

Government Medical College & Hospital, Nagpur
Department of Anesthesiology

LECTURE SERIES PAPER-II
OT EQUIPMENTS AND THEIR MAINTENANCE

S.N.	TOPICS	NAME OF TEACHER
1	Introduction To Various instruments/ Equipment's Used In OT	Dr.Sanjivani Khandare
2	Maintenance Of The Equipment's Must Know; Daily Maintenance Of The Equipment's Such As Operation Table, Suction Machine, OT Lights	Dr.Snehal Mahatme
3	Boyles apparatus and its use Must know: different parts how to check machine for leakage, safety features present in Boyles machine.	Dr.Pranali Gururkar
4	Introduction to endoscope	Dr.Akshay Shende
5	Use and maintenance of various endoscope Must know;-cleaning and sterilization methods. how to store when not in use.	Dr.Sharvari Deshmukh
6	ECG apparatus and its use	Dr.Priyal Yenukar
7	Various LEADS, Recording ECG labelling Must know :- how to connect ECG apparatus to a patient .position of various CHEST LEADS and limb leads how to lable ECG	Dr.Shashank Modak
8	Maintenance of Defibrillator Must know :- charging of defibrillator positions pf paddles, precaution to be taken while defibrillator (shock)	Dr.Vidya Kotmire
9	Connecting patient to monitor Must know;-pulse oximeter what does it show different types of probes.	Dr.Vaishnavi Kulkarni
10	Monitoring standards – minimum and advances Must know : how to take care of airway rate of compression ratio of compression to mouth to mouth breath	Dr.Sailee Jambhulkar

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	<ul style="list-style-type: none"> • How to use personal protective measures before attending patients of infectious disease. • How to handle blood samples, urine, CSF, pleural fluid, peritoneal fluid and stool samples. • How to keep record of improvement and/or deterioration of patient condition. • How to dispose of fomites, swabs, gauze pieces, bandages in OT and ICU. • Proper disposal of used sharps, syringes, IV sets, transfusion sets and blood stained gauze pieces should be taught. • How to prevent cross-infection. 	Dr. Harsh	15/09/25.
12	<p>Nursing care during common diseases like myocardial infarction, congestive cardiac failure, infective hepatitis, peptic ulcer, pneumonia etc. immunization.</p> <ul style="list-style-type: none"> • Importance and role of oxygen inhalation, propped up position, decongestants and availability of suction machine are life-saving. • Monitoring of ECG, saturation, respiration, B.P. are mandatory. • How to inform to the relatives about the seriousness of patient condition. Every day condition of the patient needs to be informed to the relatives. • The importance of nebulization and physiotherapy if needed. • How to explain if patient needs to be artificially ventilated. 	Dr. Divyesh	17/09/25
13	<p>Intake output chart Must know:</p> <ul style="list-style-type: none"> • How to prepare an ongoing chart about intake through IV and RT on day today basis. • How to estimate output of patient from urine, stools, respiration, and sweating, pleural and peritoneal drains daily. • How to record blood loss from pleural, peritoneal, p/v discharge, joint drains and serous discharge from burns. 	Dr. Nivedita.	19/09/25.
14	<p>Study of various blood groups, Method of Blood transfusion, Indication, hazards of blood transfusion</p> <p>Must know:</p> <ul style="list-style-type: none"> • ABO blood grouping system and Rh typing of blood. • Standard universal color coding of blood groups. • Cross-matching and need to recheck and documentation on paper. • System of numbering of blood bags, registration number of patients and entry of dates of collection and supply of blood and blood product bags. • Importance of checking the date of expiry. • How to put entries on important papers during transfusion. Need to put the signature of the individual who initiates BT. • Importance of monitoring blood transfusion and how to identify reaction to incompatible blood. • Importance of reporting a transfusion reaction to concerned blood bank. 	Dr. Mubam.	22/09/25.
15	Diabetes-Blood collection for blood sugar measurement, use of glucometer		

4 Information about registers related to drugs, record of equipment's, working or not, AMC/CMC, daily maintenance

Must know:

- Stock books are maintained to enlist the equipment in the department. For example, total number of monitors, ventilators, computers, printers etc.
- List of equipment in working condition with all its accessories labelled, is also important.
- Manufacturing companies take the responsibility of maintenance by accepting AMC or maintenance by comprehensive plan.
- All such permanent record papers are to be filed sequentially.

Dr
Vaiishani 9/10/25
(SR)

5 Maintaining records of consumables related to equipment's

6 Receiving & Identification of patient in OT. With Records & Investigations.

7 O.T environment control & Lighting system.

} Dr. Snehal 18/10/25
- Dr. Akshay 15/10/25

Dr. Snehal
Dr. Snehal Dhalane
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anesthesia

Sr. No.	Topics	Lecturer or S.R	DATE
1	Introduction to anesthesia Must know: Lay out of OT e.g. sterile and unsterile zones, pre and post-operative rooms, autoclave room, washing area, dirty area and area for setting up of trolleys. Importance of monitoring central supply of Oxygen, N ₂ O, air compressor and suction machine. Knowledge of portable cylinders	Dr. Divyesh	12/06/25
2	Pre procedure protocols Must know: Checking that OT lists are available or not. Record keeping of OT list, helping the OT staff to set up preoperative room with beds, mattresses, linen, Oxygen source, suction machine, IV stands, Anesthesia machine, emergency drugs, IV fluids and airway trolley. Check the correctness of patients' names, age, address, type of surgery and consent for surgery.	Dr. Ralhmj	16/06/25.
3	Identification and use of anesthesia resuscitation equipment's available on trolley. (Ambu bag, endotracheal tubes size, tracheostomy tray) Must know: Identification of Ambu bag, endotracheal tubes of various types	Dr. shruti.	18/06/25

