

# **ST.BENEDICT NDANDA REFERRAL HOSPITAL**



## **ANNUAL REPORT 2021**



# **ST. BENEDICT NDANDA REFERRAL HOSPITAL**



## **ANNUAL REPORT 2021**

### **OUR VISION**

Quality health services accessible to all

### **OUR MISSION**

To respond to Christ's command in healing the sick

### **CORE VALUES**

To respect, protect and promote life from conception to natural death.

To attend all patients equally regardless of race, tribe, religion, gender and socio-economic status.

To value commitment, dedication, discipline, love and respect to all patients and other stake holders.

To uphold the spiritual and moral principles of the gospel.

**©St. Benedict Ndanda Referral Hospital**

**St. Benedict Ndanda Referral Hospital**

**P.O BOX 3, Ndanda via Mtwara**

**All rights are reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted, in any form or by any means, (except for teaching in classroom) electronic, mechanical, photocopying, recording or otherwise, without the prior permission of the publishers.**

**No one is permitted to publish a key to this book without the written permission of the publishers.**

# THANKS

Grateful thanks

To the Benedictine Abbey at St. Ottilien, Schuyler of USA, Munsterschwarzach of Germany and Uznach-Switzerland, for their efforts to support the hospital.

To Br. Dr. Ansgar Stüfe OSB for un-tired resource mobilization for the hospital.

On behalf of the entire hospital staff, we the members of the Hospital Management Team (HMT) would like to thank all the benefactors of St. Benedict Ndanda Referral Hospital in Tanzania and Abroad. Their help is of great importance to our hospital in order to be able to continue providing quality health services to all our patients and clients

The Government of Tanzania through the Ministry of Health and Social Welfare, and prime Minister's office Regional Administration & Local Government (PMORALG) for financial support, Equipment's and Staff allocation.

To all others benefactors for financial support and numerous gifts in kind.

To all Sisters who have put their efforts into the services for the patients.

Lastly to all heads of departments, units, and all others staffs for their hard work, Commitment, Dedication and cooperation throughout the year.

May God grant us the strength to continue the work in the spirit of love and Joy.

*Br. Dr. Jesaja Michael Sienz OSB*

**Br. Dr. Jesaja Michael Sienz OSB**  
**Medical Officer in charge**

*Fr. Damian Peter Msisiri OSB*

**Fr. Damian Peter Msisiri OSB**  
**Hospital Administrator**

Doctor V/C of  
St. Benedict's Hospital  
Box 3, Ndanda Mtwara Region  
Tanzania

## Table of Contents

INTRODUCTION .....	1
HISTORY .....	1
PRIMARY AIM AND OBJECTIVES OF THE TRUST .....	2
HOSPITAL ORGANOGRAM STRUCTURE .....	3
HOSPITAL GOVERNANCE .....	4
HOSPITAL MANAGEMENT TEAM (HMT) MEMBERS .....	4
HOSPITAL PROFILE .....	4
CATCHMENT AREA, REFERRAL SYSTEM .....	4
STAFFING LEVELS .....	5
STAFFING LEVEL ACCORING TO CADRES BY END OF 2021 .....	5
RECRUITMENT .....	6
LABOUR TURN OVER .....	6
TRAINING OF STAFF .....	7
HEALTH CARE .....	8
OUTPATIENT DEPARTMENT (OPD) .....	8
CLINICS .....	10
EAR, NOSE AND THROAT (ENT) AND CADIOLOGY CLINICS .....	11
EYE CLINIC .....	12
DENTAL CLINIC .....	13
REPRODUCTIVE AND CHILD HEALTH CARE (RCH) .....	14
VACCINATIONS .....	14
CERVICAL CANCER SCREENING .....	15
INPATIENTS DEPARTMENT (IPD) .....	16
IPD DATA 2021 .....	16
TOP TEN DIAGNOSIS OF INPATIENTS .....	17
DEATH STATISTICS .....	18
WARD STATISTICS .....	19
PHYSIOTHERAPY DEPARTMENT .....	33
ORTHOPEDICS UNIT .....	34
LABORATORY DEPARTMENT .....	34
DIALYSIS DEPARTMENT .....	38
RADIOLOGY & IMAGING DEPARTMENT .....	39
ENDOSCOPY DEPARTMENT .....	40

PHARMACY .....	42
REFERRAL CASES IN & OUT .....	43
COVID 19 .....	44
SOCIAL WELFARE.....	46
NATURAL FAMILY PLANNING CLINIC AND BILLING OVULATION METHOD (BOM) UNIT .....	47
WASTE MANAGEMENT .....	48
DISPENSARIES.....	48
UNIT OF INFORMATION COMMUNICATION AND TECHNOLOGY (ICT) .....	49
NDANDA COLLEGE OF HEALTH AND ALLIED SCIENCES (NDANDA COHAS) .....	50
INTRODUCTION.....	50
VISION, MISSION AND CORE VALUES.....	50
PERFORMANCE REPORT .....	51
STAFF DEVELOPMENT AND WELFARE.....	53
STUDENTS DEVELOPMENT AND WELFARE.....	54
INFRASTRUCTURE .....	55
FUTURE PLANS .....	56
FINANCE DEPARTMENT .....	57
MAJOR EVENTS AND PROJECTS 2021 .....	61
SENIOR EXPERTS.....	61
INTERPLAST CAMP .....	62
WORLD KIDNEY DAY .....	62
INSTALLATION OF CT SCAN.....	63
OUTREACH FOR CHILDREN .....	63
OXYGEN FILLING STATION.....	64
RENOVATION OF THE WARDS.....	65
PRIVATE WARD .....	65
EMERGENCY DEPARTMENT .....	66

# INTRODUCTION

St. Benedict Ndanda Referral Hospital is a faith-based private non-profit hospital, owned by the Registered Board of Trustees of St. Benedict and with support from the congregation of the Missionary Benedictines through the Abbey of Ndanda. It is part of the network of catholic health institutions in Tanzania.

The hospital is registered by the government of Tanzania through the private hospital Act of 1977 through the Ministry of health Community Development Gender, elderly and children (MOHCDGEC) as a voluntary agency Hospital (VAH). The hospital was upgraded to become a referral hospital at regional level in 2010 through the government gazette notice no. 828 of Nov. 2010.

St. Benedict Referral Hospital -Ndanda represents – today and historically – a unique combination of extensive health services with a compassionate and holistic approach in a location where such services are strongly needed. Without this Hospital, a large part of the rural in the southern part of Tanzania especially in the catchment area would be left behind without access to acceptable health services, especially at referral level.

The hospital is run by cost sharing (income from medical service), government support and grants aids from benefactors in Europe and America.

## HISTORY

St. Benedict Ndanda Referral Hospital has a history back until 1927, where it was founded by German Missionary Benedictines. es of Benedict Monastery of the Catholic Church.

The impressive growth and development of St. Benedict Hospital is to a large amount contributed by its founder Sr. THEKLA STINNESBECK (RIP) through vision, mission, passion and entire commitment to strengthen the health care delivery in the area. She arrived at Ndanda on 5<sup>th</sup> May 1927.

By the end of the Second World War in 1945 the hospital had a capacity of 103 beds. In 1970 the new main hospital wards (W 1 – W 8) were opened by the Minister for Health Mr. Sijaona. The first employment of 2 Tanzanian doctors took place in 1977, Dr. Mdeme (AMO) and Dr. David Mwambe (MD). In July 2004 the new operating theatre complex was opened by the Regional commissioner of Mtwara Hon. Isidor Shirima. On 12<sup>th</sup> November 2010 the Hospital was up-graded towards Regional Referral Hospital, Government Notice No: 828, and Published on the Government Gazette. On 14<sup>th</sup> December 2013 the Nursing School Girls

Dormitory construction was completed and opened by the then Hon. Bishop Gabriel Mmolle of the Diocese of Mtwara. On 28<sup>th</sup> March 2014 the construction of Phase I (the Ground floor) of a new Medical Laboratory at Ndanda Hospital started. The foundation Stone was put on 14<sup>th</sup> March 2015 by Deputy Minister for Ministry of Health and Social Welfare Hon. Dr .Stephen Kebwe (MP).

## **PRIMARY AIM AND OBJECTIVES OF THE TRUST**

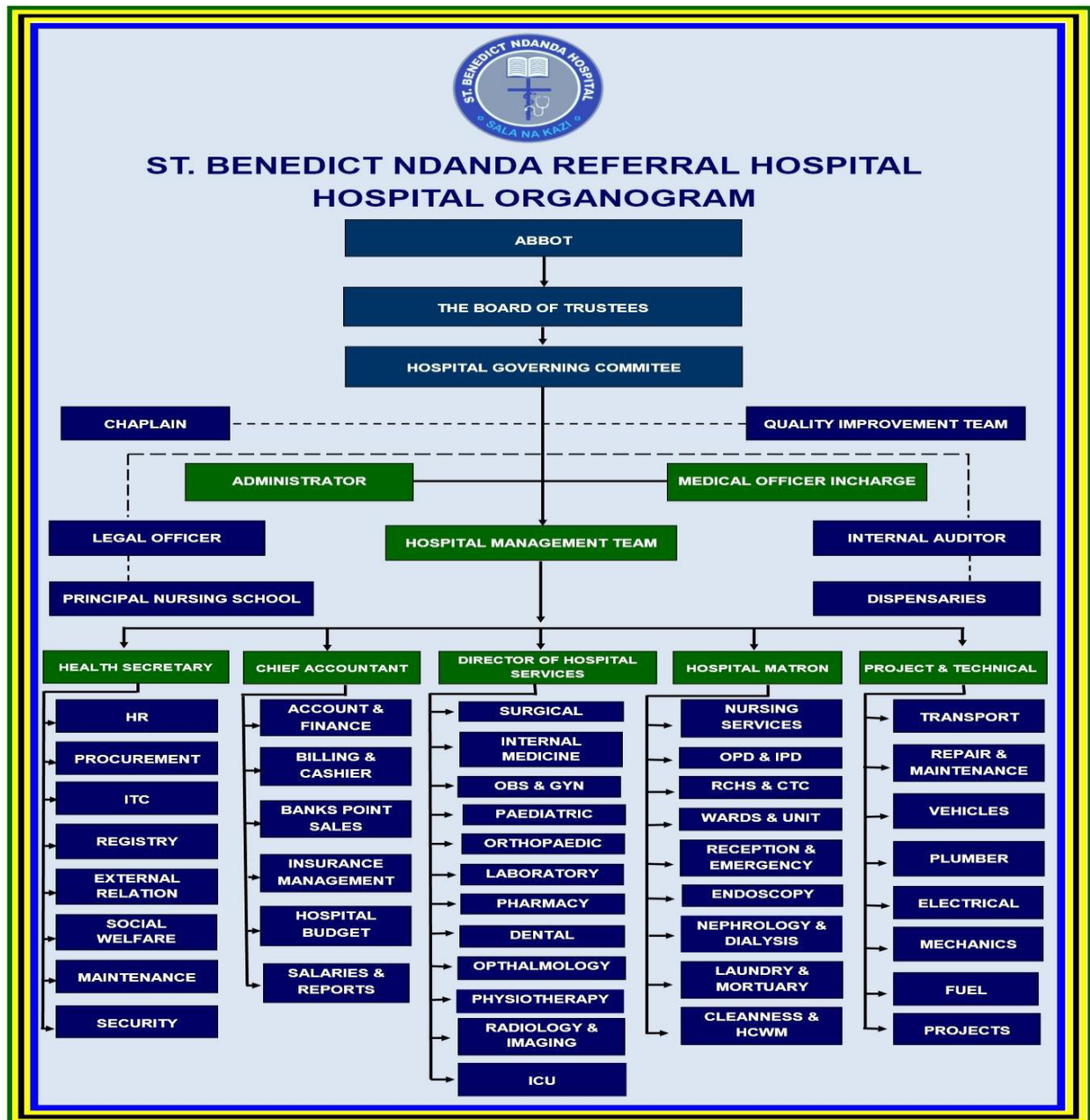
The primary aim of the TRUST is to provide facilities, amenities and services associated with health care for the benefit of the general public, and to this the Hospital shall operate not for profit, but the Trustees shall ensure that it is sustainability in the future.

In furtherance of its primary aim, the specific objectives of the activities and programmes to be undertaken by the TRUST shall include the following:

- To maintain, develop or extend the premises, facilities and equipment forming part of the St. Benedict Ndanda Referral Hospital and any other health establishments affiliated or associated with the Trust, and to operate the hospital and all these other establishments for the provision of health care;
- To provide, in pursuance of Christian charity for the sick and in conformity with moral principles of the Catholic Church, comprehensive health services designed to prevent, heal or relieve the suffering of patients, and to offer services to all patients regardless of their religion or nationality;
- To provide, to the extent possible within the resources of the Trust, training in Nursing and Midwifery and to promote pre-service and in-service training for staff and continuing education for the acquisition or enhancement of relevant professional and technical skills and qualify.



# HOSPITAL ORGANOGRAM STRUCTURE



## HOSPITAL GOVERNANCE

### HOSPITAL MANAGEMENT TEAM (HMT) MEMBERS

NAMES	DESIGNATION
Dr. Br. Jesaja Michael Sienz OSB	Doctor in Charge
Fr. Damian Peter Msisiri OSB	Administrator
Joseph Ndukusi Saibulu	Health Secretary
Dr. Stanslaus Wambyakale	Director of Hospital Services
Greyson Kyando	Patron

## HOSPITAL PROFILE

### CATCHMENT AREA, REFERRAL SYSTEM

The Hospital is situated in Mtwara Region, on the Eastern boundary of Masasi District, whose border in the south is Mozambique.

The distance to Dar Es Salaam is 563 km, to Lindi 110 km, to Mtwara 159 km and to Masasi town 38 km.

The hospital serves patients from the following regions, districts:

According to Health Management Information System (HMIS) definition for service area per health facility the office of DMO Masasi allocated the following catchment area and villages as service area for St.

Benedict Referral hospital. We also receive patients from as far as Dar-es-Salaam, Zanzibar and Mozambique.

**Table: Catchment areas and its population, referral system**

Hospital Catchment area	Lindi Region, Mtwara Region, Ruvuma Region (Tunduru District) and Northern part of Mozambique (Mueda District)
Number of districts in the region	6

Referral	To Muhimbili National Hospital, Ocean Road Institute , CCBRT and Jakaya Cardiac Institute
----------	----------------------------------------------------------------------------------------------

## STAFFING LEVELS

The management of St. Benedict Ndanda Referral Hospital has employed qualified, dedicated and well-motivated employees, who are ready to offer quality health care services to every patient regardless of ethnicity, faith or socio-economic status. The total number of employees is 322. The tables below show the trend of staffing levels over the last 4 years and the number of employees of different cadres.

	2018	2019	2020	2021
SBNRH	242	260	253	265
NOMINAL ROLL	33	32	35	34
MoH	3	3	3	3
MASASI DC	3	4	4	8
INTERNS DR'S	20	20	23	6
LAB INTERNS	10	11	6	6
TOTAL	311	330	324	322

## STAFFING LEVEL ACCORING TO CADRES BY END OF 2021

SPECIALIST	6
MASTER DEGREE	2
MD	14
NURSE	135
TECHNOLOGIST	20

LAB SCIENTIST	5
AMO	3
PHARMACIST	1
PHYSIOTHERAPIST	1
OTHER CADRES	116
<b>TOTAL</b>	<b>322</b>

## RECRUITMENT

MD	6
NURSE	20
PHARMACY TECHNOLOGIST	2
LAB TECHNOLOGIST	1
LAB TUTOR	1
LIBRARIAN	1
TAILOR	1
MEDICAL ATTENDANT	1
MORTUARY TECHNICIAN	1
<b>TOTAL</b>	<b>34</b>

## LABOUR TURN OVER

RESIGNATION	13
RETIREMENT	3
DEATHS	4

**Comment:** During the year 2021, 4 of our employees have passed away. One of them has died due to motor cycle accident, others due to various diseases including Covid 19 in one employee.

## TRAINING OF STAFF

In the reporting year 2021, 70 employees have been sent for short-term training and 16 employees have been sponsored for long-term training, as indicated in the table below.

<b>SN</b>	<b><i>DOCTORS SPECIALIZATION COURSES</i></b>	<b>No</b>
1	Obstetrics & Gynaecology	1
2	Ophthalmologist	1
3	Internal Medicine	1
4	Anaesthesiologist	1
5	Nephrologist	1
<b><i>NURSES TRAINING PACKAGE</i></b>		
1	DIPLOMA	4
2	DEGREE	2
3	MASTER DEGREE	1
<b><i>LABORATORY TRAINING PACKAGE</i></b>		
1	MASTER	1

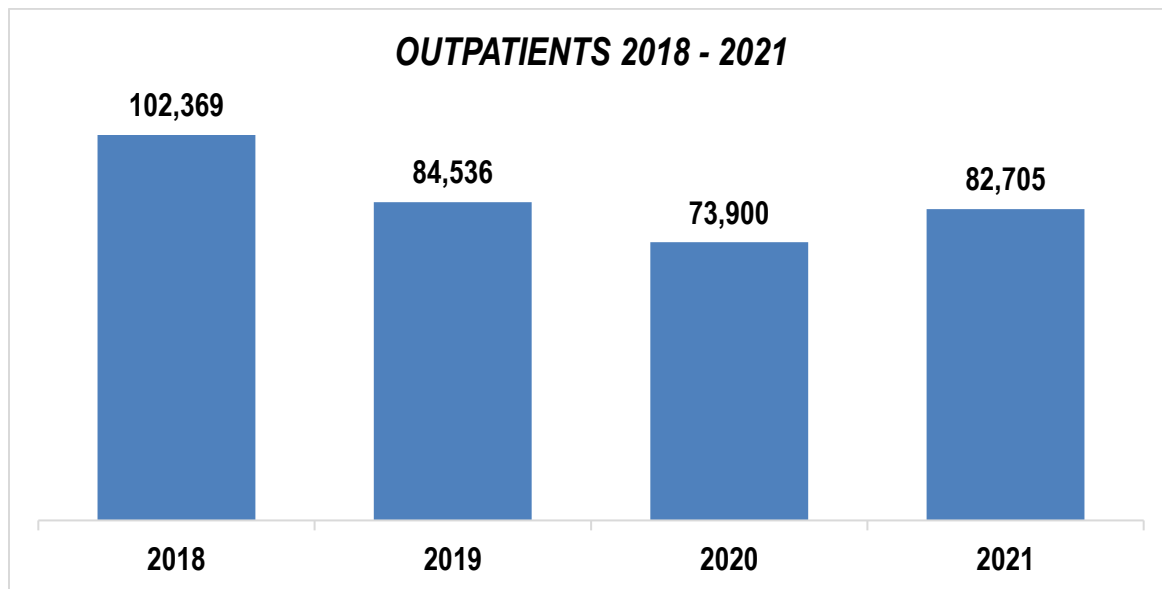
## HEALTH CARE

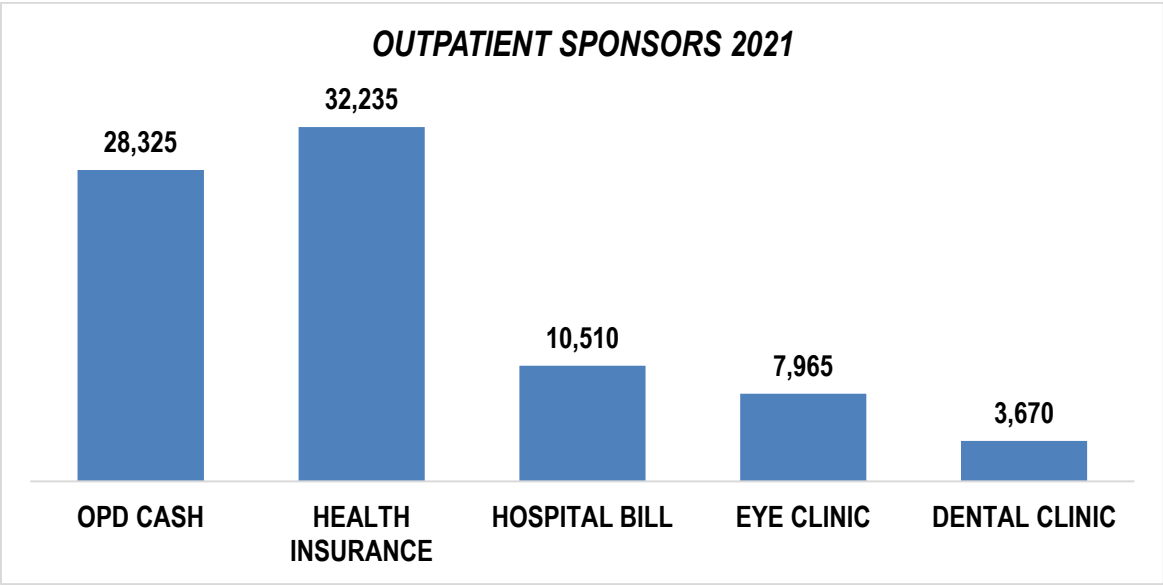
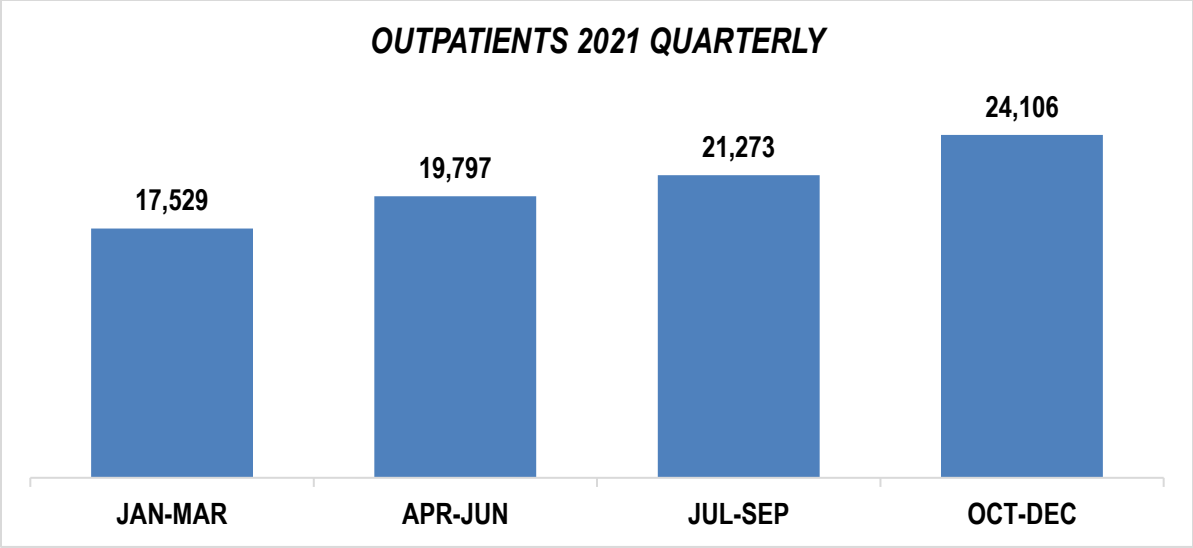
About **227 – 330** patients per day are treated at our General OPD and Emergency Department in 2021 year compared to previous 2020 year. Manchester Triage System is used for triage of patients. Emergencies are treated immediately by a Medical Doctor (MD) in our emergency room, which is well equipped with oxygen concentrator, suction machine, emergency drugs etc.

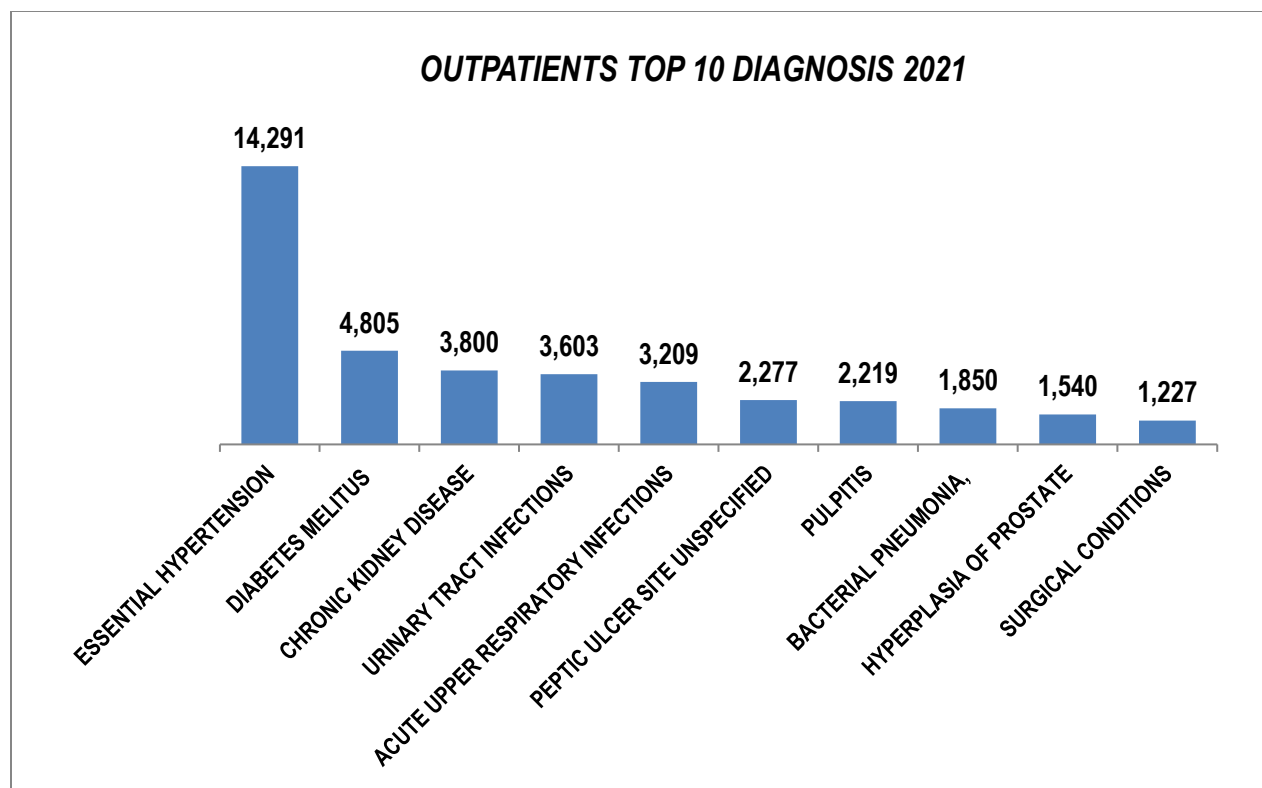
Our team at General OPD comprises of Medical Doctors (MD) and intern's doctors, two assistant medical officers (AMO) and three nurses. Children up to 5 years are treated at RCH, where basic investigations and routine vaccinations are provided free of charge.

