



HOW WELL DOES THE CHILD HEALTH NURSING PROGRAM PREPARE NURSES FOR CLINICAL LIFE AT PMGH

PNG PEDIATRIC SOCIETY MID YEAR MEET

SR MERELYNE PINDAU

6th-10th JUNE 2022

BACKGROUND



- Port Moresby General Hospital in collaboration with the University of Papua New Guinea, School of Medicine and Health Sciences have produced over 30 Child Health Nurse Specialists in the past three decades. Few had retrenched while some had transferred out or resigned and currently there is a Specialty strength of about 35 specialist nurses.
- The Pediatric Unit has a total staff ceiling of 150 nurses including CHW. However, PMGH allowed us to fill up only 132 positions of which only 35 are Child Health Nurse Specialist positions.
- Child Health Nursing training is an ongoing program at the School of Medicine and Health Sciences-UPNG and is the only Institution that offers this program in PNG.

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- ▶ While in the Pacific, apart from Australia, the curriculum used is similar. The Bachelor's in Clinical Nursing Child Health Program currently used in the Solomon Islands National University has 8 units like the 8 domains used at UPNG.(sinu.edu.sb)
- ▶ Around the world, nursing has advanced. Child Health Nursing has 25 specialties in itself.(Healthline.com) And Port Moresby General Hospital has incorporated several of these specialties into our Pediatric Department and there include the 24hours Children's Emergency, Pediatric Intensive Care Unit, Pediatric Oncology, Neonatal Intensive Care Unit, Pediatric HIV&ART Services, Pediatric Surgery, Pediatric Nutrition & Rehabilitation Services, Pediatric TB including MDR TB and Pediatric Cardiac Nursing. There maybe more.

Current Issue:

- No trained specialist nurses for the newly introduced specialist services by PMGH.
- No Clinical Educator for the supervision of these specialist nurses.
- Child Health Program was offered at UPNG for quiet a while without regular reviews.

- Thus, a survey was done.



Aim

- This study was done to improve the current Child Health Program offered at the University of Papua New Guinea, School of Medicine and Health Sciences.


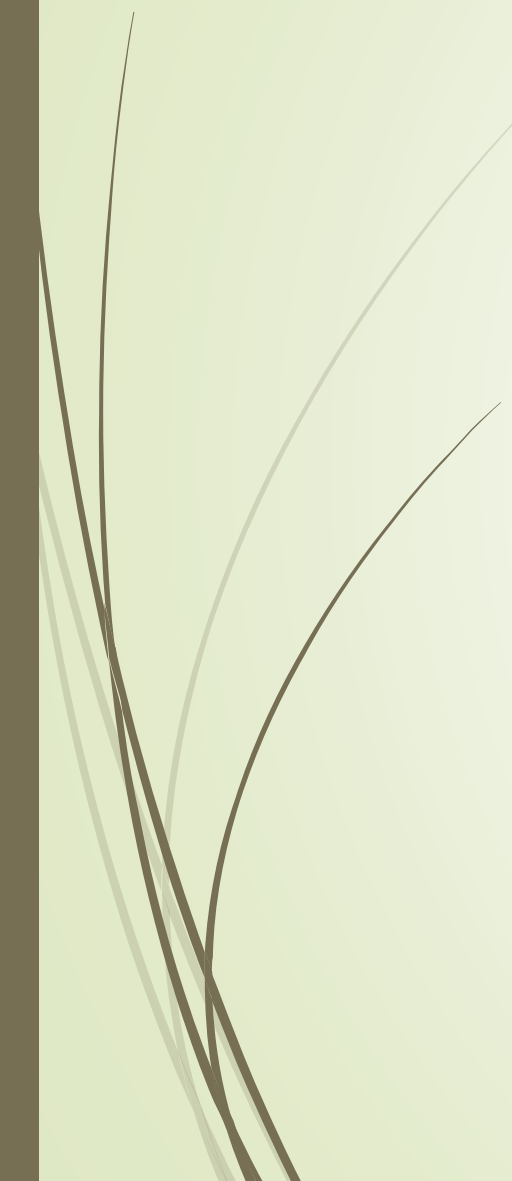
Objectives

- Identify the advanced child health procedures and skills acquired at the University of Papua New Guinea, School of Medicine and Health Sciences.
- Enhance and strengthen existing courses that are being offered.
- Identify a pathway to introduce the advanced child health courses into the program
- Identify the challenges that prevent Child Health Nursing Students to gain the advanced skills in Child Health Nursing.

