

थें नसूर सूत्राल्।

Khesar Gyalpo University of Medical Sciences of Bhutan

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Message from the President

The year 2020 proved to be the most challenging year in the recent history of mankind due to COVID-19 pandemic. Nonetheless, under the dynamic and compassionate leadership of His Majesty The King Jigme Khesar Namgyel Wangchuck and the government led by Honourable Prime Minister, Dasho Dr. Lotay Tshering, Bhutan has successfully managed the COVID -19 pandemic.



Her Excellency the Health Minister, Dasho Dechen Wangmo, also took upon a huge responsibility leading the fight against COVID-19. As the Chair of University Governing Council, Her Excellency guided the University in development and implementation of University's major activities.

For the University, it was another successful year despite the challenges posed by the pandemic. The university has actively supported the Government in COVID-19 pandemic response in terms of providing technical guidance, human resources, training the frontline workers and research.

On the academic front, Faculty of Postgraduate Medicine (FoPGM) was accredited by the Bhutan Accreditation Council. With accreditation of all the constituent faculties the university is now set to provide high quality medical and health education thereby uplifting the standards and credibility of the university.

Normal classes were hampered by the nationwide lockdown with both the teaching faculty members and students involved in the combat against COVID-19. However, the university could conduct its academic activities without much impact on the performance of the students and they could graduate on time.

The university was able to secure a Technical Corporation Project "Strengthening Medical Education in Bhutan" from JICA worth approximately USD 5 Million for a period of 5 Years from August 2020 till July 2025.

To conclude, I would like to extend my gratitude to the Chairperson and members of the Governing Council, Academic Board, all the international partners (WHO, Bhutan Foundation, Oita University, UNICEF, UNFPA, UNDP, LMU), faculties, staff and students in making 2020 - 2021 a successful year. I look forward to your unwavering support as we aspire to higher levels of excellence in the years ahead.

Dr. Kinzang P. Tshering

President

LEARNER CENTERED

1. Learner Centered

1.1. Resident's Elective Program

The Postgraduate curriculum and Bhutan Medical and Health Council regulation mandatorily require the Postgraduate resident to undergo elective programs to get exposure and to enhance their knowledge and skills in the field of specialty both within and outside the country.

For the in-country elective nine final year and eight third year residents were sent to Regional Referral Hospitals to gain experience in resource limited settings. However, due to pandemic, second, third- and fourth-year residents could not be sent for ex-country elective.

1.2. International Day of Midwife and International Nurse Day

Faculty of Nursing and Public Health (FNPH) joined the world to observe the International Day of Midwife on May 5, 2021 with the theme **"Follow the Data: Invest in Midwives"**, to advocate for investment in quality midwifery care around the world, improving sexual, reproductive, maternal, new born, child and adolescent health in the process.

International Nurse Day was observed on May 12, 2021 with the theme "**Nurses: A Voice to Lead – a Vision for Future Healthcare**". The year 2021 was also observed as 'International Year of the Health and Care Workers', as designated by WHO during the 73rd World Health Assembly held in November 2020. It is to celebrate all the nurses and the healthcare professionals in the world for their incredible contribution during this emergency response and pay respect to those who lost their lives.



1.3. Sixth University Foundation Day

The University celebrated the 6th University Foundation Day with Her Excellency Health Minister Dasho Dechen Wangmo as the Chief Guest. The day was attended by the President (KGUMSB), Interim President (JDWNRH), Superintendent (JDWNRH), Directors, Deans and Dy. Deans of constituent faculty in a small in-house celebration.





HUMAN RESOURCE DEVELOPMENT

2. Human Resource Development

2.1. Dedicated Service Award 2020

The dedicated service award ceremony to the employees of the university who have served for 10 years, 20 years and 30 years was held on December 16, 2020. The ceremony was graced by the Honourable President of the University.



Reci	Recipient of 30 years' service award				
1	Dr. Chencho Dorjee	Dean	FNPH		
2	Ms. Manikala Moktan	Asst. Professor	FNPH		
3	Ms. Sapna Humagai	Sr. Lecturer	FNPH		
4	Mr.Tshewang Nidup	Sr. Lecturer	FNPH		
5	Ms. Renuka Mothey	Sr. Lecturer	FNPH		
Reci	pient of 20 years' service award		-		
1	Dr. Sithar Dorjee	Director	OOP		
2	Drg. Sangay Wangdi	Dean	FoTM		
3	Drg. Tempa Gyeltshen	Dy. Dean	FoTM		
4	Drg. Dawa Tashi	Assoc. Professor	FoTM		
5	Ms. Passang Lhamo Sherpa	Sr. Lecturer	FNPH		
6	Mr. Gem Tshering	Lecturer	FNPH		
7	Ms. Tara Devi Laabar	Lecturer	FNPH		
8	Ms. Ugyen Wangmo	Library Asst.	FNPH		
9	Mr. Tenzin Dorji	Laboratory Technician	FNPH		
10	Ms. Nar Maya Mongar	Messenger	FNPH		
11	Mr. Nima Dorji	Plumber	OOP		
Recipient of 10 years' service award					
1	Dr. Karma Tenzin	Dy Dean	FoPGM		

2	Ms. Pema Zangmo	Dy. Chief ICT Officer	OOP
3	Ms. Sonam Choden	Dy. Chief ICT Officer	FNPH
4	Mr. Phuntsho Norbu	Dy. Chief Librarian	FNPH
5	Ms. Pema Wangmo	Sr. ADM. Officer	FNPH
6	Ms. Gyem Lham	Personal Assistant	OOP
7	Ms. Leki Chezom	Sr. Electrician	FNPH
8	Mr. Badal Tamang	ADM Assistant	FoTM
9	Ms. Ugyen Zam	Library Asst	FoTM
10	Ms. Tshering Lham	ICT Associate	FoTM
11	Ms. Tenzin Wangmo	Electrician	FoTM
12	Mr. Tenpa Jamtsho	Plumber	FoTM
13	Ms. Minjur Peldon	Cleaner	FNPH
14	Ms. Pema Tshomo	Cleaner	FNPH
15	Mr. Pema Drakpa	Cook	FNPH

2.2. Continuing Professional Development

A total of 114 faculty members from the University and JDWNRH attended a five-hour online session on Teaching GEN Z from October 5 to 9, 2020. The session included areas on the future of teaching, lesson planning, presentation tools for synchronous and asynchronous learning, facilitation tools and work-life balance. Another 40 participants attended 2 sessions on Teaching Gen Z Advanced online training from November 20 to 21, 2020. This will help the faculty members in the University to conduct online teaching in the wake of the disruptions of face-to-face teaching learning.

