



# Department of Anesthesia, Surgical Intensive Care & Pain Management

Logbook of MD





# Personal Data

Name:
Department:
Mobile Number:
E-mail Address:  MD Degree:  Date of registration:/
Signature.
Head of the Department  Vice Dean for Research and Postgraduate Study





#### Aim of the Logbook.

To provide evidence that the candidate attained the desired level of competence required to gain the award. In this book, the candidate will document all academic and clinical skills he/she attained during their training.

#### Important regulations (for MD candidates):

- -To be legible for the first part MD exam you have to attend at least 70% of the lectures of each course in the semester as evidenced by the logbook
- -To be legible for the (MCQ online) exam at the end of each of second part semesters you have to attend at least 70% of the lectures of each course/module in the semester as evidenced by the logbook.
- To be legible for the final MD exam:
- 1- A time interval of 36 months must pass since the day of degree registration.
- 2- You have to take your practical/clinical training three times/week for two years
- 3-You have to register 5 semesters on Ibn-lhaythm registration page.
- 4- You have to attend 70% of the lectures of each course in the second part of MD degree.
- 5- You have to fulfill and perform 70% of the practical skills documented in the logbook.





## Bylaws of the MD Semesters of Anesthesia, ICU & Pain

Semester	Subjects
First	Basics of biophysics and clinical measurements
Second	Thesis registration
Third	Anesthesia (1) Obstetric anesthesia CVS anesthesia Cardio-thoracic anesthesia Renal anesthesia Applied physiology related to anesthesia, ICU & pain
1:9	Applied pharmacology related to anesthesia, ICU & pain
Fourth	Anesthesia (2) CNS anesthesia GIT anesthesia Orthopedic anesthesia ENT anesthesia ICU
Fifth	Anesthesia (3) Respiratory anesthesia Ophthalmic anesthesia Endocrine anesthesia Pediatric anesthesia Pain management
Sixth	Elective course: Radiology





## Contents

Section I: Scientific Lectures

Section II: Procedures

Section III. Clinical Rotation

Section IV: Seminars

Section V. Student Teaching Sections

Conferences/Workshops)

Activities (Conferences/Workshops) Section VI: Scientific Activities (Conferences/Workshops)





# **Section I:**

# Scientific Lectures

Insert the suitable number of timetables for each of first and second part courses taking into account:

- 1- The number of lectures of each course and its teaching hours which are determined by its credit hours (1credit =15 teaching hours).
- 2- The timetables of each course should be copied from its course specification.
- 3- The timetables must be updated each time the course specification is updated.





Name of the course: Basics of biophysics

Compulsory/Elective: Compulsory First/Second part: First

Date	Title of the lecture	Lecturer's signature
	Basic physics of atoms	
	Simple mechanics	
	Viscosity, density, baricity	
	Diffusion, osmosis, osmolarity	
	Solubility	- 5
	Saturated vapor pressure	
14	Biological membranes	
1.5	Sine wave and wave patterns	14
.0	Resonance and damping	V-
3	Physics of heat	THE PERSON NAMED IN COLUMN 1
P	Physics of temperature	
12	Physics of pressure	C
100	Physics of electricity	
18	Electrical safety	3/
	Flow measurement 1	
	Flow measurement 2	
	Volume measurement 1	
	Volume measurement 2	
	Pressure measurement 1	
	Pressure measurement 2	
	Laminar flow	
	Turbulent flow	





	Flow principles and effects	
	Gas laws 1	
	Gas laws 2	
	Humidity 1	
	Humidity 2	
	Transducers 1	
	Transducers 2	
	Gas Chromatography & spectrometry	
	Measurement of O <sub>2</sub> , Co <sub>2</sub> , anesthetic agents	
	Measurement of H+	p.1
	Gas supply system	
131	Gas cylinders	31-
1:0	Anesthesia machine 1	12
	Anesthesia machine 2	111
2	Anesthesia machine 3	7
1	Anesthesia machine 4	
\ (P)	Ventilator wave analysis 1	2
10	Ventilator wave analysis 2	9
10	Vaporizers 1	4/
	Vaporizers 2	
	Flowmeters	
	Anesthetic circuits 1	
	Anesthetic circuits 2	
	Oxygen delivery systems	
	Gas scavenging systems	
	ECG 1	
	ECG 2	