Standards

The standard curriculum currently being used by the Child Health Program at the University of Papua New Guinea School of Medicine and Health Sciences is the use of the Domain system. The course is offered in domains. There are 8 domains.

- **1**-Professional & Ethical Clinical Practice
- **2**-Critical Analysis in Clinical Nursing
- **3**-Communication in Clinical Nursing
- **4**-Management & Leadership Skills
- **5**-Management of Care for Infant, Child & Family
- **6**-Public Health Community services for Child Health
- **7**-Educational Principles Practice in Clinical Nursing
- **8**-Professional Practicum Child Health Nursing

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- The training institution should ensure the acquisition of skills that enable them to practice nursing specializing in each of the Child Health specialization. More so, to enable the development of research in pediatrics and child health, contributing to the creation of scientific evidence in Nursing.
 - Considering that the students already have the basic skills set to the first level of nursing education, the key elements in design, management and clinical supervision of particularly complex cases lies in the enhancement and expertise of Child Health teaching by the educators.



Specialize Pediatric Course Content may relate to:


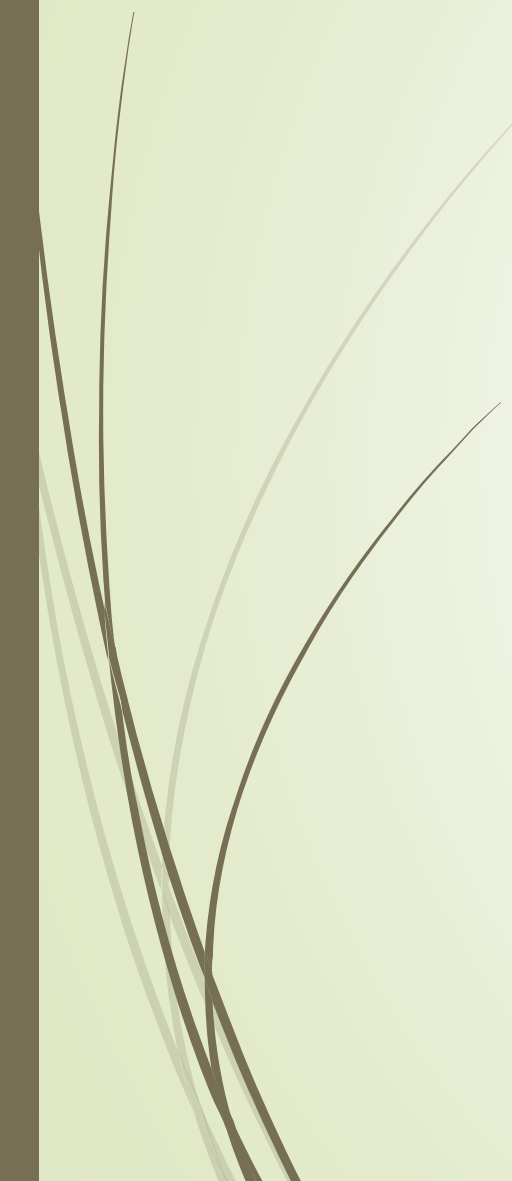
**DIAGNOSTIC PROCEDURES-
lumbapuncture**

**THERAPEUTIC TREATMENT-
Chemotherapy**

**DIAGNOSTIC TESTING- Rapid Strip
Testing**

**NURSING THEORIES-Nursing Process
Theory By Ida Jean Orlando**

Cont..

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- Nursing students learn about various medical equipment e.g. cardiac monitors, infusion pumps, ventilators, ECG machines etc.
 - Their ability to perform their duties depends greatly on their ability to know the proper use of these tools.
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Methodology