Bhushan
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 2nd yr BPMIT

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LECTURE SERIES PAPER-III

RESUSCITATION AND RECENT ADVANCES IN OT TECHNOLOGY

S.N.	TOPICS	NAME OF TEACHER
1	Sign Symptoms Of Hemorrhage And Shock Cardiac Arrest	Dr.Jully Tiple
2	Preparation of intravenous therapy blood and platelet, FFP, Albumin Transfusion Must Know:- How To Start Intravenous Therapy Checking Of Blood	Dr.Snehal Mahatme
3	Infusion fluid in common use Must know :-what are the commonly use infusion fluids	Dr.Priyanka Shinde
4	Intravenous access Must know:- what precautions to be taken	Dr.Vrushali Mahatme
5	Maintenance and utility of high end equipment's	Dr.Sanjivani Khandare
6	Modular theatre functioning	Dr.Shashank Modak

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	<ul style="list-style-type: none"> • Various dilutions and percentages. • Importance of reading labels and preparing drugs after proper and correct labelling methods as adopted by the treating Anesthesiologist. • Knowledge of operating syringe pumps. 		
13	<p>Preanesthetic evaluation, consent for surgery-anaesthesia. Must know:</p> <ul style="list-style-type: none"> • Any patient coming to OT for elective procedure should be entered on OT list. Such cases need to be previously evaluated by the Anesthesiologists. • Practice to check pre-anesthesia notes are attached to the case paper. • Check the correctness of patients' names, age, address, type of surgery and consent for surgery. Check preoperative blood investigations are available, check entry of figures in the computer. • Check entry of anesthesia and surgeons' names in computer. • Check availability of all concerned forms to case paper like registration number, MRD number, Rajeev Gandhi scheme entry criteria. • Check MLC number, Consent from Medical Superintendent of Mental Hospital in case mental patient is operated. Also consent from jail authority if a prisoner is getting operated. 	Dr. Pranali	7/07/25.
14	<p>Local and sedation-Preparation, position of patient, required drugs, doses, side effects.</p> <p>Must know:</p> <ul style="list-style-type: none"> • Check for OPD/IPD numbers and papers. See if surgery is advised on paper. • Check NBM status, accompanying persons present or not. • Patient positioning as per Surgeon's advice. Arrange for arm-boards, leg-boards, backrests, stirrups, eye-pads and earplugs. • Setup monitors; ask for need for IV line. • Arrange for required drugs as desired by the anesthetists. • Monitor for vomiting, retching, flushing, rashes, itching etc. 	Dr. Priyanka	10/07/25.
15	<p>Spinal anaesthesia-Preparation, position of patient, required drugs, doses, side effects.</p> <p>Must know:</p> <ul style="list-style-type: none"> • Confirm NBM, consent, nature of surgery, patient name and surgery on OT list, IPD number and whether patient is accompanied with relatives or not. • Position for spinal anaesthesia. Make available agents used for part preparation. • Provide sterile spinal tray. Teach about disposal of used items. 	Dr. Shrutika	14/07/25.
16	<p>Epidural anaesthesia-Preparation, position of patient, required drugs, doses, side effects.</p> <p>Must know:</p> <ul style="list-style-type: none"> • Same as above for Epidural anaesthesia. • Content of epidural set, sterilization and need to maintain epidural catheter for post-operative analgesia in recovery room. 	Dr. Samta	16/07/25.

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LECTURE SERIES PAPER-I

ROLE OF TECHNICIAN DURING SPECIALIZED ANAESTHESIA AND SURGERY
(EMERGENCY MEDICINE)

S.N.	TOPICS	NAME OF TEACHER
1	Emerging Procedures Surgical & Trauma	Dr.Vaishnavi Kulkarni
2	Hypovolemic of Haemorrhagic Shock	Dr.Dipali Vidole
3	Thoracic Surgery	Dr.Sanjivani Khandare
4	Cardiac Surgery	Dr.Jully Tiple
5	Obstetric & Gynecology	Dr.Priyanka Shinde
6	Oncology Surgery	Dr.Manish Patil
7	First Aid in Case Of Shock Artificial Respiration	Dr.Priyal Yenukar
8	First aid of fracture dislocation and sprains, preparation of such for OT	Dr.Vidya Kotmire
9	Classification & Application Of Splints	Dr.Rashmi Atkari
10	Poisoning-Clinical Features And First Aid (Organo Phosphorus) Snake And Scorpion Bites And Sedative Poisoning	Dr.Pranali Gurukar
11	Burns & Scars Rule Of First Aid	Dr.Sailee Jambhulkar
12	Common Causes and First Aid Of Unconsciousness	Dr.Snehal Mahatme
13	Heat Stroke And	Dr.Sharvari Deshmukh
14	First Aid In Case Of Drowning	Dr.Akshay Shende
15	Transport Of Accident Casualties	Dr.Sneha Pawaskar
16	Basic Life Support	Dr.Mansi Sawarkar


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