	Pulse oximetry	
	Capnography	
	Pulmonary artery catheterization	
	Non-invasive blood pressure monitoring	
	Invasive blood pressure monitoring	
	CVP monitoring	
	Temperature monitoring	
	COP monitoring	
	Blood flow measurement (Doppler)	
	Monitoring of CNS	p.1
	Neuromuscular monitoring	
13/	Physics of patient positioning 1	2
20	Physics of patient positioning 2	
	ECHO physics 1	
5	ECHO physics 2	
1	The Operating Room safety 1	
100	The Operating Room safety 2	2
10,	Cardiac pacing and defibrillation 1	0 /
	Cardiac pacing and defibrillation 2	4 /
	Ultrasound 1	
	Ultrasound 2	
	Laser	
	MRI	
	Radiation physics	
	Energy and power	
	Fires and Explosions	





Name of the course: Anesthesia 1

Compulsory/Elective: Compulsory First/Second part: Second

Date	Title of the lecture	Lecturer's signature			
Obstetric a	Obstetric anesthesia				
	Changes during pregnancy 1				
	Changes during pregnancy 2				
	Anesthesia for normal labor 1				
	Anesthesia for normal labor 2	2-1			
	Anesthesia for cesarian section 1				
	Anesthesia for cesarian section 2	3			
1:0	Preeclampsia: pathophysiology	V			
2	Preeclampsia: management 1	Ш			
12	Preeclampsia: management 2	2			
12	Eclampsia	Cil			
10	Pre-partum hemorrhage: placenta previa	2/			
	Pre-partum hemorrhage: types	0 /			
	Pre-partum hemorrhage: management				
	Post-partum hemorrhage: types				
	Post-partum hemorrhage: management				
	Obstetric patient & CVS diseases 1				
	Obstetric patient & CVS diseases 2				
	Obstetric emergencies 1				
	Obstetric emergencies 2				
	Anesthesia of pregnant for non-obstetric surgery 1				
	Anesthesia of pregnant for non-obstetric surgery 2				





CVS anesthes	sia & Cardio-thoracic surgery	
	Cardiac cycle	
	Coronary circulation	
	Waveform analysis	
	Pharmacology of anesthetic drugs related for cardiac surgery	
	Pharmacology of anticoagulants & antiplatelet	
	drugs related for cardiac surgery	
0	Anesthetic considerations of HTN	
	Anesthetic considerations of IHD	2
111	Anesthetic considerations of HF	
1-2/	Anesthetic considerations of cardiomyopathy	1
.0.	Anesthetic management of valvular diseases 1	V
3	Anesthetic management of valvular diseases 2	Щ
7	Anesthetic management of congenital heart diseases	CIN
100	Anesthetic management of pulmonary HTN	
10	Cardiopulmonary bypass machine 1	
13	Cardiopulmonary bypass machine 2	
	PH & alpha state	
	Anesthetic management for valve replacement surgery 1	
	Anesthetic management for valve replacement surgery 2	
	Anesthetic management for CABG surgery	
	Anesthesia for pediatric cardiac surgery	





	Anesthetic management for congenital heart surgery	
	Off-pump cardiac surgery	
	Anesthetic management for vascular surgeries	
	Anesthetic management for aortic surgery	
	Anesthetic considerations for cardiac tamponade, dissection and tumours	
	Mechanical assist devices	
	Heart transplant	
/ /	Echo review	4
	Anesthetic principles of thoracic surgery 1	
14/	Anesthetic principles of thoracic surgery 2	
1.21	One lung ventilation	16
Rena <mark>l anes</mark> the	esia	111
2	Pharmacological considerations for CRF 1	7
12	Pharmacological considerations for CRF 2	1
13	Anesthesia of renal impairment & CRF	2
10,	TURP syndrome 1	0 /
19	TURP syndrome 2	
	Anesthetic considerations during renal transplantation 1	
	Anesthetic considerations during renal transplantation 2	
	Anesthesia for lithotripsy	





Name of the course: Applied physiology related to

anesthesia, ICU & pain Compulsory/Elective: Compulsory

First/Second part: Second Credit hours: One

Semester: (spring/fall/summer) year......

