**ANNUAL REPORT 2020**

**DEPARTMENT OF OBSTETRICS AND GYNAECOLOGY**

**DISTRICT HEADQUARTERS HOSPITAL**

 **RAWALPINDI**

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**Mission**

Our mission is to serve the patients coming to us and improve their health regarding Gynecological and obstetrical problems. Our mission is to deal the patients in a polite and humble way and to make them understand their diseases and their management at the hospital and at their homes as well. This mission is accomplished by training and development of medical students, Nurses, Community midwives, undergraduates and postgraduates as safe health care providers and to advance the field of Obstetrics and Gynaecology through translational research. We work towards the mission by integrating education and research with clinical services to all women attending Obstetrics and Gynaecology Department of BBH.

We achieve this through advancement of knowledge, encouragement and conduct of research, application of latest skills and appropriate attitude towards patients.

We are responsive towards needs of our consumers including colleagues and students and we are committed to monitoring and improving our performance. In order to achieve our aims, we provide a productive and satisfying working environment for our staff.

The Department of Obstetrics and Gynaecology is committed to the integration of service, teaching and research functions. Education, Research and best possible health care services are important components of our mission.

**Vision**

In order to provide the best possible care of patients and to train undergraduate and graduates along with innovative research, the department carefully balances the strengths of sub specialization and general practice. All faculty is committed to teaching and scholarly pursuits, as well as high quality patient care.

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**Scope of Services**

Subspecialties of subfertility, Gynaecological Oncology and Urogynaecology have been developed in the department. Other special services are:

* Upgraded Family Planning services
* Oncology services (Radiotherapy and Chemotherapy)
* Upgraded Subfertility management services (IUI center)
* Advanced Blood transfusion services
* Advanced diagnostic facilities (Fluoroscopic imaging)
* Advanced Laparoscopic facilities (Operative)
* Advanced Hysteroscopic facilities (Operative)
* Colposcopy Facility
* Mother craft classes
* Day care center for babies of working doctors
* Lactation management facility
* Development of concept of Day care for patients requiring admission
* Development of Early pregnancy assessment unit

**Training and Teaching Aid**

* Mannequins of pelvis and fetus
* Hands- On Skill Lab
* Departmental Library
* Conference room with multimedia and Skype facility for online video meeting
* Four Computers with internet
* Computer Operator for data entry

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**RAWALPINDI**

DHQ RAWALPINDI is a 750 bedded teaching hospital, affiliated with Rawalpindi medical university Rawalpindi. The department of Gynae/Obs has bed strength of 108 and besides providing clinical services it is recognized for different Postgraduate training programs like FCPS, MS/MD and MRCOG.

**TEACHING FACULTY OF DEPARTMENT**

|  |  |
| --- | --- |
| **Head of Department**Dr TALLAT FARKHANDA(MBBS,FCPS)**Assistant Professor**Dr Rubaba  (MBBS,MCPS,FCPS)Dr. Sobia Nawaz Malik  (MBBS,FCPS,MCPS)  | **Senior Registrar**Dr.kanwal (FCPS,)Dr.Ruqqaya sarfaraz (FCPS,)Dr Madiha Shahid (FCPS)Dr.Tabinda Khalid (FCPS)Dr.Shehla Manzoor (FCPS) |

|  |  |
| --- | --- |
| Medical Officers | 06 |
| Post Graduate Trainees (PGTs) | 20 |
| House Officers | 06 |

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**STATISTICS**

**January 2020 to December 2020**

**Overview**

|  |  |
| --- | --- |
| Total no of patients seen in OPD | 61066 |
| Total no of Patients seen in ER | 12174 |
| Total Admissions | 6379 |
| Admissions through OPD | 2126 |
| Admissions through ER | 4253 |
| Bed occupancy rate | 293% |
| Total maternities | 6974 |
| Cesarean sections | 3004 |
| Vaginal deliveries | 3970 |
| C-Section rate | 43% |
| Total Gynecological surgeries | 192 |
| Major surgeries | 121 |
| Minor surgeries | 71 |
| Maternal mortality ratio | 186.4/100000 |
| Perinatal mortality | 332(47.6/1000 live birth) |

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**STATISTICS**

**OPD**

|  |  |
| --- | --- |
| **Total Patients Seen** | **61006** |
| General OPD | 56761 |
| Consultant OPD | 4245 |
| Ultrasound Room  | 27484 |
| Patients admitted through OPD | 2126 |