A five-day online Lead Auditor Training for ISO 21001:2018 Educational Organization Management System (EOMS) was attended by eight staff of the University in January 2021. The training will help the University to develop necessary expertise to perform EOMS audits.

2.3. Workplace Based Assessment Lecture Series

FoPGM conducted a Workplace-Based Assessment (WPBA) Lecture Series for the faculty members, residents and other students of FoPGM, FNPH and FoTM to improve the quality of medical education through continuous monitoring and evaluation.

The lecture was conducted with the support of faculty members who are well trained in the field of WPBA.

The Lecture Series includes;

Session 1: Direct Observation of Procedure Skills. Session 2: Case-Based Discussion Session 3: Mini-Clinical Examination. Session 4: Multi-Source Feedback

2.4. Training on Quality Improvement

FoPGM in collaboration with FNPH and Quality Assurance Division, JDWNRH conducted Training of Trainers on Total Quality Management in Healthcare Course which includes Quality Improvement (QI) competencies as a part of faculty development activities. This training was supported by the Quality Assurance and Standardization Division and Reproductive, Maternal and New-born Health Program, Ministry of Health funded by WHO. A total of 70 doctors, nurses and allied health professionals including the core and adjunct faculties in JDWNRH were trained in basic QI methodology. Currently more than 20 QI projects in 18 departments are underway using skills and knowledge gained during this course. The participants of this ToT conducted first ever Quality Improvement Training for the fourth-year residents as a mandatory activity as per the PG curriculum and provided QI coaching to residents-led QI projects subsequently. In total, more than 30 QI projects led by residents and faculties are expected to contribute to improve the quality of care and patient safety in teaching hospitals.

The Quality Improvement project in the PG residency curriculum is incorporated with the revision of PG curriculum in 2018. It is expected to build competencies of residents in improving the quality of care and patient safety enhancing the patient outcomes.

2.5. Training on Advance Office Management and Effective Administrative Skills

Two batches of the University support staff were trained on "Advance Office Management and Effective Administrative Skills". The training was conducted from April 4 to 10, 2021 and April, 12 to 16, 2021 by the Bhutan Institute of Information Technology and Management, Paro.

2.6. Stroke Care Improvement Initiative

FoPGM in collaboration with the Ministry of Health initiated a project on Stroke care improvement with support from WHO. The project is being guided by the experts from the Department of Neurology, Christian Medical College, Ludhiana, India and WHO regional office, New Delhi. The stroke focal teams from 3 teaching hospitals were involved in the project.

The following initiatives were undertaken in this project:

- a. Training of health workers on stroke care
- b. Development of stroke case record form
- c. Development of public educational materials
- d. Virtual awareness to the district hospitals

e. Stroke registry

Till now almost all the heath staff from the relevant departments were trained on stroke care which includes patient management starting from patient information recording, NIHSS and mRS scoring and rehabilitation. The relevant department included mainly six departments namely; Medical, Surgical, Emergency, ICU, Radio-imaging, and Physiotherapy.

2.7. PEN HEARTs Module Development

FoPGM in collaboration with MoH and FNPH with financial support from WHO developed an online PEN HEARTs module with the objective to enhance the capacity of health care workers in providing essential non-communicable disease (NCD) services with care and compassion in their communities. The module was developed by the faculty members of FoPGM and FNPH and it was reviewed by both the national and international reviewers.

The online module was launched on March 17, 2021. The launch of the online module is a milestone as it will supplement the Health Ministry's overall effort to expand the NCD Service with Care and Compassion (SCC) to all the Dzongkhags in the country. Currently four Dzongkhags including Punakha, Wangdue Phodrang, Tsirang and Zhemgang have successfully implemented the interventions.

The online module was implemented in the first cohort of 5 districts with around 47 participants comprising Doctors, Nurses, Health Assistants, Technicians and other paramedics including the Nutritionist.



ACADEMIC PROGRAM DEVELOPEMNT

3. Academic Program Development

3.1. Student Statistics 2020

a. Faculty of Postgraduate Medicine

Sl. No.	Academic Programs	Number of Students
1.	MD in Anaesthesiology	5
2.	MD in General Practice	4
3.	MD in General Surgery	7
4.	MD in Internal Medicine	8
5.	MD in Orthopaedics	6
6.	MD in Paediatrics	8
7.	MD in OBGYN	7
8.	MD in Ophthalmology	4
9.	MD Psychiatry	2
10.	MD Emergency Medicine	6
11.	MD Otorhinolaryngology-Head and Neck	2
	Total	59

b. Faculty of Nursing and Public Health

Sl. No.	Academic Programs	Number of Students
1.	BSc Clinical Counseling	18
2.	Diploma General Nursing & Midwifery	147
3.	Diploma in Community Health (HA)	50
4.	Diploma in Dental Hygiene	14
5.	Diploma in Dental Lab Technology	11
6.	Diploma in Medical Lab Technology	26
7.	Diploma in Radiology (X-Ray)	18
8.	Diploma in Pharmacy	22
9.	Diploma Physiotherapy	11
10.	Diploma in Emergency Medical Responder	40
11.	Diploma in ENT Care	2
12.	Diploma in Anesthesia Technology	4