### OUTPATIENT DEPARTMENT (OPD)

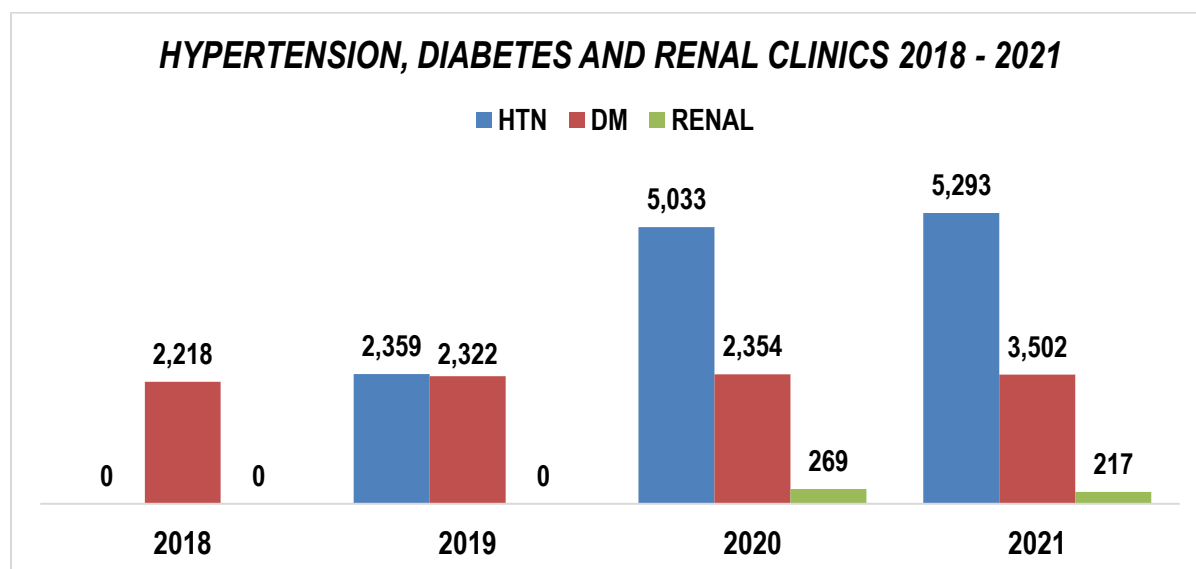
The following charts indicate the numbers of outpatients who have registered at our general OPD. The figures also comprise the number of inpatients, because on arrival inpatients are registered like outpatients until they are admitted by the doctor.







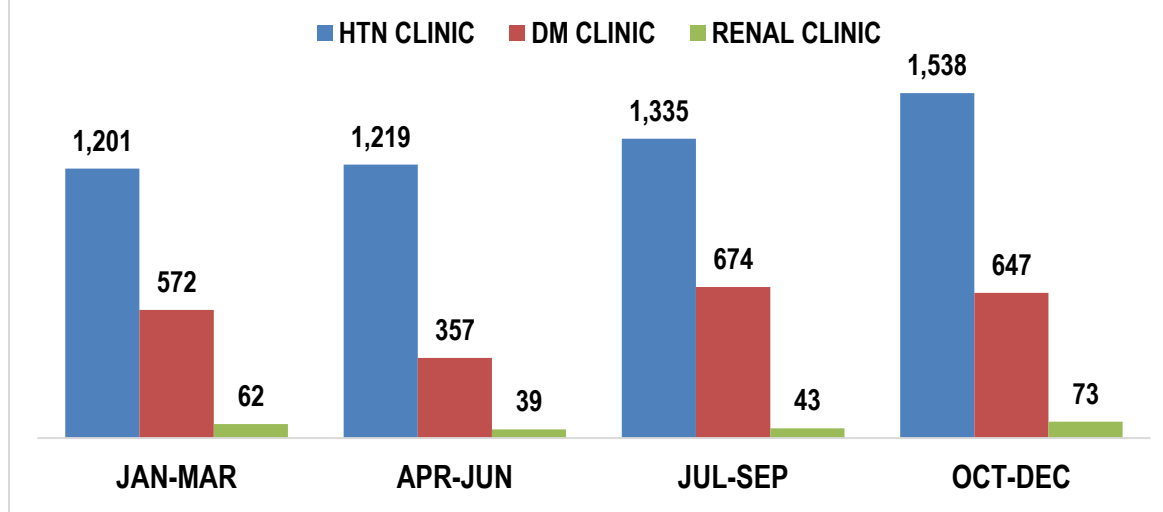
## CLINICS



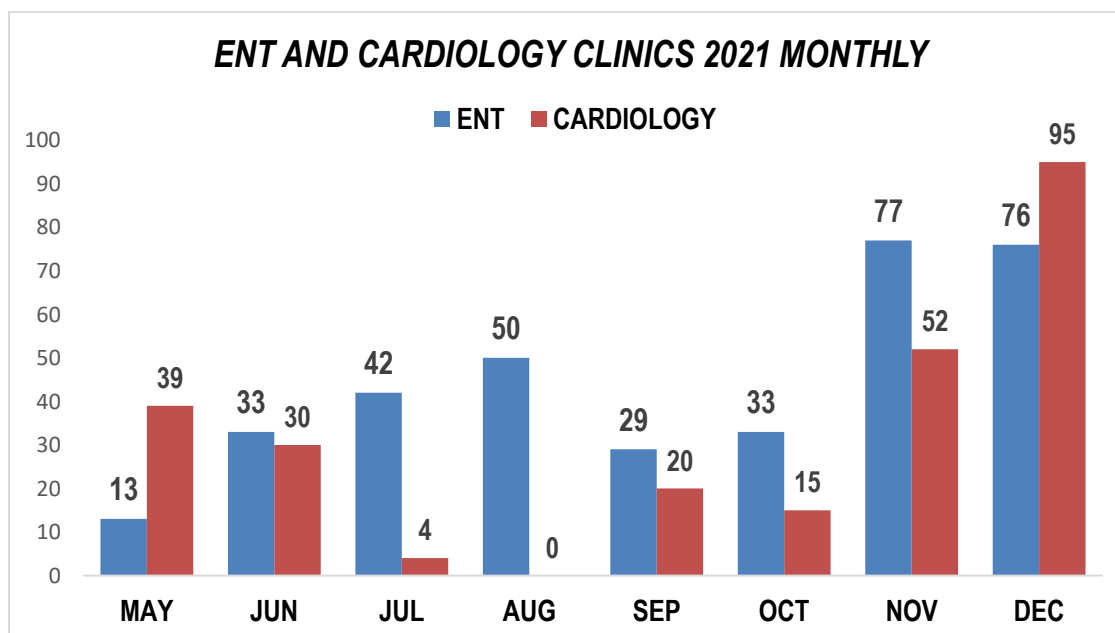
**Comment:** Hypertension Clinic was initiated in January 2019, Renal Clinic was launched in January 2020.



### ***HYPERTENSION, DIABETES AND RENAL CLINICS 2021 QUARTERLY***

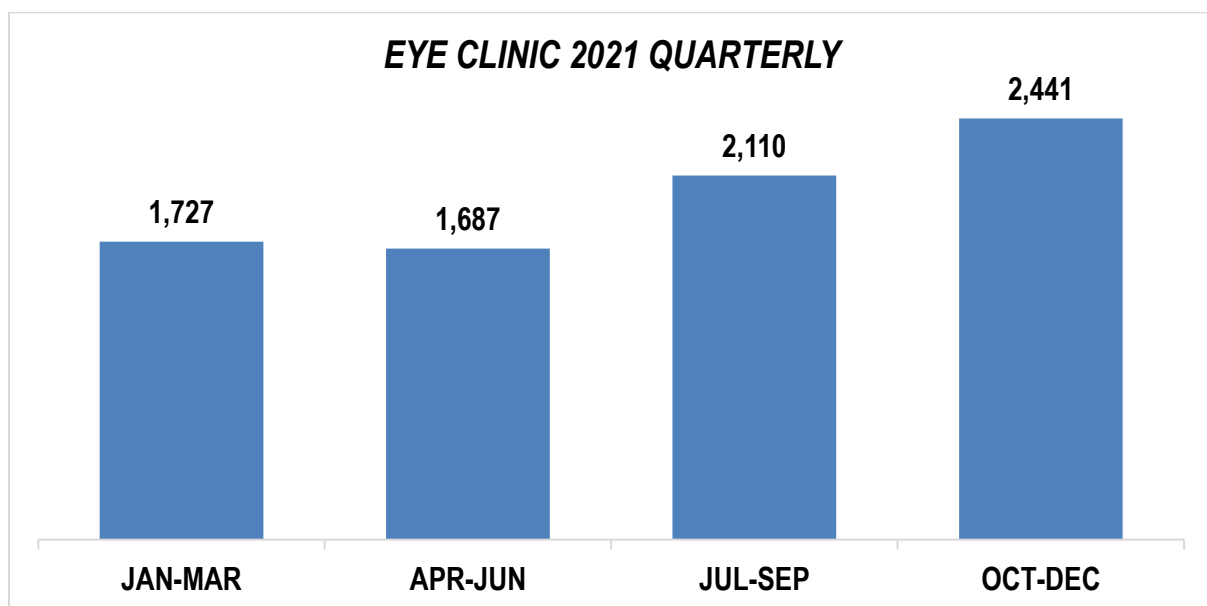
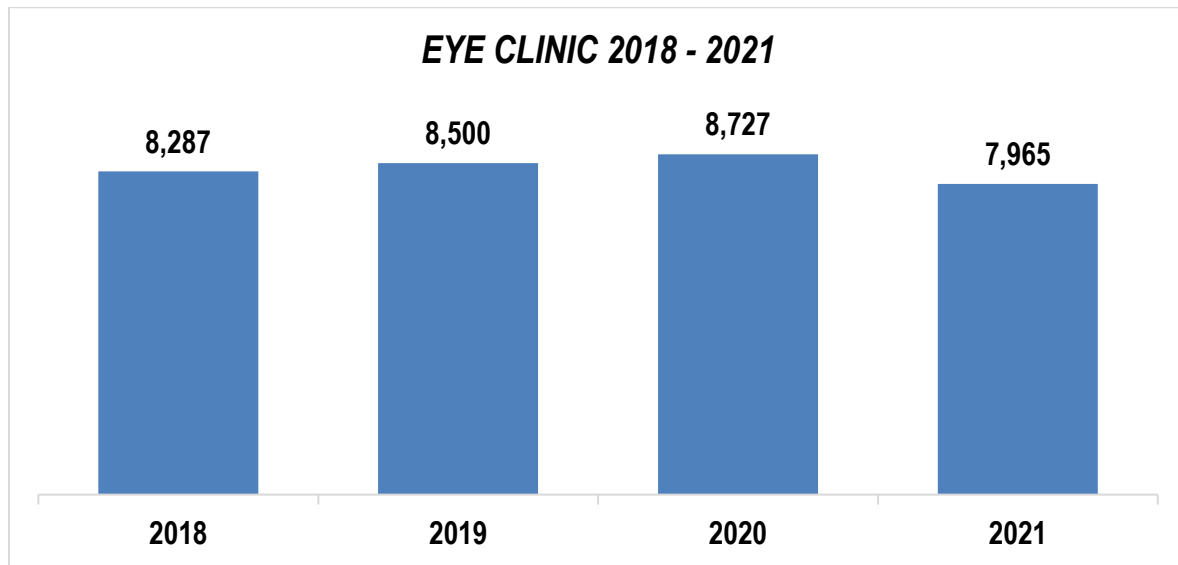


### **EAR, NOSE AND THROAT (ENT) AND CARDIOLOGY CLINICS**

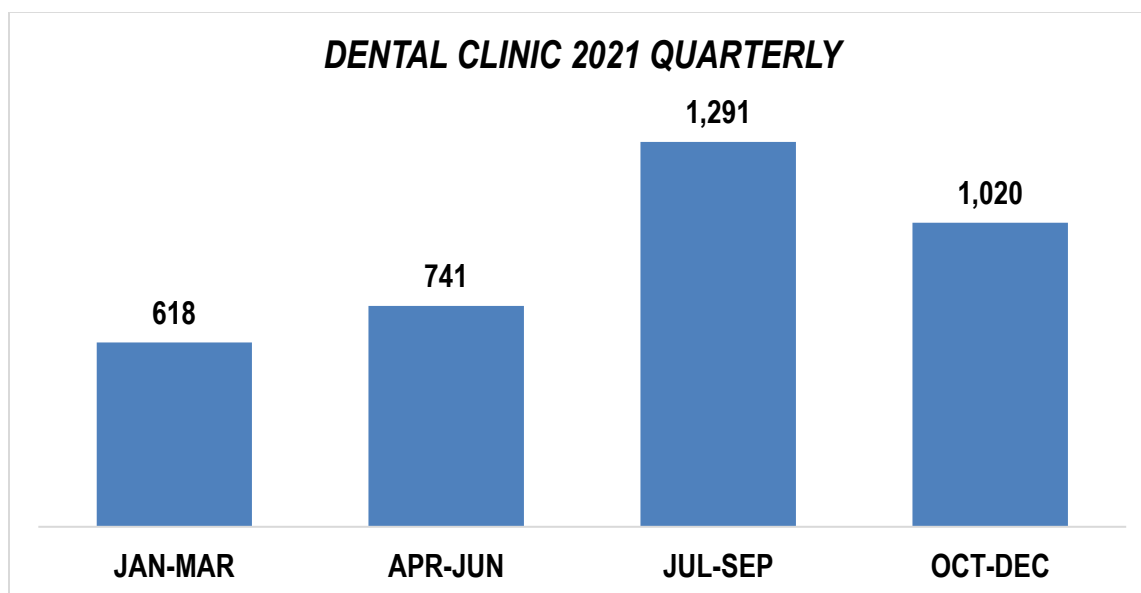
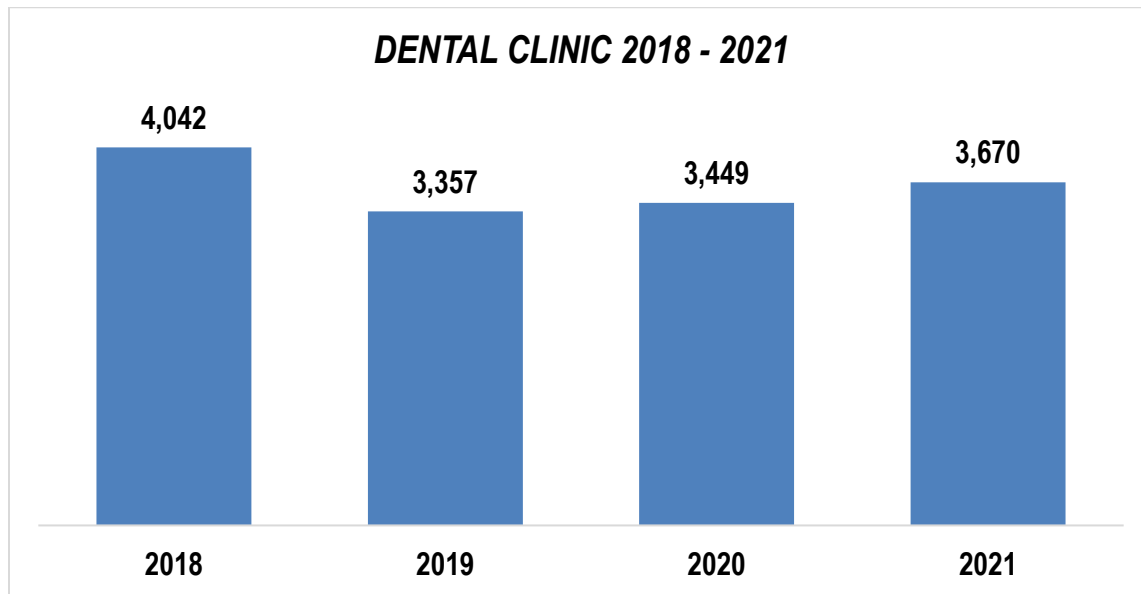


**Comment:** Since May 2021, one ENT surgeon and one cardiologist from St. Walburga Hospital Nyangao are visiting us regularly for 2 days per week. On Tuesdays they come for clinics and on Wednesday they do procedures

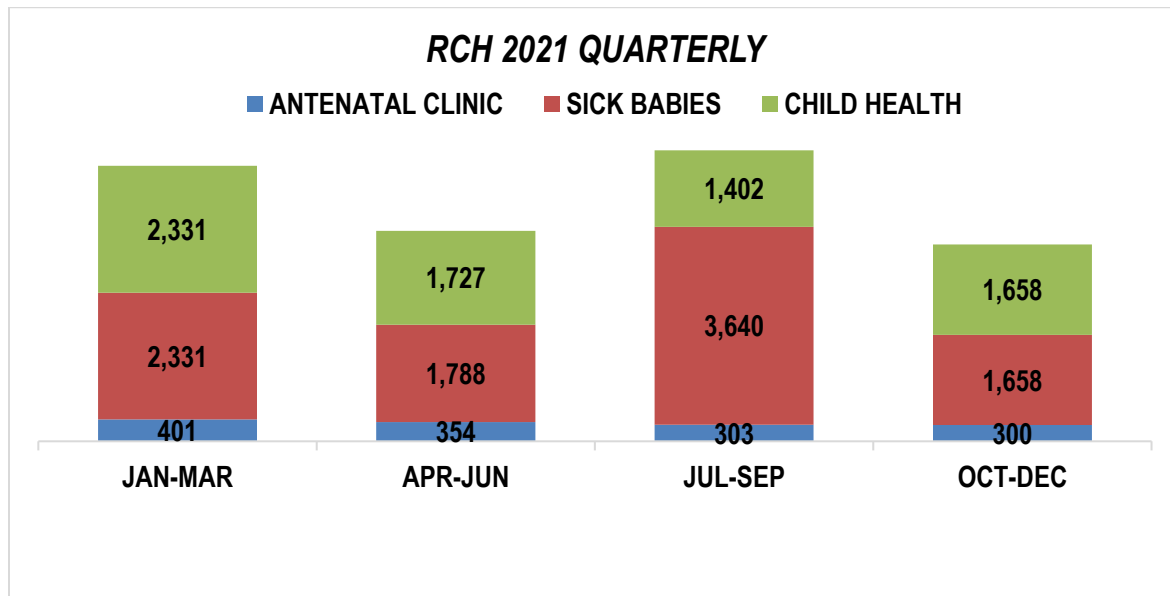
## EYE CLINIC



## DENTAL CLINIC

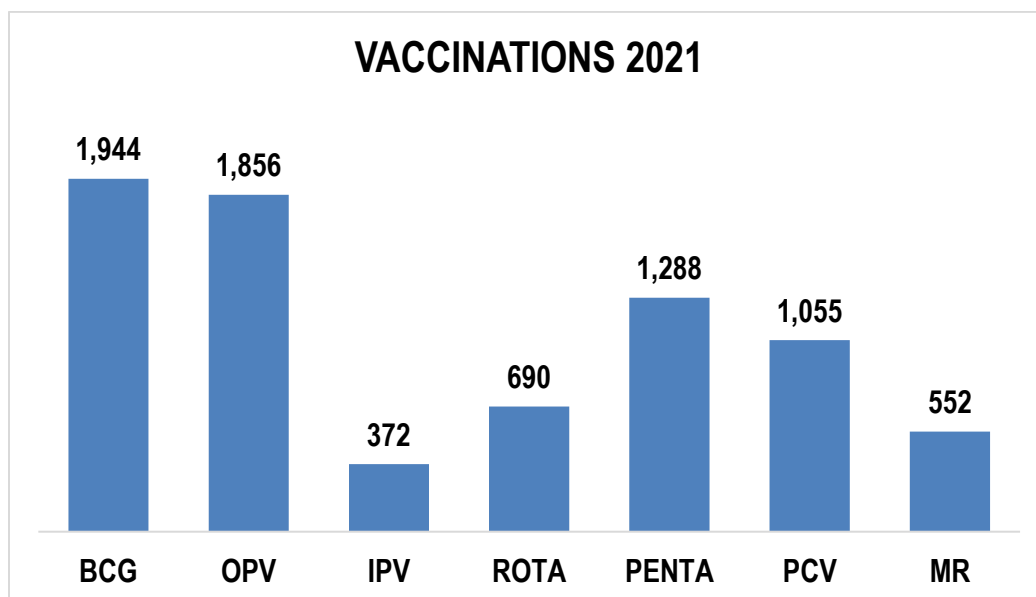


## REPRODUCTIVE AND CHILD HEALTH CARE (RCH)



**Comment:** Children who report for Child Health come for malnutrition assessment. This service is free of charge for our patients. The data of the Child Health program is not reflected in our electronic patient management system and therefore not included in the number of attendances at our OPD.

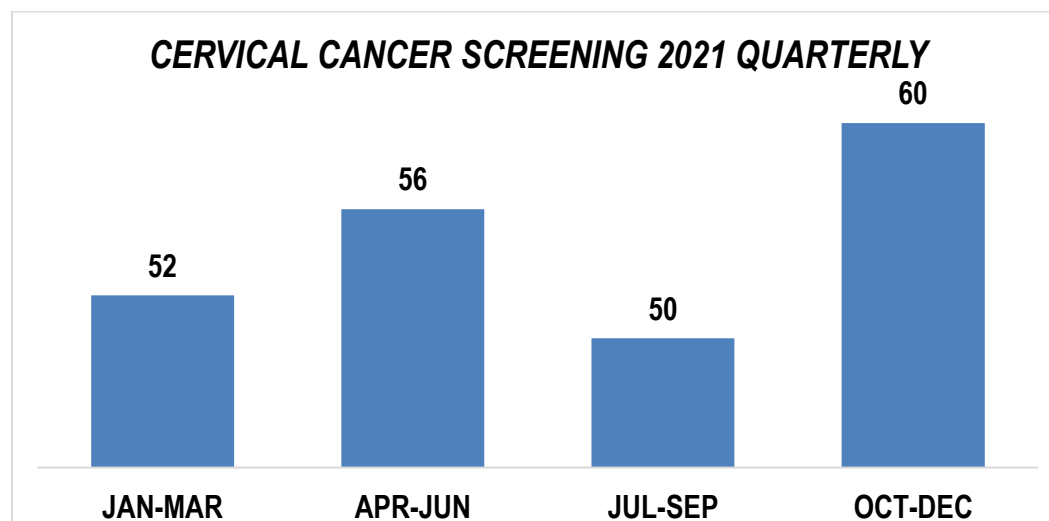
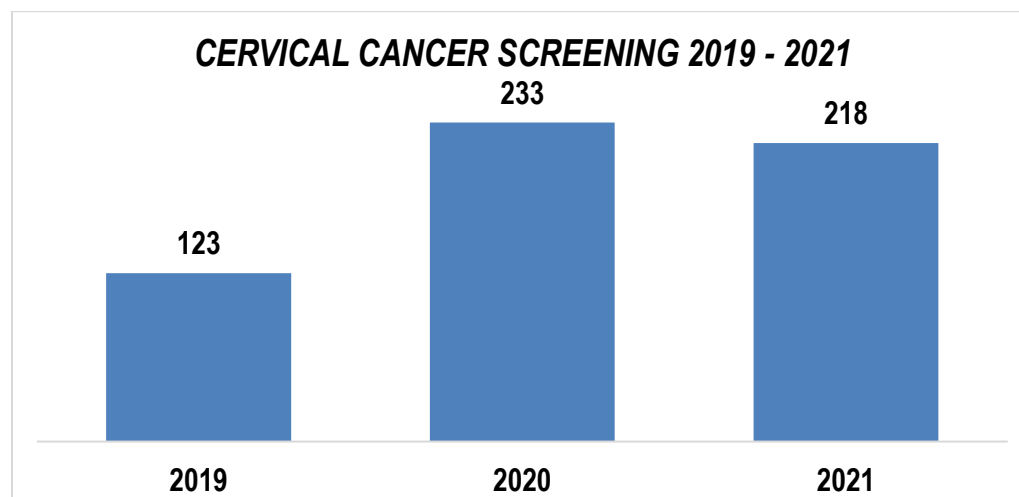
## VACCINATIONS



**Abbreviations:** BCG = Vaccination against Tuberculosis, OPV = Oral Polio Vaccine, IPV = Inactivated Polio Vaccine, ROTA = Vaccination against Rotavirus, PENTA = Vaccination against Tetanus, Diphtheria, Pertussis, Hepatitis B, Haemophilus influenzae Type B, MR = Vaccination against Measles and Rubella

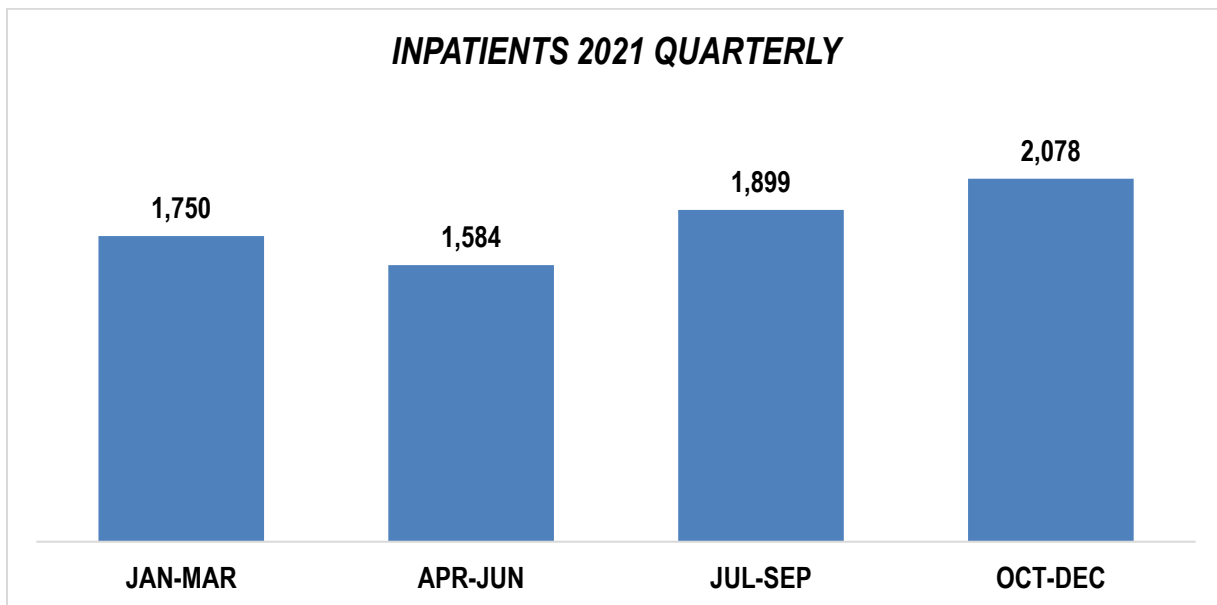
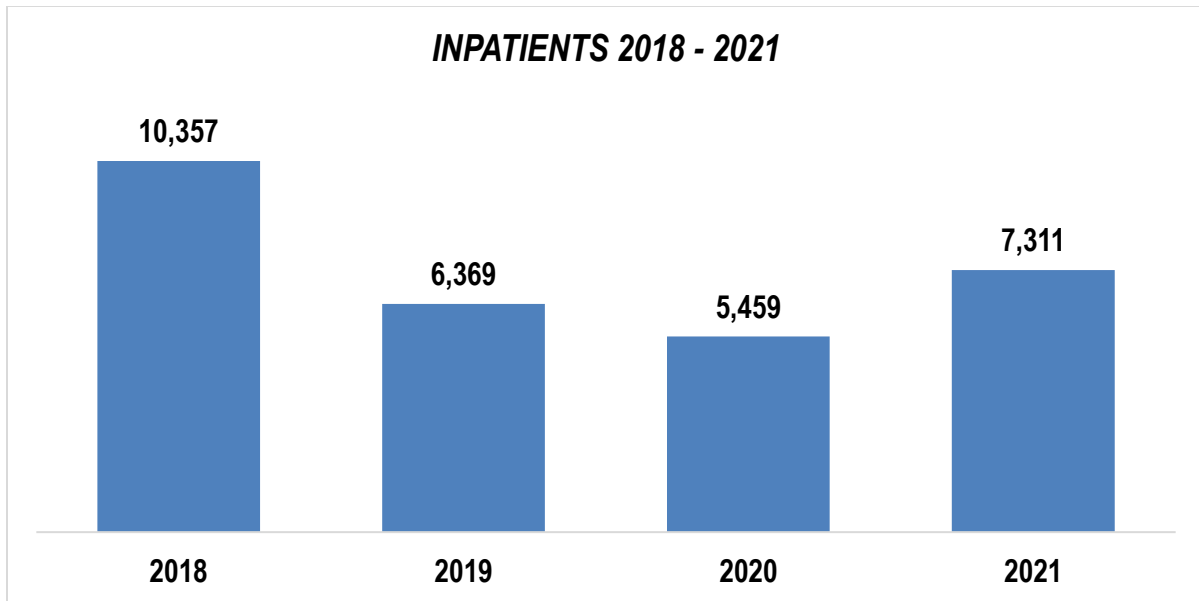
**COMMENT:** Vaccinations are provided at our facility in Ndanda (RCH), at our dispensaries in Chikundi and Nangoo and at our mobile clinics. Vaccinations are provided free of charge to our clients. The data of vaccinations is not reflected in our electronic patient management system and therefore not included in the number of attendances at OPD.