**EMERGENCY WARD**

|  |  |
| --- | --- |
|  |   |
| Total patients admitted in ER | 12174 |
| Near miss  | 12 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ANNUAL REPORT 2020****TOTAL ADMISSIONS ( 6379 )**

|  |  |  |
| --- | --- | --- |
|  |  |  |
| Total patients admitted in labour room | 4253 |  |
| Total patients admitted in Antenatal ward | 1725 |  |
| Total patients admitted in Gynae ward |  401 |  |
|  |  |  |

**High Risk Ward (Total Patients Admitted) ( 1725 )**

|  |  |
| --- | --- |
| **Diseases** | **Number** |
| Anemia | 344 |
| Scarred Uterus | 498 |
| Hypertensive Disorders in Pregnancy | 146 |
| Oligohydramnios | 280 |
| Diabetes mellitus | 148 |
| Mal presentation | 02 |
| Polyhydramnios | 82 |
| Placenta previa | 22 |
| Multiple pregnancy | 25 |
| Precious Pregnancy | 84 |
| Cardiac Disease | 02 |
| Thyroid Disease | 05 |
| Liver disorder | 33 |
| Epilepsy | 01 |
| Post dates | 34 |
| IUGR | 34 |
| PPROM | 25 |
| Preterm labour | 09 |
| Congenital Anomalies | 01 |
| Pregnancy with Adnexal cyst | 01 |
| Rh Incompatibility | 00 |
| **NOTE:** \*One Patient can present with more than one factor so the total may not match with the grand total. |

**Gynae Ward (Total Patients Admitted) (401 )**

|  |  |
| --- | --- |
| **Diseases** | **No.** |
| Fibroid Uterus | 102 |
| Adnexal Mass | 49 |
| UV Prolapse | 23 |
| Miscarriages | 25 |
| Carcinomas(07) | Ovary | 02 |
| Cervix | 01 |
| Endometrium | 01 |
| Vulva | 00 |
| Polyp | 19 |
| Molar Pregnancy | 05 |
| DUB | 109 |
| Chronic Ectopic | 00 |
| Bartholin’s Cyst/Abscess | 03 |
| Cervical Cerclage | `17 |
| Perineal tear  | 01 |
| Misplaced IUCD | 17 |
| Postmenopausal bleeding | 05 |
| Septic induced abortion | 03 |
| Hematocolpos | 01 |
| Dermoid Cyst  | 01 |
| Post Op, Ruptured Ectopic |  13 |
| Referred to NORI | 03 |
| Primary Amenorrhea for EUA | 01 |
|  |  |

**ANNUAL REPORT 2020****COVID-19 (PCR positive cases)**

|  |  |
| --- | --- |
| **Total admitted patients** |  **21**  |
| El LSCS |  13 |
| EM LSCS |  03 |
| Anemia |  01 |
| HMB |  02 |
| UV PROLAPSE |  01 |
| FETOMATERNAL SURVEILLANCE |  01 |

 |  |

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**Gynecological Surgeries (192 )**

**Major procedures (121)**

|  |  |
| --- | --- |
| TAH | 24 |
| TAH+BSO | 37 |
| Staging Laprotomy | 08 |
| Laprotomy | 38 |
| Emergency laparotomy | 10 |
| Myomectomy | 04 |
| Sacrohysteropexy | 00 |

**Intermediate and Minor procedures ( 71 )**

|  |  |
| --- | --- |
| Polypectomy | 09 |
| Cervical cerclage | 14 |
| EUA | 12 |
| Removal of IUCD | 8 |
| Pipelle biopsy | 8 |
| ERPC | 9 |
| STOP |  |
| Laparoscopy | 8 |
| Hysteroscopy | 3 |
| Cystoscopy+Proctoscopy |  |

**Obstetrical surgeries ( 3004)**

|  |  |
| --- | --- |
| LSCS  | 3004 |
| Elective Caesarean section  | 768 |
| Emergency Caesarean section  | 2276 |
| Emergency hysterotomy  | 25 |
| Peripartum Hysterectomies  | 23 |
| Correction of Uterine Inversion  | 00 |

**Anesthesia**

|  |  |
| --- | --- |
| General anesthesia |  237 |
| Spinal anesthesia | 2955 |
| Local anesthesia |  |

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**MATERNAL MORTALITY RATIO ( MMR=186/100,000 live births)**

|  |  |
| --- | --- |
| Total deaths | **13** |
| **Disease**  |  |
| Primary PPH | 08 |
| Pulmonary Embolism | 05 |
| Hepatic encephalitis+Covid-19 | 00 |
| Ruptured Uterus | 00 |
| Blood Transfusion Reaction |  |