13.	Diploma in Orthopedic and Trauma	3
14.	Diploma in Ophthalmic Technology	4
15.	Diploma in Foundation Course	139
Total		509

c. Faculty of Traditional Medicine

Sl. No.	Academic Programs	Number of Students
1.	MD in Traditional Medicine	4
2.	B.Sc Traditional Medicine	26
3.	Diploma Traditional Medicine	28
	Total	58

3.2. Graduation June 2021

a. Faculty of Postgraduate Medicine

Sl. No.	Programs	Total
1.	Anesthesiology	2
2.	General Practice	1
3.	General Surgery	2
4.	Internal Medicine	2
5.	Obstetrics & Gynecology	2
б.	Orthopedics	1
7.	Pediatric	1
	Total	11

b. Faculty of Traditional Medicine

Sl. No.	Program	Total
1.	BSc Traditional Medicine	7
2.	Diploma in Traditional Medicine	10
	Total	17

c. Faculty of Nursing and Public Health

Sl. No.	Program	Total
1.	BSc in clinical counseling	6
2.	Diploma in Community Health	30
3.	Diploma in Dental Hygiene	8
4.	Diploma in Dental Laboratory Technology	5
5.	Diploma in Emergency Medical Responder	19
6.	Diploma in General Nursing & Midwifery	50
7.	Diploma in Medical Laboratory Technology	12
8.	Diploma in Pharmacy	12
9.	Diploma in Physiotherapy	6
10.	Diploma in Radiography & Medical Imaging	8
	Total	156

d. Affiliated Nursing Institute of KGUMSB

Name of Nursing Institute	Program	Total
Arura Academy of health sciences	Diploma in General Nursing & Midwifery	
(AAHS)		17
	Total	1 7

3.3. Intake students July 2020

a. Intake of Constituent Faculty of KGUMSB

Name of Faculty	Program	Total
	Emergency Medicine	2
	ENT	1
	General Practice	1
	General Surgery	1
Faculty of Postgraduate	Internal Medicine	2
Medicine	Obstetrics & Gynecology	1
	Orthopedics	2
	Pediatric	3
	Ophthalmology	3
		16

Faculty of Traditional	BSc Traditional Medicine	11
Medicine (FoTM)	Diploma in Traditional Medicine	14
		25
Exculty of Nursing & Public	BSc in Clinical Counseling	6
Faculty of Nursing & Public Health (FNPH)	Diploma in General Nursing & Midwifery	50
	Diploma in Foundation Course	129
		185

b. Intake of affiliated Nursing Institute of KGUMSB

Name of Nursing Institute	Program	Total
Arura Academy of health sciences (AAHS)	Diploma in General Nursing &Midwifery	50
Royal Thimphu College	BSc. Nursing & Midwifery student (3 rd batch)	36
Apollo Bhutan Institute of Nursing	General Nursing & Midwifery	36
	Total	122

3.4. New Academic Programmes

The following new programs started from July 2020 in addition to existing other courses at FNPH;

- i. Diploma in Primary ENT Care
- ii. Diploma in Primary Orthopedic and Trauma Care
- iii. Diploma in Ophthalmic Technology
- iv. Diploma in Anesthesia Technology

The revised curriculum for BSc Counselling was implemented from July 2020.

3.5. Internship Program

FoPGM offers a one-year internship programme for medical students which is a compulsory phase for undergraduate medical training leading to award of bachelor's degree.

Internship is undertaken to improve professional knowledge and acquire practical skills under supervision and guidance of a qualified supervisor to enable the graduates to function independently.

Number of interns graduated in December 2020:	5
Number of interns graduated in June 2021:	15
November 2020 Induction Batch:	6
February 2021 Induction Batch:	6
Total	32

3.6. Revision of Internship Guideline

FoPGM has been inducting the MBBS students for a one-year Internship Program based on the traditional format. It is minimal with almost no structured road map towards creation of a confident clinician, a public health professional and a strategic thinker to serve at a secondary health care facility.

FoPGM in collaboration with BMHC with financial support from WHO initiated the revision of internship guidelines towards development of competency-based internship programs. The series of revision was done with the departments including the representatives from the University, BMHC, district representative, faculty members, residents and interns in order to develop competency-based internship programs.



3.7. Short Course Conducted

Sl. No.	Name of the Course	Duration	No. of candidates	Funding Agency	Remarks
1.	Menjong Sorig Spa and Wellness	3 Months	12	Ministry of Labour and Human Resource & DTMS, Ministry of Health	Completed
2.	Basic Sowarigpa Knowledge and its development	2 weeks	20	Tourism Council of Bhutan	Completed
3.	Menjong Sorig Spa and Wellness	3 Months	20	Tourism Council of Bhutan	Completed
4.	Menjong Sorig Spa and Wellness	3 Months	21	Tourism Council of Bhutan	On- Going
5.	Perioperative	6 Months	2	Ministry of Health	Completed
6.	Dialysis	6 Months	9	Ministry of Health	Completed
7.	Adult Intensive Care Unit	6 Months	10	Ministry of Health	Completed
8.	Paediatric Intensive Care Unit	6 Months	7	Ministry of Health	Completed
9.	Neonatal Intensive Care Unit	6 Months	4	Ministry of Health	Completed

FoTM conducted the following short courses in the fiscal year:

3.8. Revision of PG Thesis Guideline

FoPGM has initiated and revised the PG Thesis Guideline since there is a need to revisit the existing guideline in order to address all the necessary gaps through additional information which are relevant to the current trend.

The series of consultations was done with the departments and the additional feedback and comments were incorporated which are collected at the time of Thesis Defense Examination since 2017.

