



DEPARTMENT OF AESTHESIOLOGY, INTENSIVE CARE UNIT & PAIN MANAGEMENT



BENAZIR BHUTTO HOSPITAL RAWALPINDI Benazir Bhutto Hospital Rawalpindi

Head of Department

- Dr. Muhammad Shafiq

Senior Registrar

- Dr. Muneeba Yasmeen
- Dr. Ayesha Saleem
- Dr. Waqas Anjum

Consultant Anesthetist

- Dr. Irum Saeed

Annual audit Report 2020

This document consists of annual report of all activities which happened in Department of Anesthesia & ICU BBH Rawalpindi. It includes Operation Theatre details, Curricular & extracurricular activities happened in department in year 2020

Credits:

**PREPARED BY:
DR.RAHEEL AHMED BAIG**

**REVISED BY:DR. MUHAMMAD
SHAFIQ**

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Department

DEPARTMENT

Introduction

INTRODUCTION

Medical Officers

Anesthesia

- Dr.Iffat Yasmeen
- Dr.Najeeya Siddiqa
- Dr.Nosherwan
- Dr.Ambreen Siddiui
- Dr.Mehwish Asad
- Dr.Rabia Saleem
- Dr.Fatima Buzdar
- Dr.Khadija
- Dr.Farwa Kazmi

Intensive Care Unit

- Dr.Saba Bari
- Dr.Hina Sadiq
- Dr.Kiran Zia
- Dr.Aleena
- Dr.Maria Munir
- Dr.Ruqqiya
- Dr.Sidra

Post Graduate Trainees

MS

- Dr.Nazish Karim
- Dr.Rabia Sarwer
- Dr.Mohammad Yousuf Dar
- Dr.Raheel Ahmed Baig
- Dr.Kaleem Ahmed
- Dr.Tayyeba Malik

FCPS

- Dr.Faisal Siddique
- Dr.Rizwan Ahmed
- Dr.Baber Rauf
- Dr.Rabiya Shah
- Dr.Shamsa Kanwal
- Dr.Tayyeba Aslam
- Dr.Arshad Malik
- Dr.Huma Bashir
- Dr.Kainat Altaf

DA

- Dr.Muhammad Iqbal
- Dr.Abu Saleh Attique
- Dr.Rana Junaid
- Dr.Hammad Yaseen
- Dr.Nayyer Noor
- Dr.Irfan Ul Haq
- Dr.Abid Bashir Gondal
- Dr.Umair Usmani
- Dr.Abdur Rahman
- Dr.Maryem Fatima
- Dr.Nemat Ullah
- Dr.Youmna Mudassar

Introduction

Benazir Bhutto Hospital, also known as Rawalpindi General Hospital, is a public sector hospital located on the Murre Road Rawalpindi Pakistan. It is a major teaching hospital offering basic specialties as psychiatry, orthopedics, Urology and Cardiology. It is the place where Benazir Bhutto died on 27 December 2007. BBH is a teaching hospital allied with Rawalpindi Medical University, Rawalpindi. It was established in 1980 on Murree Road which is considered the hub of Rawalpindi. Initially it was called Central Hospital, Rawalpindi and was later renamed Rawalpindi General Hospital. In 2009, it was finally renamed Benazir Bhutto Hospital. The hospital is responsible for providing training, manpower and service development, policy support and consultancy services to 27 countries of the Eastern Mediterranean region of WHO and beyond. The hospital has academic linkages with the University of Manchester, London, Bristol in UK & University of Nepal. The Institute has trained people from Egypt, Iran, Sudan, Afghanistan, Palestine, Morocco, Tunisia, Nepal, Jordan & Turkey.

Initially the Operation Theatre complex comprised of 4 tables for General Surgery, Orthopedics and Urology, 2 tables for Gynecology and Obstetrics. The Emergency list was also conducted in this complex simultaneously.

After 1997, a separate Urology operation theatre was established with 2 tables and in 2003, casualty operation theatre with 2 tables was setup in 2 emergency blocks.

After the 2005, earthquake Orthopedic operation theatre was established, with 4 operating tables. The new emergency operation theatre was recently been setup in 2016, with 2 operating tables for emergency surgery, orthopedic and urological procedures.

Recovery room in new casualty operation theatre equipped with two ventilators to overcome the problems during shifting the surgical critical patients to Intensive care medicine. Now the lack of trained nurses and shortage of staff in anesthesia are the current problems in COT recovery room.

Current Status of Department of Anesthesiology

Department of Anesthesiology & ICU is a diverse & most dynamic department of the hospital. The department has interaction & collaboration with every departments of the hospital. It is the hub of training for many young doctors of Rawalpindi Medical University & many other institutions of the province. Department of Anesthesia has always been keen to organize different types of academic activities for the learners. Many trainees are being sent to Department of Anesthesiology for training on rotation basis from other hospitals of the region. Benazir Bhutto Hospital was initially recognized for MCPS training by CPSP in 1982 and has generated 7 members up-till now. Since the central induction policy (CIP) for postgraduates MCPS has been discontinued and DA and MS anesthesia training has been started in hospital. In 2009 the anesthesiology unit was recognized for FCPS training and 12 fellows have passed out from the department up-till now. The department has recently been recognized for MS Anesthesiology training from 2017. The department covers 24 hours emergency in hospital. Although there is lack of staff in anesthesia department still all the departments are being covered around the clock.

Currently 8 doctors are undergoing FCPS training and 6 doctors enrolled in postgraduate MS training program & 12 doctors are undergoing training in DA Program. In year 2020, 2 PGTs have passed IMM exam of FCPS & 6 PGTs have passed DA midterm exam.

Current Issues & Problems

- There is a great lack of skilled anesthesia personal including doctors, OT staff, paramedics and technicians.
- Shortage of time for academic activities due to increased patients load.
- Lack of Workstations in some of Operation Theatres (Septic OT)
- Limited number of extracurricular activities in department of anesthesiology due to increase workload
- Shortage of medical officers & trained nursing staff in ICU.
- Shortage of clerical staff in department of Anesthesiology & ICU.
- Shortage of beds in ICU

Achievements

- We are regularly conducting major surgeries including thoracotomies, joint replacements, laparoscopic surgeries of all types (including new advances such as needle herniotomy and sleeve gastrectomies, thoracotomies) and endoscopic surgeries in the disciplines of urology, ENT, General surgery and orthopedics.
- A number of pediatric surgeries are conducted despite shortage of resources.
- Achievements in research, via the formation of **research committee of Anesthesia department headed by Dr. Muhammad Shafiq**, due to which already 3 activities have been published in RMU in the last 2 year and work is underway to publish many more.
- In last 2 years two original research articles published in journal of Rawalpindi Medical University Rawalpindi along with research for three dissertations for postgraduate students for FCPS/MS anesthesia.
- Currently, many research works are underway to be published in the upcoming RMU journals.
- Teaching activities thrice a week in department are taking place in the form of Lectures, Presentations & group discussions & being conducted strictly & on regular basis.
- Different types of Workshops are continuously organized by Department of anesthesia in the Hospital.

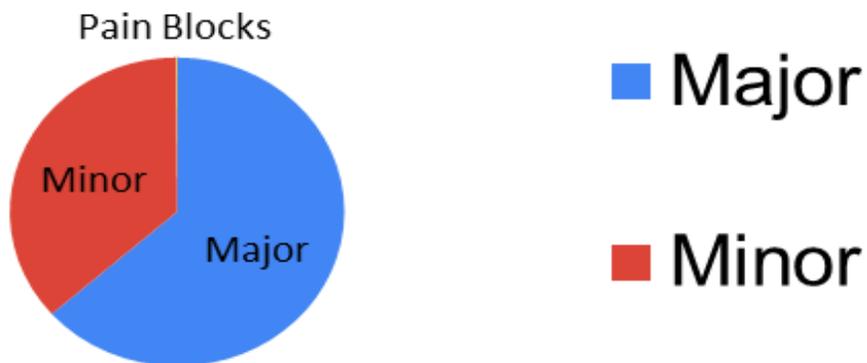


**TOTAL CASES IN
2020**

Total Cases Anesthesia

Major	10382
Minor	5955
Pain Blocks	18
Total	16355

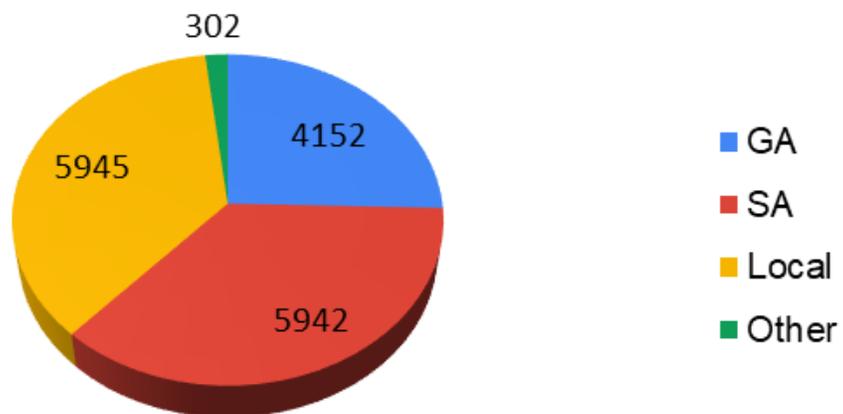
TOTAL CASES ANESTHESIA 2020



Total Cases type of Anesthesia

GA	4152
SA	5942
Local	5963
Other	222
Total	16359

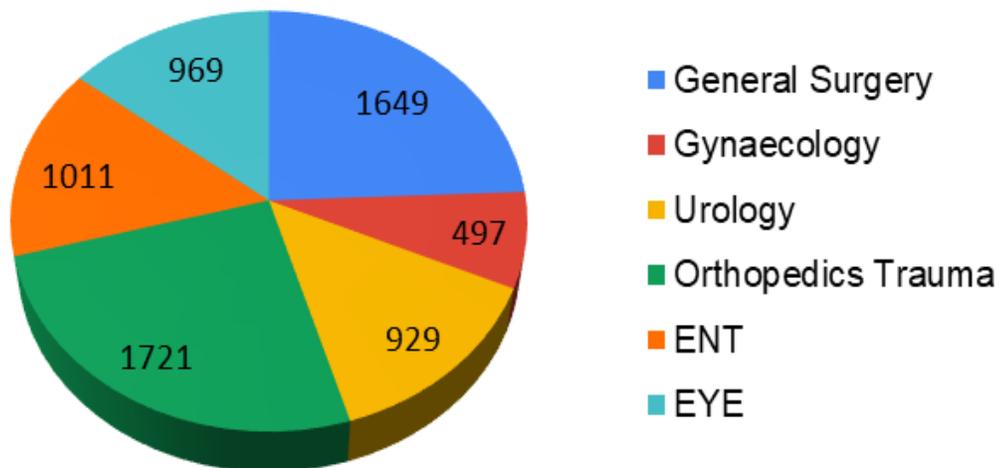
Total Cases 2020 Type of Anesthesia



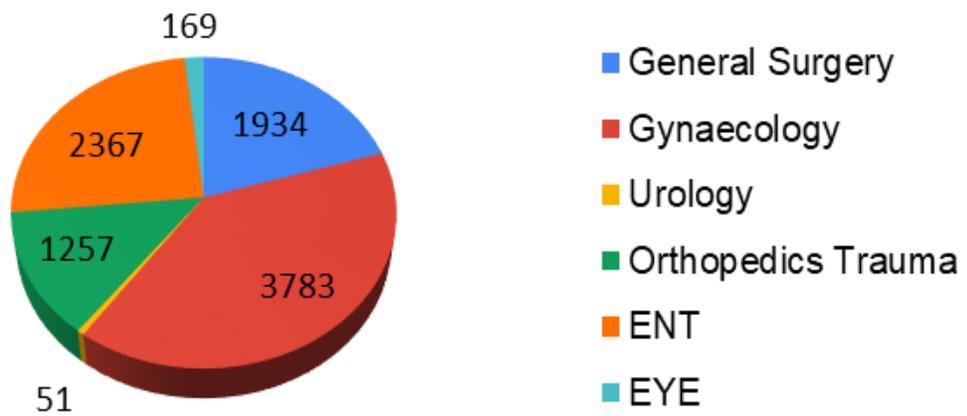
Elective & Emergency Cases Specialty Wise 2020

Specialties	Elective Cases 2020	Emergency	Total
General Surgery	1649	1934	3583
Gynecology/Obs.	497	3783	4280
Urology	929	51	980
Orthopedics Trauma	1721	1257	1721
ENT	1011	2367	1011
EYE	969	169	969