Date	Title of the lecture	Lecturer's signature
	Respiratory physiology 1	
9	Respiratory physiology 2	
	CVS physiology 1	21
13/	CVS physiology 2	
1:8	Renal physiology	
3	Hepatic physiology	Ш
E	Hematology physiology	131
100	Neurophysiology 1	2
9	Neurophysiology 2	9/
P	Pediatric physiology 1	1
	Pediatric physiology 2	
	Geriatric physiology	
	Obstetric physiology 1	
	Obstetric physiology 2	
	Physiology of IOP	





Name of the course: Applied Pharmacology related to

anesthesia, ICU & pain Compulsory/Elective: Compulsory

First/Second part: Second Credit hours: One

Semester: (spring/fall/summer) year......

Data	Title of the lecture	Ta atravada ai an atrava
Date	Title of the lecture	Lecturer's signature
	Inhalational anesthetics 1	
/ 5	Inhalational anesthetics 2	
	Nonvolatile anesthetic drugs 1	
14	Nonvolatile anesthetic drugs 2	
1.2	Neuromuscular blocking agents	12
-5	Adrenergic agonists & antagonists	
2	Anticholinergics & cholinesterase inhibitors	N
12	Benzodiazepines	5
15	Opioids	
2	Non-opioid analgesics	1
	Drugs acting on CNS system	
	Drugs acting on CVS system	
	Drugs acting on GIT & respiratory systems	
	Adjuncts to anesthesia	
	Anticoagulants	





Name of the course: Anesthesia 2

Compulsory/Elective: Compulsory First/Second part: Second

Date	Title of the lecture	Lecturer's signature			
Neuro-ane	Neuro-anesthesia				
	Neuro-anatomy				
	Radiology of CNS				
	Neurophysiology	-5			
	Neuro-physiologic monitoring				
	Effect of anesthetic drugs on CNS physiology	1			
1:0	Blood brain barrier	1			
2	Brain protection	Ш			
V	CSF physiology	3			
12	Intra-cranial pressure	5/			
10	Head trauma 1				
	Head trauma 2				
	Anesthesia of supra-tentorial tumors				
	Anesthesia of infra-tentorial tumors				
	Anesthesia of posterior fossa tumors				
	Anesthesia of cerebral aneurysm 1				
	Anesthesia of cerebral aneurysm 2				
	Pituitary tumours				
	Spinal cord trauma				