The guideline was finalized through the reference of several such guidelines from different universities. In particular, it is largely adopted from the guidelines used for the preparation of MPhil/PhD Thesis of the:

- Institute of Biochemistry, Molecular Biology & amp; Biotechnology, University of Colombo, Sri Lanka; and
- University of Nebraska at Kearney, the US.

The delivery of the course content has been adopted from Structured Operational Research Training Initiative (SORT) IT Asia.

The guideline was endorsed by Academic Committee Meeting, FoPGM and approved by the 15th Academic Board held on July 8, 2021.

3.9. Validation of Curriculum

Following new curriculums were validated approved for implementation in the fiscal year:

- a. Certificate in Histotechnology Approved for implementation from 12th March 2021.
- Diploma in Dental Laboratory Technology Approved for implementation from 1st July 2021.

3.10. Implementation of Revised Eligibility Criteria for GNM

The university carried out the revision of the eligibility criteria for Diploma in Nursing and Midwifery for implementation from 1st July 2021 upon the directives from the government. The students of Class XII pass certificate with minimum 40% marks including English and Dzongkha from any stream (Science, Arts and Commerce) shall be eligible for Diploma in General Nursing and Midwifery Program. The admission of the students to Diploma in General Nursing and Midwifery Program shall be based on merit ranking of the ability ratings of the subjects as indicated below:

	Ability Rating for Diploma in General Nursing and Midwifery Program					
Stre	am: Bio-Science:	Stre	am: Pure Science			
1.	English – 3	1.	English – 3			
2.	Dzongkha – 2	2.	Dzongkha – 2			
3.	Biology – 5	3.	Chemistry – 4			
4.	Chemistry – 4	4.	Physics – 3			
5.	Physics – 3	5.	Mathematics – 2			
Stre	am: Arts	Stre	am: Commerce			
1.	English – 3	1.	English – 3			
2.	Dzongkha – 2	2.	Dzongkha – 2			
3.	Geography – 4	3.	Commerce/Accountancy – 4			
4.	Two other subjects -2 each	4.	Two other subjects – 2 each			

3.11. Other Academic Achievement

- a. Published the guideline and logbook for Drungtsho.
- b. Published the Thesis guideline (Specialized) for MD Traditional Medicine
- Published the curriculum for diversified course for sMenpa (Jamtsub Rabjam, Jangjed Laynga Rabjam & Menchoe Rabjam courses)

RESEARCH AND INNOVATION

4. Research and Innovation

4.1. Basic Biostatistics Module

The basic biostatistics training module was developed with the primary objective to foster and enhance research and strengthen research capacity for health professionals and the University staff. The module was developed by faculty members and experts from FNPH and MECRIT with funding support from WHO.

4.2. KGUMSB Research Information Enterprise System (KRIES)

KGUMSB Research Information Enterprise System is an online platform. The KRIES is a digitalized review system to receive and review protocol. It is a part of the Institutional Review Board. It is intended to ease the protocol reviewing system which is primarily initiated to create an online way of reviewing PG thesis and research protocols for faculty members and students.

4.3. 6th International Conference on Medical and Health Sciences (ICMH)

MECRIT has been organizing ICMH as an annual event of the University since 2016. The conference is to foster dynamic research culture, encourage health workers to present their findings and understand the diversity of health research through interaction within national and international experts.

The 6th ICMH was held virtually from November 18 to 19, 2020 with the theme 'Essential Health Services in the time of COVID and beyond'.





4.4. Release of Bhutan Health Journal

The Bhutan Health Journal Secretariat released the BHJ May Issue on May 15, 2021 (Volume 7 Issue I) virtually. The Volume 7 Issue II will be formally released on November 18, 2021 coinciding with the 7th ICMH.



4.5. Policy Dialogue

FoPGM organized a Policy Dialogue on "*Health Equity in Bhutan: Understanding Equitable Access and Improved Health Outcome*" on October 23, 2020. The event was conducted through a virtual platform with five experts from various fields of expertise; Health, Social Scientists and top Academicians from across the globe. The event was graced by Her Excellency Lyonpo Dechen Wangmo, Health Minister.

The dialogue was conducted with the following objectives;

- a. To deliberate on equity of access to health services from a global and Bhutanese perspective.
- b. To deliberate on the health system, on how it responds to the socioeconomic and demographic changes and needs to ensure an equitable and effective delivery of service that us needs driven and humanistic.

c. To recommend innovative policy solutions in addressing the current gaps to equitable access to health care delivery.



4.6. Bhutan-Japan Joint Medical Webinar

Bhutan-Japan Joint Medical Webinar organised by the University in collaboration with Telemedicine Development Centre of Asia (TEMDEC) in Kyushu University, Japan supported by DrukREN, DITT was conducted on December 10, 2020 on the theme "*Embracing Technology for Better Healthcare in COVID-19 era*". 15 international and national experts in the field of Cancer Prevention and Control, Perinatal Medicine and Medical Education shared their experience of applying technology in the respective fields and 92 registered participants attended the webinar.



4.7. Oral Health Dialogue

FoPGM in collaboration with Oral Health Dentistry Department, JDWNRH and Oral Health Program, MoH organized an Oral Health Dialogue titled "*Oral Health & Dentistry in Bhutan: Call for actions to address a public Health Urgency*". The program was conducted on March 20, 2021 coinciding with the World Oral Health Day.

The event was conducted virtually with international and national speakers. It was graced by Her Excellency Dasho Dechen Wangmo, Health Minister and other dignitaries from Ministry of Health and KGUMSB.

The dialogue was conducted with the following objectives;

- a. Address Oral Disease Burden in the country a public health urgency.
- b. Human Resource Development of the Oral Health Occupational Group.
- c. Deliberate on the existing policies, challenges and the future scope in Oral Health and Dentistry.