Elective Cases 2020



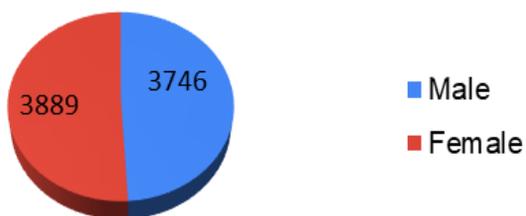
Emergency Cases Anesthetized 2020 Department wize



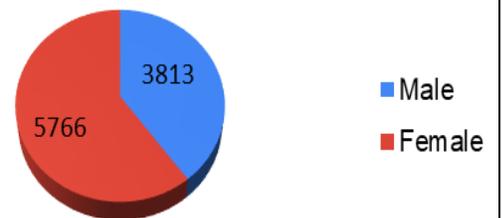
Gender Vise Elective/Emergency Cases

Gender	Elective	Emergency
Male	3746	3813
Female	3889	5766

Elective Cases Gender
vise 2020

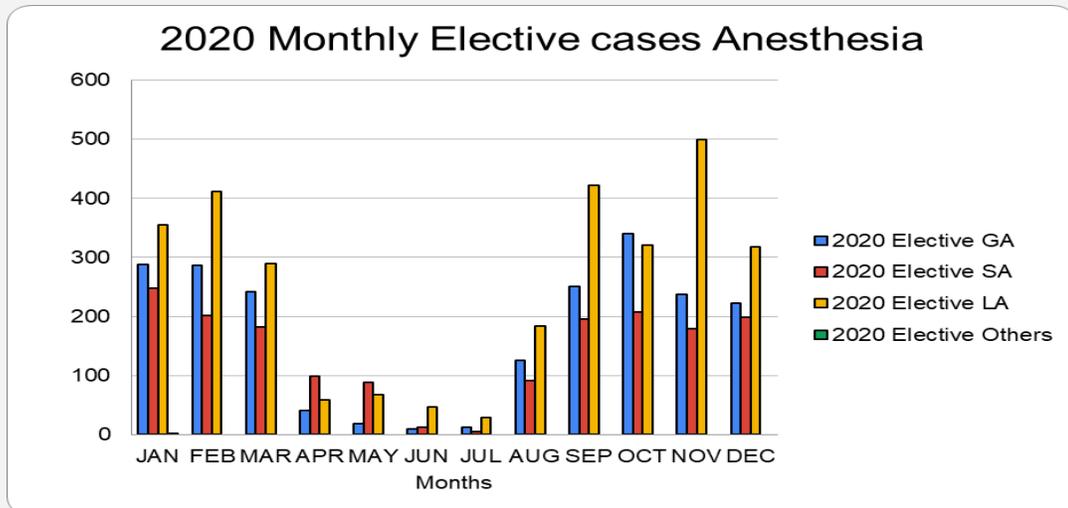


Emergency Cases
Gender Vise 2020



Monthly Distribution of elective cases

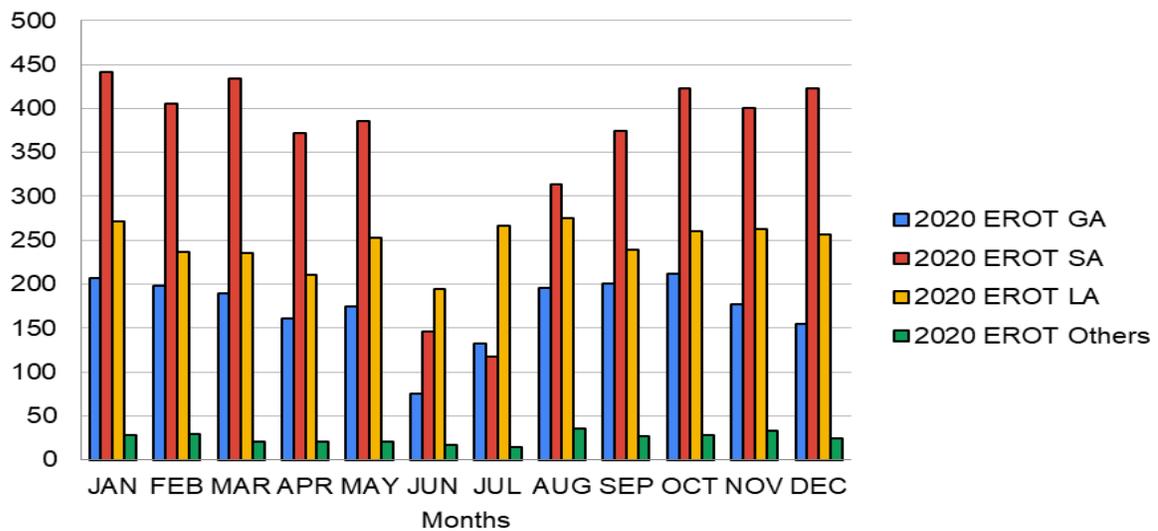
2020 Elective					
Months	GA	SA	LA	Others	TOTAL
JAN	288	247	355	2	892
FEB	286	201	411	0	898
MAR	241	182	289	0	712
APR	41	99	58	0	198
MAY	19	89	68	0	176
JUN	9	13	47	0	69
JUL	12	5	29	0	46
AUG	126	91	183	0	400
SEP	250	195	422	0	867
OCT	340	207	320	0	867
NOV	237	179	500	0	916
DEC	223	198	318	0	739
Total	2072	1706	3000	2	6780



2020 EROT

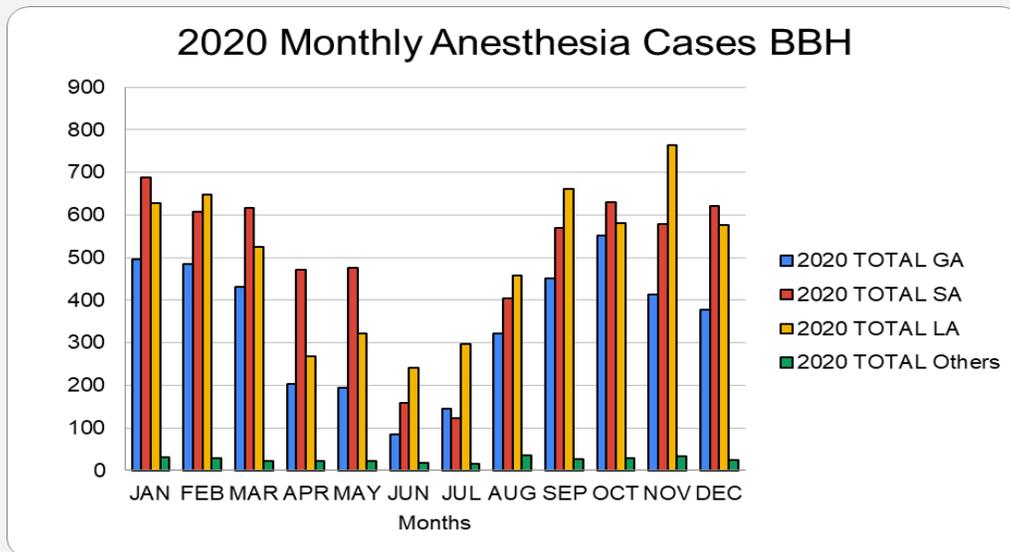
Months	GA	SA	LA	Others	TOTAL
JAN	207	441	272	28	948
FEB	198	406	237	29	870
MAR	190	434	236	21	881
APR	161	372	210	21	764
MAY	175	386	253	21	835
JUN	75	146	194	17	432
JUL	133	117	267	15	532
AUG	196	314	275	35	820
SEP	201	374	239	27	841
OCT	212	423	260	28	923
NOV	177	400	263	33	873
DEC	155	423	257	25	860
Total	2080	4236	2963	300	9579

2020 Monthly Emergency Anesthesia Cases



Month wise Total Cases 2020

2020 TOTAL					
Months	GA	SA	LA	Others	TOTAL
JAN	495	688	627	30	1840
FEB	484	607	648	29	1768
MAR	431	616	525	21	1593
APR	202	471	268	21	962
MAY	194	475	321	21	1011
JUN	84	159	241	17	501
JUL	145	122	296	15	578
AUG	322	405	458	35	1220
SEP	451	569	661	27	1708
OCT	552	630	580	28	1790
NOV	414	579	763	33	1789
DEC	378	621	575	25	1599
Total	4152	5942	5963	302	16359