## CERVICAL CANCER SCREENING



**Comment:** In December 2021, thanks to the visit of a gynaecologist from Germany, we managed to conduct a camp for cervical cancer screening. Therefore the number of clients during the last quarter was high compared to the previous quarters.

## INPATIENTS DEPARTMENT (IPD)



## IPD DATA 2021

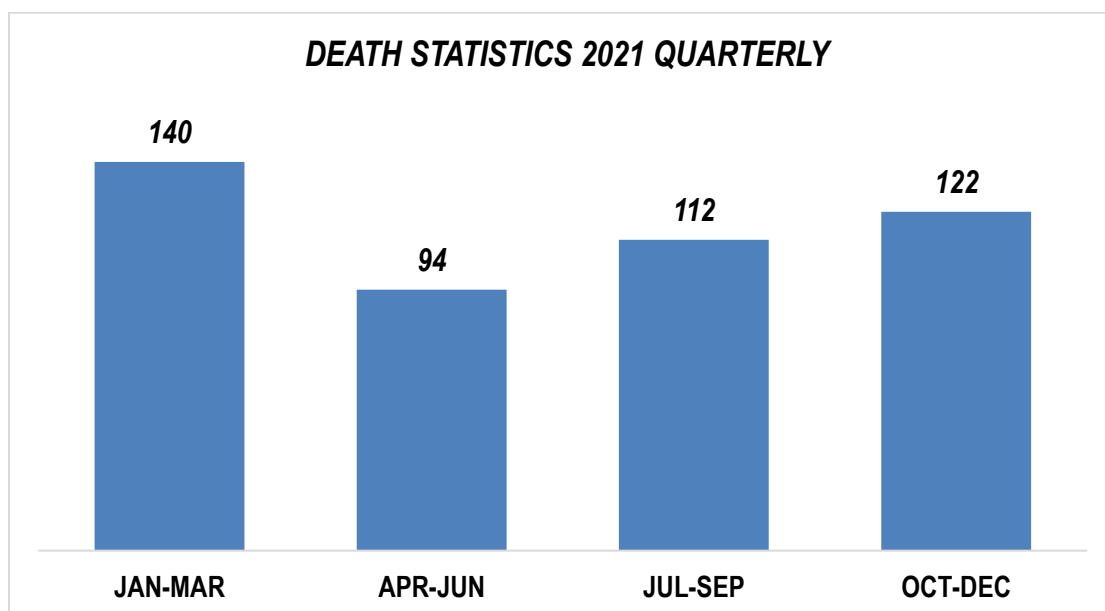
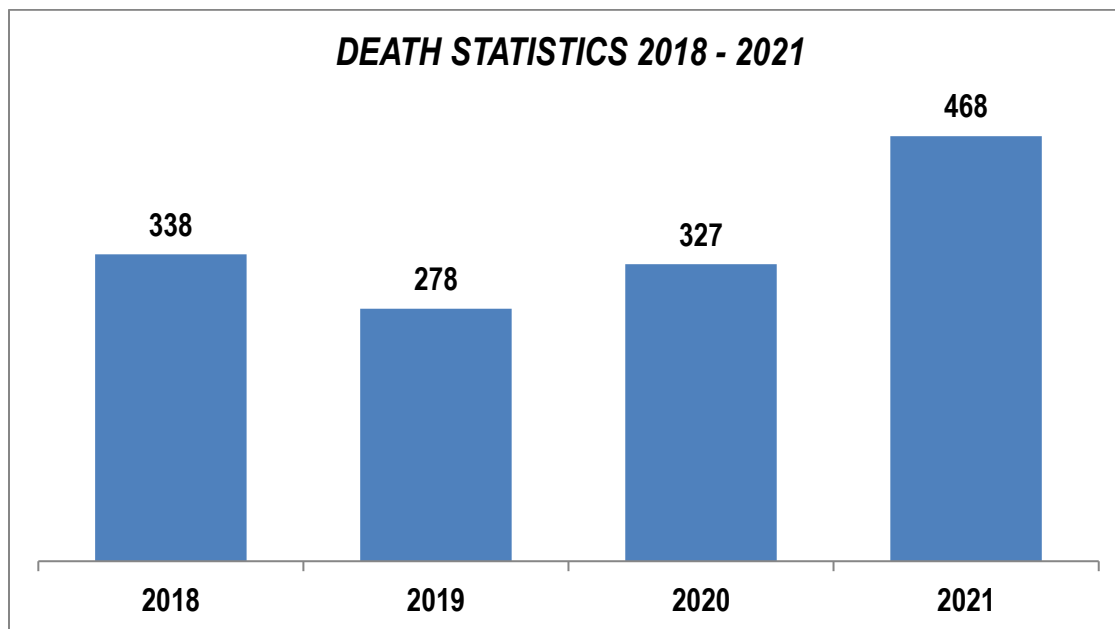
Hospital Bed Capacity	300
Total Admissions	7,311

Total Discharge	6,665
Total Death	468
Average New Admission per day	20
Death Rates (%)	6.4%
Average Occupied bed per day	123
Average Length of Stay (ALOS)	6 Days
Bed occupancy	49.8%
Hospital Bed Occupied Maximum	158 Patients

## TOP TEN DIAGNOSIS OF INPATIENTS

SN	DISEASES	MALE	FEMALE	TOTAL	% of IPD patients
1	Fractures	479	103	582	11%
2	Pneumonia	204	128	332	6%
3	Hypertension	107	174	281	5%
4	Malaria	128	129	257	4.6%
5	Gynaecological diseases	n.a.	232	232	4.2%
6	Anaemia	118	113	231	4.2%
7	Renal failure	93	73	166	3%
8	Surgical condition	83	77	160	2.9%
9	Diabetic	93	58	151	2.7%
10	Peptic ulcer	71	77	148	2%
<b>TOTAL</b>		<b>1,376</b>	<b>1,164</b>	<b>2,540</b>	<b>45.6%</b>

## DEATH STATISTICS



**Comment:** The number of deaths in 2021 has increased compared to the previous years. The reason is likely to be Covid 19 Pandemic, which has caused many deaths especially during the second wave in Tanzania which occurred from January until March 2021.



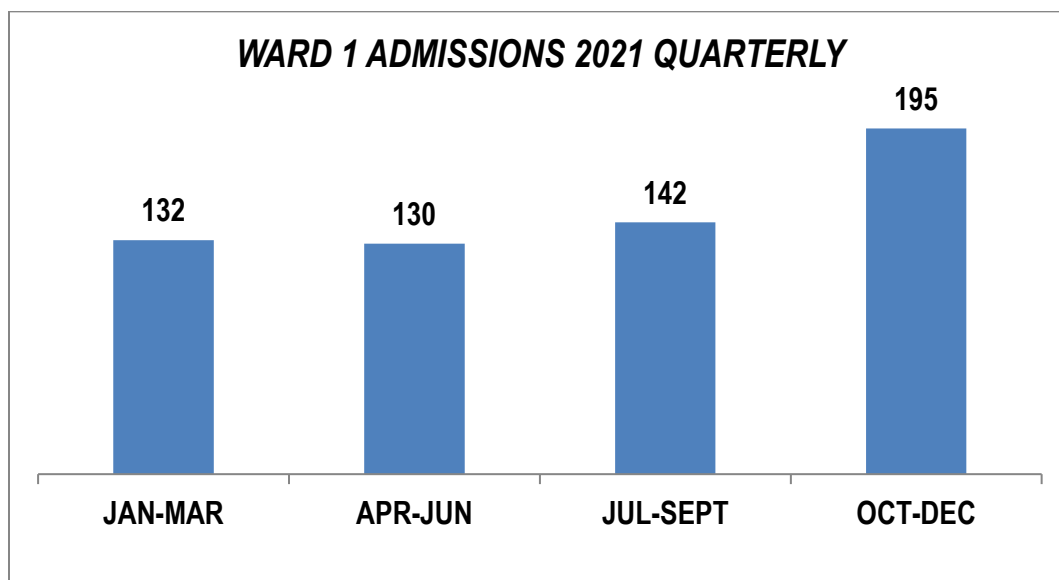
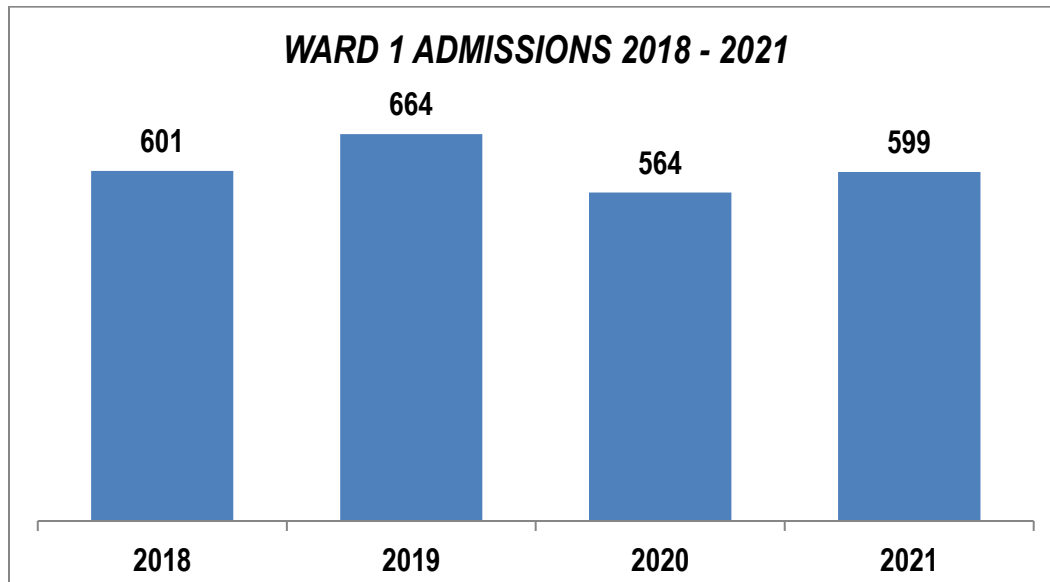
## WARD STATISTICS

Wards	W1 male surgical	W2 male orthopaedics	W3 female medical	W4 male medical	W5 antenatal	W6 female surgical
Average daily In-patient census	18	15	9	9	13	16
Percentage of bed occupancy	80%	66%	39%	29%	50%	47%
Ward bed capacity	22	22	30	30	25	35
Ward bed occupied maximum	27	24	20	15	28	35
Admission	599	460	734	779	845	641
Average Admission per month	50	28	61	65	71	54
Death Rates (%)	6%	1%	12%	14%	0.4%	3%
Average Length of Stay (ALOS)	9	10	4	4	4	9

Wards	W7 postnatal	W10 paediatric	W12 private	NICU	ICU
Average daily bed occupancy	18	10	3	10	2
Percentage of bed occupancy	54%	33%	55%	37%	52%
Ward bed capacity	33	29	5	25	4
Ward bed occupied maximum	32	20	5	20	5
Admission	1814	626	179	597	37
Average Admission per month	151	52	15	50	3
Death Rates (%)	0.5%	6%	6%	7%	35%
Average Length of Stay (ALOS)	4	3	6	6	6

## WARD 1: MALE SURGICAL WARD

Ward 1 is responsible to admit all male patients above 5 years with general surgical conditions.

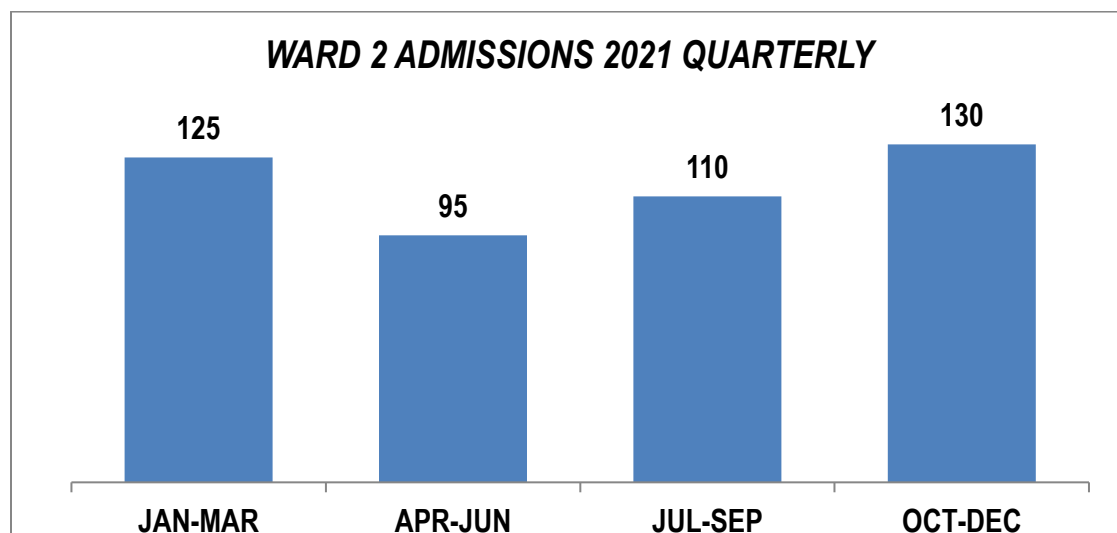
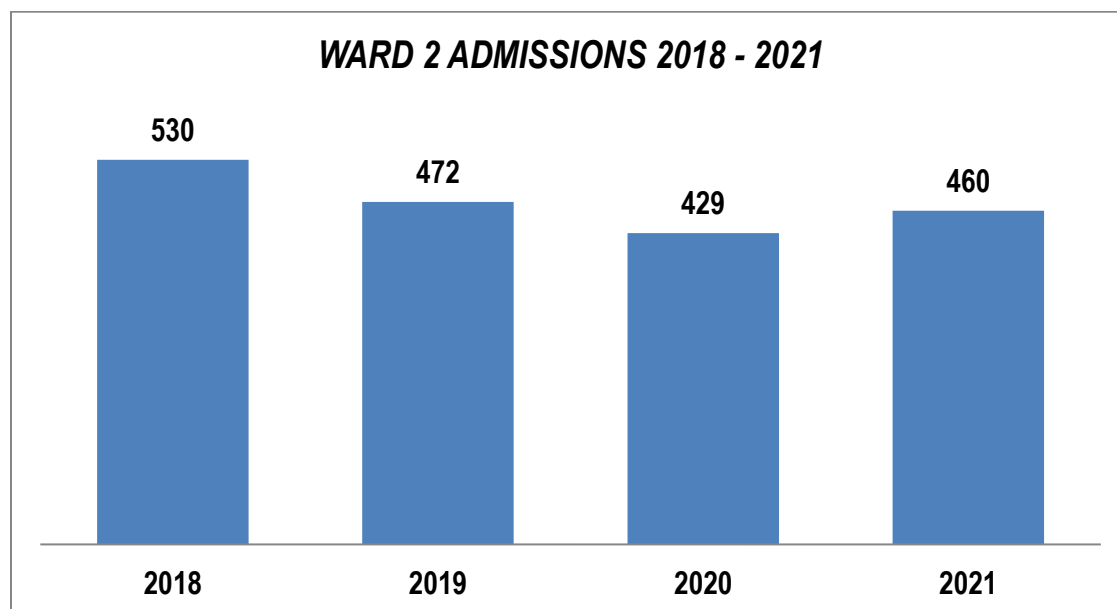


S/N	WARD 1 TOP FIVE DISEASES	No
1	Other Surgical condition	70
2	Road Traffic Accident	62
3	Septic Wound	35
4	Abscess	26

5	Intestinal Obstruction	18
---	------------------------	----

## WARD 2: MALE ORTHOPAEDIC WARD

Ward 2 is responsible to admit all male patients above 5 years with surgical orthopaedic conditions.

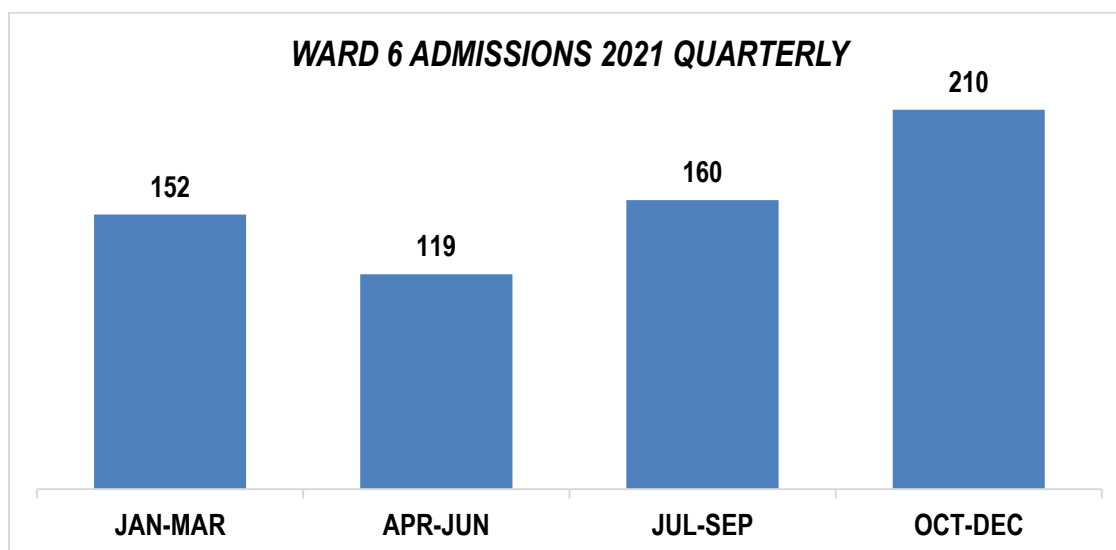
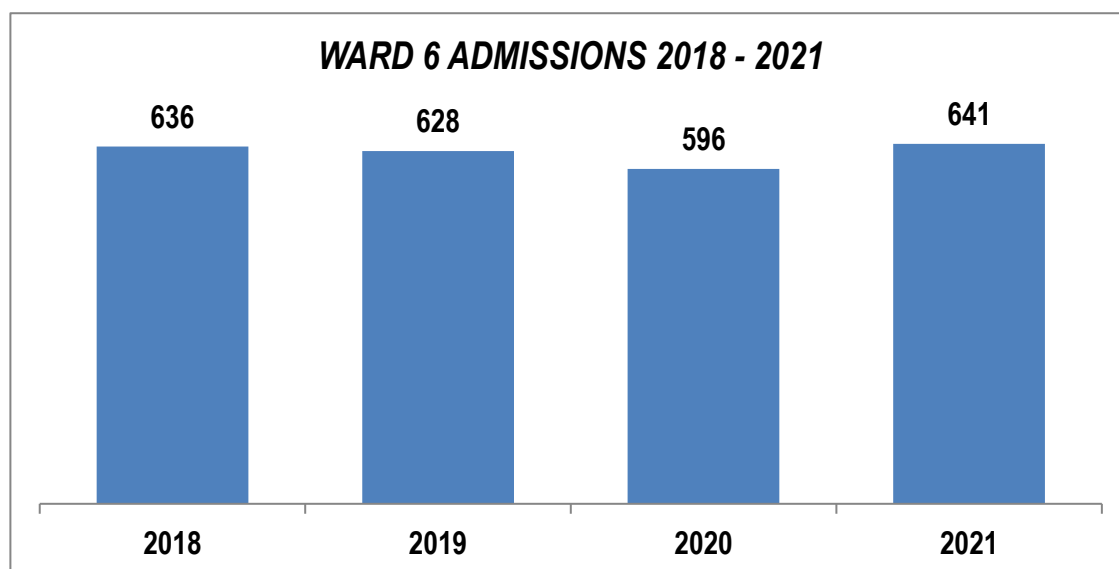


S/N	WARD 2 TOP 5 DISEASES	NO
1	Fracture	445
2	Road Traffic Accident	86
3	Anaemia	58

4	Dislocation	32
5	Traumatic Brain Injury	28

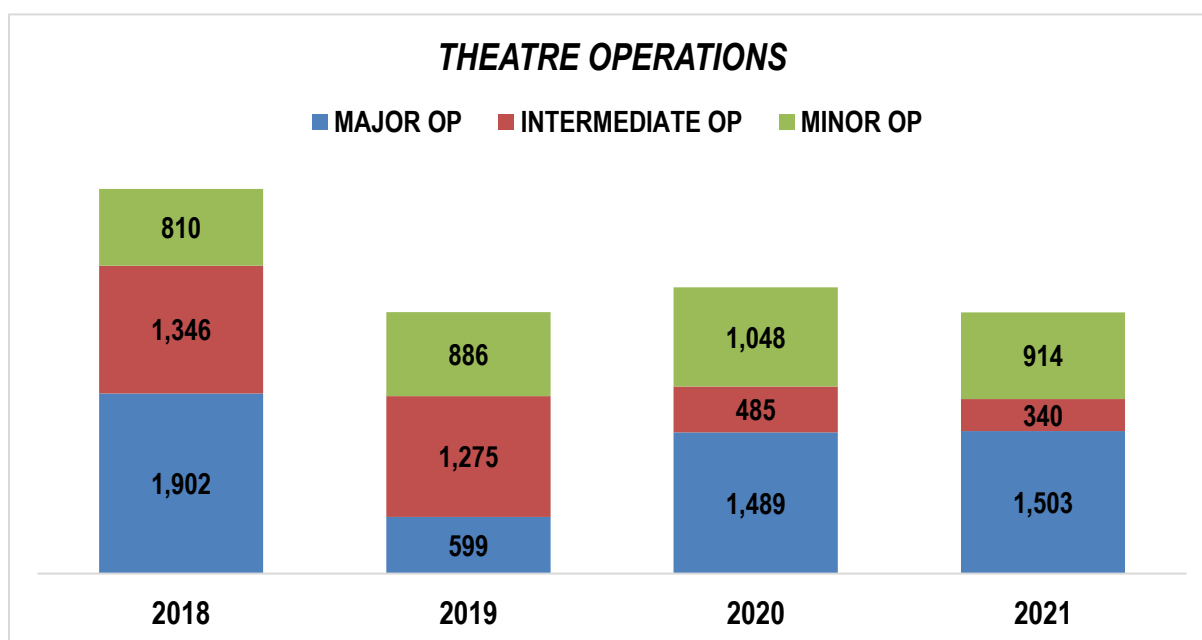
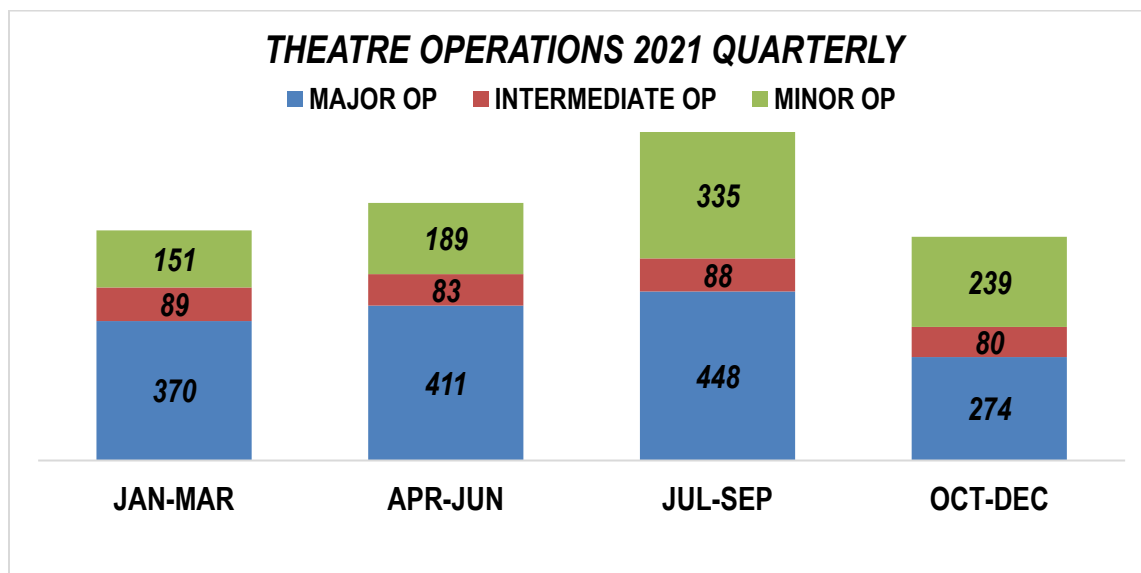
## WARD 6: FEMALE SURGICAL WARD

This ward is responsible to admit all female patients and under 5 years old male patients with surgical condition (both orthopaedic and general surgery).