**PERINATAL MORTALITY**

**PNMR=47/1000 live births**

|  |  |
| --- | --- |
| **Total Perinatal deaths** | **332** |
| Mode of delivery |  |
| SVD |  |
| LSCS |  |
| **Disease**  |  |
| Prematurity (Birth weight 1.2 kg to 2.2 kg |  |
| Neonatal sepsis |  |
| Birth asphyxia |  |
| Meconium aspiration |  |
| CHD |  |
| HIE III |  |
| Dandy walker malformation |  |

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**CONSULTATIONS FROM OTHER DEPARTMENTS**

|  |  |
| --- | --- |
| **Total** | **5,938** |
| **Department**  |  |
| 1.Anaesthesia department | 2290 |
| 2. Radiology department | 1169 |
| 3. Medical department | 959 |
| 4. Surgical department | 22 |
| 5.Cardiology department | 30 |
| 6.Psychiatry department | 04 |
| 7.Dermatology department | 02 |
| 8.Oncology department (NORI) | 04 |
| 9.Paediatric department | 1458 |

|  |
| --- |
| **SPECIAL INVESTIGATIONS** |
| CT Scan | 52 |
| MR I | 06 |

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**Special Services**

|  |  |
| --- | --- |
| **Subfertility clinic** |  |
| Total No. of Patients | 68 |
| Primary Subfertility | 37 |
| Secondary Subfertility | 22 |
| Tubal Factor | 00 |
| Ovarian Factor | 33 |
| Male Factor | 08 |
| Raised Prolactin level | 02 |
| Endometrioses | 02 |
| Unexplained  | 00 |
| Uterine Factor  | 00 |
| Ovulation induction given | 33 |
| Admitted for Diagnostics Laparoscopy | 02 |
| No. of Patients Conceived | 00 |
| Workup not complete | 32  |

\*One Patient can present with more than one factor so the total may not match with the grand total.

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**Special Services**

|  |
| --- |
| **Urogynaecology Clinic** |
| **Total Number Of Patients** | **279** |
| **Age Group** |  |
| > 50 years | 108 |
| Between 40 to 50 years | 124 |
| < 40 years | 47 |
| **Socioeconomic Status** |  |
| Low | 89 |
| Middle  | 169 |
| High | 21 |
| **Urinary Symptoms with Pelvic Organ Prolapse** | 151 |
| UV Prolapse with stress incontinence | 92 |
| Cystocele with stress incontinence | 59 |
| **Urinary Symptoms without Pelvic Organ Prolapse** | 128 |
| Urge incontinence | 05 |
| UTI | 91  |
| Stress incontinence | 24 |
| Mixed incontinence | 06 |
| Urinary retention due to fibroid | 02 |
| Vesicovaginal fistula | 00 |

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**Patients seen in OPD**

**N=71551**

14,283

34286

22982

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**Total patients seen in EMERGENCY and WARD**

**N=8,596**

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**Total Maternities**

**N=7373**

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**Month wise maternities in 2020**

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**YEAR WISE MATERNITIES**

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**EVENTS OF THE DEPARTMENT OF OBSTETRICS AND GYNAECOLOGY**

**BENAZIR BHUTTO HOSPITAL.RWP**

**2020**

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|  |
| --- |
| **ACHIEVEMENTS**  |
| **Research Papers Presentation on national level** | * COVID-19 and Pregnancy Outcome: An Experience in ‘COVID-19 Management Designated’ Tertiary Care Hospital, Rawalpindi, Pakistan

 (presented by Prof.Dr.Shazia Syed in 2nd Annual Faculty Research conference RMU and SOGP Local chapter meeting)* Partial hydatidiform mole with co existing live fetus presented by Dr.Samina Shafqat in 2nd Annual Faculty Research conference RMU
* Study on Basal FSH and Antral Follicle Count in prediction of ovarian reserve among subfertile women presented by Dr Aisha Ishtiaq (PGT) in 3rd Annual resident Research Conference RMU
* Comparison of the effect of myoinositol and metformin on biochemical profile in women with PCOs presented by Wajiha Khanum in 3rd Annual resident Research Conference RMU
 |
| **National Poster presentation** | * Dilemma of large vesical calculus complicating pregnancy presented by Dr.Sawera Sadique (PGT) 2nd Annual Faculty Research conference RMU
 |

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**Conferences and Workshops Attended by Faculty of Department of Obstetrics and Gynaecology, Benazir Bhutto Hospital, Rawalpindi**