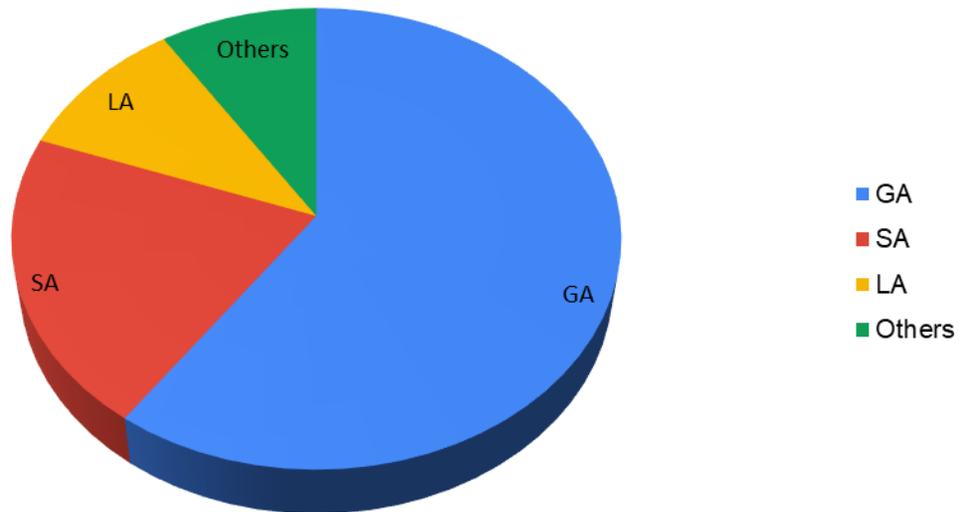
New COT

2020

Type of Anesthesia 2020

GA	1788
SA	618
LA	307
Others	274
Total	2987

Types of Anesthesia 2020 New COT

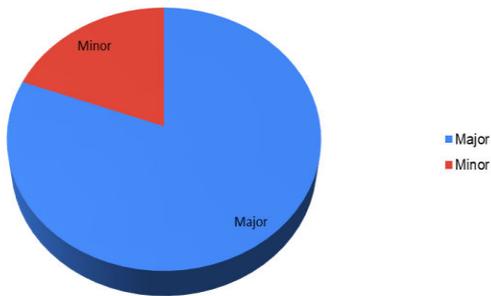


Gender Vise & Major/Minor Surgeries 2020

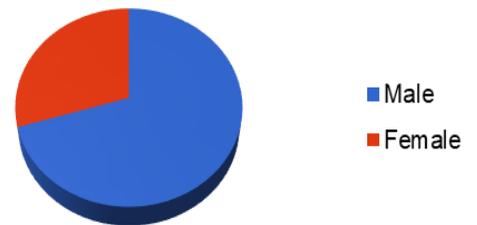
Major	2411
Minor	576

Male	2100
Female	887

Major vs Minor New COT 2020

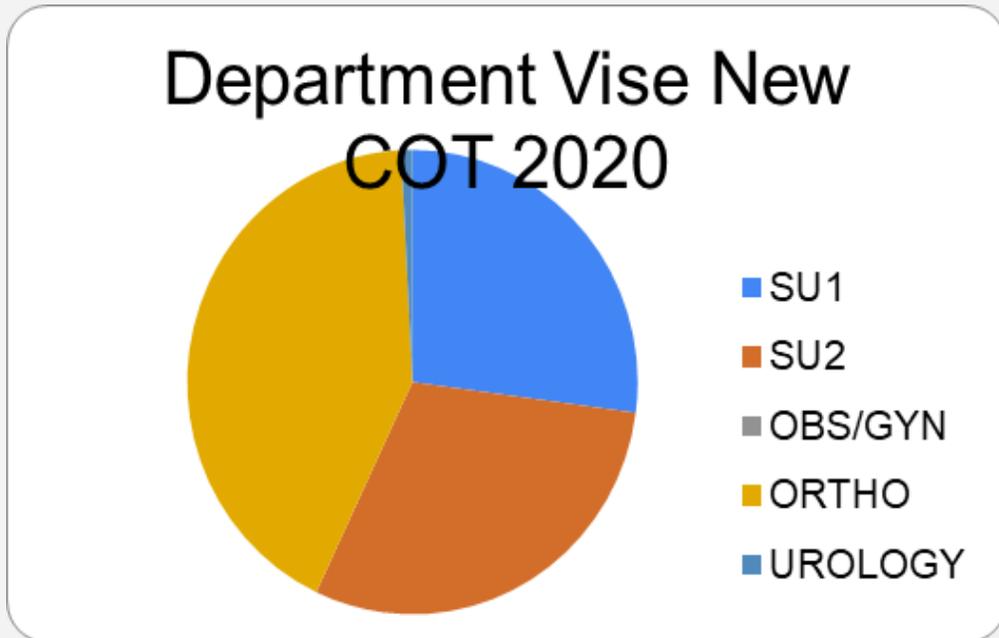


Gender Vise New COT 2020

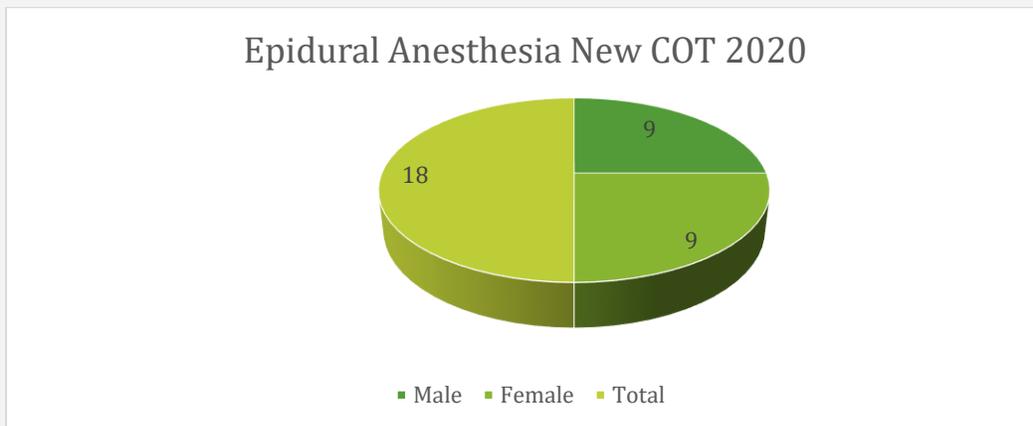


Specialty Wise New COT 2020

SU1	SU2	OBS/GYN	ORTHO	UROLOGY	ENT	EYE
805	888	0	1252	24	0	0



Epidural Anesthesia	
<i>Male</i>	<i>Female</i>
09	09
Total :18	



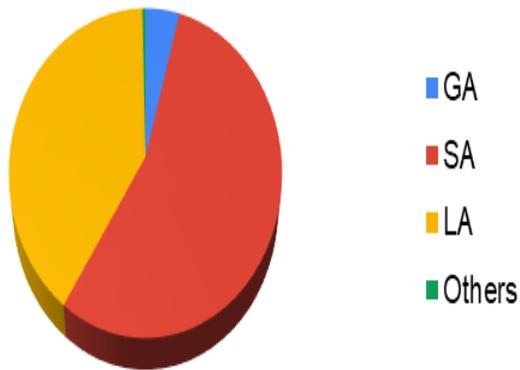


Type of Anesthesia & Major Vs Minor Surgeries in Old COT

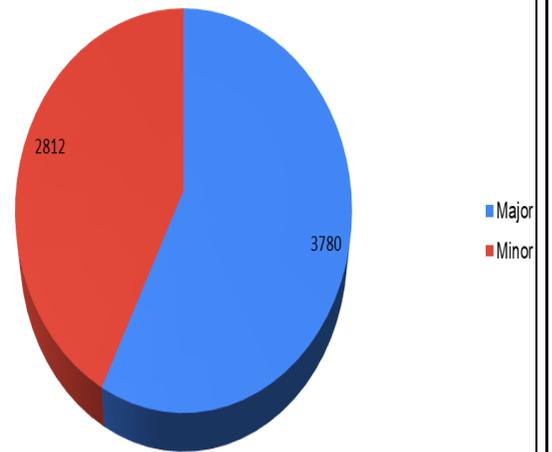
GA	992
SA	3618
LA	2656
Others	26
Total	6592

Major	3780
Minor	2812
Total	6592

Types of Anesthesia OLD COT 2020



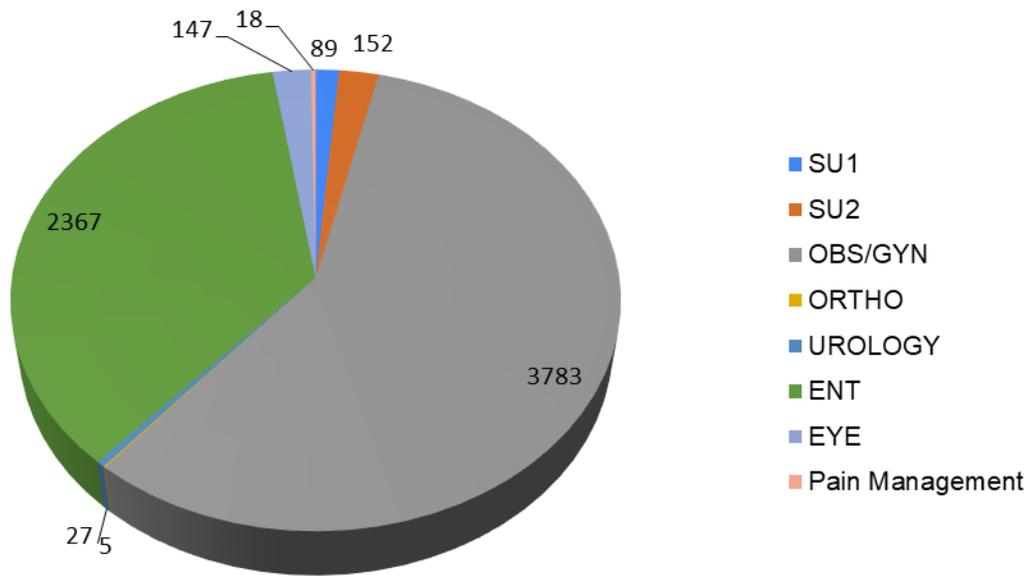
Majors vs Minor New COT 2020



Department Vise

SU1	SU2	OBS/GYN	ORTHO	UROLOGY	ENT	EYE	Pain Management
89	152	3783	5	47	2367	147	18

Department Vise OLD COT 2020



MOT 2020



SURGERY

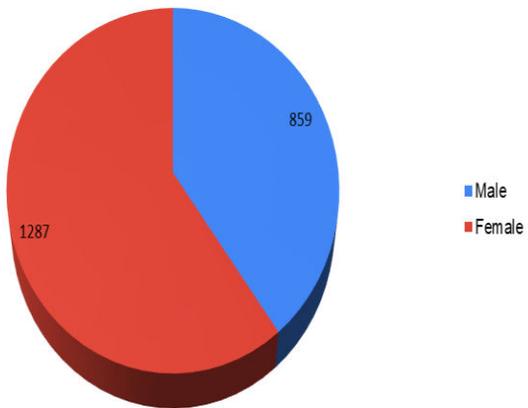


Gender Vise & Major Vs Minor Type Surgeries

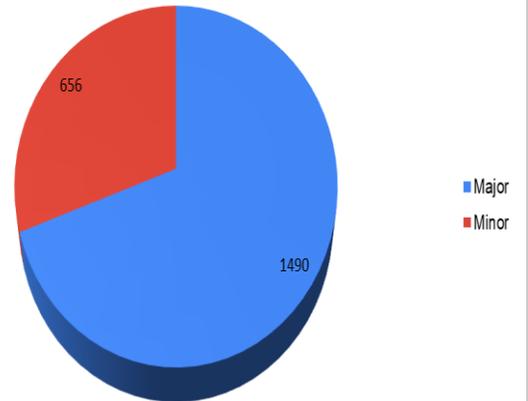
Male	859
Female	1287

Major	1490
Minor	656

Gender Vise MOT 2020



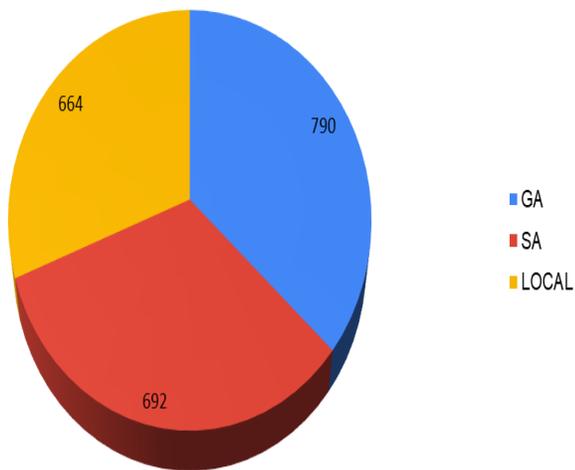
Major vs Minor MOT 2020



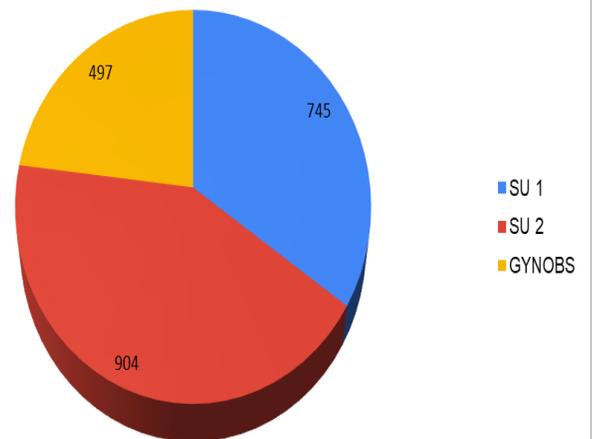
GA	790
SA	692
LOCAL	664
Total	2146

SU 1	745	General Surgery	1649
SU 2	904	Gynae/Obs	497
GYNOBS	497	Thoracic Surgery	
		Pediatric surgery	
		Vascular surgery	
		Laparoscopic Surgery	