4.8. Research Seminar Workshop

FoTM conducted its 1st ever Research Seminar Workshop on May 13, 2021. The participants included faculty members, MD students and other students. The selected individual presented their research papers to the participants. The activity will be an annual event, which will encourage the faculty members and students to take part in research activity. The faculty is also in the process of upgrading the seminar to the international level.

4.9. Authors and Reviewers Training

The authors and reviewers training were held for the 2nd Editorial Board members of Bhutan Health Journal (BHJ) from October 9 to 12, 2020, with an aim to orient the new members to

the editorial process, functioning of the Journal and the roles and responsibilities of a Medical Journal Editor.

The opening session of the training was graced by the Hon'ble President as the Chairperson and formally released in the May issue of the Journal, Vol 6 Issue 1.



4.10. Training on Open Journal System (OJS)

BHJ conducted a training on Open Journal System – online journal management platform for three days from April 7 to 9, 2021 at the College of Natural Resources, Royal University of Bhutan.



OJS is an open access software for online journal management and publication. The widely used OJS software helps improve online access and credibility of the BHJ in the international arena. The training was conducted to enhance skills and familiarize ICT Officials and Managing Editors from selected journal publishers within the country. The training will help develop and customize their own system as per their need and help disseminate research findings in a more vibrant and efficient manner through the international online access platform.

This training is part of the COVID-19 Health Response grant to support public health research and training on COVID-19 and similar epidemic prevention and response. The training was made possible with the support through the U.S. Agency for International Development in partnership with the Bhutan Foundation.

4.11. Rapid Assessment on Task shifting/Sharing SRMNCAH in Bhutan

The University carried out Health Service Delivery for Reproductive, Maternal, Newborn, Child and Adolescents Health (RMNCAH) rapid assessment on May 5, 2021. This assessment was in accordance with the WHO SEARO support to all the member states in assessing the service delivery platform and service providers in order to identify the implementation gaps and strengthen the service delivery models of RMNCAH. The objective of the assessment was to review, analyze and document existing practices, facilitators, barriers and opportunities of task sharing/shifting in RMNCAH in SEAR member states, and to assess coverage of service delivery platform/task sharing or shifting in RMNCAH Bhutan, 2021.

The assessment was conducted in 3 teams of 2 members each from the MECRIT, relevant programs and HRD (MoH), JDWNRH, Civil societies and UN agencies in the country.

The final reports for this assessment were published in two sets; assessment on service delivery coverage and Task shifting/sharing in RMNCAH.

INFRASTRUCTURE AND RESOURCE MANAGEMENT

5. Infrastructure and Resource Management

5.1. Olympus X-Ray Fluorescence (XRF) device

FNPH has received an Olympus X-Ray Fluorescence (XRF) device from MoH, which was purchased by WHO to study lead contamination. This device is essential for on-site testing of paint, toys, and other consumer products to analyze for lead and other harmful metals. The first study funded by MoH is underway in collaboration with Occupational Health & Chemical Safety Program, MoH testing paint, toys, and other items children encounter at daycare centers, healthcare facilities, and parks in Thimphu.



5.2. Field Training Centre at Tongtongphay, Trongsa

FoTM acquired the ownership of land and structure of Tongtongphay BHU which shall be used as Field Training Center to accommodate the students during the identification of low altitude medicinal plants at Trongsa.

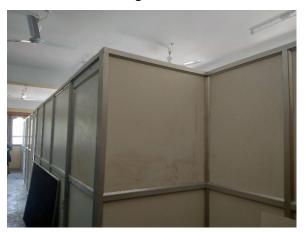


5.3. Enhancement of Library Services, FoTM

FoTM procured religious text for reference at the library. In order to maintain the standard requirement and avoid damage to the text, the faculty procured the Lepshing, Kuching and Dongdar for Kajur, Tenjur and Sungbum. The consecration for the same was presided by Venerable Lam of JDWNRH.

5.4. Hot Stone Bath-house and Massage Room

The Hot Stone Bath-house and Massage Room was developed at FoTM with funding support from DTMS amounting to Nu. 0.40 million.





5.5. Construction of Futsal ground

FoTM with financial support from RGoB constructed the futsal ground as a part of a recreational facility for the staff and students. The futsal ground was inaugurated by His Excellency the Finance Minister accompanied by Hon'ble Secretary, MoH, Hon'ble President, KGUMSB and other dignitaries on August 26, 2021.

5.6. Procurement of office Pool vehicle

FoTM procured Toyota Hilux as office pool vehicle with budget amounting to Nu. 3.20 million. The procurement was done considering the genuine need of a separate pool vehicle to keep the functioning of the office undisrupted.

5.7. Construction of continuous water supply for Academic and Hostel block

FoTM constructed a separate water source with the capacity to reserve 40,000 liters of water to provide continuous water supply to the academic and hostel block. The activity incurred an expenditure of Nu. 0.60 million. The construction was carried out to meet the acute shortage of water.

5.8. JICA TCP Project

The University in collaboration with JICA Office Bhutan initiated a Technical Corporation Project titled Strengthening Medical Education in Bhutan from August 2020. The following are the achievements of the activities carried out in the fiscal year;

a. Develop capacity for simulation-based coaching

Simulation based modules are developed for National Resuscitation Courses (NRC) adopting both simulation-based education and blended learning methods (online learning and face-to-face practical training).

b. Enhance capacity of faculty members and staff through long-term and shortterm training

Three faculty members are identified for the long-term training in PhD as follows:

- i. PhD in Basic Science Dr. Phurpa
- ii. PhD in Nursing and Midwifery Ms. Deki Pem
- iii. PhD in Public Health Ms. Passang Lhamo Sherpa

c. Enhance Capacity of MECRIT to facilitate CPD, CME and Research

TCP supported MECRIT to conduct an operational research (OR) training program to improve evidence-based planning and decisions for the health care system.

d. Develop Capacity of Health Professionals Regarding Selected Issues such as Control for Infectious Diseases

