

ANAESTHESIOLOGY/INTENSIVE CARE/EMERGENCY DEPT

Template for Minimum standards for Hospital	BASIC (General purpose)	Advance (Non Teaching)	Remarks
1 Definition			
2 Scope	Providing Anaesthesia services for Surgical Specialities eg. (General Hospital with Single Specialities/Multiple Specialities example CHC SDH,DH,Civil Hospital,Private Hospital,Nursing Home) etc	Providing Anaesthesia services for Surgical Specialities and Superspecialities example Civil Hospital, Regional Hospital,Nursing Home,Private Hospital etc.	
I Services Provided			
1.General purpose	Yes		
2.Single Speciality	Yes	Yes	
3.Multispeciality	Yes	Yes	
4.Superspeciality	NA	Yes	
3 Human resources			
1.1 Doctors			
	1 Qualified Anaesthetist/OT/ per operation	1 Qualified Anaesthetist/OT/ per operation	M-Mandatory One Anaesthetist per OT per 8hour shift, subject to a maximum of 42 hours per week per anaesthetist. Full time employment not mandatory
	MD/DNB/Diploma Anaesthesia	MD/DNB/Diploma Anaesthesia	M-Mandatory
			D-Desirable
		1 consultant Intensivist/6 ICU Beds **	* D-Desirable (MBBS Doctor with training in emergency Medicine or Sr. Resident) ** M- Mandatory
Duty Doctors		1 MBBS Doctor/6 ICU Beds /for round the clock medical cover **	* D ** M
1.2 Nurses			
Nursing head	1 Head Nurse/OT	1 Head Nurse/OT	As per Nursing Council norm
General nurses	1 Nurse/OT	2 Nurses/OT	M

	Trained Nurses for ICU/OT/HDU		1 Nurse/1 Ventilator patient; 1 Nurse/1NICU Beds;1 Nurse/2 ICU beds	M
	1.3 Pharmacist			part of hospital
	1.4 Para Medical staff			
	Lab Tech	NA for Anaesthesia	NA for Anaesthesia	
	Xray Technician	NA for Anaesthesia	NA for Anaesthesia	
	OT Technician	1/OT;I Supervisor/2 OT	1/OT;I Supervisor/2 OT	M- Mandatory
	ECG Technician	NA for Anaesthesia	NA for Anaesthesia	
	Dietitian	NA for Anaesthesia	NA for Anaesthesia	
	Physiotherapist	NA for Anaesthesia	NA for Anaesthesia	
	Psychologist	NA for Anaesthesia	NA for Anaesthesia	
	Medicosocial worker	NA for Anaesthesia	NA for Anaesthesia	
	1.5 Support Staff			
	a.Receptionist & Billing	Yes	Yes	part of hospital
	b.MRD Office	Yes	Yes	part of hospital
	c.Securityclosed circuit surveillance and sanitation	Yes	Yes	part of hospital
	d.Transport facility including driver	Yes	Yes	Own or outsource
	e.Data entry operators	Yes	Yes	part of hospital
	f.House keeping	Yes	Yes	M
	1.6 Rapid Response Team	Yes	Yes	part of hospital
	1.7 others			
	Policy Manpower/ posting/ rotation/ of medical and ALLIED HEALTH PROFESSIONAL	Yes	Yes	M
	STANDARD PERTAINING TO PERSONAL RECORD KEEPING AND TRAINING	Yes	Yes	M
	PAYMENT/ROSTER OF STAFF	Yes	Yes	part of hospital
	OTHER REQUIREMENT LIKE PERIODIC HEALTH CHECK UPS,vaccination of staff in lab,bld bank,TLD badges	Yes	Yes	part of hospital policy
	4 Equipment			

Therapeutic	OT- Anaesthesia Work Station (Anaesthesia Delivery System) attached to cylinders and /or piped gases, Defibrillator for one OT complex of twin theatre depending upon the type of cases, can be reduced for ASA grade 1 or 2 cases , Laryngoscopes with blades of all sizes. Endotracheal tubes of all sizes, Anatomical face masks of all sizes, Guedal's Airway of all sizes, Laryngeal Mask Airway of all sizes, Intubating Stylet and Bougie. Central venous canulation set, Spinal and epidural set	D type Oxygen cylinders / O2 tank and / or concentrator .Liquid oxygen set up with emergency cylinder supply, Nitrous oxide supply through cylinders bank, Medical Air supply and vacuum set up.Piped medical gases.Anesthesia Equipment Anesthetic /machine with hypoxic guard and inbuilt oxygen analyser.Anesthesia monitor with facility for monitoring SpO2, Pulse rate, NIBP, ECG and EtCO2.Anesthesia monitor with facility for monitoring SpO2, Pulse rate, NIBP, ECG, temperature and EtCO2 . Flexible Fibreoptic Bronchoscope Self inflating resuscitator bag and mask - adult and neonatal sizeAnesthesia Equipment Laryngoscope with blades of all sizes Endotracheal tubes of all sizes Magill`s forceps Intubating stylet and bougie Oral and nasal airways (all sizes)Anesthesia Equipment Laryngoscope with blades of all sizes Endotracheal tubes of all sizes Magill`s forceps Intubating stylet and bougie Oral and nasal airways (all sizes) Laryngeal mask airway (classic/proseal , all sizes) Anatomical face masks all sizes Breathing circuits (Adult and pediatric) Laryngeal mask airway (classic/proseal , all	
Surgical		percutaneous tracheostomy set, cricothyrotomy set,	
Diagnostic		ultrasound for nerve blocks and central venous cannulation	