Anesthesia Type MOT 2020



Department Vise MOT 2020



Orthopedics

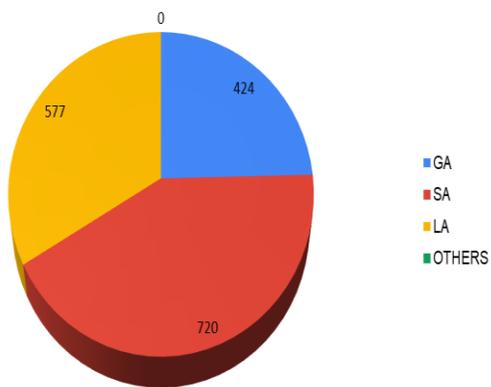
OT 2020



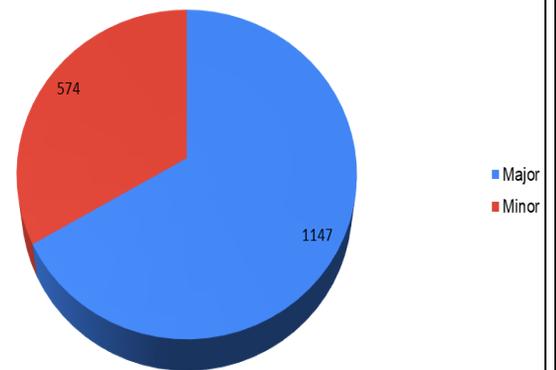
GA	424
SA	720
LA	577
OTHERS	0

Major	747
Minor	574

Anesthesia Type Ortho OT 2020

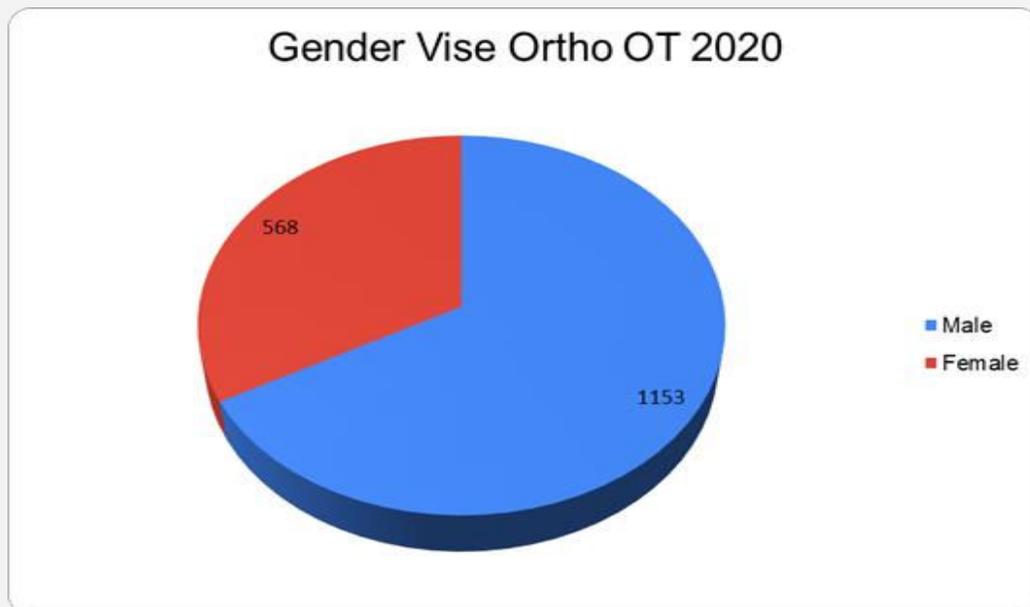


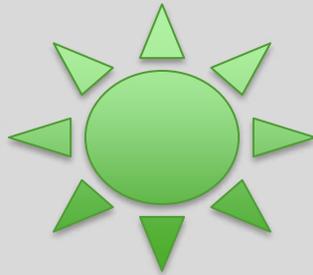
Major vs Minor Ortho OT 2020



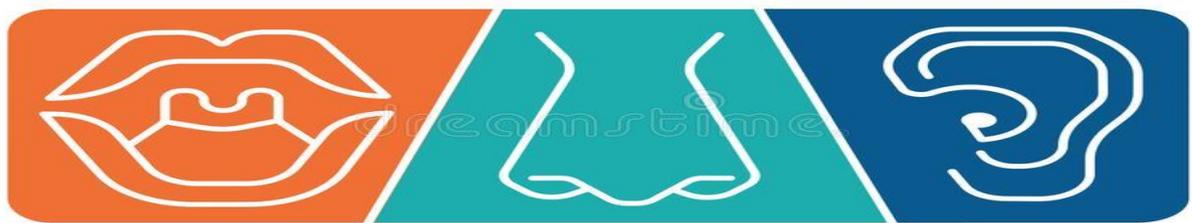
Gender Vise

Male	1153
Female	568





ENT OT 2020

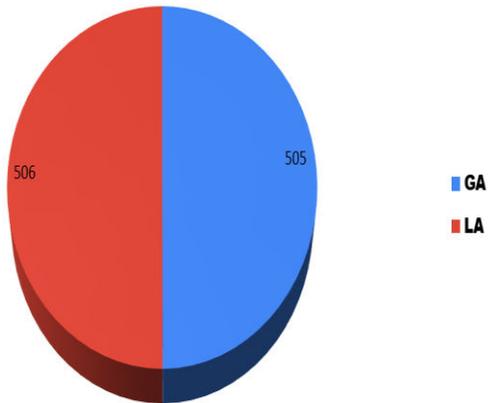


Major/Minor & Local/GA Type

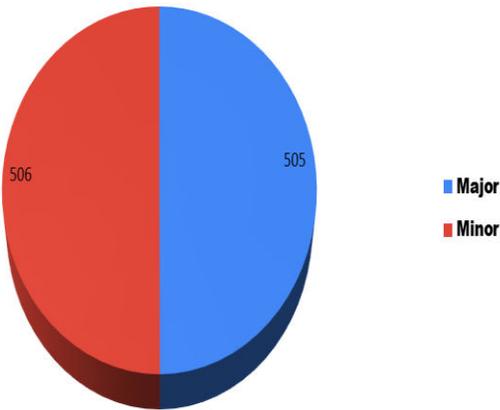
GA	505
LA	506

Major	505
Minor	506

Anesthesia Type ENT OT 2020

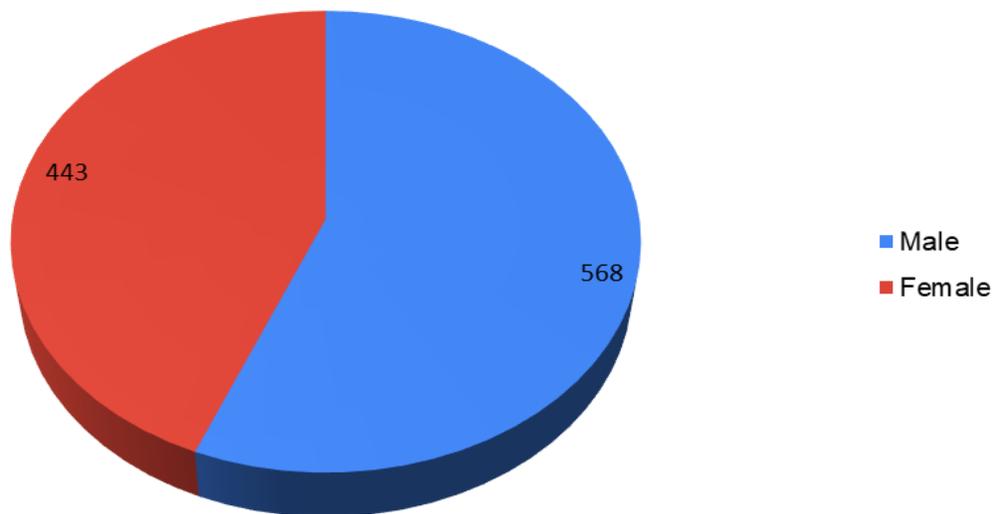


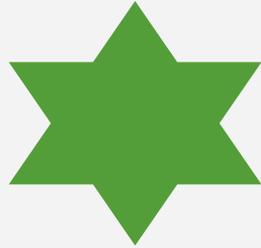
Major vs Minor ENT OT 2020



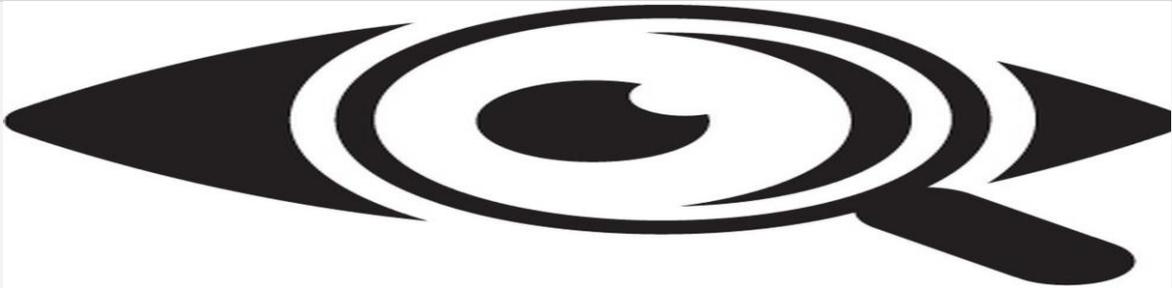
Male	589
