health. Midwifery Curriculum Guide. Port Moresby: NDoH, 2008.
- 34. National Department of Health. PNG Health sector responds to urgent workforce shortages. In: Press release, editor. Secretary of Health Office; 2015.
- 35. World Health Organization. (2020). State of the World's Nursing Report 2020. Retrieved from Geneva: https://www.who.int/publications/i/item/9789240003279
- 36. Rumsey, M., Joseph, N., Kililo, M., & Tefuarani, N. (2019). The need for improved educational development of nurses and midwives to strengthen quality of care in PNG. Paper presented at the WHO Global Symposium on Health Workforce Accreditation, Istanbul, Turkey.

References for grounds up approach following partnership principles

Full details will be provide in methodology of monitoring and evaluation plan

References:

- 1. Brown, D., & Rumsey, M. (2021). Scoping Study: Improving the quality of nursing and midwifery education and regulation in Pacific Islands Countries. For WHO South Pacific Office
- 2. World Health Organization Regional Office for the Western Pacific. (2019). For the future delivering better health in the Western Pacific Region. A White Paper on WHO work in the Western Pacific Region. W. H. Organization. https://www.who.int/docs/default-source/inaugural-who-partners-forum/white-paper.pdf?sfvrsn=86afc1fb 0
- 3. Rumsey, M., Simpson, C., Stowers, P., Neill, A., Daly, J., & Brooks, F. (2021). Marrying participatory action research with methodologies for collectivist health research. *Qualitative Health Research* (manuscript submitted)