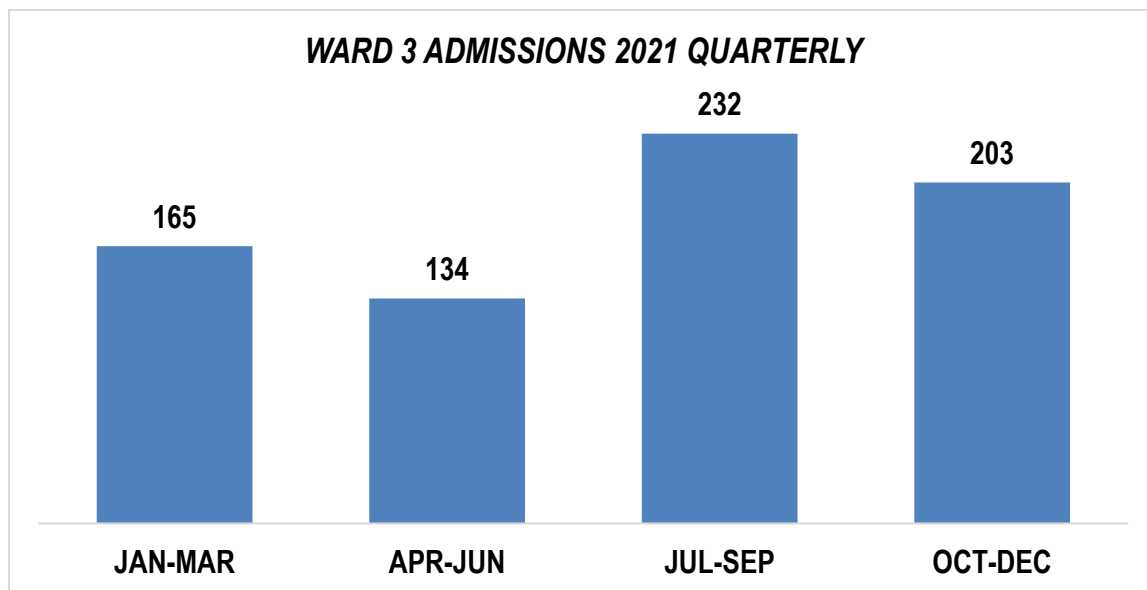
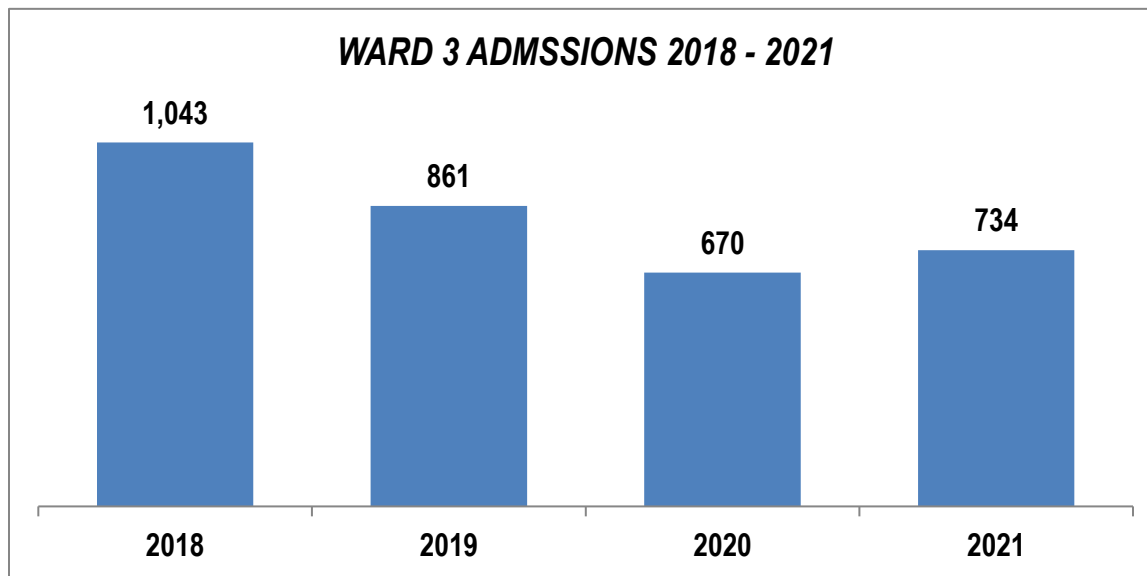
S/N	WARD 6 TOP 5 DIAGNOSIS	NO
1	Fracture	101
2	Other Surgical Condition	77
3	Hernia	34
4	Burn	32
5	Abscess	31

## THEATRE



### WARD 3: FEMALE MEDICAL WARD

Ward 3 is responsible to admit all female patients above 5 years with medical conditions.

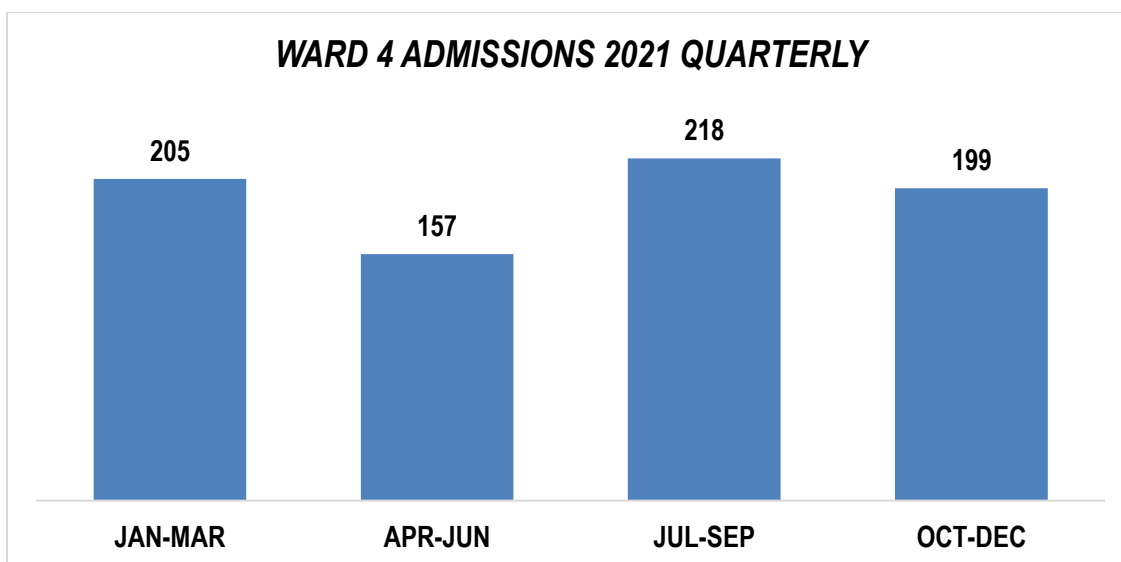
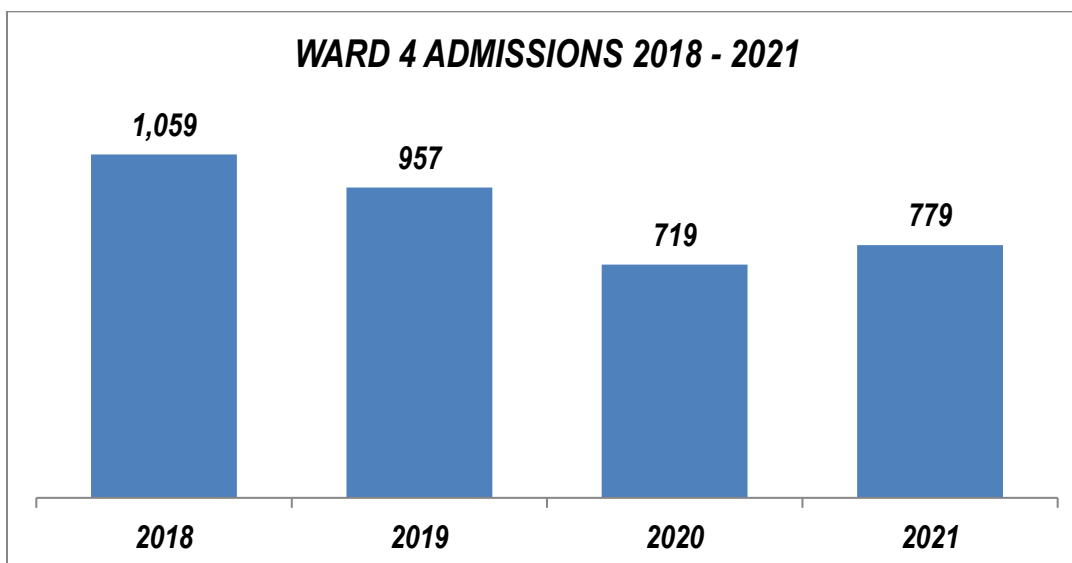


S/N	WARD 3 TOP 5 DISEASES	NO
1	Hypertension	125
2	Pneumonia	83
3	Malaria	70
4	Anaemia	70

5	Peptic Ulcer	65
---	--------------	----

## WARD 4: MALE MEDICAL WARD

Ward 4 is responsible to admit all male patients above 5 years with medical conditions.

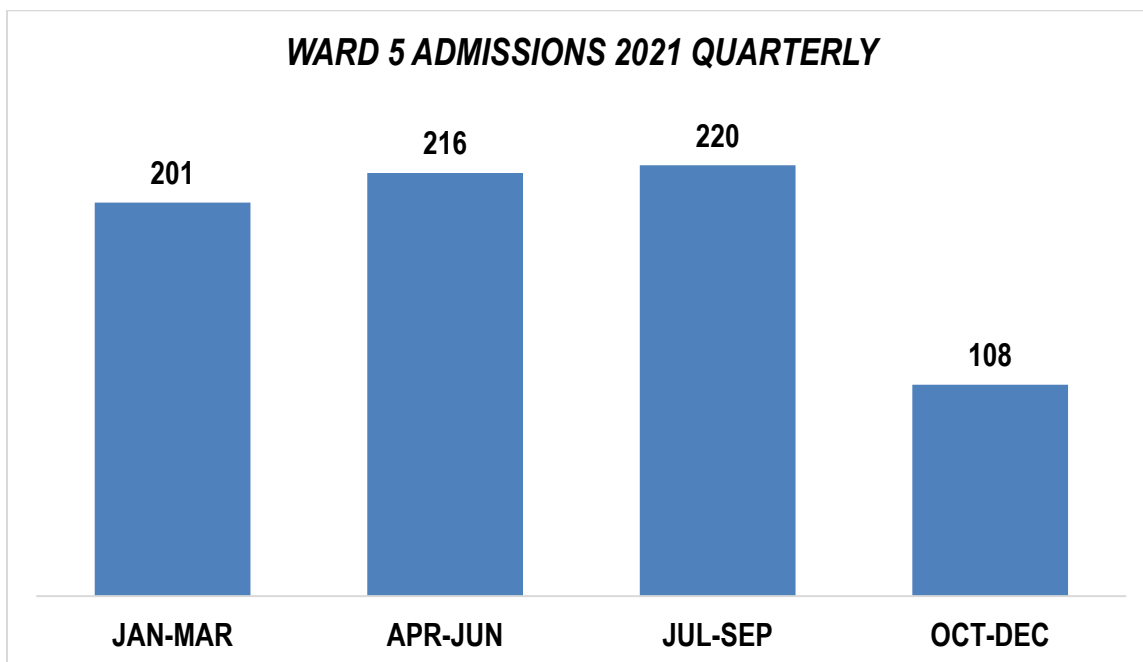
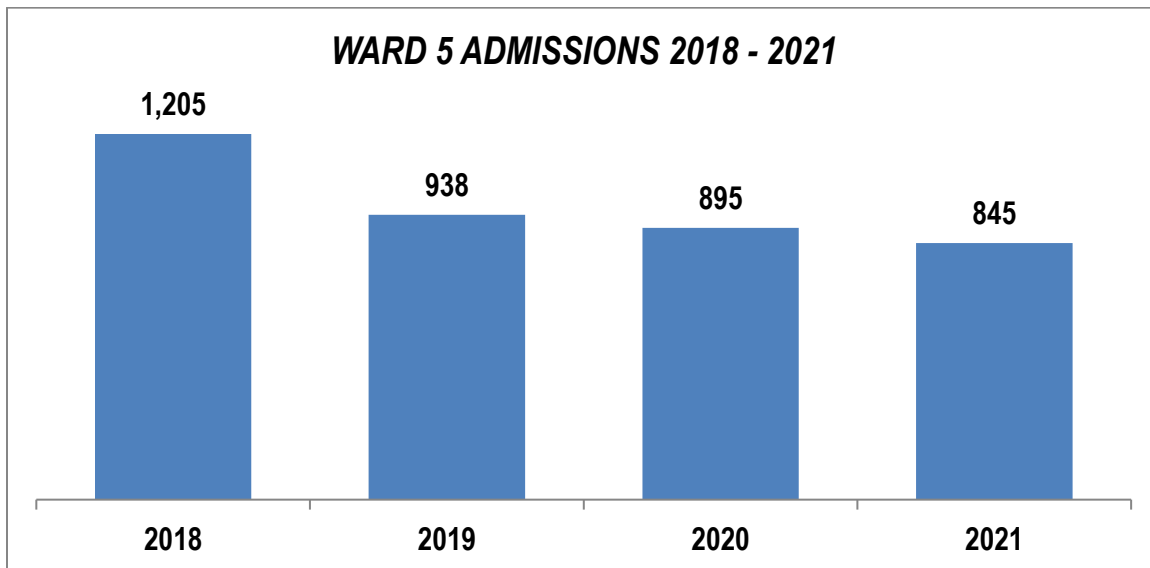


S/N	WARD 4 TOP 5 DIAGNOSES	NO
1	Pneumonia	120
2	Hypertension	94
3	Anaemia	91

4	Diabetic	88
5	Malaria	70

## WARD 5: ANTENATAL WARD

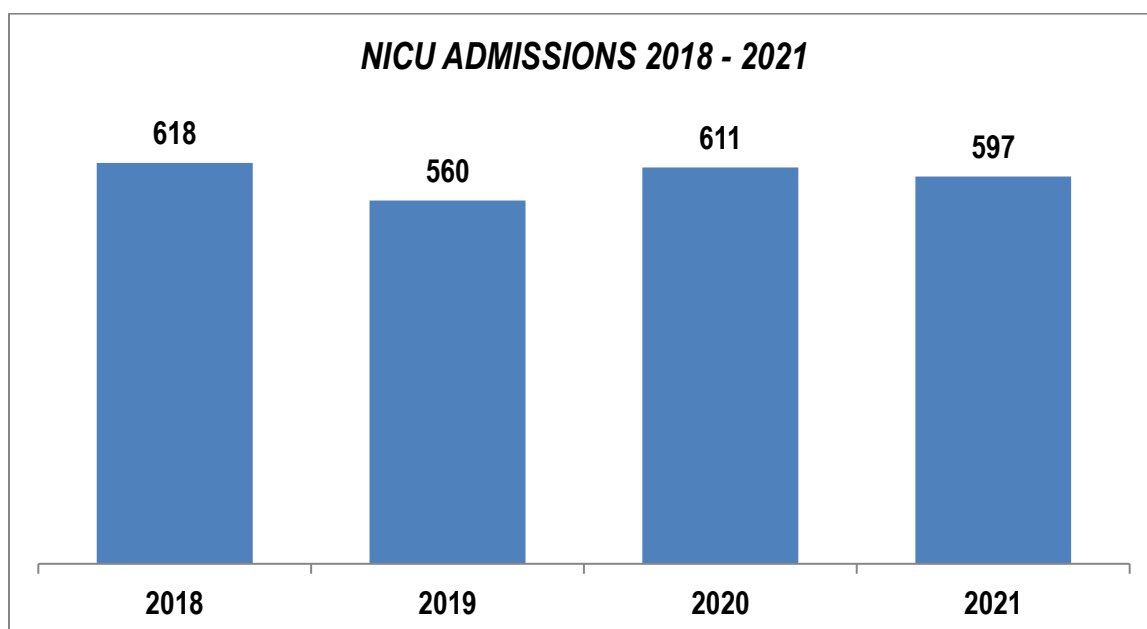
Ward 5 is responsible for admission of female patients with gynaecological conditions and for female patients prior to delivery.

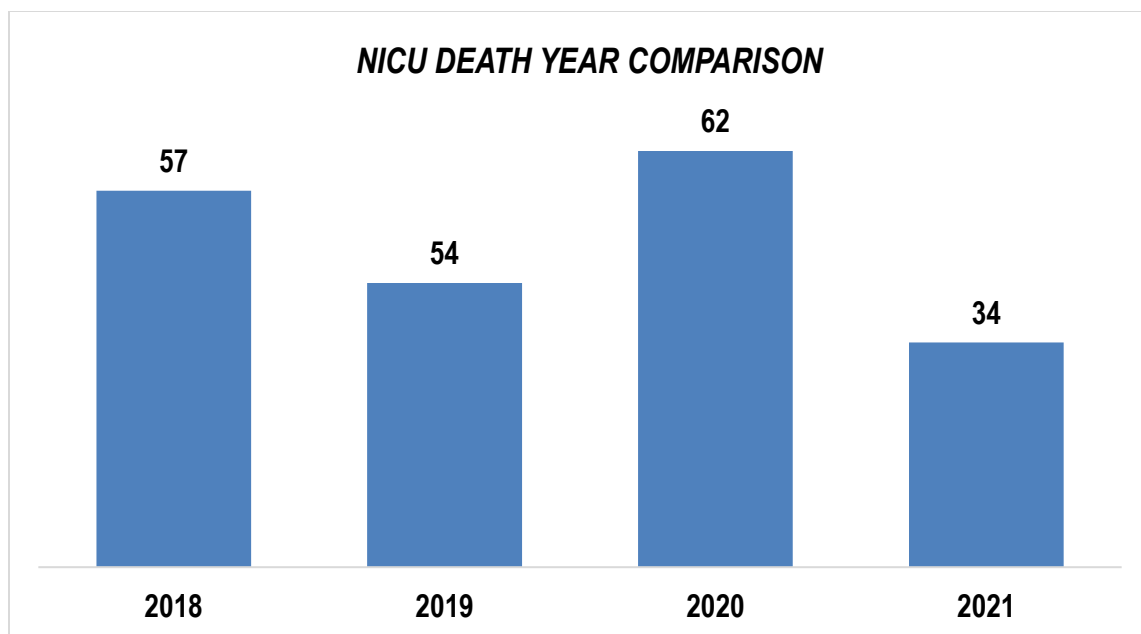




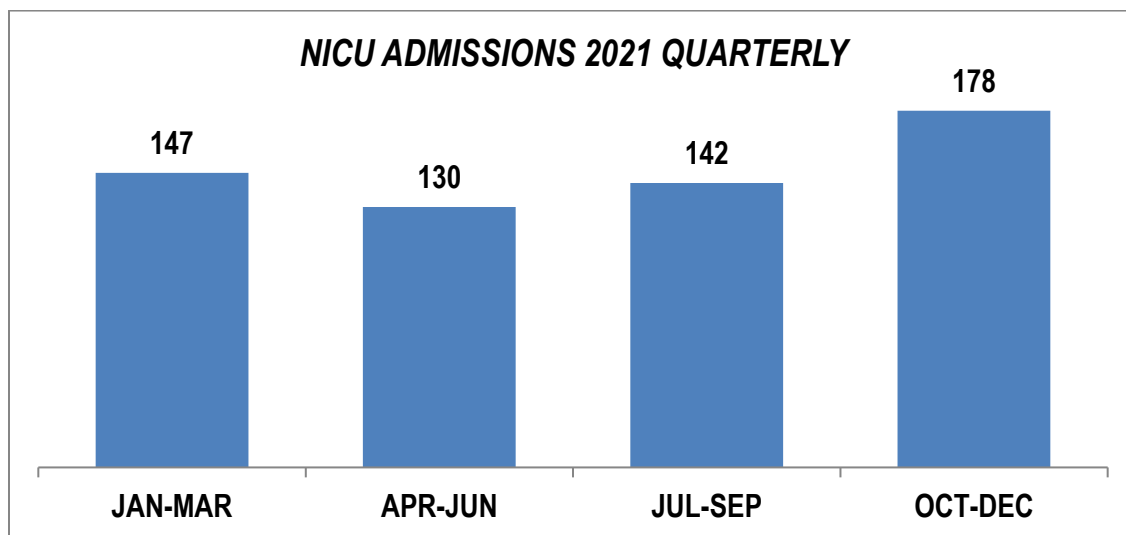
S/N	WARD 5 DISEASES	NO
1	Gynaecological disease	232
2	Abortion complication	142
3	Hypertension	97
4	Malaria	86
3	Ectopic Pregnancy	32

### NEONATAL INTESIVE CARE UNIT (NICU)





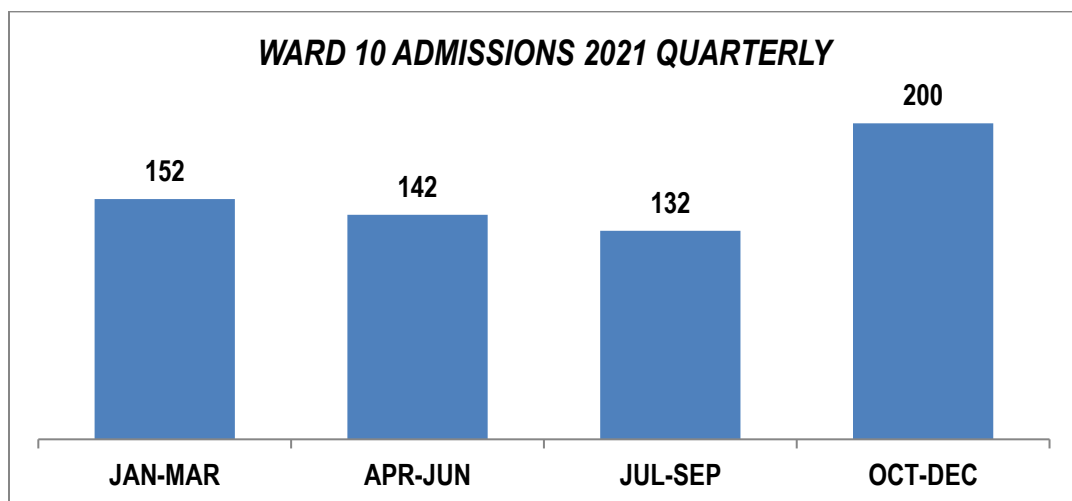
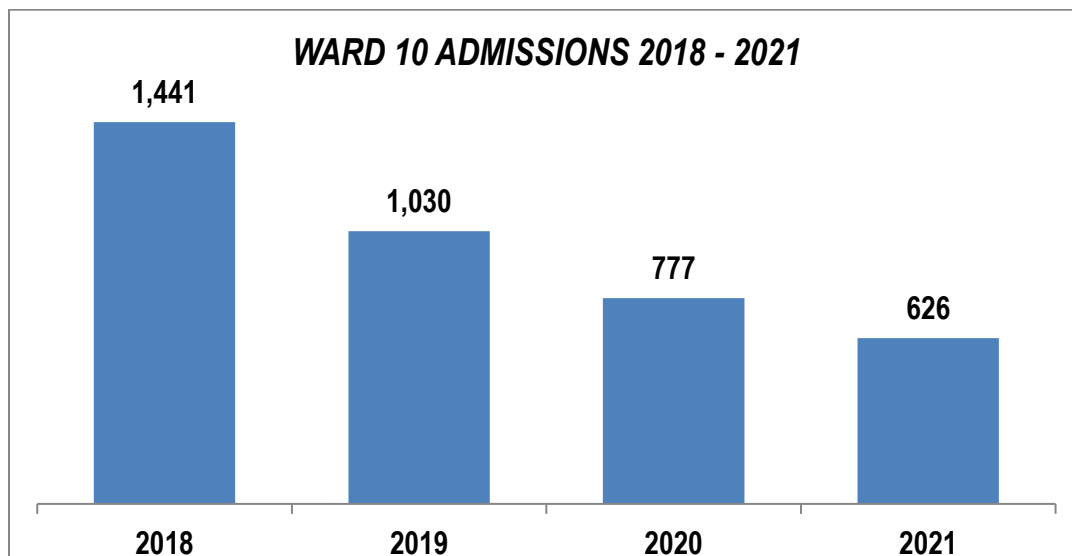
**Comment:** In January 2021, our new NICU with modern equipment like Incubators, Baby-CPAP, baby warmers and others has been opened officially. In 2021, deaths on NICU have decreased by 45% compared to 2020. It is likely that quality patient care with high-end equipment on the new NICU has allowed the death rate to decrease rapidly.