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	Anesthesia of spine surgery	
	Anesthesia of carotid end-arterectomy	
	Neuromuscular transmission & monitoring	
	Patient positioning	
	Awake craniotomy	
	Pediatric neuro-anesthesia 1	
	Pediatric neuro-anesthesia 2	
	Neuro-psychiatry: physiology	
	Anesthetic consideration for psychiatric diseases	2
GIT & Bariat	tric anesthesia	
(-)	Anesthesia for laparoscopy 1	
:0,	Anesthesia for laparoscopy 2	V
3	Anesthetic consideration for LCF 1	Ш
E	Anesthetic consideration for LCF 2	3
125	Anesthetic considerations for hepatic transplant patient 1	10/
100	Anesthetic considerations for hepatic transplant patient 2	
	Anesthetic considerations for Intestinal obstruction	
	Physiological changes in morbid obesity 1	
	Physiological changes in morbid obesity 2	
	Anesthetic consideration for bariatric surgery	
Orthopedic a	anesthesia	
	Spinal anesthesia	
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Epidural & caudal anesthesia  Complications of neuro-axial anesthesia  Regional anesthesia 1  Regional anesthesia 2  Anesthesia for myasthenia gravis  Anesthesia for other musculoskeletal diseases  Malignant hyperthermia  Anesthetic considerations for trauma patients 1  Anesthetic considerations for trauma patients 2  Total hip and knee replacement surgery  Bone cement syndrome  ENT anesthesia  Post-tonsillectomy bleeding  Anesthetic considerations for surgeries on nose and para-nasal sinuses  Anesthetic considerations for ear surgeries  Anesthetic considerations for laryngeal surgeries  Anesthesia for surgeries on upper air way 1  Anesthesia for surgeries on upper air way 2  Post-extubation laryngeal edema & croup  Hypotensive anesthesia  Maxillofacial & dental anesthesia  Anesthetic considerations for Laser surgery  Special equipments for ENT surgeries	11174-5		
Regional anesthesia 1 Regional anesthesia 2 Anesthesia for myasthenia gravis Anesthesia for other musculoskeletal diseases Malignant hyperthermia Anesthetic considerations for trauma patients 1 Anesthetic considerations for trauma patients 2 Total hip and knee replacement surgery Bone cement syndrome ENT anesthesia Post-tonsillectomy bleeding Anesthetic considerations for surgeries on nose and para-nasal sinuses Anesthetic considerations for laryngeal surgeries Anesthesia for surgeries on upper air way 1 Anesthesia for surgeries on upper air way 2 Post-extubation laryngeal edema & croup Hypotensive anesthesia Maxillofacial & dental anesthesia Anesthetic considerations for Laser surgery		Epidural & caudal anesthesia	
Regional anesthesia 2  Anesthesia for myasthenia gravis  Anesthesia for other musculoskeletal diseases  Malignant hyperthermia  Anesthetic considerations for trauma patients 1  Anesthetic considerations for trauma patients 2  Total hip and knee replacement surgery  Bone cement syndrome  ENT anesthesia  Post-tonsillectomy bleeding  Anesthetic considerations for surgeries on nose and para-nasal sinuses  Anesthetic considerations for ear surgeries  Anesthetic considerations for laryngeal surgeries  Anesthesia for surgeries on upper air way 1  Anesthesia for surgeries on upper air way 2  Post-extubation laryngeal edema & croup  Hypotensive anesthesia  Maxillofacial & dental anesthesia  Anesthetic considerations for Laser surgery		Complications of neuro-axial anesthesia	