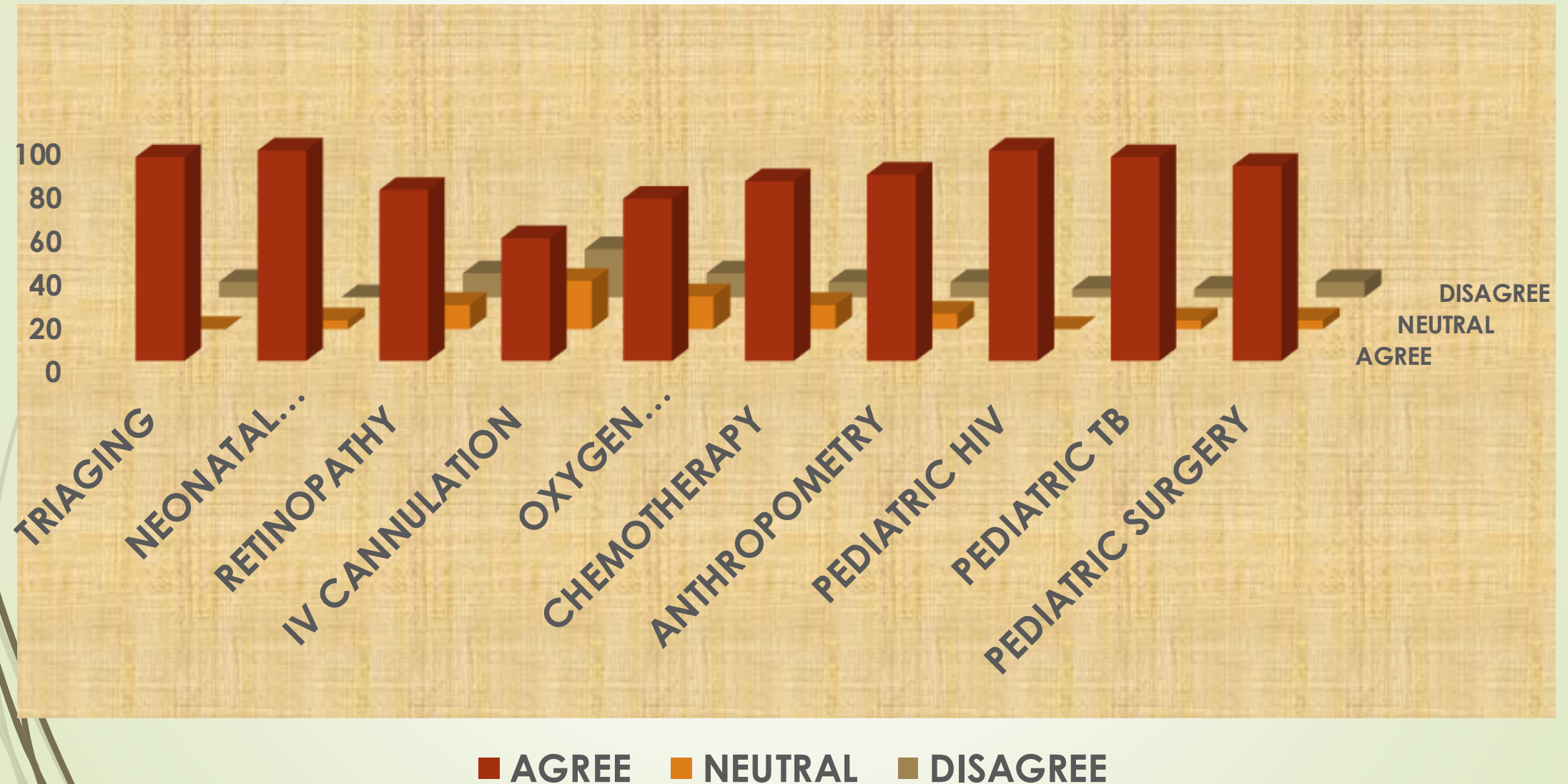
- ▶ **TIME FRAME**-16th-27th May 2022
- ▶ **STUDY SITE**- PMGH Pediatric Unit
- ▶ **STUDY SAMPLE**- 35 Child Health Specialist Nurses including the coordinator and the Nurse Unit Managers. 7 were omitted because 3 were on Releave, 2 were trained in other institutions and 2 didn't return the questionnaires.
 - Sampling Process**- Convenient Sampling- All Child Health Nurse Specialists in the Unit included
- ▶ **TOOLS**- auditor made questionnaires.
- ▶ **DATA COLLECTION**-the questionnaires were used to collect the information.
- ▶ **DATA ANALYSIS**- Data was analyzed using pen and paper. Microsoft Word & Excel were used to convert raw data into graphs and percentages.