Female	387

Gender Wise ENT OT 2020





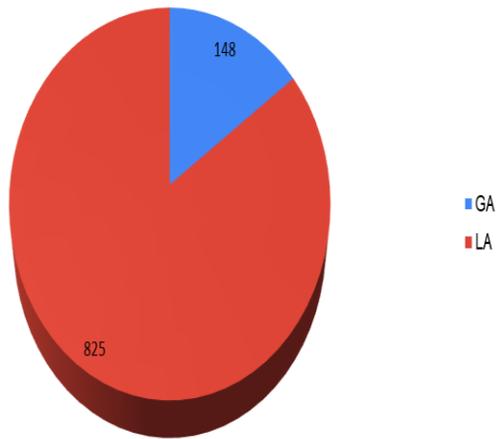
EYE OT 2020



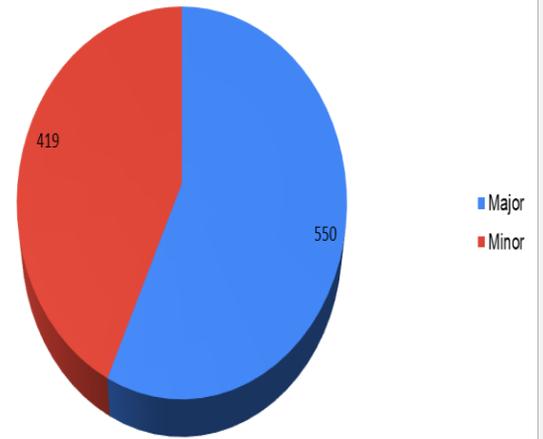
GA	148
LA	825

Major	550
Minor	419

Anesthesia Type EYE OT 2020

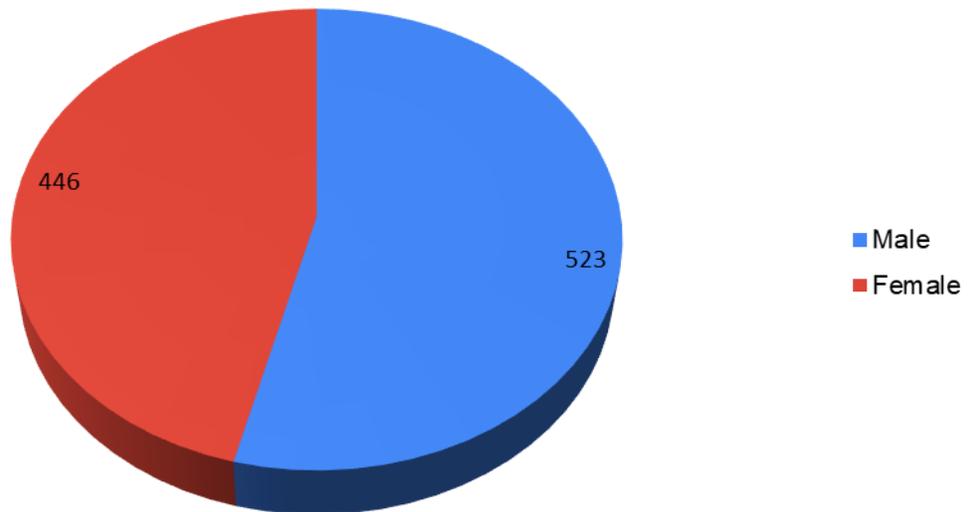


Major vs Minor EYE OT 2020



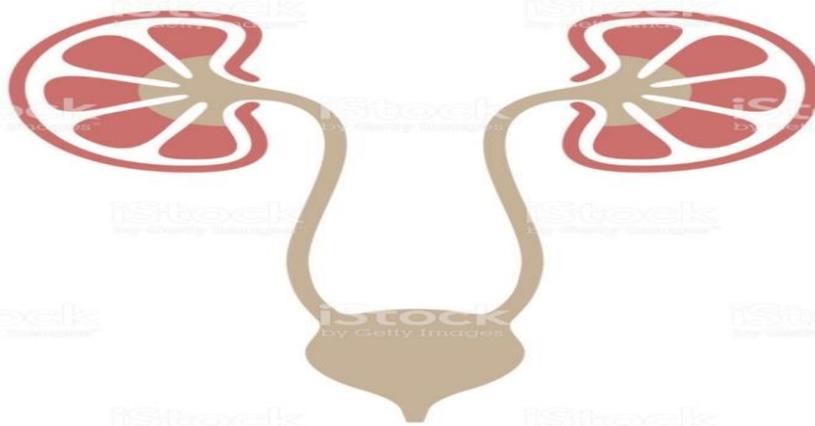
Male	523
Female	446

Gender Vise EYE OT 2020



UROLOGY OT

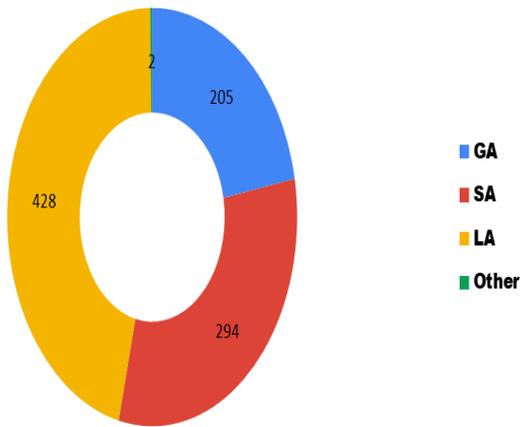
2020



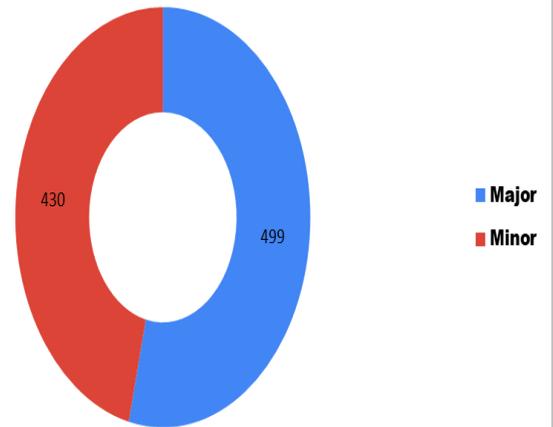
GA	205
SA	294
LA	428
Other	02

Major	499
Minor	430

Anesthesia Type Urology OT 2020

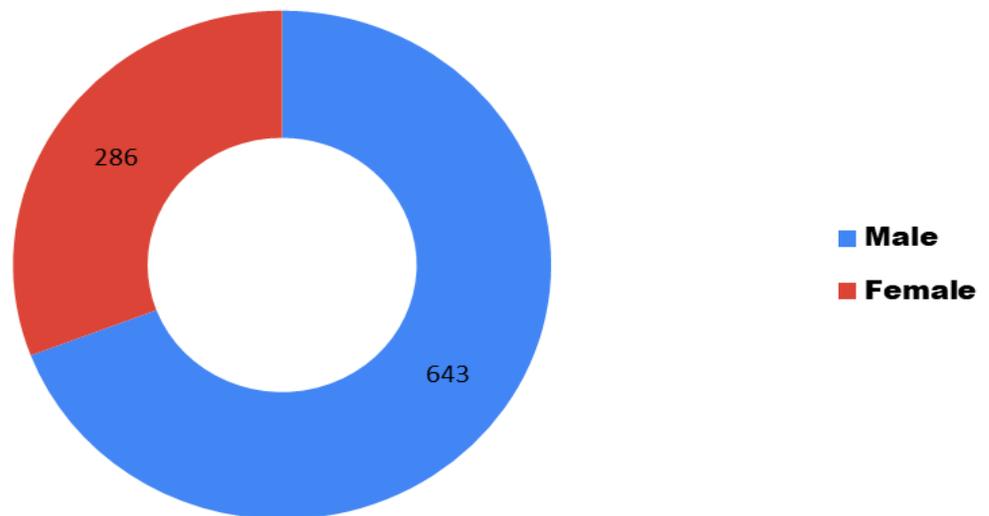


Major vs Minor Urology OT 2020



Male	790
Female	353

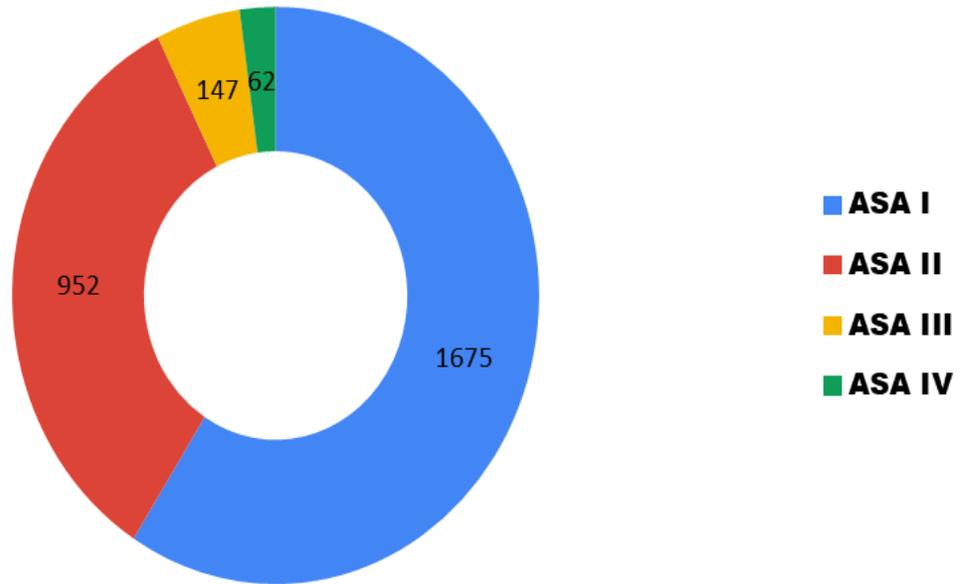
Gender Vise Urology OT 2020



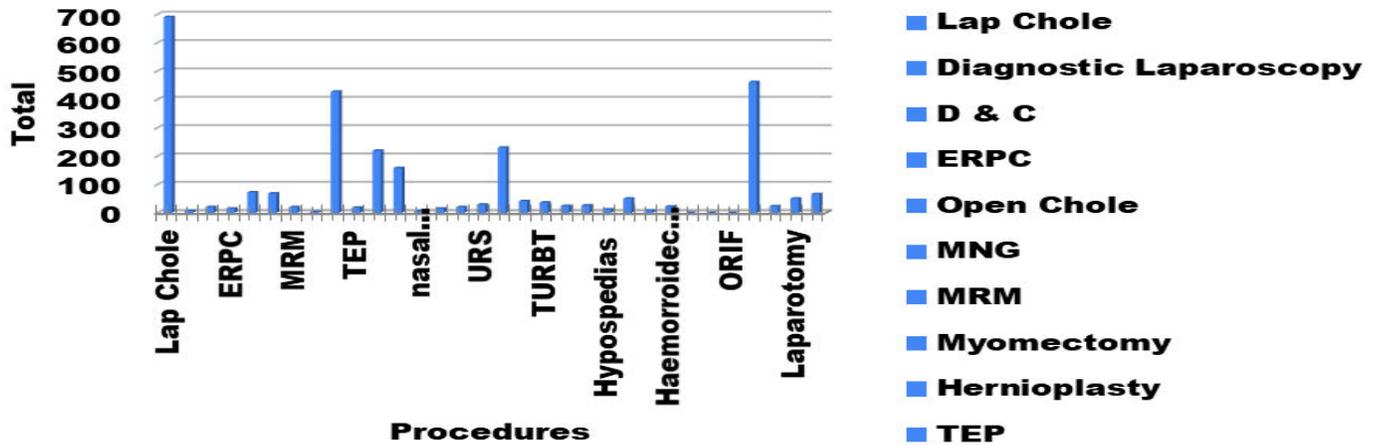
**PREANESTHESIA
ASSESSMENT
CLINIC
2020**