* First Mechanical Hysteroscopic Workshop Attended by Prof.Dr.Shazia Syed at Shifa Tamer-e-Millat University on 7th March, 2020
* Urogynaecology and Reproductive Health. 17th International Bhurban Conference on Applied Sciences and Technology Attended by Prof.Dr.Shazia Syed at NESCOM on 16th January, 2020
* Training of District gynaecologist on HIV treatment PPTCT and Pediatric care guidelines organized by Punjab AIDS control program in collaboration with UNICEF Attended by Dr.Samina Shafqat at Flatties Grand Hotel, Gulberg III, Lahore on 30th January, 2020
* Training on clinical management of COVID-19 during pregnancy attended by Dr. Humaira Masood at PIMS, Islamabad on 27th August, 2020
* Workshop on urodynamics attended by Dr. Rehana Kauser at NESCOM Hospital Islamabad on 17th January, 2020
* Workshop on b-lynch suture attended by Dr.Rehana Kauser at NESCOM Hospital Islamabad on January, 2020
* Workshop on Fundamental Biostatistics for researchers using SPSS organized by Indus Pharma attended by Dr.Asima Khan at Benazir Bhutto Hospital, Rawalpindi in 2020.

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 **RESEARCH ACTIVITIES**

**A-RESEARCH PUBLISHED**

***Original Research Articles in PM&DC/HEC approved Journals***

* “COVID-19 and Pregnancy Outcome: An Experience in ‘COVID-19 Management Designated’ Tertiary Care Hospital, Rawalpindi, Pakistan published in Journal of Rawalpindi Medical College (JRMC) Vol 24 No-Supp-1 (2020)”

 Shazia Syed, Humera Noreen,Humaira Masood, IsmatBatool,Hina Gul, Nighat Naheed

**B- ONGOING RESEARCH PROJECT OF FACULTY**

* ***National Research Project;***

Optimisation of Caesarean section rate using ROBSON’s 10 Group classification system’

* ***International Research Project;***

Investigating Efficacy of Tranexamic acid in management of Postpartum-haemorrhage. (Women Trial II)

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**C- ONGOING RESEARCH PROJECT OF FCPS PGTs**

|  |  |
| --- | --- |
| **Name of PGT** | **Title/Topic** |
| Dr.Sawera Sadique | Study of umbilical cord blood ph and its relationship with clinical fetal distress and APGAR score |
| Dr.Sumaira Bibi | Association of maternal uric acid level with fetal outcome in patient with pre eclampsia |
| Dr.Sadia Ejaz | Association between obesity and gestational diabetes mellitus |
| Dr.Irum Baig | Screening and prevention of preeclampsia in 1st trimester |
| Dr.Qudsia Khan | Accuracy of estimated fetal weight sonologically in prediction of actual birth weight in term pregnancies |
| Dr.Aima Ather | Comparison of diagnostic acccurancy of ADNEX and RMI model in predicting the nature of ovarian tumor |
| Dr.Wajiha Khanum | Predictive value of SFH in detection of FGR by taking ultrasound as a standard |
| Dr.Shamin Fazal | Comparison of induction- delivery interval between prostaglanding passry and ICF |
| Dr.Mehmooda Mehdi | Palm-COEIN classification system of FIGO vs the classic terminology in ots with abnormal uterine bleeding |

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**D- ONGOING RESEARCH PROJECT OF MS PGTs**

|  |  |
| --- | --- |
| **Name of PGT** | **Title/Topic** |
| Dr.Aisha Ishtiaq | Comparison of fetomaternal outcome in patient with pre-labour rupture of membrane at term-immediate verses expected management |
| Dr.Unsa Malik | Comparison of ovulation induction response in obes verses non obes patients presented with PCOS |
| Dr.Zahida Saeed | Comparison of obstetric complications after previous one elective vs planned C-Section |
| Dr.Sumaira Mubashir | Frequency of postpartum hemoprhhage in spontaneous VS prostaglandin induced labour |
| Dr.Aiman Shahid | Diagnostic accuracy of transabdominal ultrasound in diagnosis of placenta accrete spectrum in comparison with per operative findings |
| Dr.Sidra Kiyani | Early pregnancy serum lipid profile as a predictor of hypertensive disorder of pregnancy |
| Dr.Tabassum Jahangir | Maternal outcome of membrane sweeping for vaginal birth after c- section |
| Dr.Maryum Iqbal | Diagnostic accuracy of transvaginal Ultrasound in detection of Postmenopausal pathology in comparison with histopathology |
| Dr.Zeeshan Ahmed | Hypoproteinemia as a parameter of poor perinatal/neonatal outcomes in women with preeclampsia diagnosed as hypertension plus proteinuria |

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**ACADEMIC ACTIVITIES OF THE DEPARTMENT OF OBSTETRICS AND GYNAECOLOGY**

**BENAZIR BHUTTO HOSPITAL.RWP**

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**UNDER GRADUATES TEACHING PROGRAM**

 **LECTURE SCHEDULE**

**FOURTH YEAR**

* Lecture conducted once a week in university premises by departmental faculty.