S/N	NICU TOP 5 DISEASES	NO
1	Premature and Low Birth Weight	192
2	Sepsis	84

3	Jaundice	72
4	Birth Asphyxia	69
5	Congenital Malformation	37

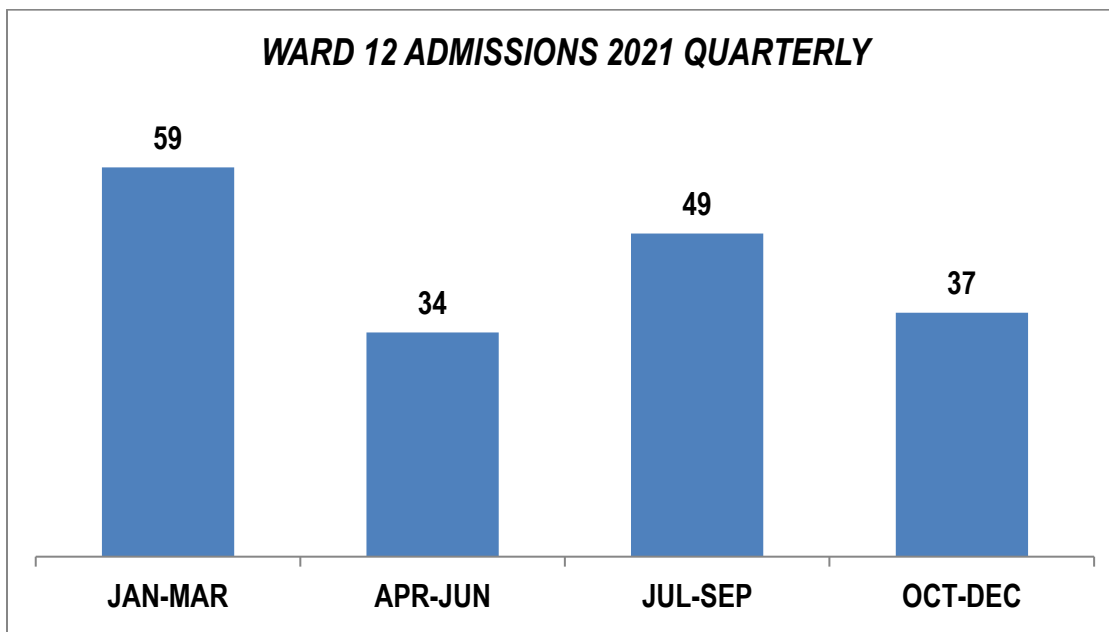
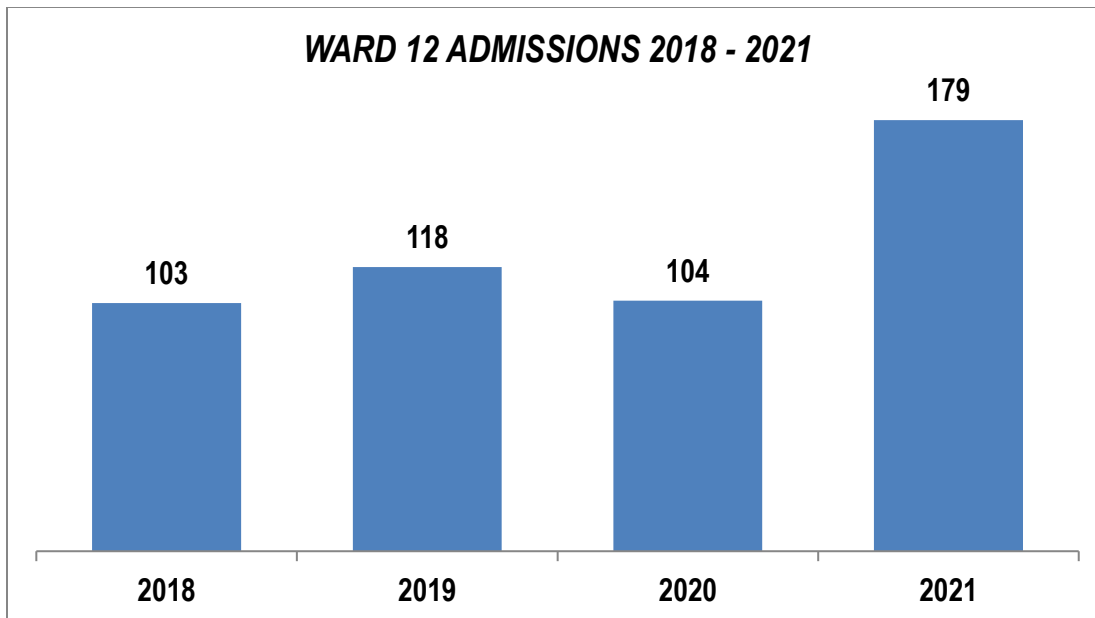
## WARD 10: PAEDIATRIC WARD



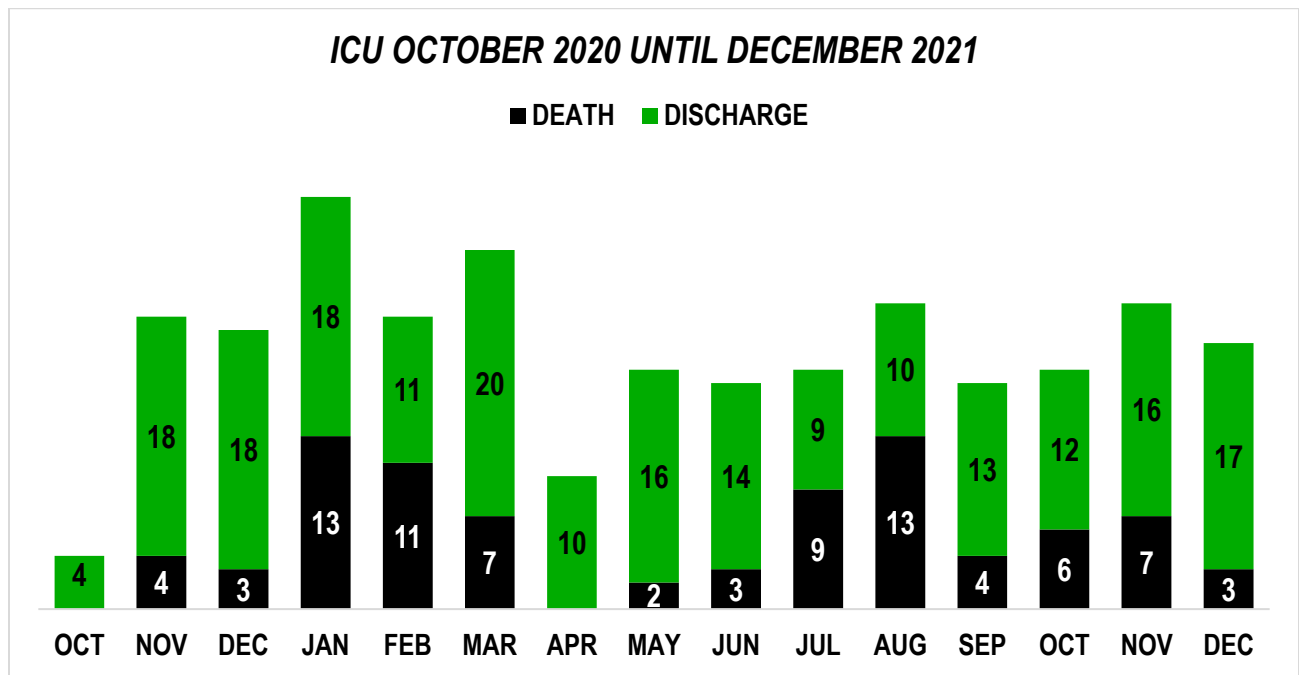
S/N	WARD 10 TOP 5 DISEASES	NO
1	Septicaemia	205
2	Malaria	102
3	Pneumonia	92

4	Diarrhoea	84
5	Anaemia	65

## WARD 12: PRIVATE WARD



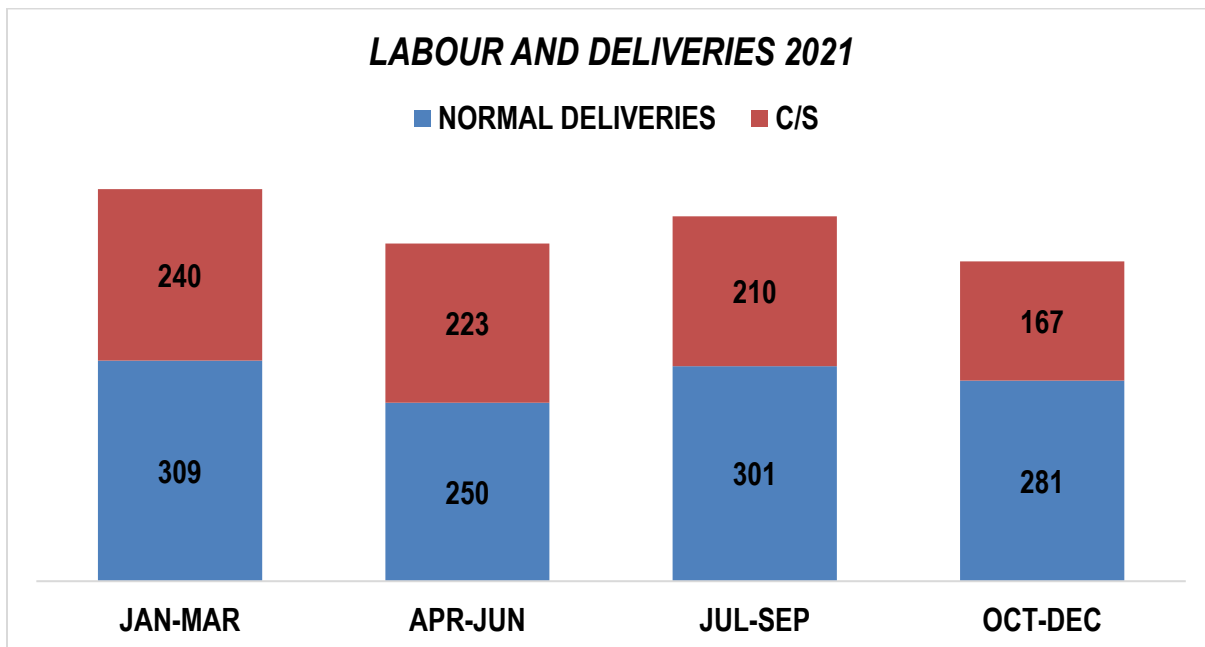
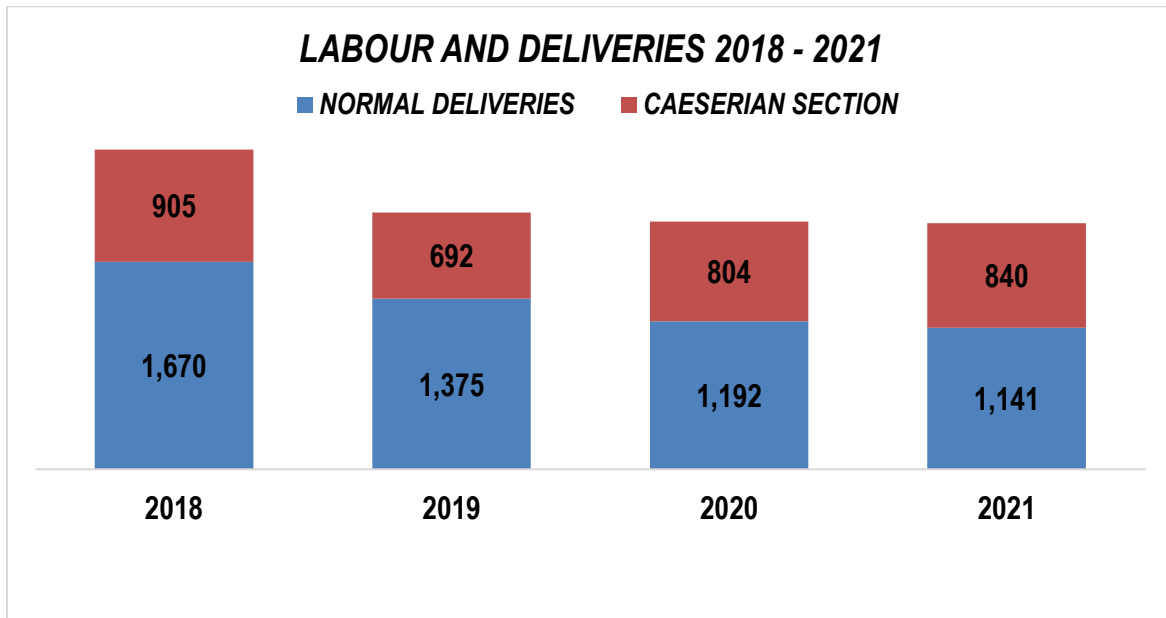
## INTENSIVE CARE UNIT-ICU



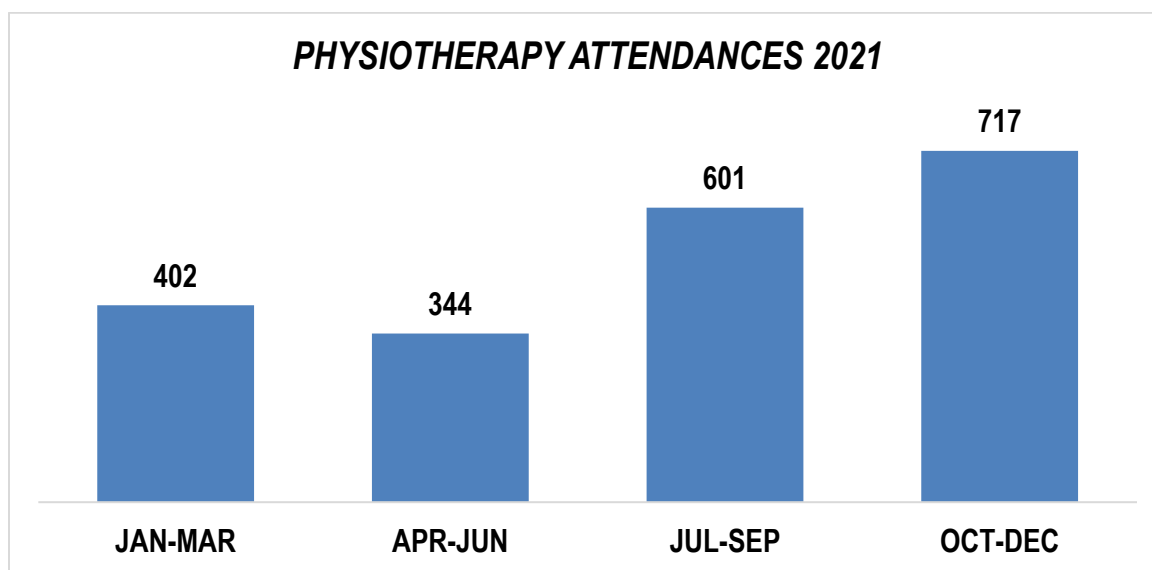
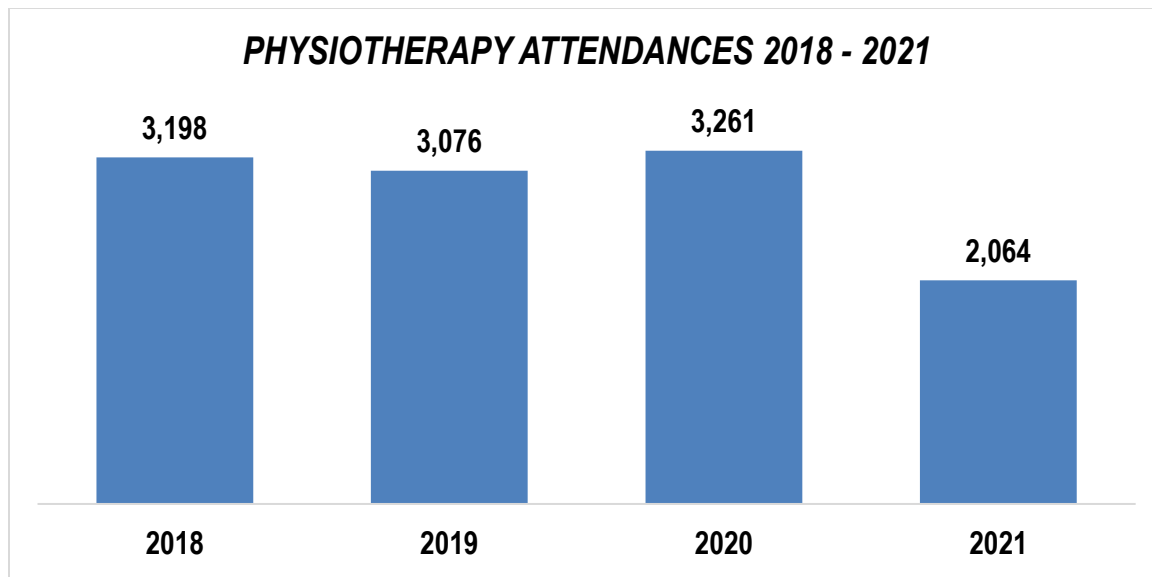
**Comment:** Our new ICU was opened in October 2020. The graph shows the numbers of patients monthly up to the end of 2021. The number of deaths was high during the second and third wave of patients with Covid 19 (January – March and July – September 2021).

S/N	ICU TOP 5 DISEASES	NO
1	Pneumonia	73
2	Chronic kidney diseases	31
3	Hypertension	21
4	Diabetic	15
5	Traumatic Brain Injury (TBI)	11

## WARDS 7 & 8: LABOUR AND POST-NATAL WARDS



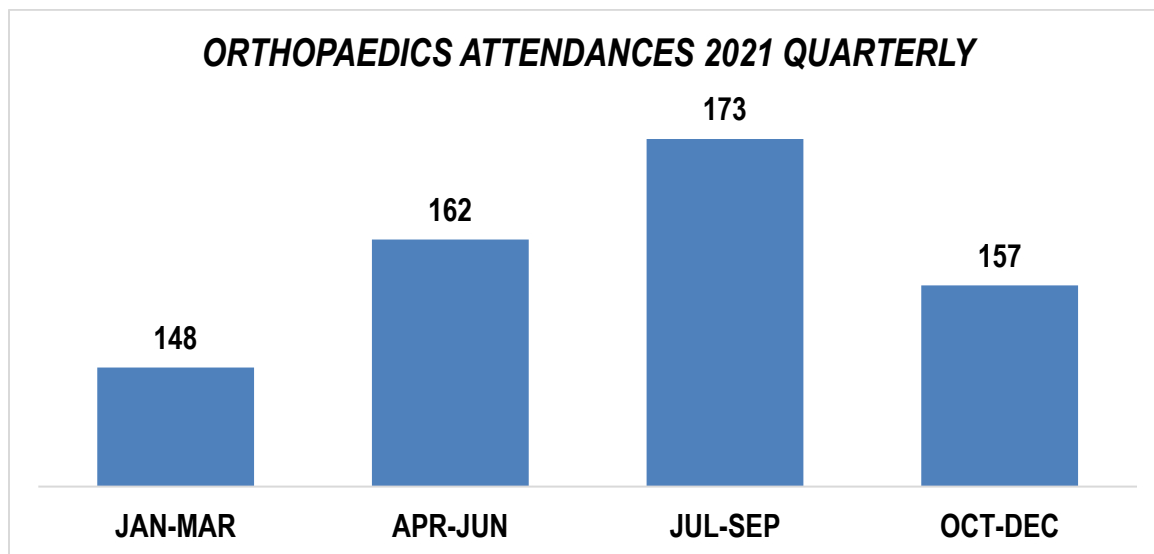
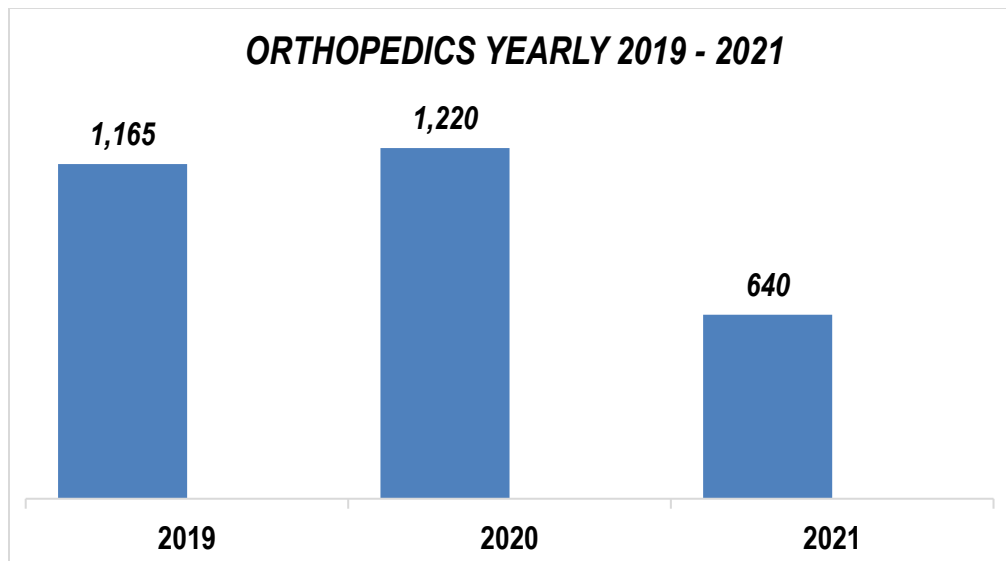
## PHYSIOTHERAPY DEPARTMENT



**Comment:** Our physiotherapy department has been renovated from February until June 2021. During that time, the number of patients was low due to shortage of rooms.

After the renovation, we managed to install modern equipment such as special physiotherapy benches, therapeutic ultrasound machine, electrotherapy machine and others.

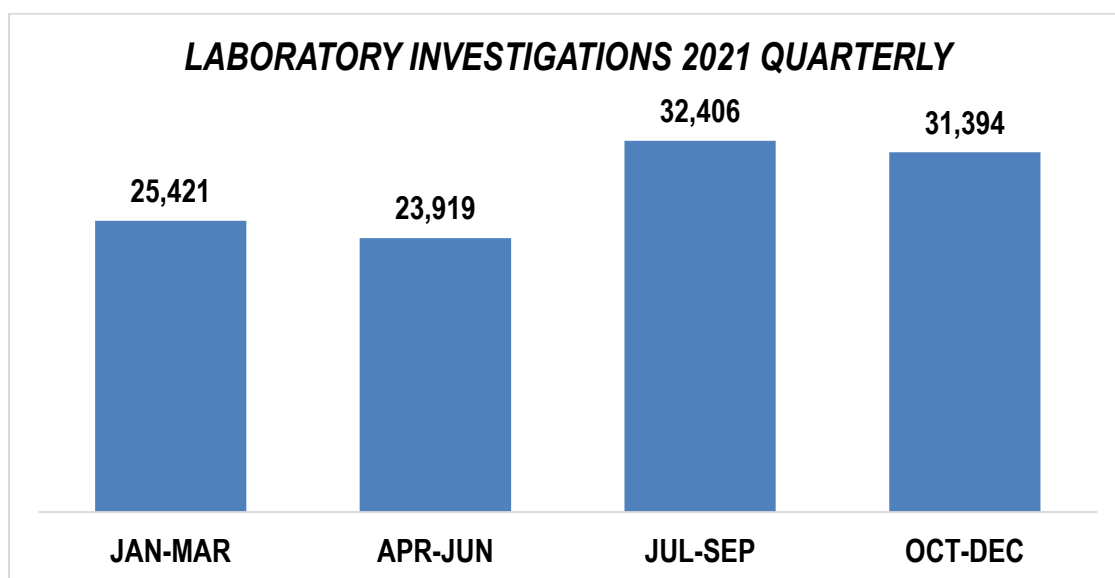
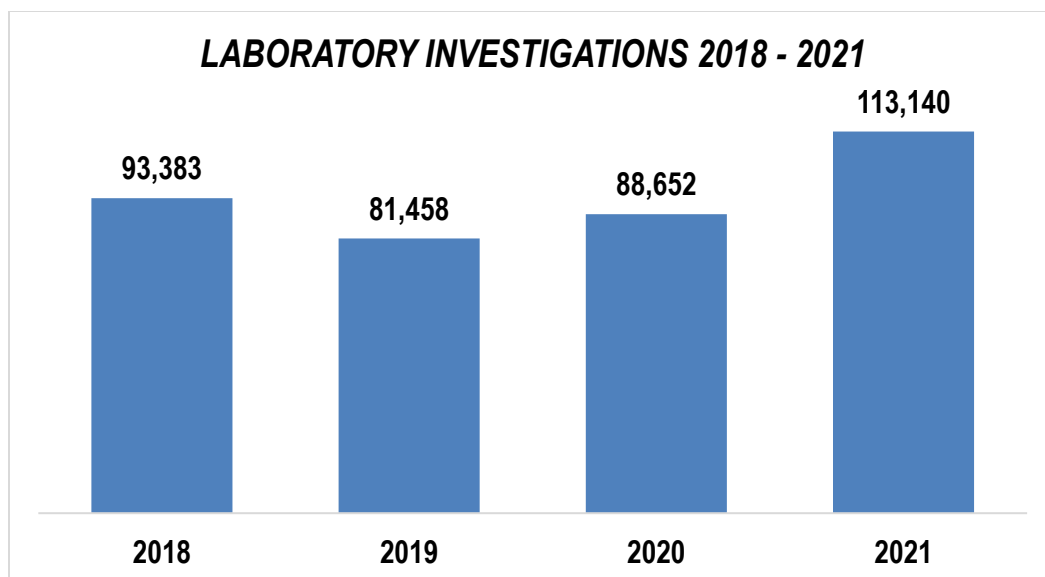
## ORTHOPEDICS UNIT



## LABORATORY DEPARTMENT

St. Benedict Ndanda Referral Hospital Laboratory (SBNRHL) has 6 sections, namely Haematology, Blood Transfusion, Parasitological, Clinical chemistry, Serology and Microbiology.