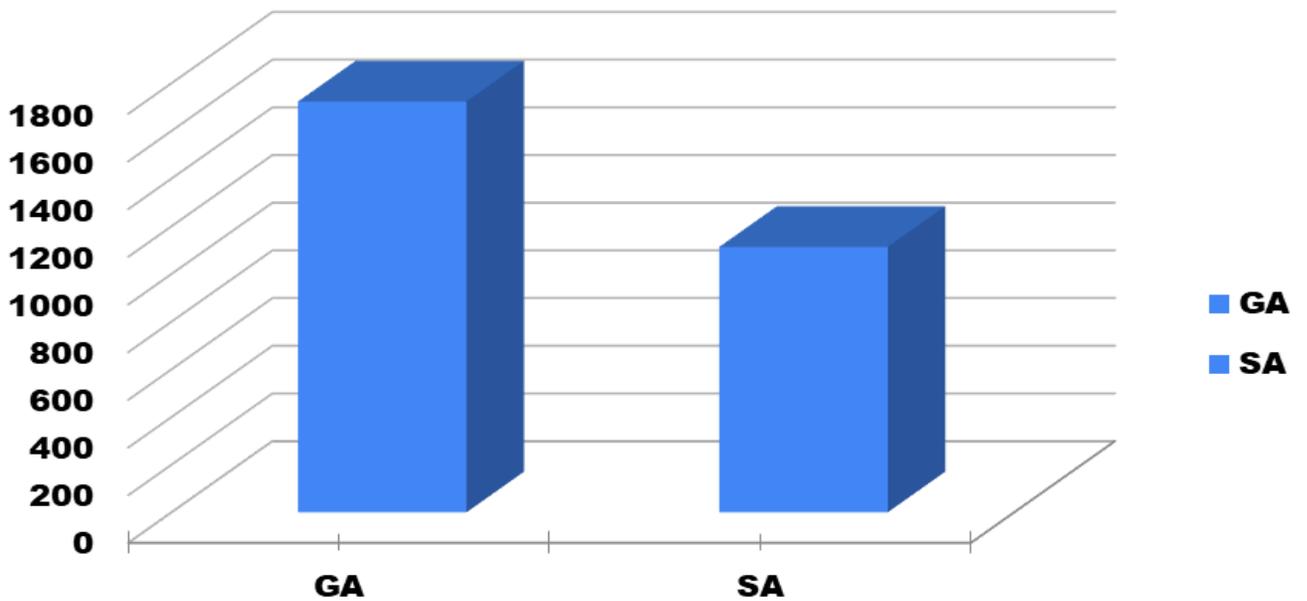
PAAC Patients ASA Classified 2020



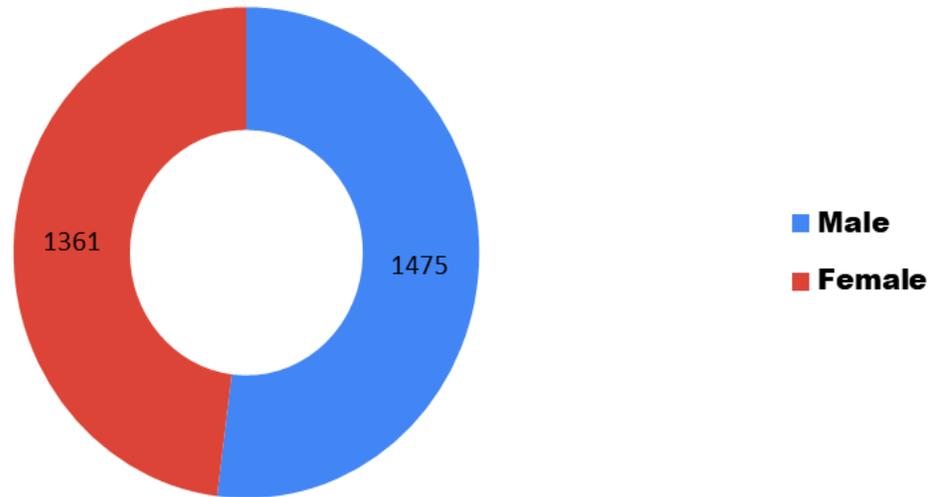
Procedure wise assessments PAAC 2020



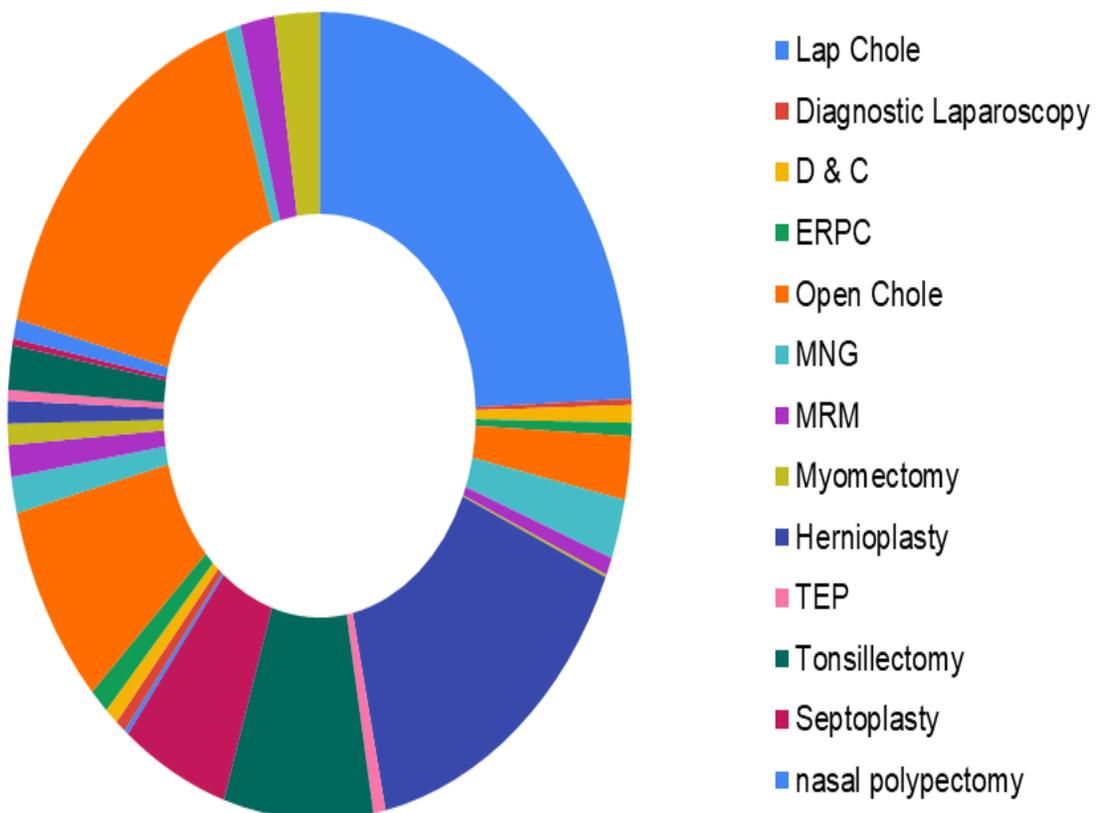
Anesthesia Planned PAAC 2020

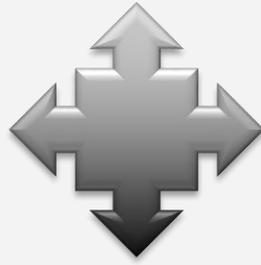


Gender Wise Assessed patients at PAAC



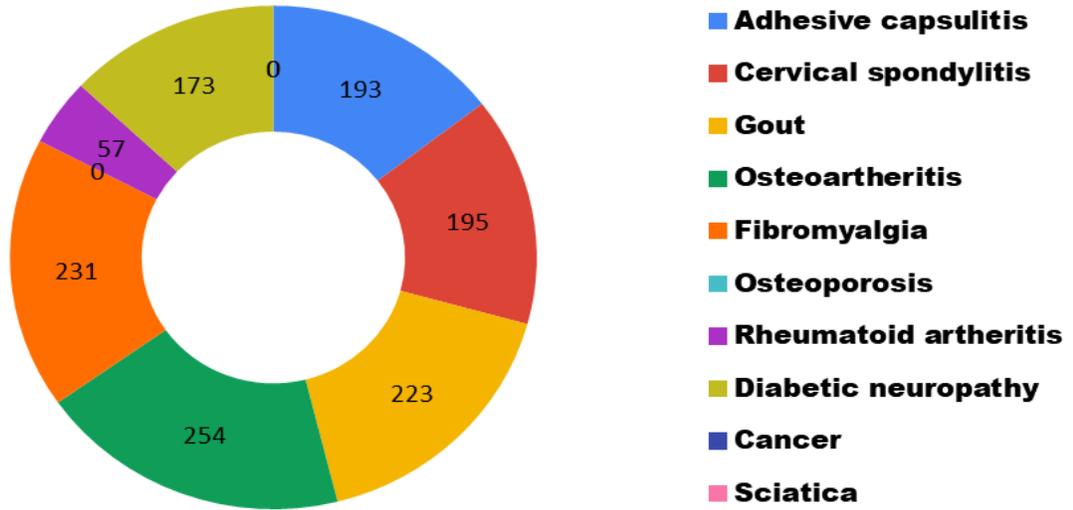
PAAC Procedure wise assessment 2020



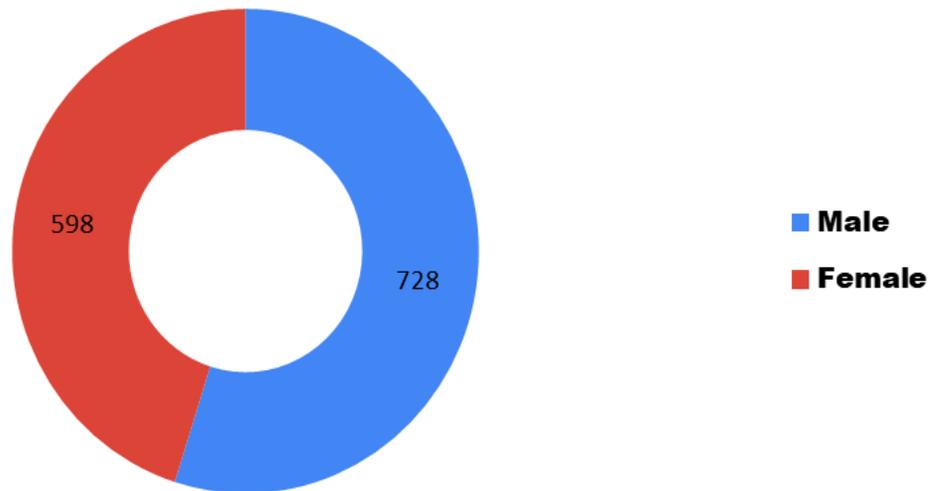


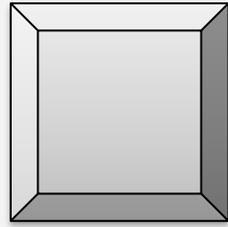
PAIN
MANAGEMENT
CLINIC
2020

Diagnosis wise at Pain Clinic 2020



Geder wise patients at PAIN CLINIC 2020





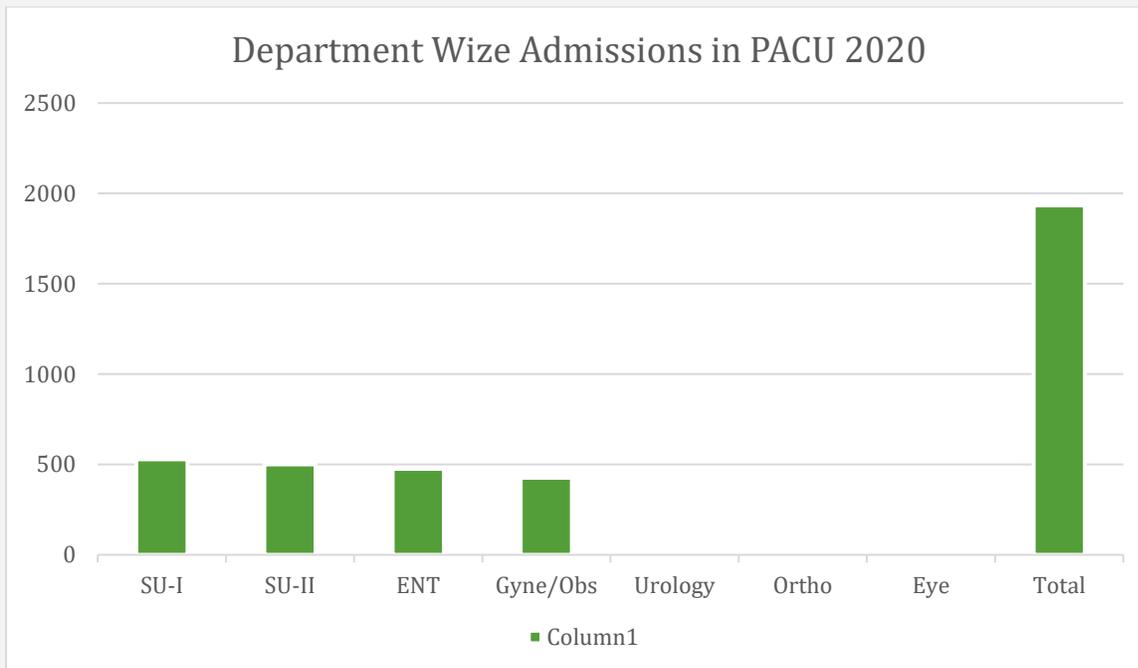
Post Anesthesia Care

Unit (PACU)

2020

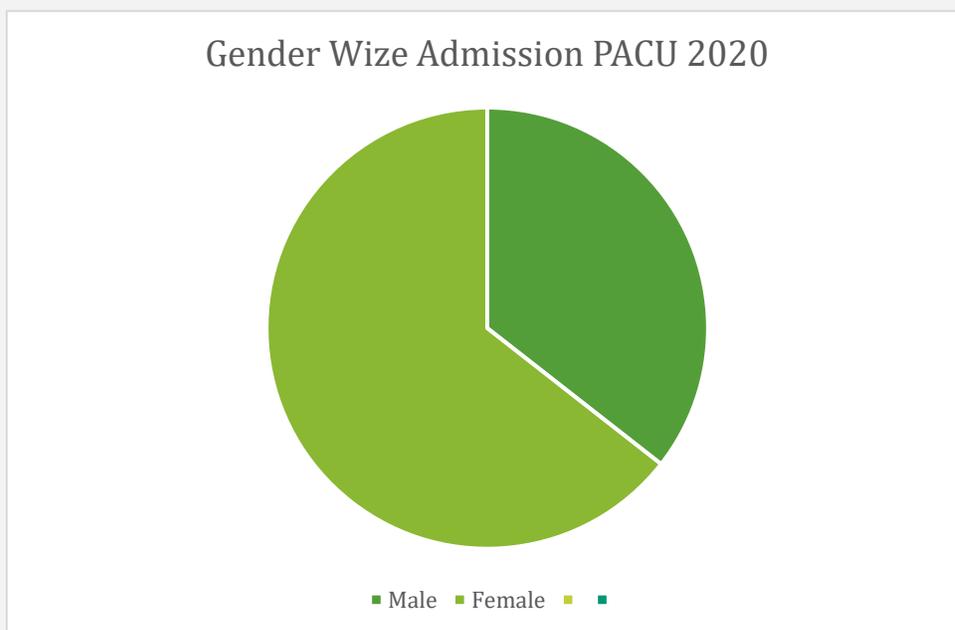
Unit Wise Admissions in PACU 2020

#	Department	Admissions
1	SU-I	529
2	SU-II	501
3	ENT	476
4	Gyne/Obs	427
5	Urology	00
6	Orthopedics	00
7	Eye	00
8	Total	1933



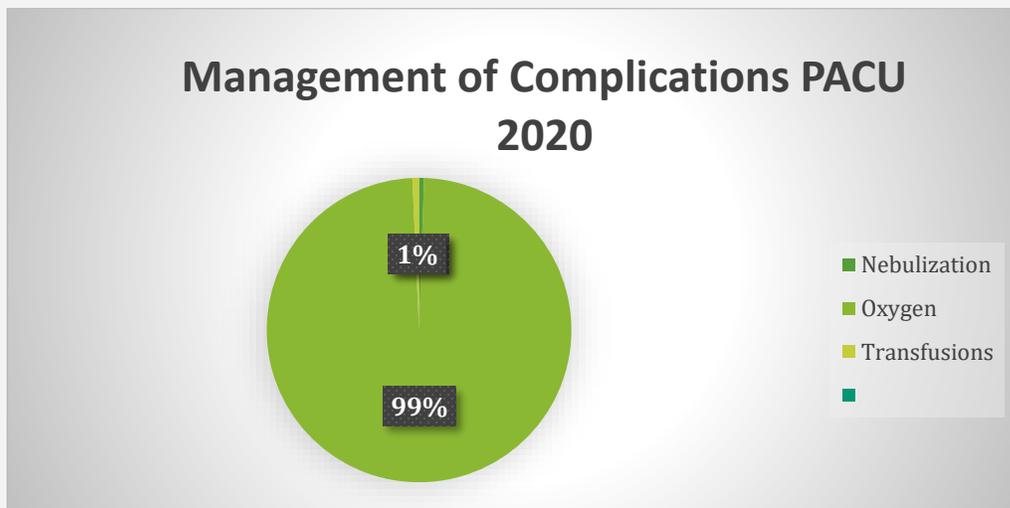
Gender Wise Admissions PACU 2020

Male	Female
626	1134



Complications & Management PACU 2020

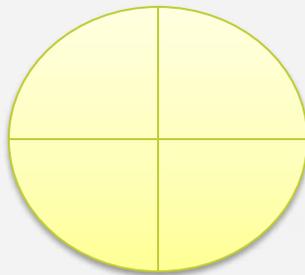
NEBULIZATION	TRANSFUSION	O2 THERAPY
75	11	1540