Developed online training modules on COVID-19 preparedness and response guideline and online training module on surveillance and response.

e. Establish Smart Classroom

Equipment for the smart classroom facility has been procured and installed in the three constituent faculties.

f. Establishment of Video Conferencing System

Internet access has been greatly improved in the university after completing the installation of network equipment, making it possible to conduct video conferences

between faculties and departments within the university. The smart class facility can also be effectively used for the purpose.

g. Develop capacity for e-learning

The training on Learning Management System (LMS) and open-source learning platform (Moodle) for ICT staff has been conducted to learn and develop the online contents for Continuous Professional Development (CPD).

h. Establish Telemedical Education System at teaching hospital

The university procured network equipment and installed them at ERRH to improve internet access to establish a video-conference system and telemedical education system between KGUMSB and teaching hospitals.

i. Strengthen/Enhance Basic Science and Research Lab

Equipment for the basic science and research lab has been procured through local suppliers to enhance the existing basic science and research lab at FNPH.

j. Establish Quality Assurance System of Medical Education in KGUMSB

University conducted a series of workshops to develop University quality management system policy.

k. Center for Excellence in Simulation Training

The university established the Center for Excellence in Simulation Training to provide training on simulation-based NRC modules and other short-term training.

5.9. Financial Statement

a. Brief Capital Budget for the Financial Year:

i. Approved Capital Budget for the Financial Year: 2020-2021

Faculty	Current	Capital	Other Funding	Total
OOP	61.749	4.078	2.166	67.993
FoTM	27.180	5.941		33.121
FNPH	80.682	17.590	0.350	98.592
Total	169.611	27.609	2.516	199.706

b. Faculty of Traditional Medicine, Income & Expenditure statement FY 2020-2021

i. Expenditure Details

Sl. No.	Activity line	Amount
1.	Personnel Emoluments	17,684,484.25
2.	Stipends	2,615,000.00
3.	Travel	1,029,096.00
4.	Utilities	798,304.19
5.	Supplies and Materials	600,295.00
6.	Maintenance and properties	2,150,871.56
7.	Operating Expenses	611,226.00
8.	Hospitality and Entertainment	46,622.00
9.	PF Contribution	1,426,133.00
10.	Training	686,358.91
11.	Furniture and Office Equipment's	97,800.00
12.	Professional Services	368,142.00
13.	Exp on Structure (Water Supply)	702,592.00
14.	DTMS Funding	400,000.00
15.	Maintenance of Building (Others)	206,258.00
16.	Purchase of New Vehicle	3,110,964.00
	Total	32,534,146.91

ii. Income Details

Sl. No.	Income Details	Amount
1.	Tuition Fees	3,242,019.00
2.	Rental Charges for Staff Quarter	95,424.00
3.	RGoB Grant (Capitation Fees + Base Grant)	24,856,000.00
4.	Miscellaneous Income	65,000.00
5.	Rental Income	1,580,630.00
6.	Other Incomes	1,120,269.12

Total 30,959,342.12

c. Faculty of Nursing and Public Health Income & Expenditure statement FY 2020-2021

i. Expenditure Details

Sl. No.	Expenditure	For the year end 30-6-2020	For the year end 30-6-2021
1.	Personnel emoluments/pay & allowances	34,704,228.75	38,664,418.00
2.	Stipend	8,490,500.00	13,506,000.00
3.	Travel	2,860,264.00	3,014,581.76
4.	Utilities	1,154,236.00	1,309,622.97
5.	Supplies & materials	3,153,152.00	2,002,998.00
6.	Maintenance & properties	6,418,634.26	2,261,106.46
7.	Operating expenses	1,709,597.00	846,261.40
8.	Hospitality & entertainment	28,058.00	21,750.00
9.	Contributions PF	3,019,270.20	3,253,533.00
10.	Training	38,000.00	6,000.00
11.	Sports items, library books & fixed assets	6,875,635.75	3,433,868.73
12.	Professional services DS & RD	6,749,741.00	6,336,166.00
13.	Gratuity		275,5000.00
	Total	76,485,686.96	74,931,806.32
	Closing Balance	8,355,340.85	10,267,724.43

ii. Income Details

Sl. No.	Income	For the year end 30-6-2020	For the year end 30-6-2021
1.	Direct Income (Per student cost from RGoB, fee from self-funding students and gratuity)	64,945,200.00	67,932,000.00

2.	Opening balance for FY 2019-2020	8,274,814.14	10,903,298.93
3.	Indirect Income (Rental, Research, Miscellaneous income)	11,621,013.67	6,364,231.82
	Total	84,841,027.81	85,199,530.75

GOOD GOVERNANCE

6. Good Governance

6.1. Governing Council

The 12th session of University Governing Council was conducted on July 16, 2021. Her Excellency, the Health Minister chaired the session and deliberated on major developmental activities of the University. The Members of the GC led by the Health Minister discussed the Initiation of MBBS program at University, revision of Academic Regulation and alignment of nursing curriculum to international standard among other important issues.



6.2. Academic Board Meeting

The 14th Academic Board Meeting was conducted on May 17, 2021. Honourable President chaired the session. The members of AB deliberated on length on the major issues such as Revision of Academic Regulation 2021, Revision of Curriculum and fee structure among other important issues.

6.3. Strategic Plan

FoTM developed and finalized the five-year Strategic Plan for 2021-2025. The strategic plan included all the academic and administrative activities to be accomplished during the period of

5 years. This will serve as guideline and reference for the faculty members and staff to accomplish the required activity as per respective responsibility entrusted in the plan.

6.4. Institutional Accreditation

The first ever accreditation process of FoPGM was conducted from May 10 to 14, 2021. The accreditation was conducted by the National Accrediting Body (Bhutan Accreditation Council - BAC) along with the team of assessors identified by the BAC.