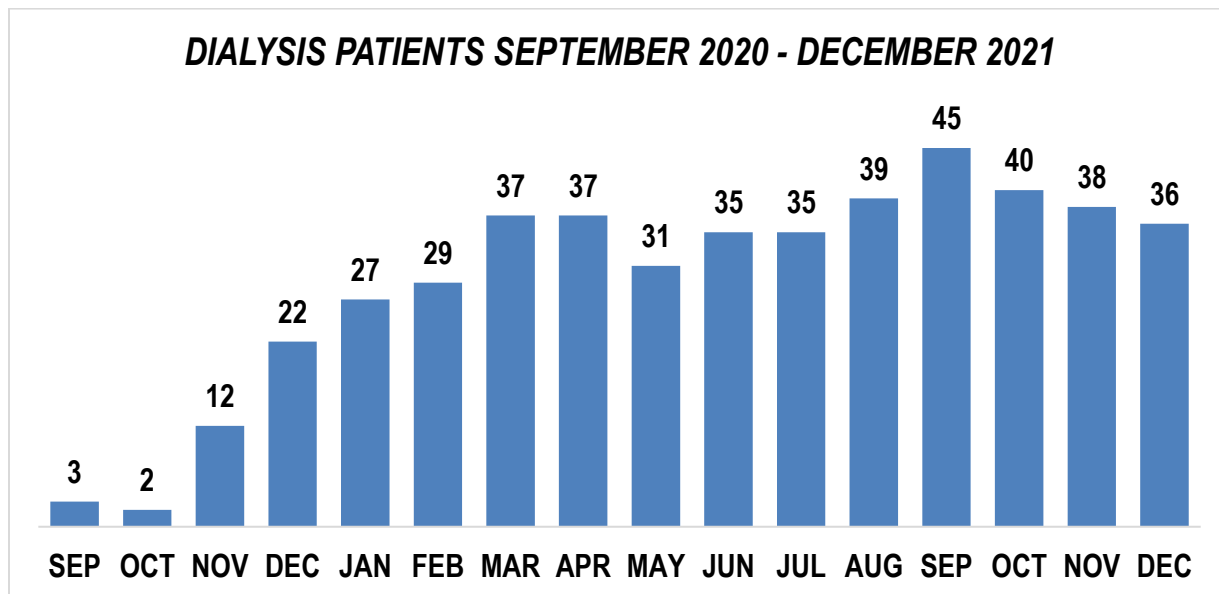
PARASITOLOGY	TESTS	TOTAL
	MRDT	11,464
	Blood Slide	2,201
	Urine Chemistry	10,744
	Urine Microscopy	10,453
	Stool Analysis	1,421
	<b>Total</b>	<b>36,283</b>

<b>BLOOD TRANSFUSION AND HEMATOLOGY</b>		
	Blood group	4,331
	X-Matching	2,173
	Coombs test	16
	HB	4,161
	FBP	16,373
	ESR	1,801
	Sickling tests	84
	Peripheral smear	64
	Bleeding time	92
	Ferritin	15
	Clotting time	92
	<b>Total</b>	29,202
<b>CLINICAL CHEMISTRY</b>		
	ALT	776
	AST	764
	UREA	3,049
	URIC ACID	1,389
	SERUM CREATININE	5,470
	GLUCOSE	8,841
	CHOLESTEROL	1,126
	BILIRUBIN DIRECT	312
	BILIRUBIN TOTAL	328
	TOTAL PROTEIN	120
	CRP	913
	TESTOSTERONE	126
	PSA	454
	FSH	208
	TSH	200
	T4	302
	T3	286
	PROLACTIN	1,71
	B-HCG	140
	PROGESTERONE	189
	CALCIUM	52

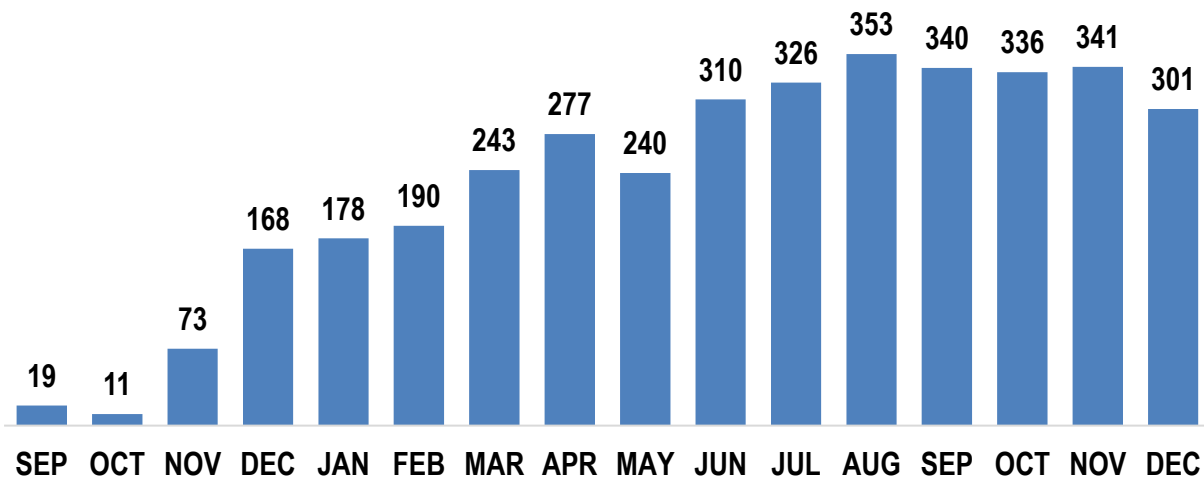
	URINE CREATININE	3
	UREA -URINE	0
	CSF GLUCOSE	2
	CSF PROTEIN	2
	ALP	25
	MAGNESIUM	5
	ALBUMIN	47
	ALLERGY	36
	LUTENIZING HORMONE	120
	ARTERIAL BLOOD GAS	17
	RHEUMATOID FACTOR	87
	TROPININ I	75
	LDL CHOLESTEROL	298
	TRIGLYCERIDES	138
	HDL CHOLESTEROL	259
	ELECTROLYTES	1,226
	<b>Total</b>	27,556
<b>SEROLOGY AND CD4</b>		
	CD4	221
	HbA1c	615
	PT (INR)	135
	SYPHILIS	865
	UPT	1,052
	HBsAg	834
	CrAg	31
	HCV	460
	HVL (GENE EXPERT)	487
	EID (DBS) (GENE EXPERT)	447
	H. PYLORI	2,592
	<b>Total</b>	7739
<b>MICROBIOLOGY AND TB</b>		
	CULTURE AND SENSITIVITY	817
	GRAM STAIN	232
	WET PREPARATION	220
	INDIA INK	7
	CELL COUNT	84
	SKIN SCRAPING	209

	SEMINAL ANALYSIS	50
	ACID FAST (AFB)	115
	CYTOLOGY	4
	GENE XPERT (MTB/RIF)	870
	<b>Total</b>	2,608
<b>BLOOD DONATION ACTIVITIES</b>		<b>TOTAL</b>
	Blood Transfusion	1,240
	Blood Donation	1,125

## DIALYSIS DEPARTMENT

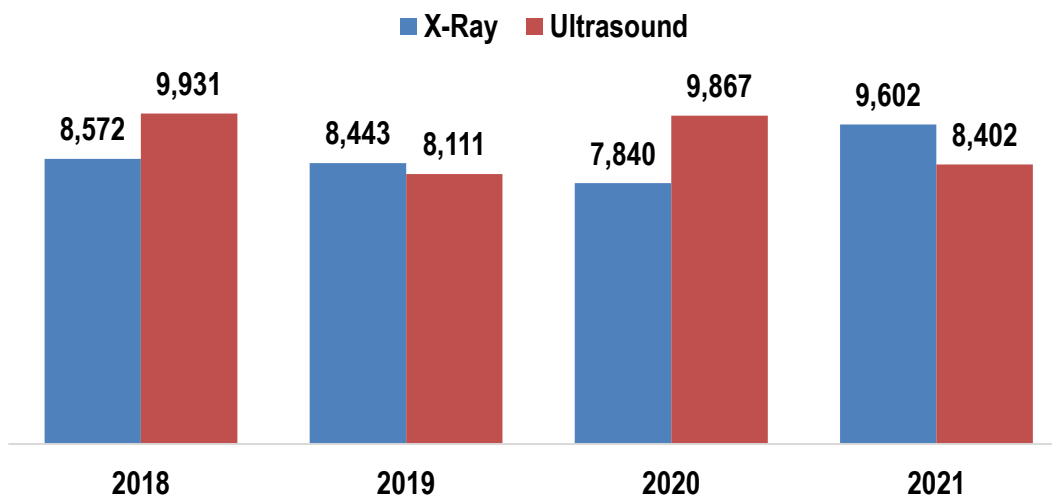


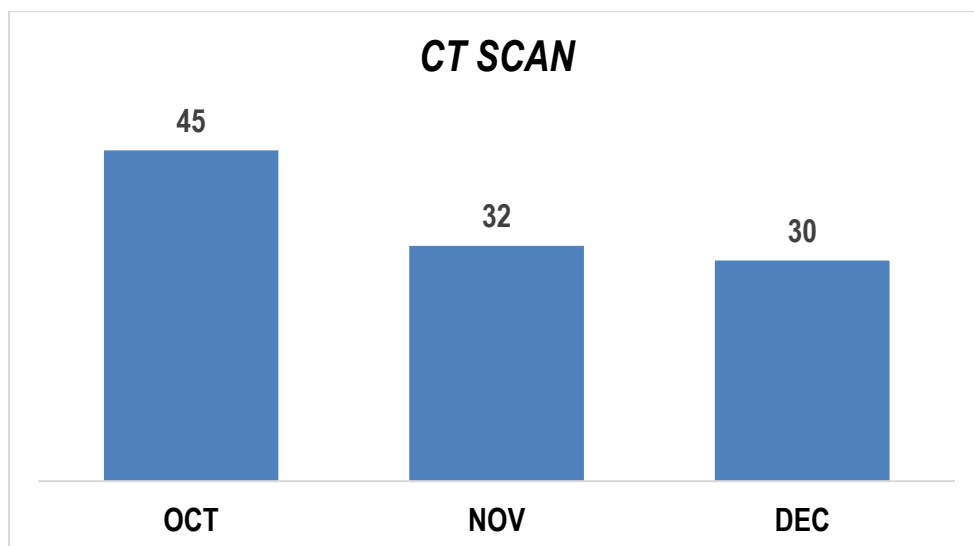
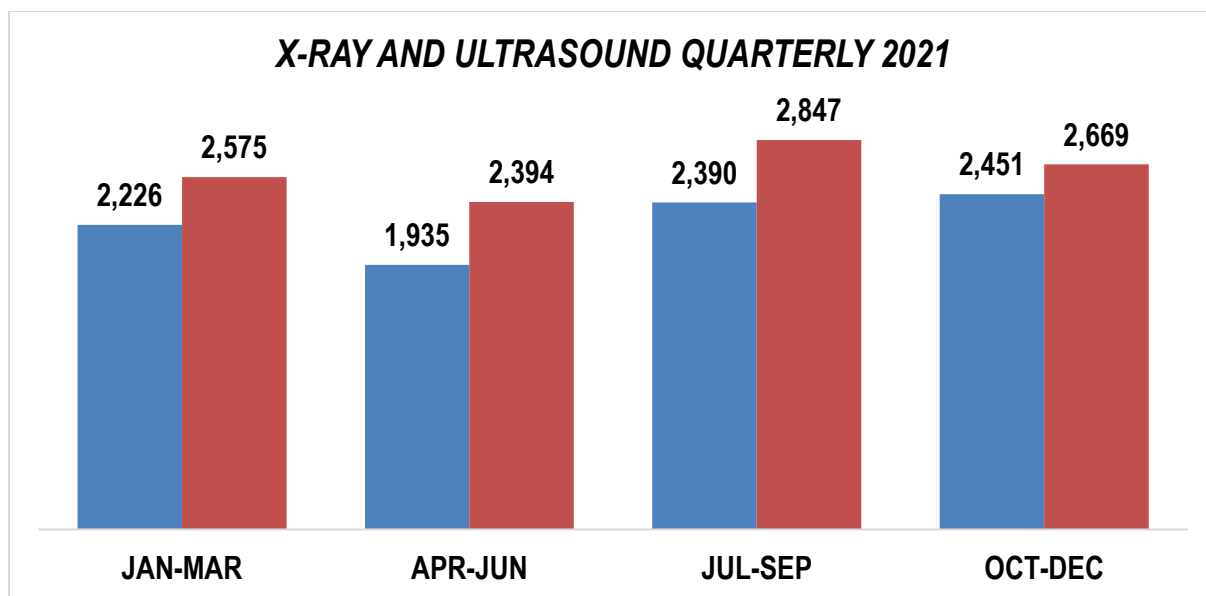
### HAEMODIALYSIS SESSIONS SEPTEMBER 2020 - DECEMBER 2021



### RADIOLOGY & IMAGING DEPARTMENT

#### X-RAY AND ULTRASOUND 2018 - 2021





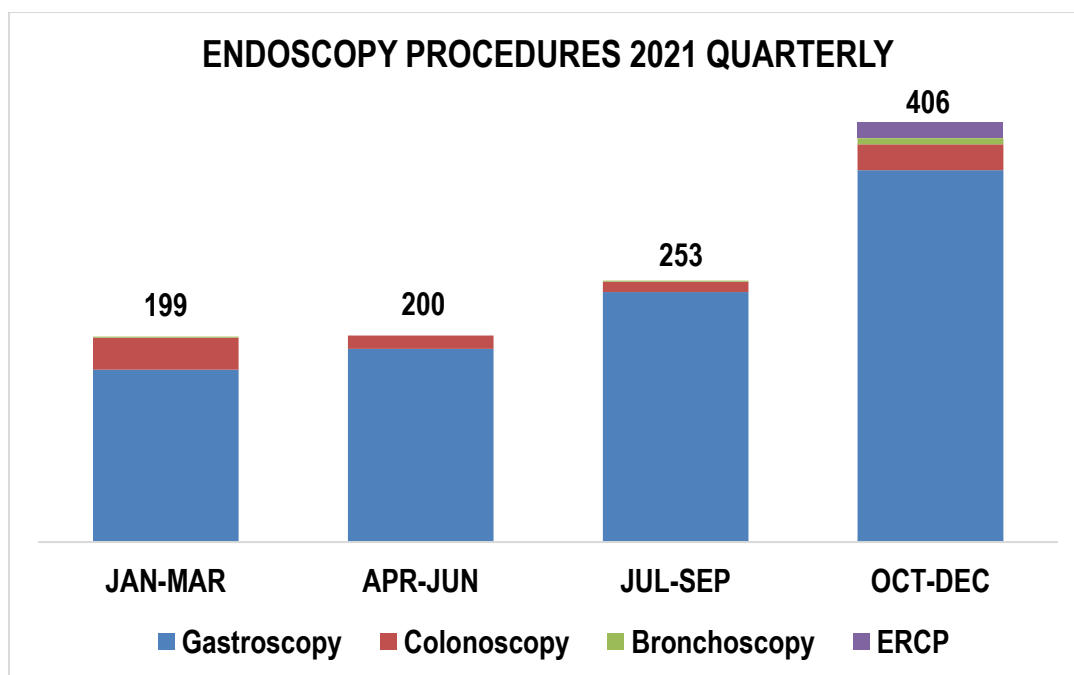
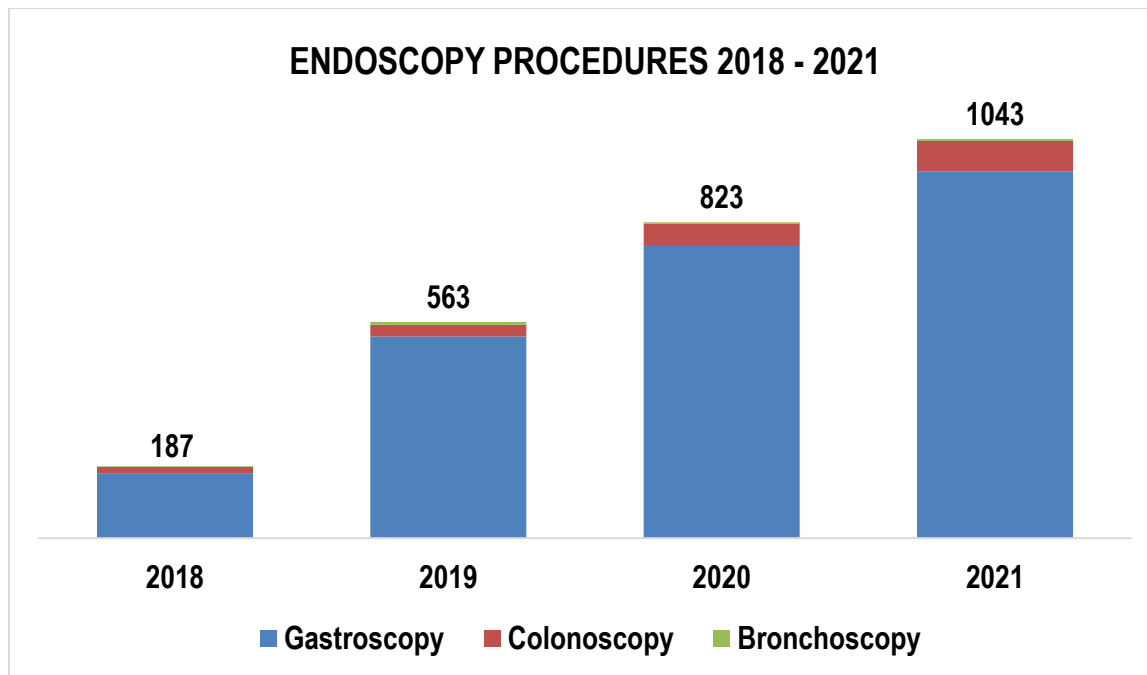
**Comment:** CT Scan machine was installed in September 2021, application training was provided in October 2021. Since that time, the investigation is available for cash patients. For NHIF patients, the investigation was not yet covered by end of the year 2021, but we expect to get approval early in 2022.

## ENDOSCOPY DEPARTMENT

Endoscopy is a nonsurgical procedure used to examine a person's digestive tract (gastroscopy and colonoscopy) or the lungs (bronchoscopy).

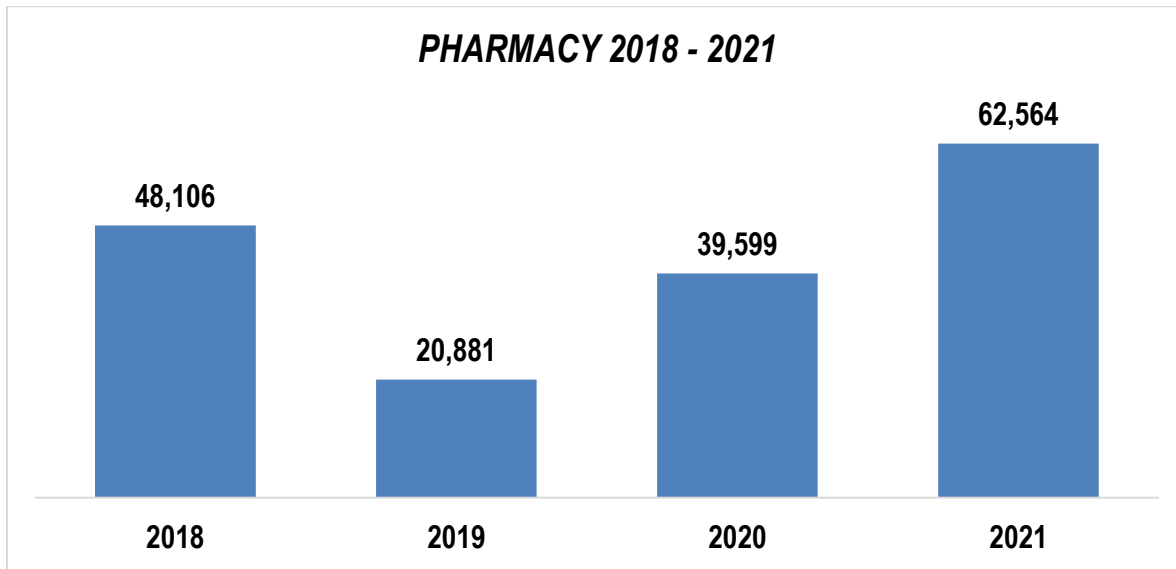
During gastroscopy, a flexible tube (endoscope) is inserted into the oesophagus, stomach and duodenum.

During colonoscopy, the tube is entered into the rectum, sigmoid colon and colon. For bronchoscopy, the endoscope is entered into the trachea and bronchi.

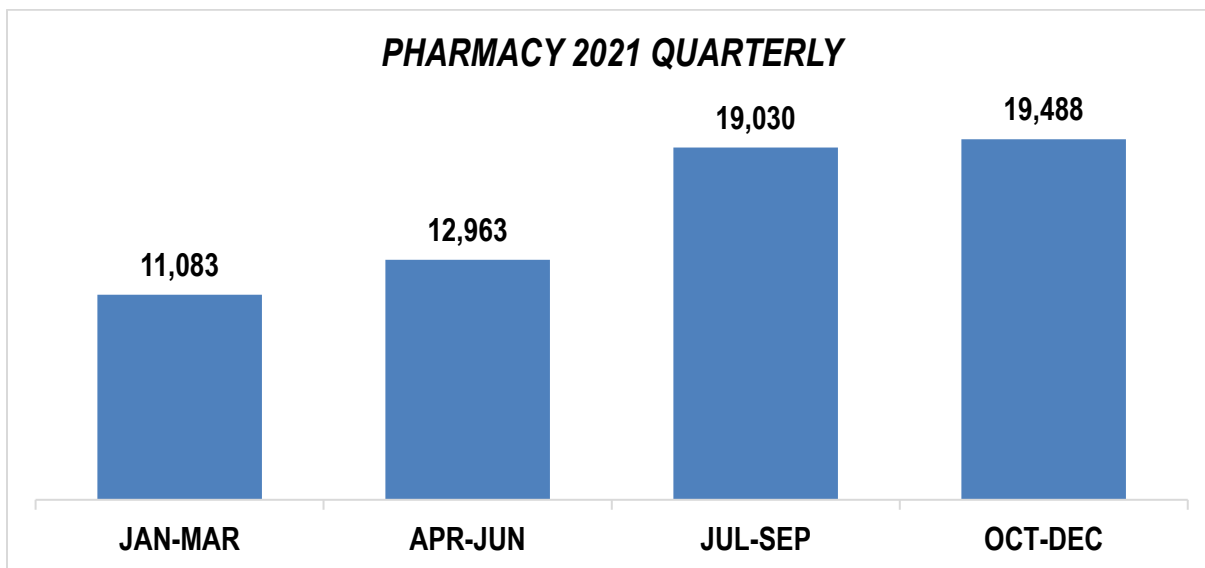


**Comment:** 14 ERCPs have been performed by Senior Experts from Germany during 2 endoscopy camps in October and November.

## PHARMACY

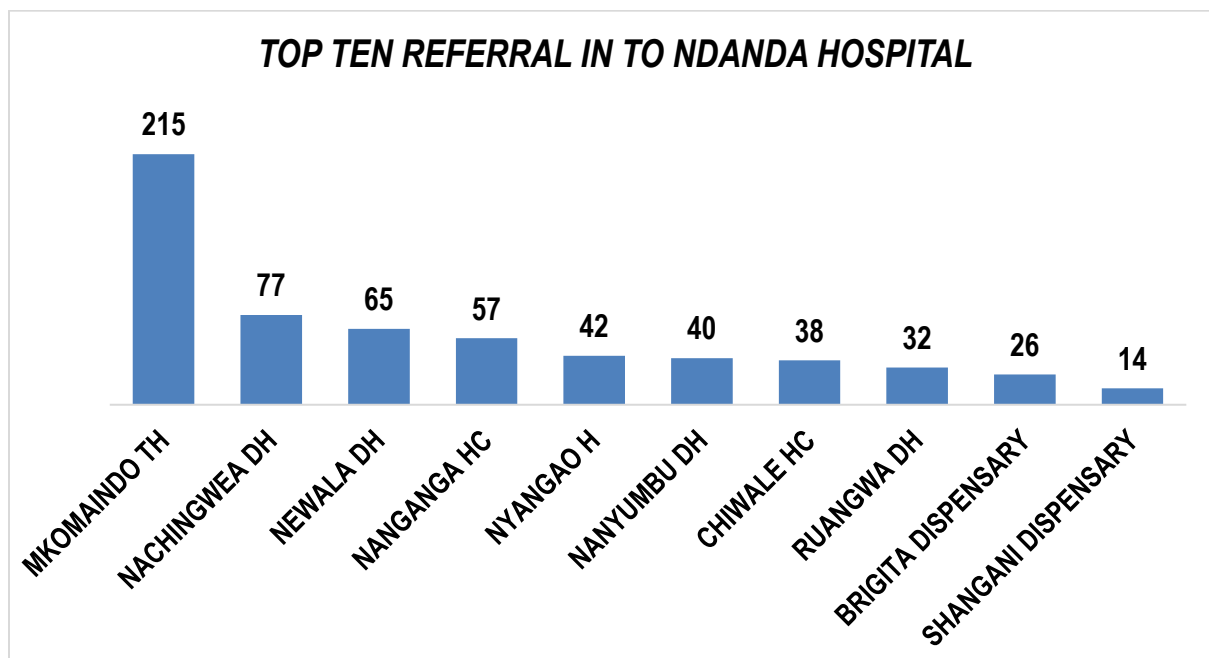
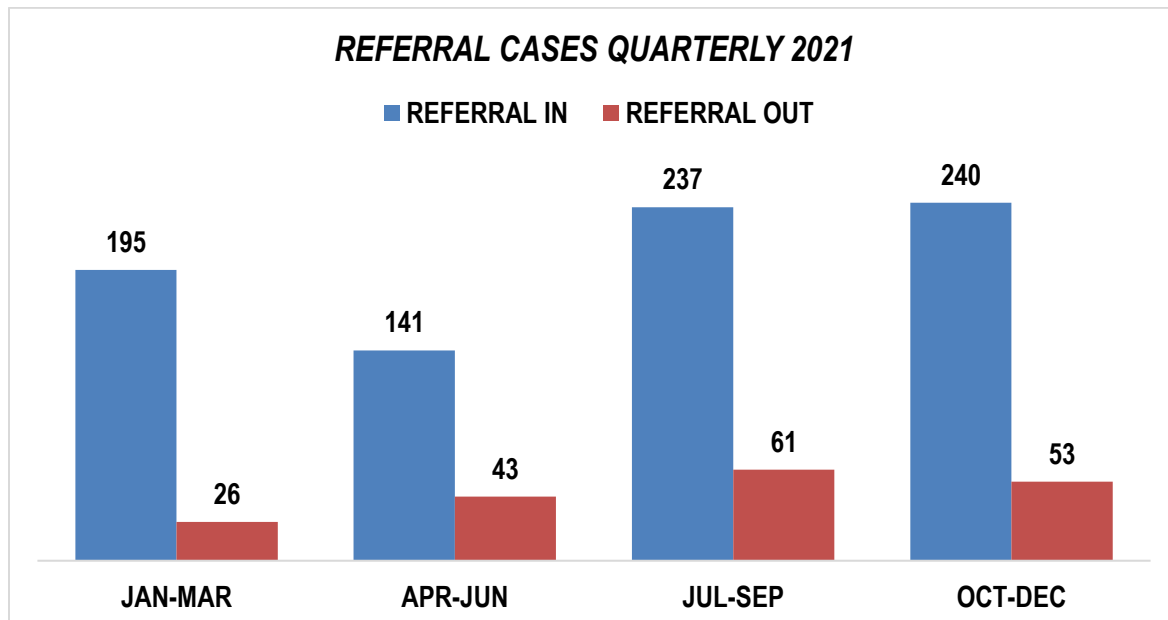


**Comment:** In 2019 and 2020 there was a problem with data collection through the electronic patient management system. Thus, the data recorded during these years underestimate the real number of clients.

