

Number of lectures taken/year. Topics covered

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Year	Number of lectures taken	Topics covered
2017	14	1. Anatomy of upper and lower airway
		2. Respiratory mechanics
		3. Lung volumes and capacities
		4. Oxygen transport and effects of hypoxia
		5. Carbon dioxide transport
		6. Haemoglobin
		7. Cardiac cycle
		8. Coronary circulation
		9. J.V.P.
		10. Pulse oxymetry
		11. Conduction system of the heart, Action potential
		12. E.C.G.
		13. Renal Physiology, counter current mechanism
		14. Buffering system of the body
Year	Number of lectures taken	Topics covered
2018	13	1. Liver – microanatomy, circulation, functions of liver
		2. Bile synthesis, metabolism, entero-hepatic circulation
		3. Liver Function tests
		4. A patient with obstructive jaundice posted for whipple’s
		5. Anaesthesia in a patient with chronic liver disease
		6. Hypertension, anti hypertensives and anti arrhythmics
		7. Thyroid – anatomy, physiology
		8. Thyroid function tests- Hyper and hypo thyroidism
		9. Problems encountered in thyroid surgery
		10. Diabetes mellitus
		11. Diabetes mellitus – perioperative glucose control
		12. Fluids and electrolytes
		13. Cerebral physiology – CPP, ICP

Year	Number of lectures taken	Topics covered
2019	13	1. Spinal cord , CSF, Neuroaxial blocks
		2. Anaesthesia work station
		3. Vaporizers,
		4. Uptake distribution and elimination of inhalation anaesthetics
		5. Pulmonary Function tests
		6. Autonomic nervous system
		7. Bronchial asthma and COPD
		8. Mitral stenosis and anaesthesia
		9. Pheochromocytoma
		10. Thoracic anaesthesia
		11. Anaesthesia in a patient of Lung abscess, broncho-pleural fistula
		12. Fat embolism
		13. Laparoscopic surgery – anaesthetic challenges
Year	Number of lectures taken	Topics covered
2020	12	1. Hypoxic injuries
		2. Capnography
		3. Water balance, Sodium and potassium metabolism
		4. Pulse oxymetry
		5. TURP
		6. Steroid synthesis, metabolism
		7. Physics in anaesthesia
		8. Anaesthesia machine
		9. Muscle relaxants
		10. Liver Function tests
		11. BLS
		12. ACLS

Year	Number of lectures taken	Topics covered
2021	15	1. Oxygen dissociation curve, Chloride shift, ATP
		2. ECG
		3. Capnography
		4. Pulse oxymetry / intra arterial monitoring
		5. Mitral stenosis with pregnancy
		6. Lung function tests
		7. IHD and anaesthesia
		8. Hyper and hypothermia
		9. Tracheo- oesophageal fistula
		10. Obstructive jaundice
		11. Chronic kidney disease- Dialysis
		12. Obesity and anaesthesia -
		13. Difficult intubation
		14. PAC
		15. OPD anaesthesia

PAPERS

1. Goswami S, Kundra P, Bhattacharyya J. Pectoral nerve block1 versus modified pectoral nerve block2 for postoperative pain relief in patients undergoing modified radical mastectomy: a randomized clinical trial. Br J Anaesth. 2017; 119(4): 830-835
2. Pal S, Bhattacharya J. A comparative study of Ramosetron and Granisetron for prevention of post operative nausea and vomiting in patients undergoing laparoscopic gynecological surgeries under general anesthesia. Indian Journal of Applied Research 2019July; 9(7):17-19.

TRAINING

Attended the training programme on “*Medical Education, Research and Technology*” from 24.03.2014 to 29.03.2014 in the INSTITUTE OF HEALTH & FAMILY WELFARE, Kolkata- 700091.