The Certificate of Accreditation Grade B (Good) was awarded on June 2, 2021 by the Chairperson of BAC, the Hon'ble Secretary, Ministry of Education. The accreditation process is expected to promote professionalism in the teaching as well as the clinical practice and help in the development of the Institute as a whole.





6.5. Signing of Record of Discussion

The project for "Strengthening Quality of Medical Education" was signed on 17th July 2020 between the Khesar Gyalpo University of Medical Sciences of Bhutan and the Japan International Cooperation Agency. The purpose of record of discussion was to establish a mutual agreement for its implementation by both parties and to agree on the basic plan.





UNIVERSITY'S RESPONSE TO COVID-19

7. University's Response to COVID-19

7.1. Nationwide Covid-19 Vaccination Campaign

The training on COVID vaccination and use of Bhutan Vaccination System and management of AEFI were provided to 140 senior students of FNPH and RTC for 1st dose and 162 students for the 2nd dose along with three faculty members. They were either involved in screening for eligibility criteria or to vaccinate for a period of 10 days in various parts of Thimphu Dzongkhags.

Almost all the PG residents were sent for both the nationwide vaccination campaign across the country to monitor and guide during the vaccination campaign.

7.2. Nationwide Lockdown

During the lockdown, the faculty members and students of the University were deployed for the following services:

A total of 55 students from FNPH were deployed for swab testing and sample collection in Thimphu, Phuentsholing, Paro and Haa. In the Health Help Centre (HHC), 38 students were deployed to render support and some of the students were involved in the line listing of elderly people. For the mental health and psychosocial response team, the counselling faculty members and clinical counselling students were deployed.

The full-time faculty members and first year PG residents of FoPGM were involved with HHC helpline 112 for teleconsultation and where relevant prescriptions were sent to the pharmacy for home delivery of the medicine. All senior residents worked in their respective departments except for one resident each from OBGYN, Internal Medicine, Paediatrics, orthopaedics, General Practice and Surgery were posted in the Department of Emergency Medicine.

In May 2021, 37 students were sent to Phuntsholing for mass testing of the population during Lockdown 3.0. and 6 students were deployed at RCDC to conduct the tests.

During the 72 hours' blackout in Thimphu on June 13, 2021, 29 students were involved in swab sample collection.

7.3. Desuup Plus Training

The faculty members from University (OOP, FNPH and FoPGM) conducted training for Desuups as frontline basic health care workers for COVID-19 in 15 dzongkhags as additional human resources in preparation for the worst-case scenario. The existing 2020 module was revised as per the need for a worst-case scenario based on the experience from other countries.

Additional contents such as oxygen administration and dead body management were added to the module. They were assessed in their knowledge by MCQs and skills by OSCE (Objective Structured Clinical Examination). A total of 325 Desuups were trained as Desuup Plus within two months.

i. Demonstration of skills



ii. Practices and Hands on Training



iii. Assessment of Knowledge



iv. Assessment of skills-OSCE







ANNEXURES

Annexures

Annexure 1: Staff Statistics

Institute	Category	Number
Office of the President (OOP)	Executive & Specialist	4
	Management and	35
	Support Staff	55
	Total	39
Medical Education Centre for	Executive & Specialist	1
Research Innovation and Training	Management and	5
(MECRIT)	Support Staff	5
	Total	6
Faculty of Traditional Medicine	Dean	1
(FoTM)	Academician	11
	Management and	19
	Support Staff	19
	Adjunct Faculty*	4
	Total	31
Faculty of Nursing and Public	Dean	1
Health	Full-Time Faculty	41
(FNPH)	Management and	30
	Support Staff	50
	Adjunct Faculty*	17
	Core Faculty*	64
	Total	72
Faculty of Postgraduate Medicine	Dean	1
(FoPGM)	Full-Time Faculty	10
	Management and	16
	Support Staff	16
	Core Faculty*	55
	Adjunct Faculty –	9
	JDWNRH*	9
	Adjunct Faculty – 2	16
	RRHs*	10
	Total	27
	Editor-in-Chief**	1
Bhutan Health Journal (BHJ)	Dy. Editor-in-Chief***	1
	Managing Editor***	1
	National Editors***	11
	International Editors***	10
	Advisor***	1
	Asst. Editors***	7
	Support Staff	2
	Total	2
	Grand Total	177

* Faculties at JDWNRH, NTMH and Regional Referral Hospitals ** From His Majesty's Kidu Mobile Medical Unit

*** Part time Contributors

Annexure 2: Resident Conference/workshop/Attachment

Activity	Ex-Country	In-Country
Elective Placement/Field Posting	1	18
Conference	-	-

Annexure 3: Faculty Exchange, Conference/workshop

Activity	Ex-Country (Virtually)	In-Country
Conference/workshop	13	-
Faculty Exchange	-	-

Annexure 3: Articles Published in a Peer Reviewed Journals by Faculty Members and Staff

Article	Author	Journal
Construction of Multiple-Choice Questions Before and After an Educational Intervention	Dr. Karma Tenzin	JNMA
Impact of faculty development programme on self-efficacy, competency and attitude towards medical education in Bhutan: mixed- methods study-	Dr. Karma Tenzin	BMC Medical Education
Expression of Neutrophil elastase and myeloperoxidase genes in coronary atherosclerosis	Dr. Sonam Choden R	Gene Reports
Clinicopathological study on CSOM: a comparison between tubotympanic and atticoantral variety	Dr. Phub Tshering	Bangladesh J Otorhinolaryngol ogy
Epidemiological and histopathological characteristics of head and neck cancer in Bhutan from 2011 to 2017: a retrospective descriptive study	Dr. Phub Tshering	Ecancer
Physicians' Life Satisfaction in Bhutan: A Nationwide Survey	Dr. Ugyen Dem	Open Journal of Psychiatry
Theory Practice Gap-Role of Nurse Teacher, Students and Staff Nurses in Bhutan	Ms. Manikala Moktan	SSRG-IJNHS
Perception of death and preference for end- of-life care among Asian Buddhists living in Montreal, Canada	Dr. Nidup Dorji	Taylor & Francis Group, LLC
Psychological Impact and Its Affecting Factors Among Nurses Working in COVID- 19 Designated Hospitals in Bhutan	Mr. Kinley Gyaltshen	The Journal of Faculty of Nursing Burapha University