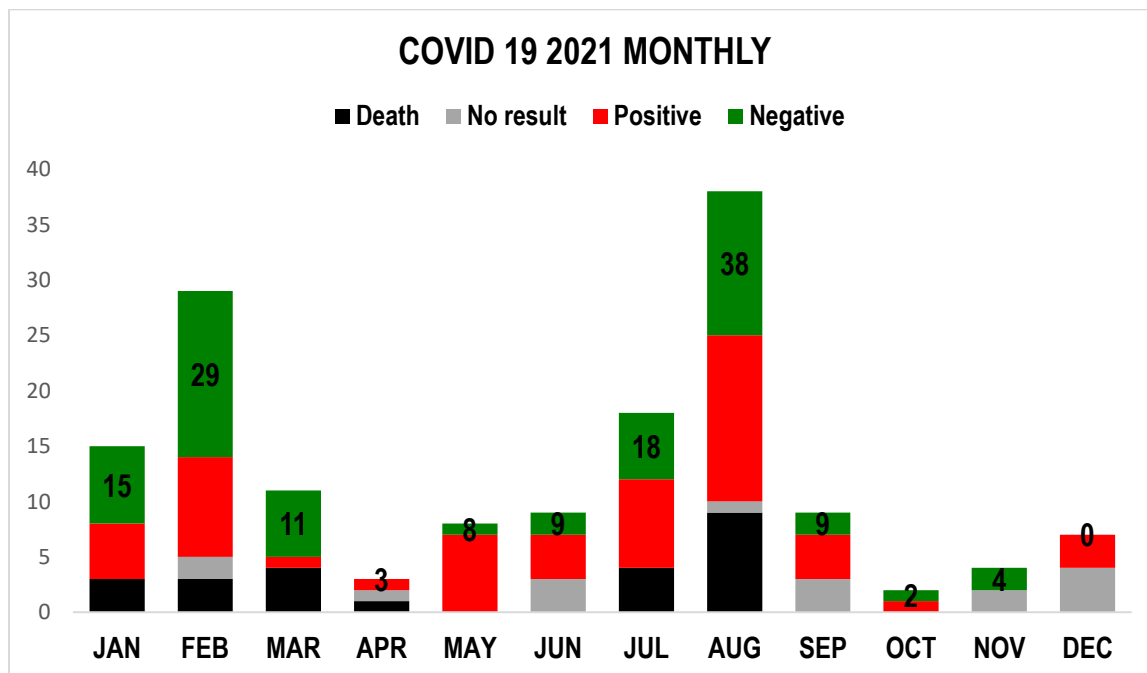
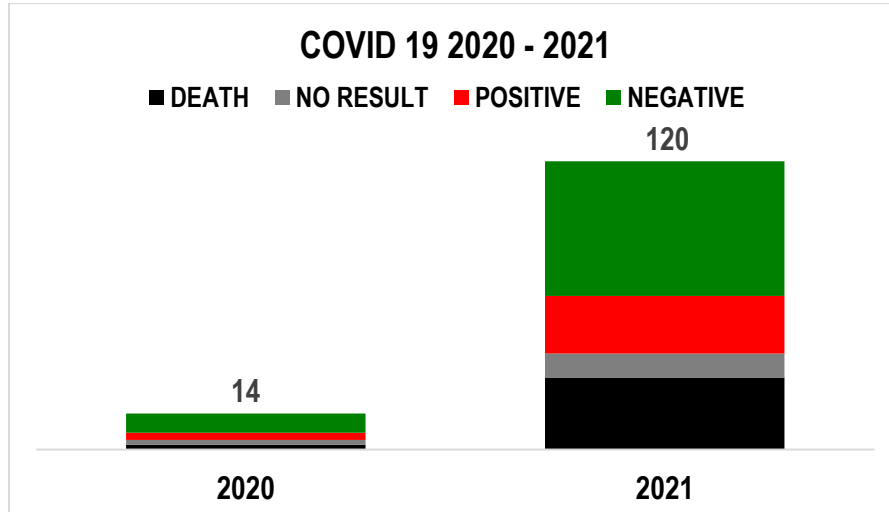


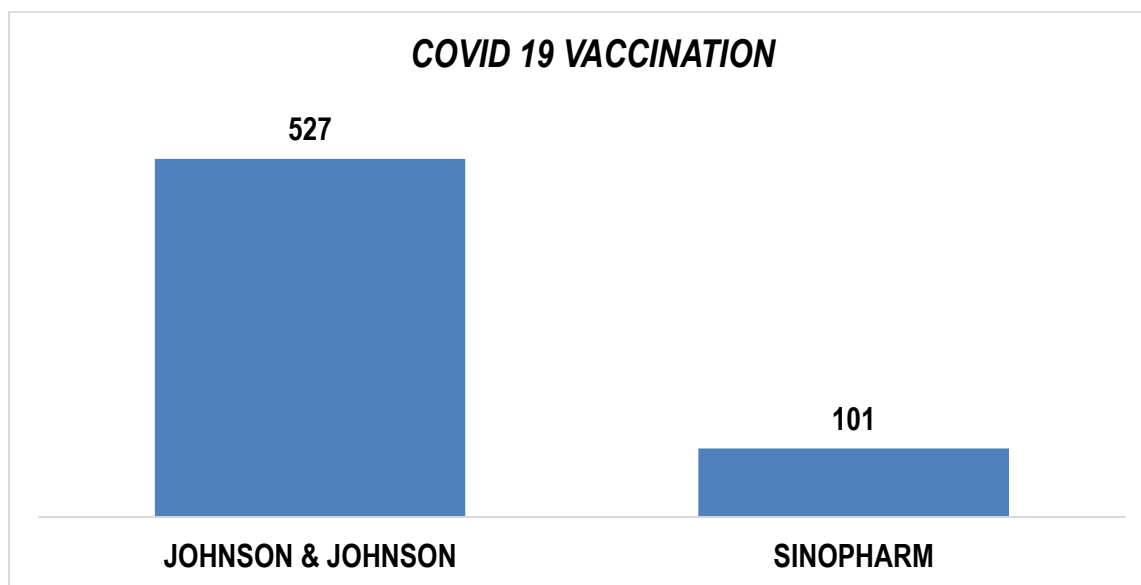
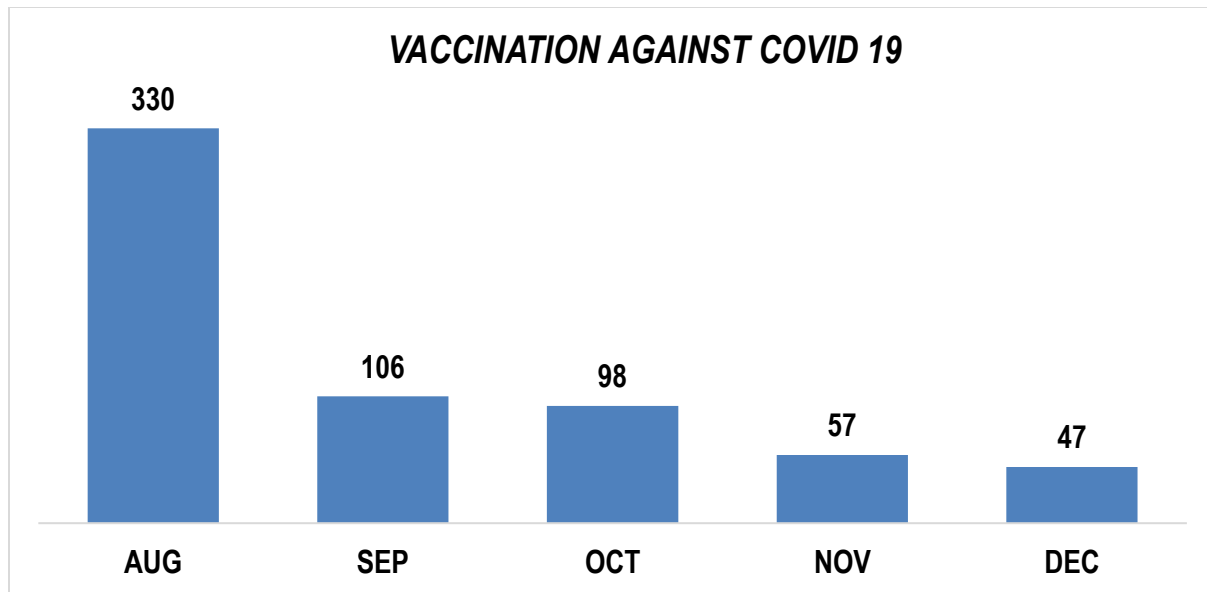


## REFERRAL CASES IN & OUT



## COVID 19



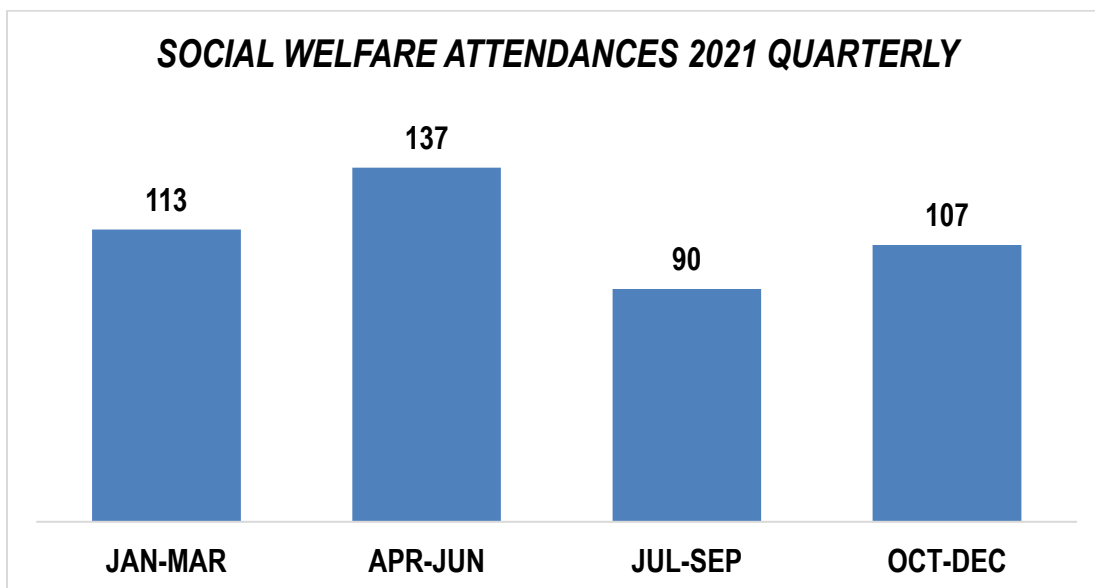
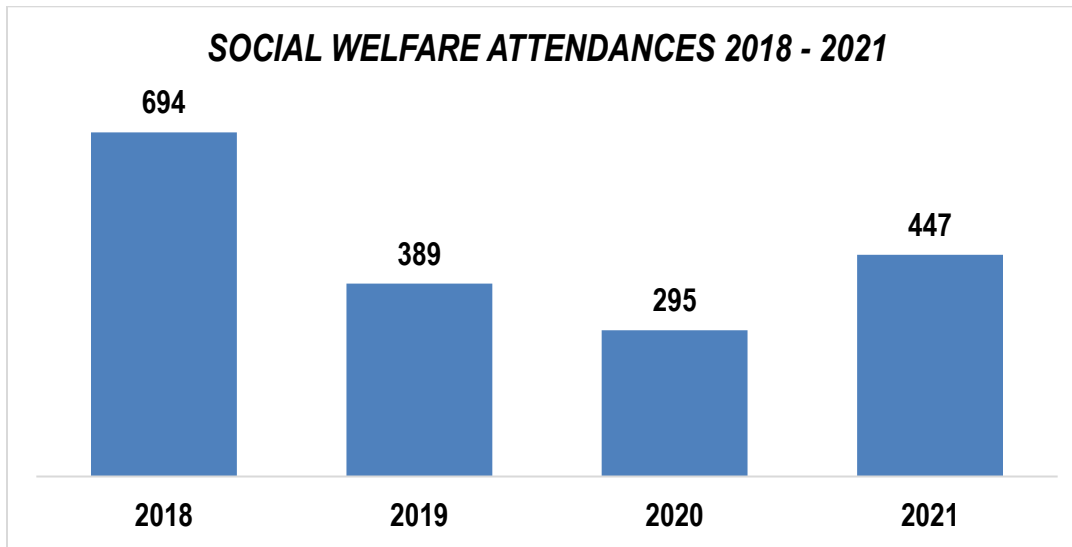


**Comment:** Vaccination against Covid 19 has been available in Tanzania since 4.8.2021. The vaccines were provided by the government and the service is free of charge for the patients. Most of our employees (70%) have been vaccinated.

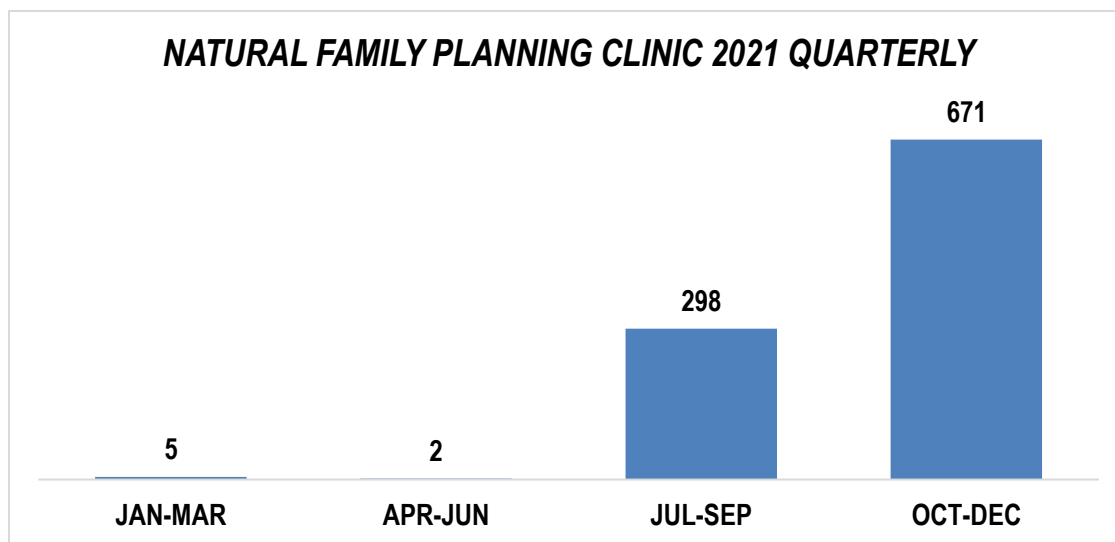
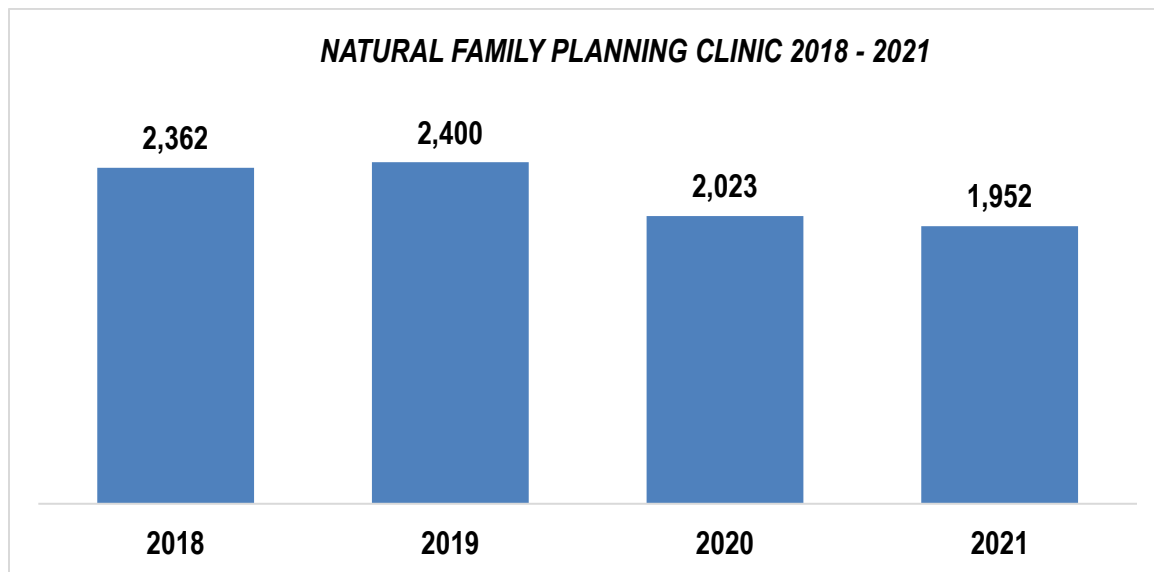
Advertising for the vaccination has been done by the government and by our clinicians in the hospital.

However, the number of clients who reported for the vaccination has been low. One of the reasons is likely to be fake news in the social media.

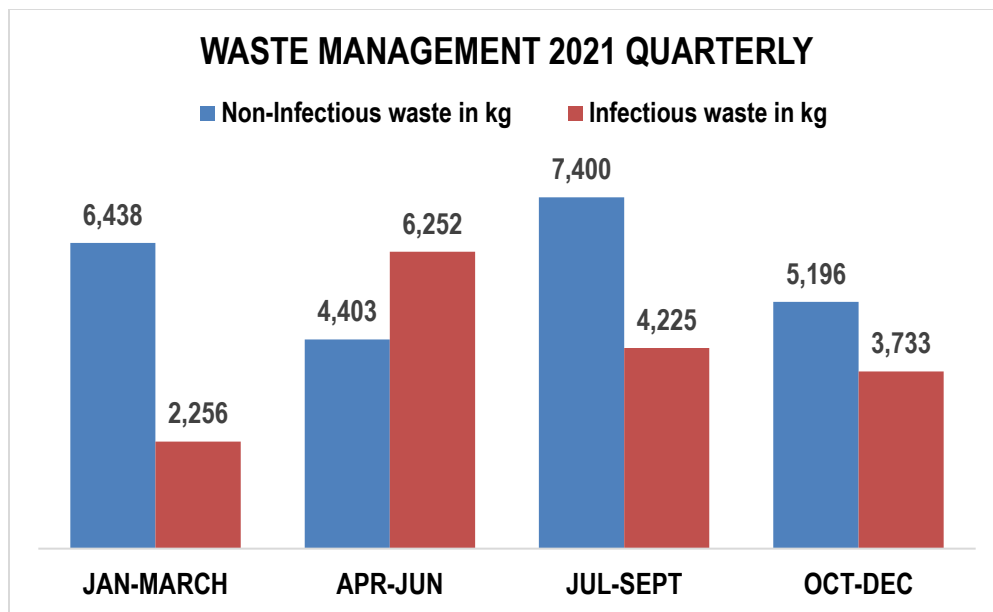
## SOCIAL WELFARE



## NATURAL FAMILY PLANNING CLINIC AND BILLING OVULATION METHOD (BOM) UNIT

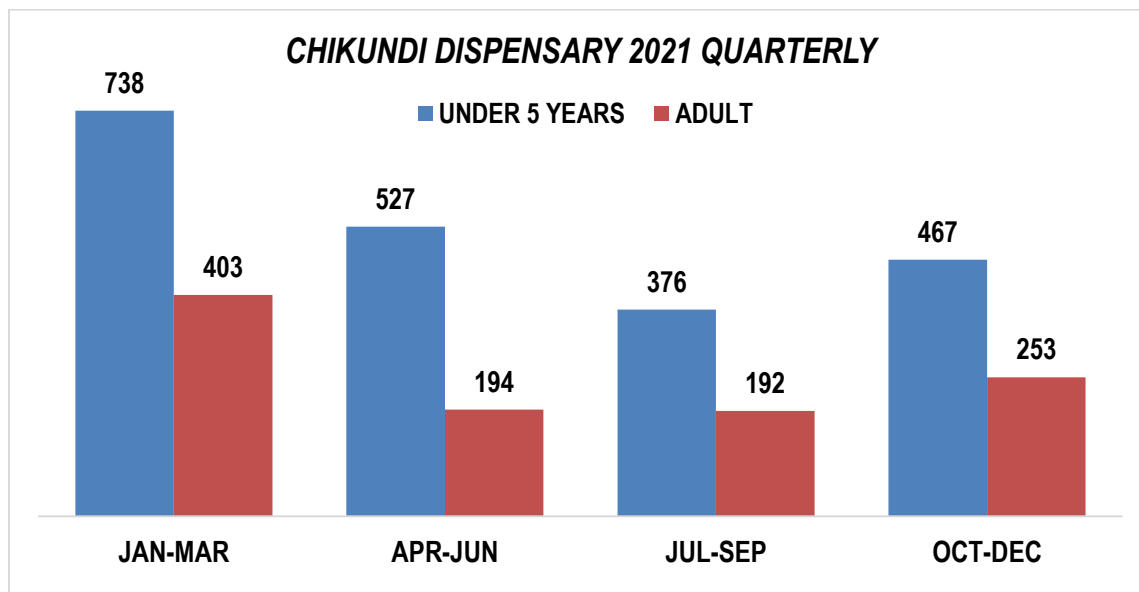


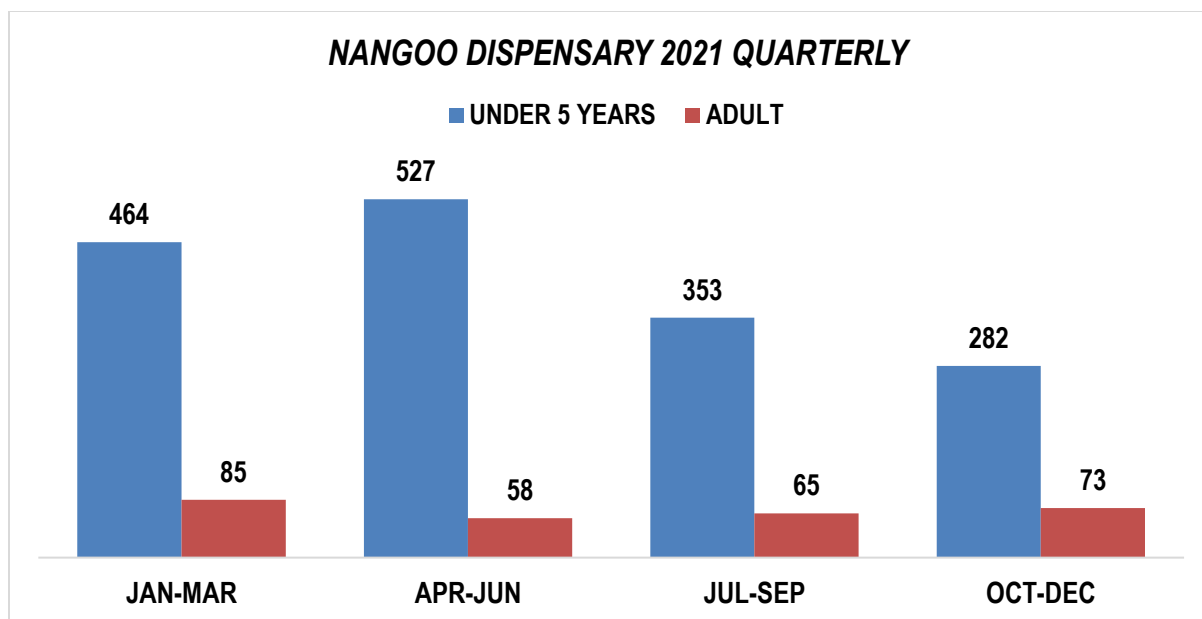
## WASTE MANAGEMENT



**Comment:** In our facility, infectious waste is burnt in the incinerator. Non-infections waste is deposited on our dumping ground.

## DISPENSARIES





## UNIT OF INFORMATION COMMUNICATION AND TECHNOLOGY (ICT)

In our hospital, we are using an electronic patient management system (eHMS). More than 130 computers and laptops are connected with the internal network. Our electronic patient management system manages registration of the patients, payment, laboratory and other investigations as well as their results, accounting, procurement and statistics. All data are stored on the hospital server.

# **NDANDA COLLEGE OF HEALTH AND ALLIED SCIENCES (NDANDA COHAS)**

## **INTRODUCTION**

Ndanda College of Health and Allied Sciences started on 22<sup>nd</sup> September 1930 by Dr. Sr. Thekla Stinnesbeck OSB with four years course for dispenser. During the Second World War in 1939 this school had to be closed.