Emergency	<p>Equipment: Difficult Airway Cart, Oxygen cylinders with flow meter/tubing/catheter/face mask/nasal prongs, Suction apparatus (electrical and manual, central optional), Portable defibrillator with accessories, Equipment for dressing/bandage/suturing, Basic Diagnostic equipment: BP apparatus, stethoscope, weighing machine, thermometer, ECG machine, Pulse oximeter, nebulizer and accessories.</p> <p>Emergency Drugs: Injections: Diazepam, Furosemide, Ondasetron, Ranitidine, Nor-adrenaline, Phenytoin, Diclofenac, Deriphylline, Chlorpheniramine maleate, Hydrocortisone, Atropine, Adrenaline, KCl, Sterile water, Sodium bicarbonate, Dopamine, Naloxone (400mcg), Lignocaine (preservative free (50m)l, Suxamethoium, Atracurium/ Vecuronium/ Rocronium, Neostigmine, Calcium Chloride and gluconate, Morphine/ Pethidine, Metoclopramide, Tramadol, Salbutamol Nebulizer, Steroid (Budesonide) Nebulizer, Lignocaine Jelly, Activated Charcoal: IV Fluids: Ringer lactate/acetate, Normal saline, (500, 250, 100 ml), 5% dextrose, 10% dextrose, 10% Dextrose, Paediatric Infusion slolution,</p>	<p>Equipment: Difficult Airway Cart, Oxygen cylinders with flow meter/tubing/catheter/face mask/nasal prongs, Suction apparatus (electrical and manual, central optional), Portable defibrillator with accessories, Equipment for dressing/bandage/suturing, Basic Diagnostic equipment: BP apparatus, stethoscope, weighing machine, thermometer, ECG machine, Pulse oximeter, nebulizer and accessories</p> <p>Emergency Drugs: Injections: Diazepam, Furosemide, Ondasetron, Ranitidine, Nor-adrenaline, Phenytoin, Diclofenac, Deriphylline, Chlorpheniramine maleate, Hydrocortisone, Atropine, Adrenaline, KCl, Sterile water, Sodium bicarbonate, Dopamine, Naloxone (400mcg), Lignocaine (preservative free (50m)l, Suxamethoium, Atracurium/ Vecuronium/Rocronium, Neostigmine, Calcium Chloride and gluconate, Morphine/ Pethidine, Metoclopramide, Tramadol, Salbutamol Nebulizer, Steroid (Budesonide) Nebulizer, Lignocaine Jelly, Activated Charcoal: IV Fluids: Ringer lactate/acetate, Normal saline, (500, 250, 100 ml), 5% dextrose, 10% dextrose, 10% Dextrose, Paediatric Infusion slolution,</p>	<p>Difficult airway cart would include the following items: Resuscitation equipment including Laryngoscope with cells and different blades, endotracheal tubes of all sizes (2.5 TO 8.5mm ID), suction equipment (electrical and manuall, central optional), lignocaine spray, oropharyngeal and nasopharyngeal airways, anatomical face masks (all sizes) self inflating resuscitator bag- Adult & Paediatric (neonatal if indicated) laryngeal mask airway .</p>
Sterlizing	Yes	Yes	M-Mandatory

Drugs,Medical devices and consumables	Anaesthesia Inductions Agents: Thiopentone/ Propofol/ Ketamine / Etomidate (optional), Inhalational Agents: Sevoflurane/ Isoflurane/ Halothane: Muscle Relaxants: Suxamethonium, Vecuronium/ Pancuronium/ Atracurium/ Rocuronium, Opioids: Pentazocine/ Tramadol/ Morphine/ Pethidine, Fentanyl/ Buprenorphine, Others: Neostigmine, Atropine, Glycopyrolate, Midazolam, Diazepam (Inj & Tab), Alprazolam (tab), Diclofenac (Injection, and suppositories), Paracetamol (Inj and suppositries), Adrenaline, Magnesium sulphate and other emergency drugs to be finalized in the meeting	Anaesthesia Inductions Agents: Thiopentone/ Propofol/ Ketamine / Etomidate (optional), Inhalational Agents: Sevoflurane/ Isoflurane/ Halothane: Muscle Relaxants: Suxamethonium, Vecuronium/ Pancuronium/ Atracurium/ Rocuronium, Opioids: Pentazocine/ Tramadol/ Morphine/ Pethidine, Fentanyl/ Buprenorphine, Others: Neostigmine, Atropine, Glycopyrolate, Midazolam, Diazepam (Inj & Tab), Alprazolam (tab), Diclofenac (Injection, and suppositories), Paracetamol (Inj and suppositries), Adrenaline, Magnesium sulphate and other emergency drugs to be finalized in the meeting	
List of disposables	Endotracheal tubes, Spinal sets, Epidural sets, Central venous canulation sets	Endotracheal tubes, Spinal sets, Epidural sets, Central venous canulation sets,arterial cannula, laryngeal mask airways	M
Annual Maintenance records of equip	Yes	Yes	M
5 Support Service			
Reception & Billing	Yes	Yes	part of hospital
Laboratory	Yes	Yes	part of hospital
Imaging	Yes	Yes	part of hospital
Pharmacy	Yes	Yes	part of hospital
sterlization/CSSD	Yes	Yes	M
Laudry/Kitchen	Yes	Yes	part of hospital
Medical Gas/Manifold	Liquid oxygen set up with emergency cylider supply, Nitrous oxide supply through cyliders bank, Medical Air supply and vacuum set up	Liquid oxygen set up with emergency cylider supply, Nitrous oxide supply through cyliders bank, Medical Air supply and vacuum set up	part of hospital
Blood storage unit/blood Bank	With adequate storage of all blood groups and blood products depending upon the requirement of Hospital set up	With adequate storage of all blood groups and blood products depending upon the requirement of Hospital set up	part of hospital
Amb service	Yes	Yes	part of hospital Own or Outsource