Results/Discussion

NO	STATEMENT	AGREE	NEUTRAL	DISAGREE
1	Triaging be integrated into the program	93%	0%	7%
2	Mastering the skills in neonatal resuscitation be integrated in the curriculum	96%	4%	0%
3	Retinopathy of Prematurity need to be integrated into the neonatal nursing subspecialty.	78%	11%	11%
4	IV cannulation and oxygen therapy are pretty old procedures and need not be taught.	56%	22%	22%
5	Oxygen Concentrators & usage of high flow oxygen using Oxygen blender need to be integrated into the curriculum.	74%	15%	11%
6	Importance of Chemotherapy and its protocols of administration should be integrated into the program	82%	11%	7%
7	Anthropometry should be integrated into the curriculum	85%	7%	7%
8	Paediatric HIV/AIDS should be integrated into the curriculum	96%	0%	4%
9	Paediatric TB& Its Management should be integrated into the curriculum	93%	4%	4%
10	Paediatric surgery(Care of post Op Pts) be integrated into the Curriculum	89%	4%	7%

Results/Discussion

PEDIATRIC SPECIALISE PROCEDURES



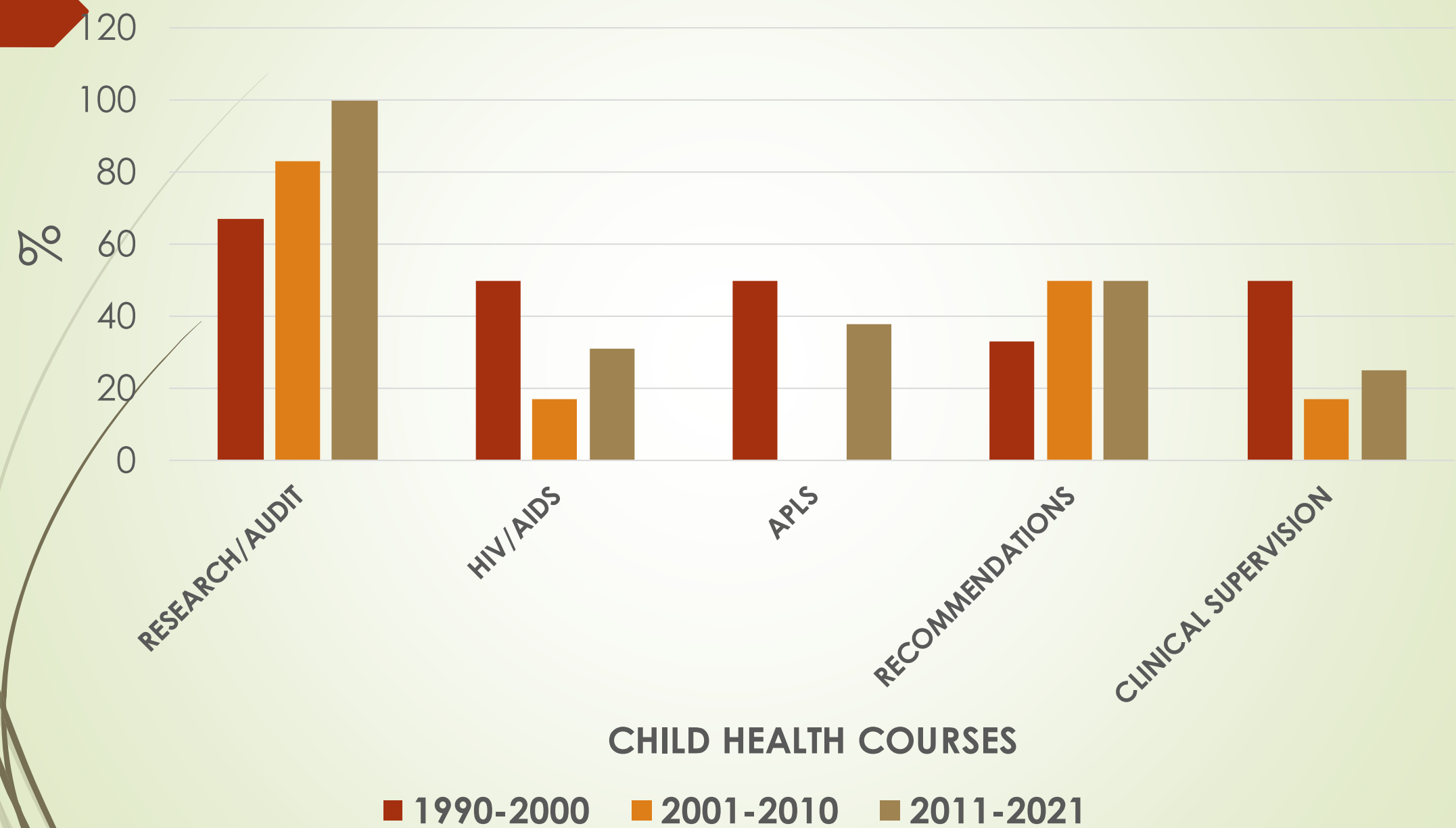
DISCUSSIONS

- Ten advanced Child Health procedures to be integrated into the Child Health program inline with the current hospital patient care practice.
- > 95% of the nurses have agreed that the proposed procedures must be integrated into the Child Health Program at the School of Medicine and Health Sciences.
- 41% of the current nurse specialists were trained in the late 90s up until 2010 when more specific procedures were taught at the then College of Health Sciences.


Discussion...

100 % of those nurses who were trained during this period have claimed that Lumbar Puncture among other procedures was taught. Introduction to HIV/AIDS , steps in doing Kangaroo Mother Care, Insertion of Oral Gastric tube and care of medical equipment. these were some of the new procedures being taught during those days.

CHILD HEALTH COURSES BY EACH DECADE



Discussion cont....

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- The bar graph above best describes few procedures that were taught and presence of a Clinical Supervisor over the last 3 decades.