Anesthesia for myasthenia gravis  Anesthesia for other musculoskeletal diseases  Malignant hyperthermia  Anesthetic considerations for trauma patients 1  Anesthetic considerations for trauma patients 2  Total hip and knee replacement surgery  Bone cement syndrome  ENT anesthesia  Post-tonsillectomy bleeding  Anesthetic considerations for surgeries on nose and para-nasal sinuses  Anesthetic considerations for ear surgeries  Anesthetic considerations for laryngeal surgeries  Anesthesia for surgeries on upper air way 1  Anesthesia for surgeries on upper air way 2  Post-extubation laryngeal edema & croup  Hypotensive anesthesia  Maxillofacial & dental anesthesia  Anesthetic considerations for Laser surgery		Regional anesthesia 1	
Anesthesia for other musculoskeletal diseases  Malignant hyperthermia  Anesthetic considerations for trauma patients 1  Anesthetic considerations for trauma patients 2  Total hip and knee replacement surgery  Bone cement syndrome  ENT anesthesia  Post-tonsillectomy bleeding  Anesthetic considerations for surgeries on nose and para-nasal sinuses  Anesthetic considerations for ear surgeries  Anesthetic considerations for laryngeal surgeries  Anesthesia for surgeries on upper air way 1  Anesthesia for surgeries on upper air way 2  Post-extubation laryngeal edema & croup  Hypotensive anesthesia  Maxillofacial & dental anesthesia  Anesthetic considerations for Laser surgery		Regional anesthesia 2	
Malignant hyperthermia  Anesthetic considerations for trauma patients 1  Anesthetic considerations for trauma patients 2  Total hip and knee replacement surgery  Bone cement syndrome  ENT anesthesia  Post-tonsillectomy bleeding  Anesthetic considerations for surgeries on nose and para-nasal sinuses  Anesthetic considerations for ear surgeries  Anesthetic considerations for laryngeal surgeries  Anesthesia for surgeries on upper air way 1  Anesthesia for surgeries on upper air way 2  Post-extubation laryngeal edema & croup  Hypotensive anesthesia  Maxillofacial & dental anesthesia  Anesthetic considerations for Laser surgery		Anesthesia for myasthenia gravis	
Anesthetic considerations for trauma patients 1  Anesthetic considerations for trauma patients 2  Total hip and knee replacement surgery  Bone cement syndrome  ENT anesthesia  Post-tonsillectomy bleeding  Anesthetic considerations for surgeries on nose and para-nasal sinuses  Anesthetic considerations for ear surgeries  Anesthetic considerations for laryngeal surgeries  Anesthesia for surgeries on upper air way 1  Anesthesia for surgeries on upper air way 2  Post-extubation laryngeal edema & croup  Hypotensive anesthesia  Maxillofacial & dental anesthesia  Anesthetic considerations for Laser surgery		Anesthesia for other musculoskeletal diseases	
Anesthetic considerations for trauma patients 2  Total hip and knee replacement surgery  Bone cement syndrome  ENT anesthesia  Post-tonsillectomy bleeding  Anesthetic considerations for surgeries on nose and para-nasal sinuses  Anesthetic considerations for ear surgeries  Anesthetic considerations for laryngeal surgeries  Anesthesia for surgeries on upper air way 1  Anesthesia for surgeries on upper air way 2  Post-extubation laryngeal edema & croup  Hypotensive anesthesia  Maxillofacial & dental anesthesia  Anesthetic considerations for Laser surgery		Malignant hyperthermia	
Total hip and knee replacement surgery  Bone cement syndrome  ENT anesthesia  Post-tonsillectomy bleeding  Anesthetic considerations for surgeries on nose and para-nasal sinuses  Anesthetic considerations for ear surgeries  Anesthetic considerations for laryngeal surgeries  Anesthesia for surgeries on upper air way 1  Anesthesia for surgeries on upper air way 2  Post-extubation laryngeal edema & croup  Hypotensive anesthesia  Maxillofacial & dental anesthesia  Anesthetic considerations for Laser surgery		Anesthetic considerations for trauma patients 1	