Intensive Care
INTENSIVE CARE

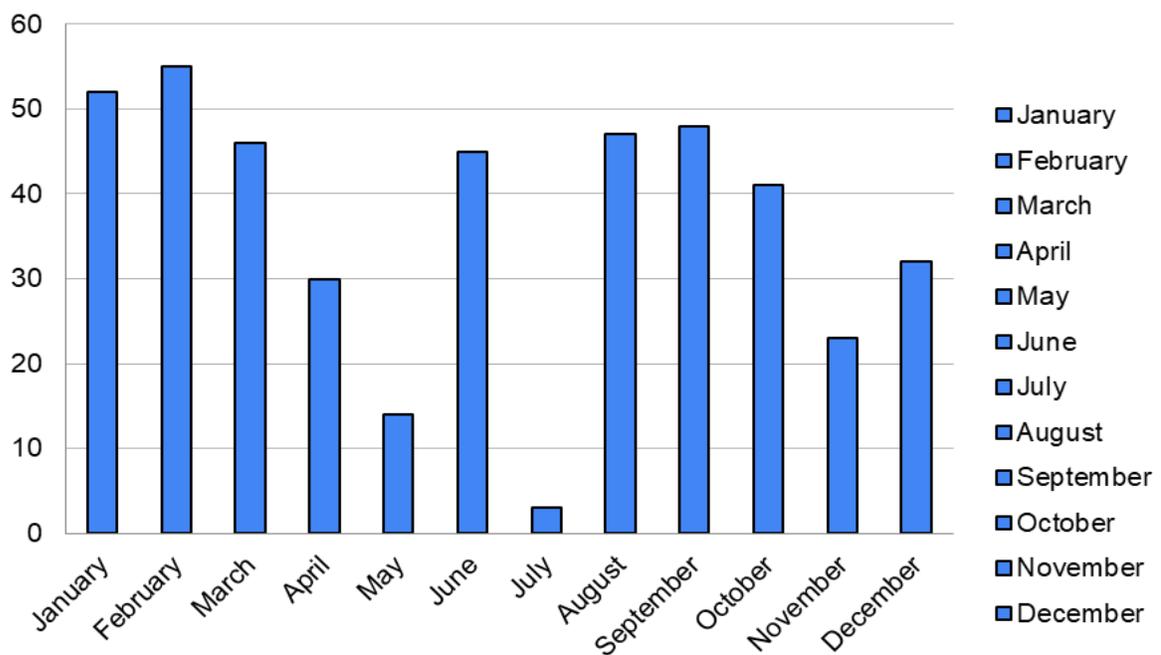
Medicine
MEDICINE

2020
2020



Monthly Admissions in ICU 2020

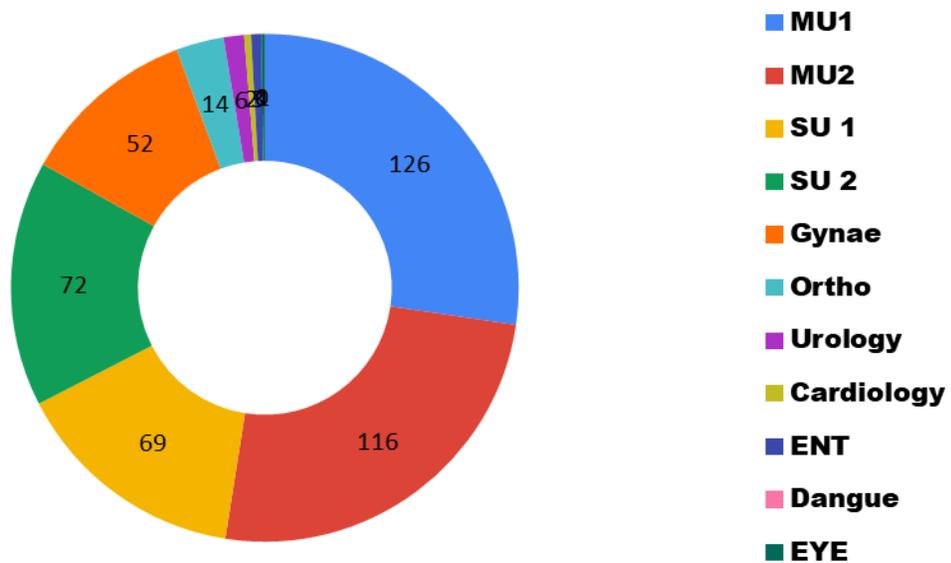
Month	# of Admissions
January	52
February	55
March	46
April	30
May	14
June	45
July	3
August	47
September	48
October	41
November	23
December	32



Unit Wise Admissions in ICU 2020

UNITS	# of Patients
MU1	126
MU2	116
SU 1	69
SU 2	72
Gynae	52
Ortho	14
Urology	6
Cardiology	2
ENT	3
Dangue	0
EYE	1

Unit wise admissions in ICU 2020

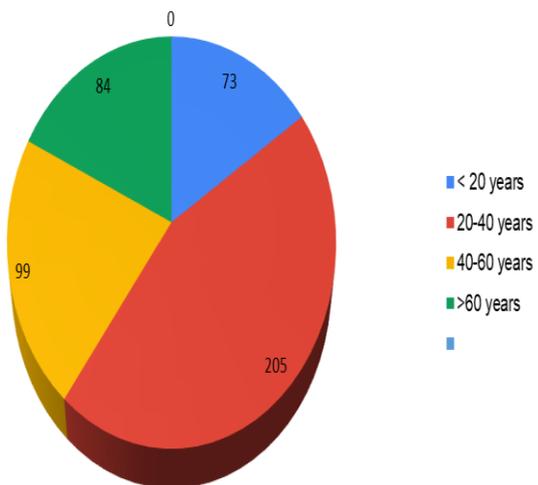


Age & gender Wise Admissions in ICU

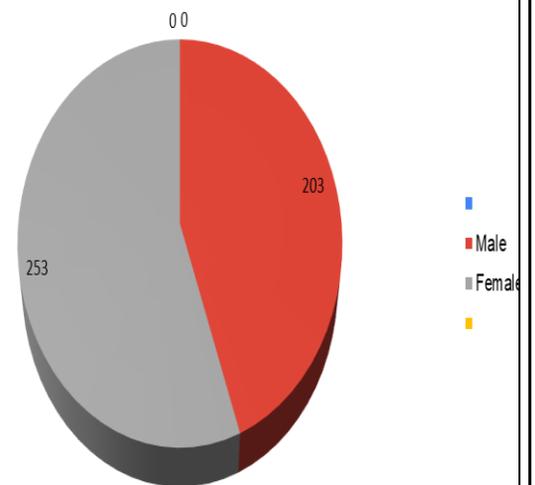
< 20 years	66
20-40 years	231
40-60 years	111
>60 years	56

Male	203
Female	253

Age wise admissions in ICU 2020

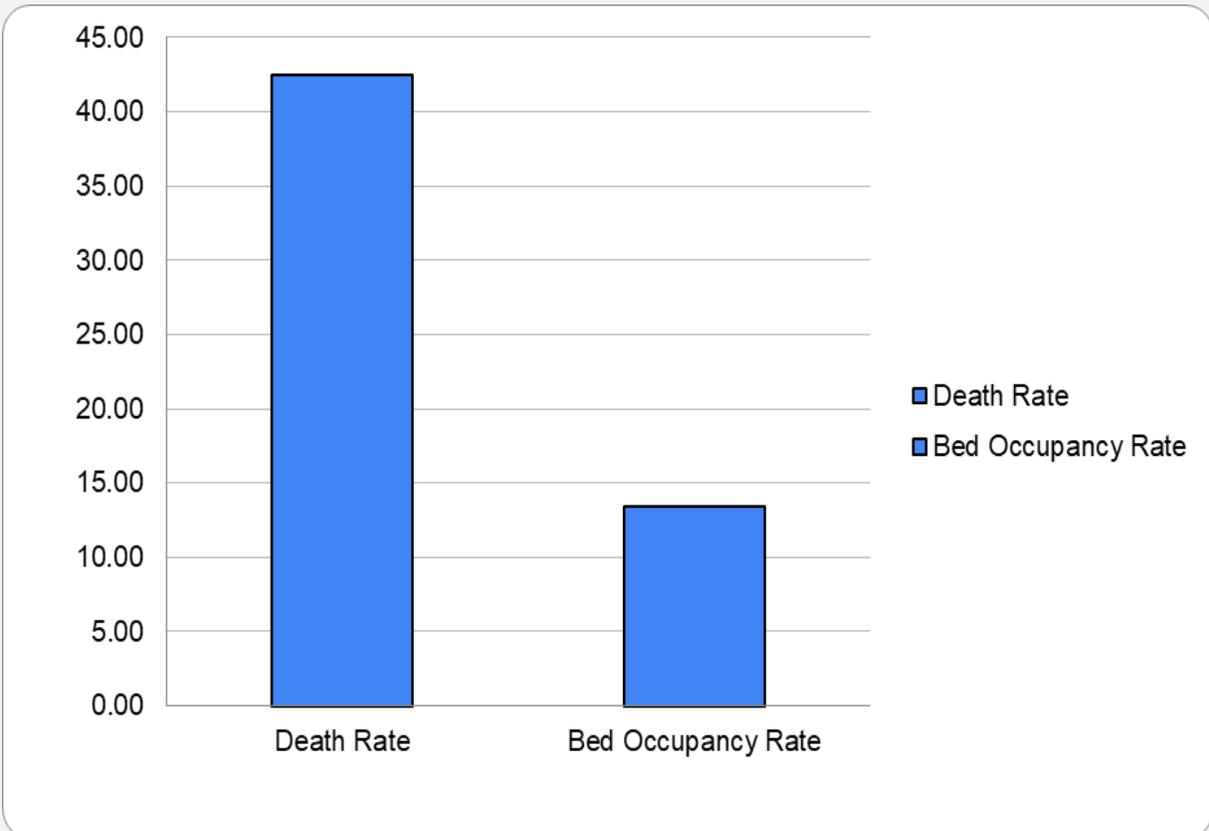


Gender wise admissions in ICU 2019



Total Admissions, On Ventilator, Death Bed Occupancy rate 2020

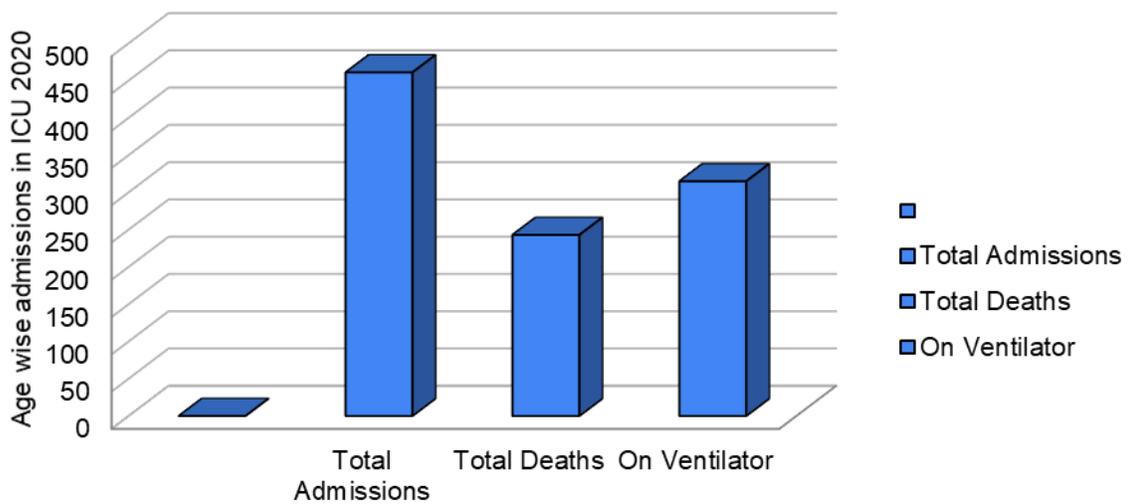
Total Admissions	461
Total Deaths	243
On Ventilator	315
Death Rate	42.51
Bed Occupancy Rate	13.41



Total admissions deaths and ventilated patients 2020

Total Admissions	461
Total Deaths	243
On Ventilator	315

Total admissions, On Ventilator and Deaths 2020



KPIs of Anesthesia Department

Month	Cases Operated							Total
	NCOT	OCOT	MOT	ENT/EYE	UROLOGY	ORTHO	Pain Mang	
JAN	262	686	299	274	114	205	4	1844
FEB	238	632	325	275	93	205	2	1770
MAR	242	639	252	224	87	149	2	1595
APR	210	554	65	0	13	120	1	963
MAY	238	597	47	0	23	106	0	1011
JUN	161	271	0	1	15	53	0	501
JUL	275	257	8	4	13	21	2	580
AUG	290	530	115	99	69	117	0	1220
SEP	281	560	296	262	122	187	0	1708
OCT	290	633	276	253	129	209	3	1793
NOV	257	616	231	397	116	172	0	1789
DEC	243	617	232	195	135	177	4	1603
TOT	2987	6592	2146	1984	929	1721	18	16377

Anaesthesia Plan Modified							Total
NCOT	OCOT	MOT	ENT/EYE	UROLOGY	ORTHO		
0	0	0	0	0	0	0	
0	0	0	0	0	0	0	
0	0	0	0	0	0	0	
0	0	0	0	0	0	0	
0	0	0	0	0	0	0	
0	0	0	0	0	0	0	
0	0	0	0	0	0	0	
0	0	0	0	0	0	0	
0	0	0	0	1	2	3	
0	0	0	0	0	0	0	
0	0	0	0	0	0	0	
0	0	0	0	0	0	0	
0	0	0	0	1	1	2	
0	0	0	0	2	3	5	

Unplanned Ventilation						Total
NCOT	OCOT	MOT	ENT/EYE	UROLOGY	ORTHO	
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
1	0	0	0	0	0	1
1	0	0	0	0	0	1

Adverse Events						Total
NCOT	OCOT	MOT	ENT/EYE	UROLOGY	ORTHO	
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	1	1	0	0	2
0	0	1	1	0	0	2

Mortality						Total
NCOT	OCOT	MOT	ENT/EYE	UROLOGY	ORTHO	
0	0	0	0	0	0	0
0	0	0	0	1	0	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	1	0	0	0	1
0	0	1	0	1	0	2

KPIs of ICU 2020

INDOOR CASES PATIENTS ASSESSMENT

Indicator	Percentage
Time for initial assessment of patients	Immediate
Percentage of in-patients wherein care plan with designed outcome is documented and countersign by clinician.	100%
Percentage of in-patients wherein nursing care plan is documented	100%
Percentage of in-patients wherein screening for nutritional needs has been done.	100%

INVASIVE PROCEDURES

• Percentage of unplanned invasive procedures	27.1%
• Percentage of rescheduling of invasive procedures	8.5%
• Percentage of cases when the organization procedures to prevent adverse events like wrong patient or wrong procedure have to adhered to.	0.0%
• Percentage of cases who received appropriate prophylactic antibiotics within the specified time frame	100.0%

MEDICAL RECORD REVIEW

Percentage of medical record not having discharge summary	0.0%
Percentage of medical record not having codification as per ICD (international classification of disease)	16.7%
Percentage of records having incomplete and/or improper consent	0.0%
Percentage of missing records	0.0%

Research activities 2020

Research activities have been conducted throughout the year in Department of anesthesia & ICU.