 **FINAL YEAR**

* Lecture conducted once a week in university premises by departmental faculty.

**CLINICAL ROTATAION SCHEDULE**

**FOURTH YEAR**

* Two weeks rotation in divided batches of 4-5 students (four days a week).

 **FINAL YEAR**

* Four weeks rotation in divided batches of 15-18 students (six days a week).

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**ROTATION PLAN FOR UNDERGRADUATE STUDENTS**

* From 10am to 12pm students are rotated at different stations like emergency, OPD and wards.
* From 12 to 2pm students attend a clinical class by teaching faculty.
* Students are also assigned maternity duties from 2pm to 5pm
* At the end of clinical rotation of each batch there is a ward test comprising of OSPE and Long case

**TRAINING PROGRAM OF UNDERGRADUATE STUDENTS**

**INDEPENDANT**

* History Taking
* General Physical Examination
* Abdominal examination of antenatal patient.
* Tracing out CTG
* Post Op care of patients.

**DIRECTLY SUPERVISED /ASSISTED**

* Maintaining IV line
* Urinary catheterization
* PAP smear
* Taking high vaginal swab

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**TRAINING PROGRAM OF UNDERGRADUATE STUDENTS**

**OBSERVED**

* Spontaneous vaginal delivery
* Lower segment C section
* Delivery of placenta By Brands Andrew technique
* Repairing of mediolateral episiotomy
* Resuscitation of newborn baby
* Resuscitation of collapsed patients
* Management of PPH, eclampsia, PROM

**DRILLS ON MENEQUIN**

* Vacuum extraction
* Outlet forceps delivery
* Shoulder dystocia
* Breech delivery
* Fetal dimentions and pelvic diameters on examination model

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**TRAINING PROGRAM OF POSTGRADUATE STUDENTS**

**FCPS**

* 4-years program with six months rotation
* Affiliated with CPSP

**MS/MD**

* 4-years program with one year rotation
* Affiliated with RMU/ UHS

**SCHEDULE OF POSTGRADUATE STUDENTS**

* Post graduate trainings are rotated monthly on different stations with 1/3 calls for first two years and 1/4 calls for next two years.
* Morning meeting is conducted 4-days a week.
* Long case presentation once a week.
* Journal club meeting once a month.
* Maternal mortality meeting once a month.
* Statistical meeting once a month.

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**Equipment and furniture required for the Department:**

* Cardiotocography monitors 12
* Ultrasound machines with abdominal and Vaginal probes 04
* Doppler Ultrasound 01
* Pulse Oximeters 06
* ECG Machines 02
* Glucometer with strips 02
* HDU vital signs monitors 06
* Infusion pumps/Diaflow 06
* Adjustable Hydraulic beds (for all indoor patients in OBS/GYNAE)
* Adjustable Hydraulic Delivery tables 06
* Eclampsia beds 02
* Baby resuscitation trolleys 02
* Baby portable incubators 2
* Mock resuscitation trainer for babies
* Sonic aids 06
* HCG diagnostic kits
* Microscope for Subfertility clinic 01
* Drinking water and washroom facilities for patients and doctors
* Seating arrangements (waiting area for pregnant ladies in OPD and ER)
* Air conditioning facilities (Cold and warm) for patients, doctors and for durability of ultrasound machines
* Office chairs16
* Large office table for ER room 27
* Screens for wards (8)
1. **Demands for doctors:(SRs/MO/HO)**
* Microwave Ovens 02
* Refrigerator 02
* Room chairs 06
* Wooden tables 02
* Wooden beds with room mattresses 05
* AC for SR room

**Note:** For implementation of above-mentioned services and training and for utilization of equipment additional medical and para medical staff and support staff is required along with provision of additional space and infrastructure.

THANK YOU

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**DEPARTMENT OF OBSTETRICS AND GYNAECOLOGY**

**BENAZIR BHUTTO TEACHING HOSPITAL**

**RAWALPINDI MEDICAL UNIVERSITY AND ALLIED HOSPITAL**