Bone cement syndrome  ENT anesthesia  Post-tonsillectomy bleeding  Anesthetic considerations for surgeries on nose and para-nasal sinuses  Anesthetic considerations for ear surgeries  Anesthetic considerations for laryngeal surgeries  Anesthesia for surgeries on upper air way 1  Anesthesia for surgeries on upper air way 2  Post-extubation laryngeal edema & croup  Hypotensive anesthesia  Maxillofacial & dental anesthesia  Anesthetic considerations for Laser surgery		Anesthetic considerations for trauma patients 2	-
ENT anesthesia  Post-tonsillectomy bleeding  Anesthetic considerations for surgeries on nose and para-nasal sinuses  Anesthetic considerations for ear surgeries  Anesthetic considerations for laryngeal surgeries  Anesthesia for surgeries on upper air way 1  Anesthesia for surgeries on upper air way 2  Post-extubation laryngeal edema & croup  Hypotensive anesthesia  Maxillofacial & dental anesthesia  Anesthetic considerations for Laser surgery		Total hip and knee replacement surgery	
Post-tonsillectomy bleeding  Anesthetic considerations for surgeries on nose and para-nasal sinuses  Anesthetic considerations for ear surgeries  Anesthetic considerations for laryngeal surgeries  Anesthesia for surgeries on upper air way 1  Anesthesia for surgeries on upper air way 2  Post-extubation laryngeal edema & croup  Hypotensive anesthesia  Maxillofacial & dental anesthesia  Anesthetic considerations for Laser surgery	131	Bone cement syndrome	
Anesthetic considerations for surgeries on nose and para-nasal sinuses  Anesthetic considerations for ear surgeries  Anesthetic considerations for laryngeal surgeries  Anesthesia for surgeries on upper air way 1  Anesthesia for surgeries on upper air way 2  Post-extubation laryngeal edema & croup  Hypotensive anesthesia  Maxillofacial & dental anesthesia  Anesthetic considerations for Laser surgery	ENT anesthe	esia	4
and para-nasal sinuses  Anesthetic considerations for ear surgeries  Anesthetic considerations for laryngeal surgeries  Anesthesia for surgeries on upper air way 1  Anesthesia for surgeries on upper air way 2  Post-extubation laryngeal edema & croup  Hypotensive anesthesia  Maxillofacial & dental anesthesia  Anesthetic considerations for Laser surgery	2	Post-tonsillectomy bleeding	Ш
Anesthetic considerations for laryngeal surgeries  Anesthesia for surgeries on upper air way 1  Anesthesia for surgeries on upper air way 2  Post-extubation laryngeal edema & croup  Hypotensive anesthesia  Maxillofacial & dental anesthesia  Anesthetic considerations for Laser surgery	F		IN
Anesthesia for surgeries on upper air way 1  Anesthesia for surgeries on upper air way 2  Post-extubation laryngeal edema & croup  Hypotensive anesthesia  Maxillofacial & dental anesthesia  Anesthetic considerations for Laser surgery	100	Anesthetic considerations for ear surgeries	2/
Anesthesia for surgeries on upper air way 2  Post-extubation laryngeal edema & croup  Hypotensive anesthesia  Maxillofacial & dental anesthesia  Anesthetic considerations for Laser surgery	10	Anesthetic considerations for laryngeal surgeries	/
Post-extubation laryngeal edema & croup  Hypotensive anesthesia  Maxillofacial & dental anesthesia  Anesthetic considerations for Laser surgery	100	Anesthesia for surgeries on upper air way 1	
Hypotensive anesthesia  Maxillofacial & dental anesthesia  Anesthetic considerations for Laser surgery		Anesthesia for surgeries on upper air way 2	
Maxillofacial & dental anesthesia  Anesthetic considerations for Laser surgery		Post-extubation laryngeal edema & croup	
Anesthetic considerations for Laser surgery		Hypotensive anesthesia	
		Maxillofacial & dental anesthesia	
Special equipments for ENT surgeries		Anesthetic considerations for Laser surgery	
		Special equipments for ENT surgeries	