Identification, Distribution, and Habitat Suitability Models of Ixodid Tick Species in Cattle in Eastern Bhutan.	Namgyal J, Lysyk TJ, Couloigner I, Checkley S, Gurung RB, Tenzin T, et al.	Tropical Medicine and Infectious Disease
Antibiotic prescription in veterinary consultations in Bhutan: A retrospective cross-sectional study (submitted)	illanueva Cabezas JP, Rinzin K, Dorjee S, Namgyel U, Tshewang P, Sharma P, et al	Journal of Antimicrobial Chemotherapy
Epidemiological and histopathological characteristics of head and neck cancers in Bhutan from 2011 to 2017: a retrospective descriptive study	Tshering P, Dorjee S, Dendup T, Dorji T, Wangmo D	Ecancer Medical Science
Is Leishmaniasis donovani elimination feasible in Bhutan? A review of current prevention and control mechanisms in Bhutan	Tobgay T, Dorjee S, Pradhan A, Wangdi T, Drukpa T, Namgye R, et al.	Bhutan Health Journal
Atypical Presentation of Post-Kala-Azar Dermal Leishmaniasis in Bhutan. Case reports	Pradhan A, Tobgay T, Dorjee S, Wangdi T, Zhou G, Karunaweera ND	Case reports in dermatological medicine
Evaluation of post-exposure prophylaxis practices to improve the cost-effectiveness of rabies control in human cases potentially exposed to rabies in southern Bhutan.	Penjor K, Marquetoux N, Dorji C, Penjor K, Dorjee S, Dorjee C, et al.	BMC Infectious Diseases.
A knowledge, attitude, and practices survey on ticks and tick-borne diseases among cattle owners in a selected area of eastern Bhutan.	Jamyang Namgyal IC, Sylvia Checkley, Carl Ribble, Tim J. Lysyk, Tenzin Tenzin, Sangay Rinchen, Ratna B. Gurung, Sithar Dorjee, Susan C. Cork	PLOS ONE

Annexure 4: Articles in BHJ

a. Volume 7 Issue I

Article	Authors	
Editorial		
Pregnancy during a Pandemic	Sonam Chhoden R	
Research Article		
Characteristics of attempted suicide patients	Zimba Letho, Neyzang Wangmo, Kuenzang	
admitted in Jigme Dorji Wangchuck	Kuenzang	

National Referral Hospital from January 2014 to September 2018		
Effectiveness of different ways of presenting neuroanatomy illustration in powerpoint slides on nursing student's short -term learning memory	Gyem Dorji, Kanokwan Wetasin, Kuenzang Chhezom, Nargis Sultana, Minjur Dorji	
Knowledge, Attitude and Practice of nurse- midwives on the use of partograph in health care centres of Bhutan	Karma Choden, Nidup Dorji	
Pre-delivery hypotension after spinal anesthesia during cesarean section and its associated factors at Jigme Dorji Wangchuck National Referral Hospital, Bhutan	Tshering, Yin Min Than, Kuenza P Wangmo	
Prevalence and risk factors of pulmonary tuberculosis among people living with diabetes mellitus at the National Referral Hospital, Thimphu, Bhutan	Dorji, Tshering Dhendup, Nidup Dorji	
Case I	Report	
A rare case of intraosseous lipoma of distal tibia – A case report and review of literature	Kuenzang Wangdi, Sonam Choden	
Cases of scar endometriosis after caesarean section	Namkha Dorji, Sangay Tshering, Sonam Choden	
View Point		
Oral Health & Dentistry in Bhutan: call for actions to address a public health urgency	Karma Tenzin, Tshewang Gyeltshen, Gyan P Bajgai, Sonam Nyedup, Choki Choki, Jyotsna Rimal, OP Kharbanda, Dechen Wangmo, Gampo Dorji	

b. Volume 7 Issue II

Article	Authors	
Editorial		
Health Financing	Pandup Tshering	
Research Article		
Burden and outcome of community- acquired pneumonia in adult patients admitted to National Referral Hospital, Bhutan	Sonam Choki, Chhabi Lal Adhikari, Dhrupthob Sonam, Sonam Chhoden R	

	1	
Characteristics of people who died by	Norbu, Chencho Dorji, Kuenzang Norbu,	
suicide: record review of two and half years	Kencho Peldon	
from the National Referral Hospital, Bhutan		
Clinical profile of pathological jaundice	Kinzang Dechen, Tenzin Lhadon, Mimi	
among neonates admitted in the National	Lhamu Mynak, Phurp	
Referral Hospital, Bhutan		
Indications and types of hysterectomy in the	Namkha Dorji, Kencho Zangmo, Sangay	
National Referral Hospital, Bhutan in 2020	Tshering, Renuka Mongar, Sonam	
Case Report		
Incidental diagnosis of Herlyn-Werner-	Dhrupthob Sonam, Geeta Pradhan, Ugyen	
Wunderlich Syndrome in a nulliparous	Tshomo	
woman: A case report in Bhutan		
Radio-pathological correlation of a	Deki Choden, Kinley Sangay Dorji, Sonam	
retroperitoneal teratoma in a 2-year-old girl-	Choden	
A case report		
View Point		
Managing essential healthcare services	Purushotam Bhandari, Neelima Chhetri,	
during the first nationwide lockdown:		
Experiences from a Regional Referral		
Hospital in Bhutan		



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