 - 50% of the nurses interviewed had agreed recommendation for curriculum review was done every end of study year but to date no review has been done yet.
 - Lack of clinical supervision of students. Results have shown that in the last decade there has never been a fulltime Clinical Supervisor on the ground.

Discussions..

- Audits, research and research proposals were part of the program. Child Health Nursing students were introduced to this but no in-depth teaching and practice and to date no clinical audit and research being done in the entire unit.
- Advanced Pediatric Life Support and HIV Counselling were part of the curriculum, but results' shown that 30% of the nurses weren't confident in doing resuscitations and more than 80% of them cannot do HIV counselling and testing respectively.

Recommendation

- ▶ The Current Curriculum at the School of Medicine and Health Sciences be reviewed.
- ▶ All specialized child health courses be integrated into the curriculum.
- ▶ -PICU
- ▶ -EMERGENCY NURSING
- ▶ -NEONATAL NURSING
- ▶ -PUBLIC HEALTH(TB/HIV/MALNUTRITION)PDS TB RX PROTOCOLS
- ▶ -AUDIT/RESEARCH
- ▶ -PEDIATRIC ONCOLOGY
- ▶ PEADIATRIC CARDIAC NURSING

Recommendation cont..

- We would strongly recommend for a fulltime Nurse Clinical Educator position be created at the SMHS to work in partnership with PMGH to closely monitor and supervise the students to enhance their learning.

ACTION PLAN

PROBLEM IDENTIFIED	ACTION TO BE TAKEN	ACTION OFFICER	TIME FRAME	TARGET GROUP	COMMENTS
CURRICULUM NOT REVIEWED	REVIEW THE CURRENT CURRICULUM	CURRICULUM REVIEW COMMITTEE-UPNG	1 YEAR	BCN CHILD HEALTH STRAND-UPNG	UPDATE IN THE NEXT MEETING
NO ADVANCED SPECIALIST NURSES	INTEGRATE THE ADVANCED COURSES INTO THE BCN PROGRAM	CURRICULUM REVIEW COMMITTEE-UPNG	1 YEAR	BCN-CH UPNG	NEXT MEETING
LACK OF FULLTIME CLINICAL SUPERVISOR/ EDUCATOR	CREATE POSITION AT UPNG CHILD HEALTH PROGRAM	CHILD HEALTH PROGRAM OFFICERS-UPNG	1 YEAR	UPNG NURSING ADMINISTRATION	UPDATE IN THE NEXT MEETING



THE END.



THANKYOU





Acknowledgments

The PNG Pediatric Society mid year meet Organising committee

Participants

Sr Esther Pisoro-Ass NUM Ward 3C

Pediatric Nursing unit coordinator