In 1945, a 18-months course for village midwives started and in 1950 the Ministry of Health gave permission to commence a 2-years training for midwives. In 1965 the nursing training center started to offer a three years course for nurses grade B. Since its establishment, the school offered co-education training. In 1970 the two years training in midwifery was discontinued, from there on, nurses grade B were trained as midwives. In 1983, a one year pre-Nursing Course was introduced, which was discontinued in June 1993. In September 1994 a diploma course in Nursing started.

In 2012 certificate course was integrated. In March 2013, a 2-years upgrading course was established to enrolled nurses through e-learning. Due to changes of nursing curriculum on entry qualifications, certificate course was discontinued in 2017. In September 2018, in-service one year program awarding diploma in nursing and midwifery was introduced.

In October 2020, a three years Diploma course of Medical Laboratory Sciences introduced, and that led to change of the name from Ndanda School of Nursing to Ndanda College of Health and Allied Sciences (Ndanda COHAS), offering Medical Laboratory Technician (MLT) and Nursing and Midwifery Technician (NMT) programs.

## **VISION, MISSION AND CORE VALUES**

### **Vision**

To be a centre excelling in quality training of healthcare professionals, research, and consultancy services with conducive learning and working environment

### **Mission**

Advancing health and quality life of individuals and communities through innovative education in health and related fields basing in quality professional training, research and service to the public



## Core Values

Towards achieving its Vision and fulfilling its Mission, the Ndanda COHAS subscribes to the following values:

1. Respect, protect and promote life from conception to natural death.
2. Value commitment, dedication, discipline, self-esteem, quality services, love and respect for patients.
3. Care all patients equally regardless of race, education, tribe, religion, and gender, socio- economic and physical status.

## PERFORMANCE REPORT

### Academic Matters

The college continued to fulfil one of its core missions of students. In academic year 2020/2021, 145 sit for End of Semester II examinations ministered by Ministry of Health, and all students passed with outstanding performances.

### Programmes Offered

During this reporting period, the college offers the following courses

- a) Diploma in Nursing and Midwifery for three years
- b) Diploma in Medical Laboratory course for three years
- c) Upgrading Diploma in Nursing through e-Learning for two years.
- d) Upgrading Diploma in nursing full time. (In-service) for one year.

Enrolment capacity: The school capacity is 70 students per annum for nursing course and 60 students for Medical Laboratory course, currently we have a total number of 163 students.

Table 1. *Number of students in Academic year 2021/2022*

YEARS		BOYS	GIRLS	TOTAL
YEAR ONE (Nursing)	CLASS 2023 <i>Pre service</i>	10	16	26
YEAR ONE	CLASS 2023 <i>Pre service</i>	8	5	13

(Med. Lab)				
YEAR TWO (Nursing)	CLASS 2023 <i>Pre service</i>	20	31	51
YEAR TWO (Med. Lab)	CLASS 2023 <i>Pre service</i>	6	4	10
YEAR THREE (Nursing)	CLASS 2022 <i>Pre service</i>	22	22	44
SUB TOTAL		<b>66</b>	<b>78</b>	<b>144</b>
INSERVICE	CLASS 2022 <i>One year</i>	10	8	18
<b>GRAND TOTAL</b>		<b>76</b>	<b>86</b>	<b>162</b>

### Quality Assurance and Control System

The college has in place a Quality Assurance and Control Programme. The college is in the process of enhancing a comprehensive quality assurance and control framework for its academic and administrative functions, as well as a structured feedback system from academic peers and other stakeholders.

### Student enrolment for the academic year 2021/2022

The college enrolled 57 students in its various programmes including Diploma in Nursing and Diploma in Medical Laboratory. The total number of students enrolled in 2021/2022 decreased compared to previous academic year, because many applicants failed to meet the entry criteria. The enrolment of students was as follows:

Table 2. *Enrolment of new students 2021-2022*

No	Programme	2020-2021	2021-2022
1	Diploma in Nursing (Pre Service)	49	26
2	Diploma in Nursing (In Service)	13	18
3	Diploma in Medical Laboratory	12	13
<b>TOTAL</b>		<b>73</b>	<b>57</b>

## Graduation Ceremonies

In the reporting period, Ndanda COHAS held its 51<sup>st</sup> Graduation Ceremony on 10<sup>th</sup> of September 2021. During the ceremony, 41 students graduated. These were from Nursing programme as shown below (Table 3).



*Graduation ceremony*

Table 3: Number of graduants for the year 2020-2021

Programmes	2020/2021
Diploma in Nursing (Pre Service)	29
Diploma in Nursing (In Service)	12
<b>TOTAL</b>	<b>41</b>

## STAFF DEVELOPMENT AND WELFARE

### Staff Appointments

Ndanda COHAS recruited the following new staff members, working on full time basis

No.	Name of Employee	Designation	Department
1	Edwin Albert Simplis	Librarian	Administration
2	Silvester Raynard Mbinga	Tutor	Medical Laboratory

### Departures

Services of the following staff members came to an end:

No.	Name of Employee	Designation	Reason
1	Bonifasia Joseph Chinyang'anya	Chef	Death
2	Sabihi Omary Mwiumbo	Tutor	Death

## Staff Development

The following members of staff are on training in the country:

No.	Name of the Employee	Name of the Institution	Programme
1.	Joshua Vitus Mnyani	Dodoma University	Masters of Science in Nursing Education

## STUDENTS DEVELOPMENT AND WELFARE

### Students Welfare

Our Student's organization works closely with the college Management through the Office of the Dean of Students (Warden). The organization is represented in various statutory meetings including Board meetings. It contributes in decision making on matters that affect students. The Student's organization has its own constitution, in which all students are automatically members, by registration. The college jointly with the Organization renders counselling services to students and also guides them on issues ranging from academic to social, financial and spiritual matters.



*Teachers and leaders of student organization*

### Student Accommodation

#### Hostel

The college has a hostel for male and female students, located opposite the existing main college building. The hostel, which accommodates both male and female students has a carrying capacity of 168 students.

#### Off-campus accommodation

Students who fail to get in-campus accommodation are guided on how to find off-campus accommodation in nearby rental hostel. We have Old Zakeo where some students accommodated. The lease agreement shall remain between the student and the owner of accommodation facility.

## Extra-Curricular activities

### Religious activities

Students have complete freedom of worship. Our community is largely composed of Christians and Muslims. Regardless of their beliefs, some of them voluntarily formed a college choir which evangelize in different parishes.

### Sports activities

#### Inter-class Competition

Students participated in inter-class sports competitions which involved all students from Medical Laboratory and Nursing. On the other hand, staff and students had some sports together as part of entertainment.



## INFRASTRUCTURE

### 1. COMPLETED PROJECTS

In the reporting period, Ndanda COHAS through benefactors and donors, have done several renovations of the existing buildings. The renovations were done in

1. Classrooms
2. Main Entrance
3. Parking Area
4. Dining Hall
5. Kitchen and Service-kitchen
6. Gas stove



*Kitchen after renovation.*

### 2. ON PROGRESS PROJECTS

#### 2.1. Dining Hall

The college is on process to construct new dining hall which will accommodate many students at once. This project is facilitated by Hospital Management Team through Medical Officer in charge. We expect this project to be realized in 2022.

## **2.2. Painting and Rehabilitation of Buildings**

The painting of buildings is on progress. After completing classrooms, kitchen and dining room, the next project is to rehabilitate and to paint all buildings of the college including offices, walls inside and outside.

## **FUTURE PLANS**

The college has short- and long-term planning. Currently we have the following planning;

1. Make walkways linking Main Gate to main Entrance.
2. Construction of a fence surrounding college for security.
3. To add Pharmacy programme.
4. Trainings in Masters, Bachelor degrees, Teaching methodology.
5. School bus and administration car for official activities.
6. Construction of a Hostel.
7. Construction of Lecture Halls and Theatre.

Sr. Clare Nyoni OSB

**PRINCIPAL**

## **FINANCE DEPARTMENT**

“Towards self-sustainability: Specialized services for the highest possible means in Health Care service delivery”

The finance office has the core a fundamental role of safeguarding the hospital resources, the department records revenue and expenditure, accounts receivable and payable, inventories payroll, fixed asset etc. It is one of the hub for the hospital services to run so smoothly.

### **MAIN ACTIVITIES**

Finance department implemented 2022 work plan including revenue collection by proper authorization of payments and both being entered in financial system, financial management reports, Budget variance analysis include perpetual inventory counts. The treasurer/accounts office is basically, for budgeting, planning, evaluation and monitoring the financial trends, financial health of the Hospital. The department must regulate and strictly controlling expenses jointly with procurement office in purchasing of consumables, medicines and equipment. The key role is to make sure efficient and effective use of available resources. To asses and evaluate current liability and current assets of the Hospital.

### **SOURCES OF INCOME**

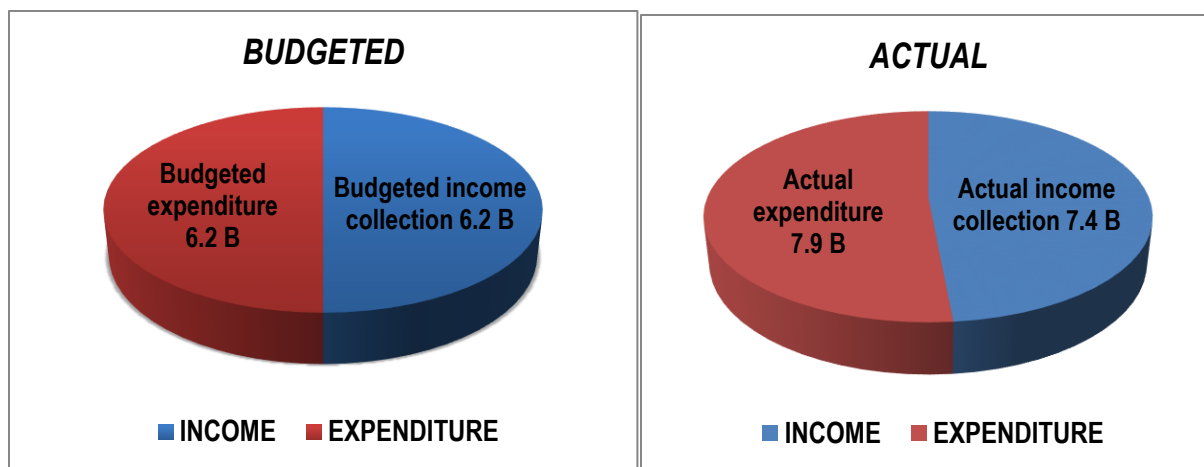
The main source of hospital income in 2021 were Patient User fee (from cost sharing), Tanzania government, Benedictine Abbey Ndanda via the Congregation of St. Otillien and other donors.

We appreciate various donations from individuals who have highly supported the Hospital and strongly empower some units. In a special way Dr. Walter Gnädiger and his family from Switzerland for our Dental Unit, Mr. Bernhard from Switzerland for our IT Unit, Interplants camp, Clubfoot camp and many others.

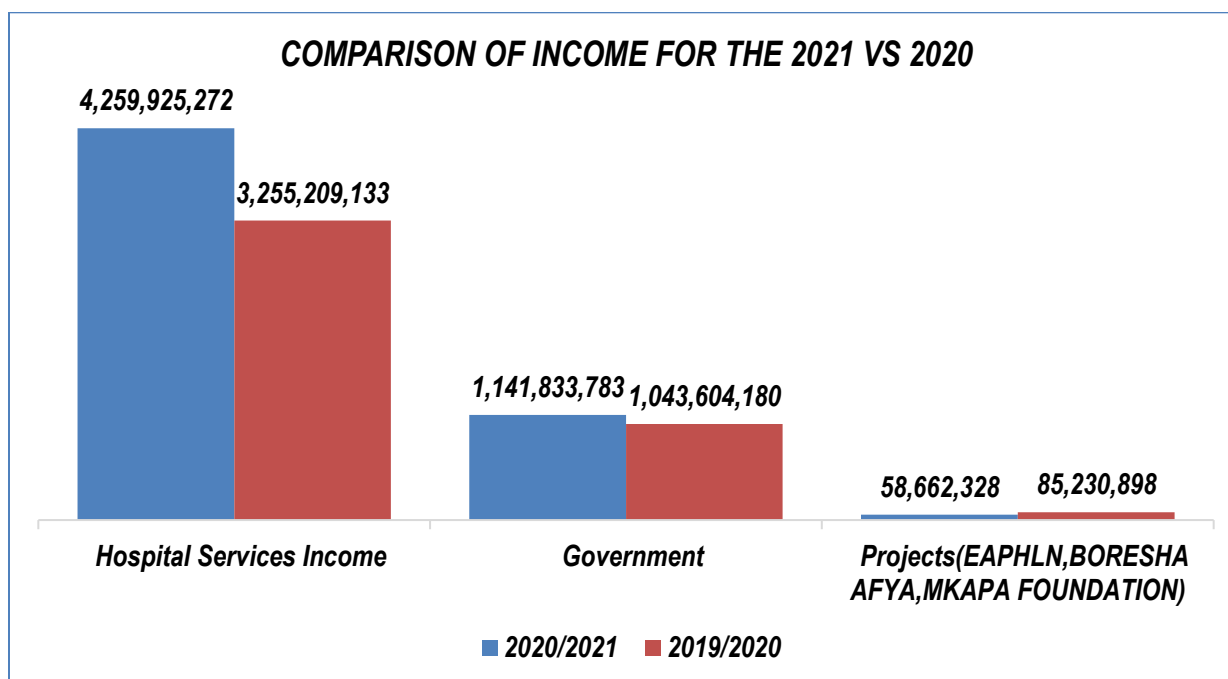
### **BUDGETING PROCESS**

Participatory method is used in preparation of hospital budget. Whereby it is initiated at unit level and then compiled to form one budget for the hospital.

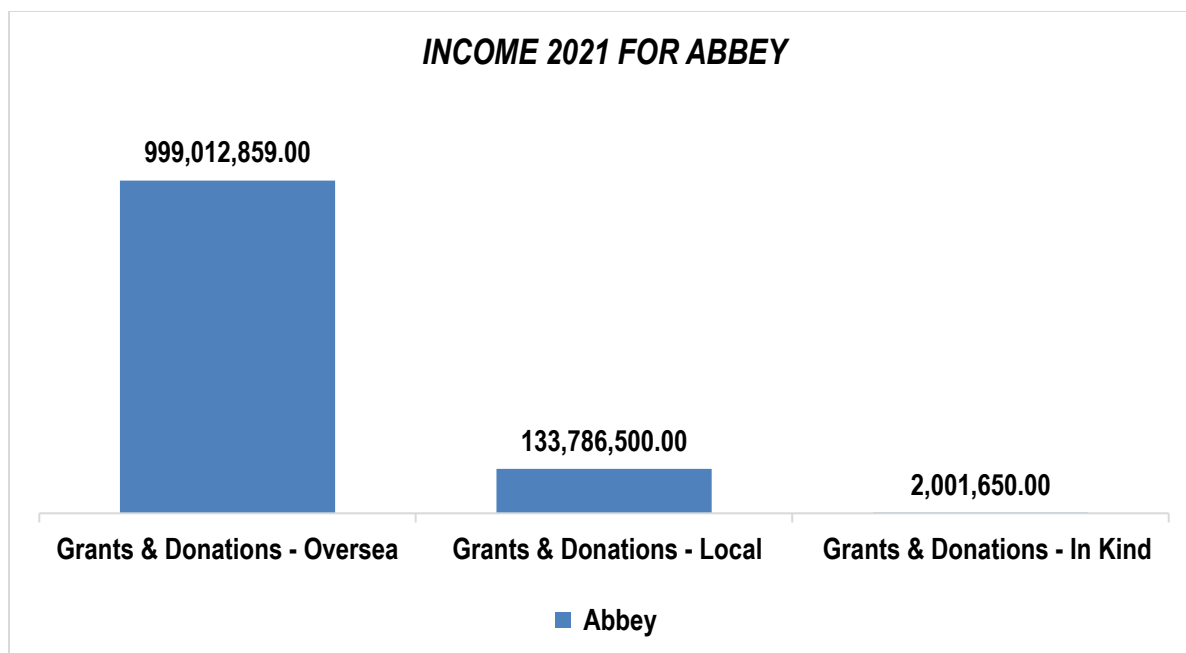
### **BUDGET AGAINST ACTUAL INCOME AND EXPENDITURE DISTRIBUTION**



## COMPARISON OF INCOME FOR THE YEAR 2021 AND 2020



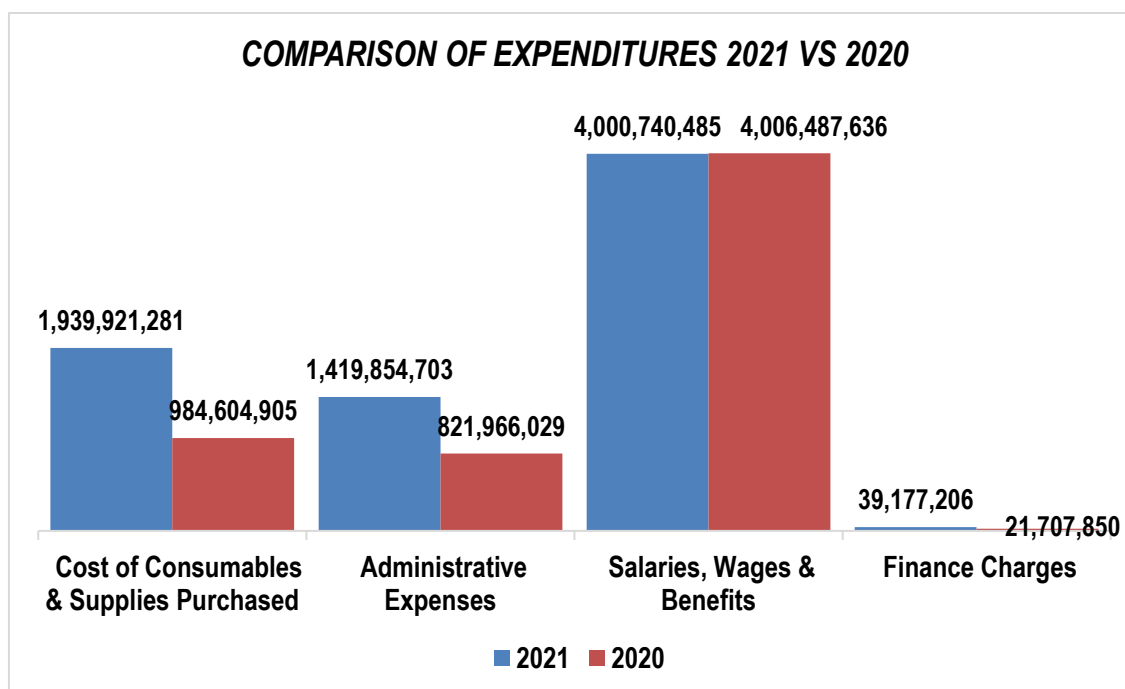




### **Income Comments**

*Hospital services income increased by 30% this is due to the introduction of specialized services (dialysis) as well as good customer care*

- *Grants and donation from overseas increased by 39% excluding Tanzania shillings 1.07b which were used for different hospital projects (purchases of medical equipment, renovation of hospital buildings) which increased the hospital capital*
- *Income from government increased by 9% due to the increase of donation of medicine and other medical supplies from MSD but employees subsidies decreases because there is no replacement of employees after death or retirement.*
- *Income from different projects decrease by 31% this is due to the end contract of EAPHLN*



- costs for purchases of consumables and other medical supplies increased by **97%** this is due to establishment of new hospital services like dialysis, NICU and ICU (internal factor) also there are external factor which are inflation rate due to covid 19
- renovation of buildings, travelling and accommodation, security fees, legal fees, expatriate expenses, maintainance of medical equipment and machine these are mainly expenses that cause the increase of administration expenses by **72%**
- salaries and wages decreased by **0.1%**

# MAJOR EVENTS AND PROJECTS 2021

## SENIOR EXPERTS

In March 2021, several Senior Experts from Germany have been working at our facility: one anaesthetist, one physician, one endoscopy nurse and one ICU nurse. They provided intensive training for our staff in the areas of intensive care medicine, echocardiography and ultrasound. New techniques and procedures are being implemented like dilatative percutaneous tracheotomy, pacemaker implantation, gastrostomy and bone marrow aspiration.

Between September and November 2021, two Endoscopy Camps have been performed at our hospital. From 15th of September until 8th of October, two gastroenterologists from Munich have visited us. They have introduced ERCP (i.e. illustration of bile ducts through endoscopy) at our facility and 3 of these procedures have been performed. The second camp



*Senior Expert Dr. Gatz during endoscopy training.*

took place from 1st until 28th of November. Internist Dr. Gatz and endoscopy nurse Mrs. Ecke have visited us for the 4th time. During the camp, 13 ERCP's have been performed successfully, as well as more than 100 endoscopies including gastrocopy, colonoscopy and bronchoscopy. Intensive training of our staff of endoscopy department has been provided.

## INTERPLAST CAMP

Interplast Camp is a project performed every year at St. Benedict Ndanda Hospital, in cooperation between a team of plastic surgeons, anaesthetists and nurses from Germany with our local doctors and nurses. The operation took place from 24th of October until 6th November. More than 130 procedures were performed successfully. Patients with contractures, skin cancer, cleft lip or other deformities had great benefit. All procedures were provided free of charge for our patients.



*Plastic Surgeon Dr. Borsche with one of his patients.*

## WORLD KIDNEY DAY

On occasion of World Kidney Day 2021, community screening for renal disease was provided at our facility on 20th of March. The screening was offered free of charge to all citizens above 18 years. BP, body weight and height were recorded. All clients received investigations for urine chemistry and blood glucose. 189 patients reported for screening (73 male and 116 female). 54 patients (29%) were found to have



*Screening of patients on World Kidney Day.*

hypertension, 13 patients (7%) had proteinuria as a sign of kidney impairment, 10 patients (5%) had diabetes mellitus and 34 patients had signs of urinary tract infection. All patients with abnormal findings



were counselled for further investigations and treatment. The results confirm that there is a high prevalence of hypertension, kidney disease and diabetes mellitus in the population around our facility.

## INSTALLATION OF CT SCAN

On 17.8.2021, our new CT scan machine has arrived in Ndanda.

Installation was done in

September 2021.

From 4th until 8th of October, the application specialist of the manufacturer has visited us for training for our staff.

Henceforward, the investigation has been available at our facility.

Until the end of the year 2021,

more than 100 CT scans have

been performed. For most of these patients, the investigation was crucial for correct diagnosis and treatment. Availability of CT scan is a milestone in the development of our hospital and a quantum leap forward for the health care of the population of southern Tanzania and northern Mozambique.



*CT Scan machine after installation*

## OUTREACH FOR CHILDREN

Thanks to a generous donation of one of our benefactors, we were able to realize the project “Outreach for Children”. Once per week, our paediatrician has visited one of five dispensaries and health centers in the surrounding districts. The babies there have presented with



*Our paediatrician Dr. Wambyakale counselling patients during the outreach.*

different medical conditions like heart problems, renal diseases, anemia, malnutrition, epilepsy, congenital malformations and syndromes. Our hospital has provided the service free of charge for the dispensaries and health centers.

## **OXYGEN FILLING STATION**

Due to Covid 19 pandemic, the demand of oxygen has increased in most hospitals, including our facility in Ndanda. In 2020, we have successfully installed an oxygen production plant, which provides oxygen and compressed air for our new ICU, NICU, dialysis, maternity and theatre. In the face of the second wave of patients with Covid 19, we have decided to upgrade our oxygen production plant towards an oxygen filling station. With the filling station, oxygen can be stored in cylinders at a pressure of 100 – 150 bar. In case of technical defect of the oxygen plant,

Oxygen cylinders are required for transport of patients in need of oxygen. The filling station will also enable us to provide oxygen to the surrounding hospitals. And last but not least, the cylinders are very useful as a backup for the oxygen plant. In case of technical defect, oxygen will be provided by cylinders through an automatic manifold.

We have signed the contract for this project early in July 2021. Due to delay in manufacturing and transport of the materials, installation was not possible until the end of the year 2021, but will presumably be finalized early in 2022.

## RENOVATION OF THE WARDS

Our wards were constructed between 1965 and 1970 and do not meet current requirements and standards. In September 2021, we managed to start with renovation of male surgical ward, one toilet and the corridors. On the ward, tiles are installed as well as new windows and curtains in order to provide more privacy for our patients. Thanks to a generous donation through Mission Austria, we managed to start with



*Male Surgical Ward after renovation.*

renovation of the rain water system and two more toilets in October 2021.

Renovation of the remaining 5 wards and 3 toilets is planned to be done in 2022.

## PRIVATE WARD

The private ward of the hospital is currently accommodated in the oldest building, which was constructed in 1928. Although still stable, it does no longer meet with up-to-date standards. Therefore we plan to construct a small “private ward” with self-contained units. The new private ward will help us with operational income and enable us to cross-subsidize poor patients on the ordinary wards. The building will accommodate one VIP suite, 7 single



*New Private Ward December 2021.*

rooms, 3 double rooms, nurse base, doctor`s room, utility rooms and store. Construction has started in April 2021 and will presumably be finished by March 2022.

## **EMERGENCY DEPARTMENT**

So far, our Outpatient Department (OPD) does not meet with the standards of an emergency department. Therefore, we plan to do construction with an extension and comprehensive renovation of the existing structure. The target is to provide an independent emergency department and an upgrade of our OPD. This will improve services for emergencies as well as for other outpatients by avoiding unnecessary movements of the patients and the relatives. Preparations for this project have been done during the year 2021 and construction will start early in 2022.



Get in Contact or find more information on our websites:

**St.Benect Ndanda Referral Hospital**

P.O Box 03 Ndanda Mtwara Region Tanzania.

Phone: +225784-342-088

Email: [ndandahospital@gmail.com](mailto:ndandahospital@gmail.com)

Web: [www.ndandahospital.org](http://www.ndandahospital.org)

**Ndanda Collage of Health and Allied Science (Ndanda COHAS)**

P.O Box 16 Ndanda

Mtwara Region, Tanzania

Phone: +255742-410-676

Email: [ndandanursing@gmail.com](mailto:ndandanursing@gmail.com)

©2021 St. Benedict Ndanda Refferal Hospital