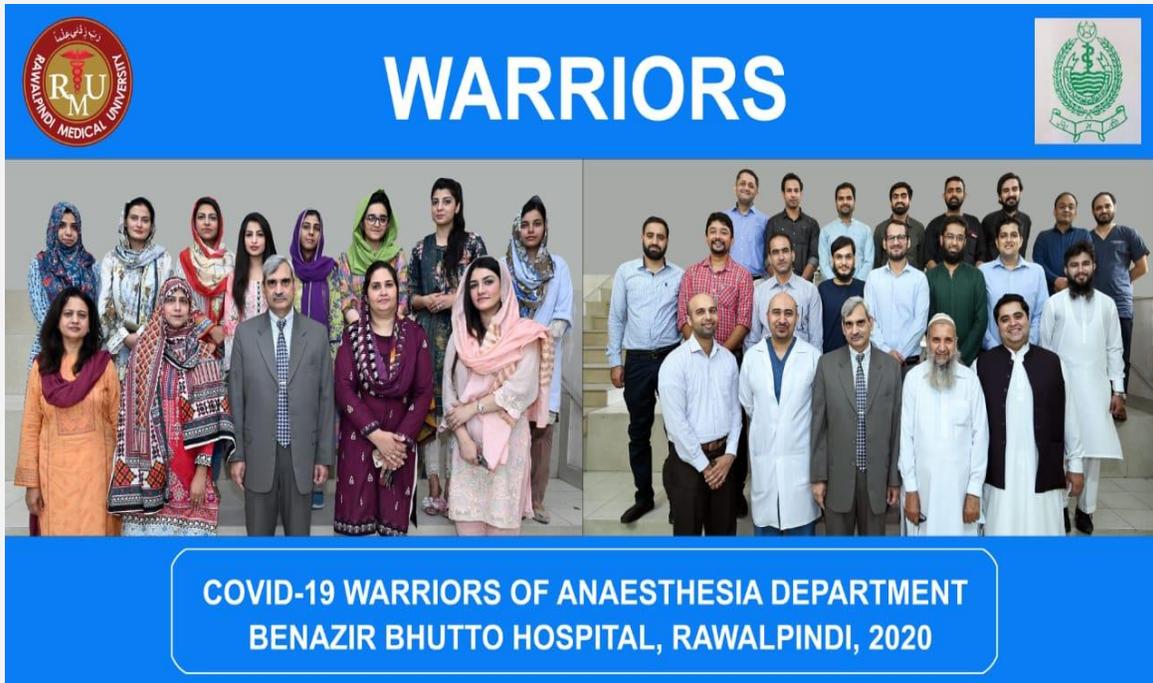
Many research papers have previously been published in Journals of RMU & much more are on verge on completion to be published in the Journal.

Ongoing Researches:

Some of the ongoing researches in department which have been accepted by CPSP/UHS for dissertation.

1. A comparison between 0.5% hyperbaric bupivacaine and 0.5% ropivacaine for sensory and motor block in cesarean section delivery.
2. Comparison of postoperative recovery time after induction with propofol and sevoflurane in patients undergoing laparoscopic cholecystectomy.
3. A comparison between modified saddle block and subarachnoid block for transurethral resection of prostate.

Contribution in Corona Pandemic 2020



In the wake of COVID-19 Pandemic 2020, department of anaesthesia in BBH, was among the front line in Rawalpindi district. Benazir Bhutto Hospital was declared the Centre for Corona patients in first wave. Anaesthesia department played the most dynamic part in the first wave of Corona 2020, performing duties inside & outside BBH & assisting many other departments in the hospital. Department of Anaesthesia was highly praised by health authorities in the district & Health Minister specially thanked Anaesthesia department for their huge contribution in treating & managing COVID Patients,

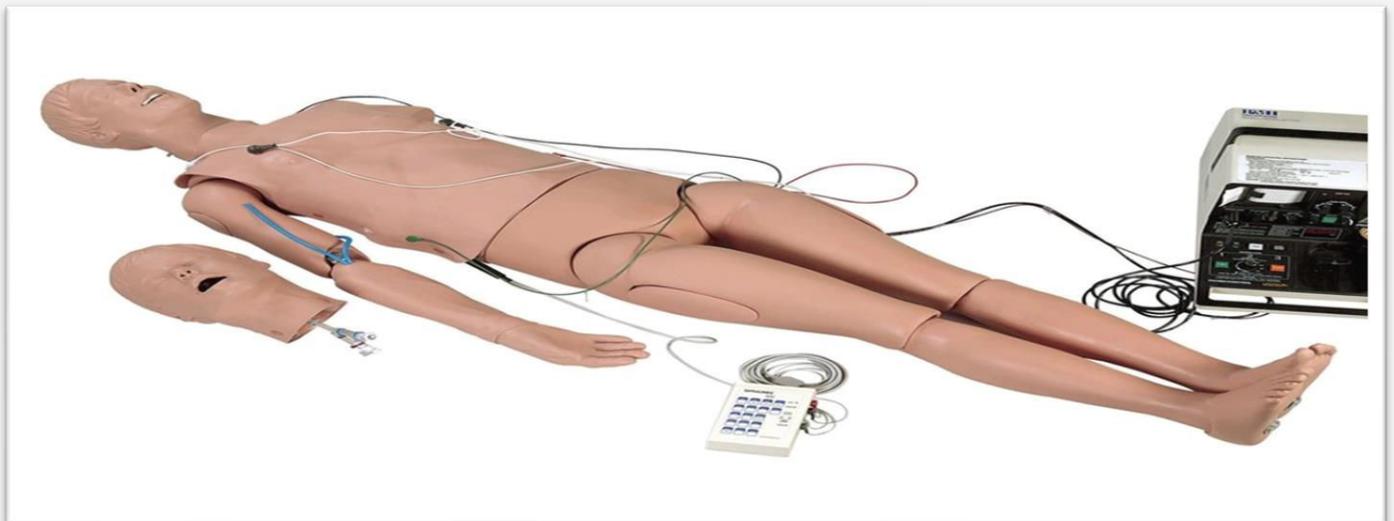
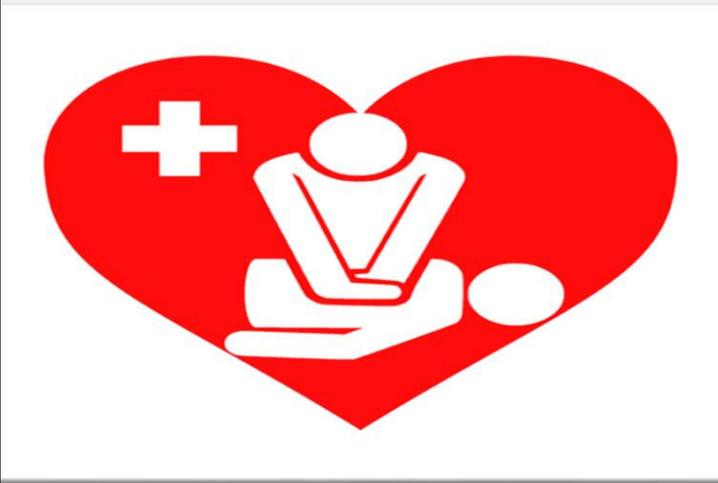
Academic

Sessions

2020

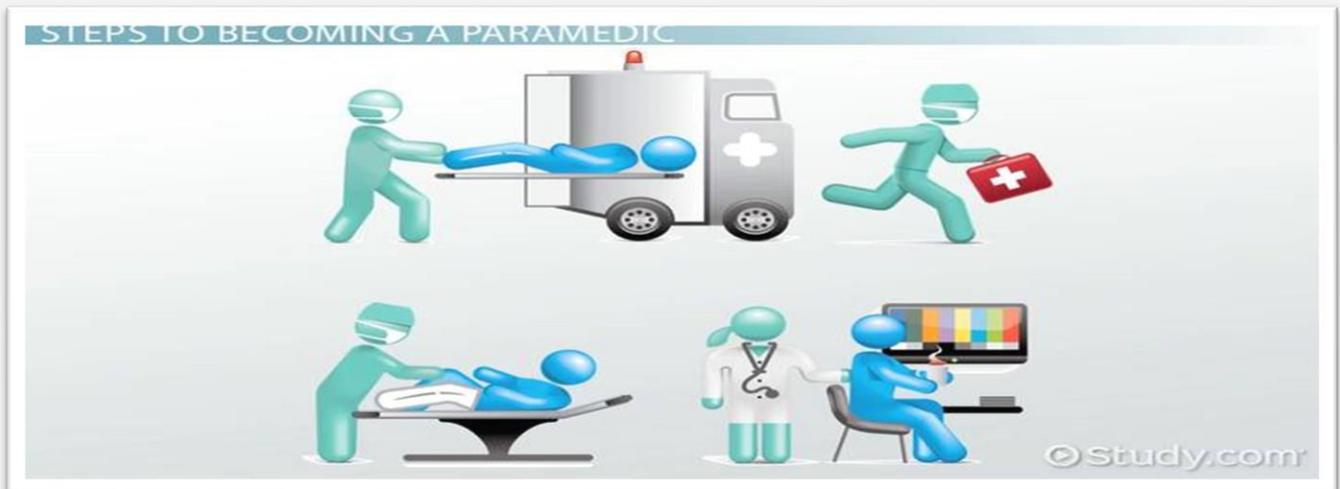
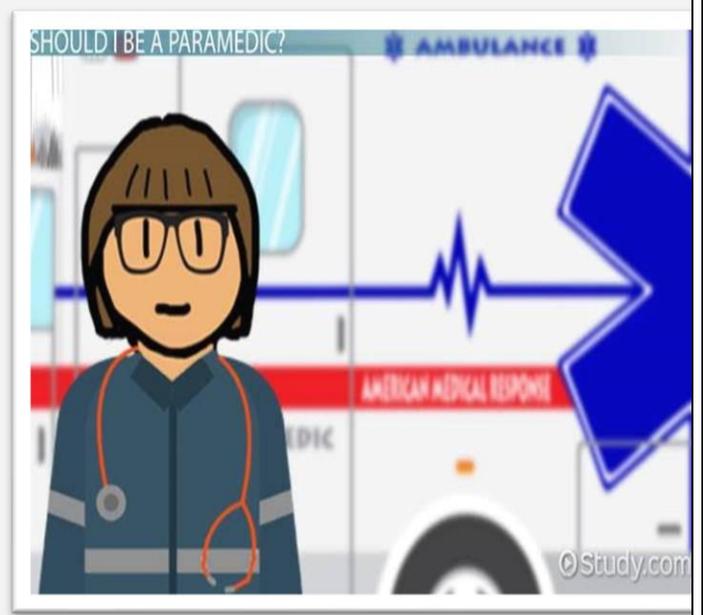
Quarterly BLS & ALS workshops for PGTR MOs and House Officers

The Department of Anesthesiology & ICU in conducting workshops of BLS & ALS on quarterly basis for Post Graduate trainees, Medical Officers & House Officers of the department & doctors of other departments are also invited for participation. The workshops are organized & conducted under the supervision of Head of Department Dr. Muhammad Shafique Choudhary with active participation of Senior Registrars & PGs of the department.



Refresher course for Paramedical staff BBH in Anesthesia 2020

Different types of refresher courses for paramedical staff are organized in department of anesthesiology & ICU. Lectures are conducted by Consultants & Senior Registrars & training sessions are also held for paramedical staff time by time in the department.



Workshop on ‘Ventilatory Strategies in COVID-19 Patients’ **in Department of Anesthesiology BBH Rawalpindi**

An intra departmental workshop on modalities of Ventilation in COVID Patients was conducted in department of Anesthesiology & ICU on June 2020 with collaboration of a well-known pharmaceutical company with active participation of SRs, PGs , MOs & House officers of the department of anesthesiology & Intensive care Unit & many other departments.



Representing BBH in PSA Meeting 2020



2020/10/16 21:50 Islamabad Islamabad Capital Territory

PSA 2020



Interactive Sessions with HOD



Class Sessions in Anesthesia Department





Group Photo of Department male PGTs



Somewhere in Islamabad



Trip to Barooti Margalla Hills



Bari Imam Islamabad visit 2020



**Department Participation in Wedding Ceremony of
Dr.Raheel(PGT)**



Farewell Party of Dr. Umer Farooq (PGT)



THANK YOU

**Dr. Muhammad Shafiq (FCPS
Anesthesia)
Assistant Professor RMU,
Head of Department of
Anesthesia, ICU & Pain Management
BBH Rawalpindi**