Name of the course: ICU

Compulsory/Elective: Compulsory First/Second part: Second

Date	Title of the lecture	Lecturer's signature
	ICU design 1	
	ICU design 2	
0	Infection control 1	
0	Infection control 2	
	Cardiopulmonary resuscitation 1	-2
	Cardiopulmonary resuscitation 2	
1-5/	Cardiopulmonary resuscitation 3	1-
1:2	Central venous catheterization 1	101
	Central venous catheterization 2	1
3	Mechanical ventilation 1	
12	Mechanical ventilation 2	
100	Mechanical ventilation 3	0
10.	Mechanical ventilation 4	
10,	Mechanical ventilation 5	7/
13	Mechanical ventilation 6	
	Mechanical ventilation 7	
	Mechanical ventilation 8	
	Enteral and parenteral nutrition 1	
	Enteral and parenteral nutrition 2	
	Enteral and parenteral nutrition 3	
	Enteral and parenteral nutrition 4	
	Enteral and parenteral nutrition 5	





	Enteral and parenteral nutrition 6	
	Acid-base balance 1	
	Acid-base balance 2	
	Acid-base balance 3	
	Acid-base balance 4	
	Acid-base balance 5	
	Fluid & electrolyte disturbances 1	
	Fluid & electrolyte disturbances 2	
(0)	Fluid & electrolyte disturbances 3	
	Fluid & electrolyte disturbances 4	4
	Fluid & electrolyte disturbances 5	
14	Arrhythmia 1	
1:21	Arrhythmia 2	151
	Arrhythmia 3	Y I
3	Acute coronary syndrome 1	Ш
E	Acute coronary syndrome 2	5
12	Pulmonary embolism 1	0
100	Pulmonary embolism 2	
10	Pulmonary embolism 3	'/
12	ARDS 1	
	ARDS 2	Y .
	ARDS 3	
	Aspiration pneumonitis 1	
	Aspiration pneumonitis 2	
	Sepsis & septic shock: pathophysiology 1	
	Sepsis & septic shock: pathophysiology 2	
	Sepsis & septic shock: management 1	
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	Sepsis & septic shock: management 2	
	Sepsis & septic shock: management 3	
	Sepsis & septic shock: management 4	
	Sepsis & septic shock: management 5	
	Management of burn 1	
	Management of burn 2	
	Management of burn 3	
	Intracranial hypertension 1	
0	Intracranial hypertension 2	
	Coagulation cascade 1	-52
	Coagulation cascade 2	
14/	Coagulation cascade 3	
1:21	Thromboelastography 1	131
	Thromboelastography 2	
3	Thromboelastography 3	H
Z	Fluid & blood components 1	5
12	Fluid & blood components 2	0
181	Fluid & blood components 3	
10,	Diabetic comas 1	7
12	Diabetic comas 2	
	Management of trauma patients 1	
	Management of trauma patients 2	
	Management of trauma patients 3	
	Delirium	
	Post-operative complications 1	
	Post-operative complications 2	





Name of the course: Anesthesia 3

Compulsory/Elective: Compulsory First/Second part: Second

Date	Title of the lecture	Lecturer's signature
Respiratory	anesthesia	
	Flow volume loop	
	Interpretation of PFTs	2-3
	Difficult airway: assessment	
12/	Difficult airway: management	31-
:0)	Airway management techniques 1	1
2	Airway management techniques 2	Ш
F	Airway emergencies 1	>
12	Airway emergencies 2	5
15	Obstructive lung diseases	
2	Anesthesia of asthmatic patients 1	7/
	Anesthesia of asthmatic patients 2	
	Anesthesia of COPD patients 1	P
	Anesthesia of COPD patients 2	
	Restrictive lung diseases 1	
	Obstructive lung diseases 2	
	Anesthesia of OSAS patients	
	Post-operative pulmonary complications	5





Ophthalmic a	anesthesia	
	Anatomy of the eye	
	Techniques of local ocular anesthesia	
	Effect of anesthesia on IOP	
	Oculo-cardiac reflex	
	Anesthetic considerations for different eye surgeries 1	
(3)	Anesthetic considerations for different eye surgeries 2	
	Anesthetic considerations for different eye surgeries 3	2-3
14/	Rupture globe	
Endo <mark>crine</mark> an	esthesia	* 15
	Diabetic patients: pathophysiology	lu l
121	DM: anesthetic considerations	2
12	DM: peri-operative management	c.
100	Diabetic emergencies	2/
19,1	Hyperthyroidism: pathophysiology	9 /
12	Hyperthyroidism: anesthetic management	
	Hyperthyroidism: peri-operative management & crisis	r.
	Hypothyroidism: pathophysiology	
	Hypothyroidism: anesthetic management	
	Hypothyroidism: peri-operative management & coma	
	Hyperparathyroidism	
	Hypoparathyroidism	





III / N-3		
	Cushing syndrome & Conn's disease	
	Adreno-cortical crisis	
	Anesthesia for pheochromocytoma 1	
	Anesthesia for pheochromocytoma 2	
	Other endocrinal disorders	
	Hematological & coagulation disorders 1	
	Hematological & coagulation disorders 2	
	Hematological & coagulation disorders 3	
	Peri-operative anesthetic problems 1	5
	Peri-operative anesthetic problems 2	
14/	Peri-operative anesthetic problems 3	1-1
Pediatric ane	sthesia	K
2	Physiological changes in pediatrics	Ш
12	Anesthetic considerations for pediatric surgery	~
100	Congenital diaphragmatic hernia	0
0,	Trachea-esophageal fistula	5
100	Pyloric stenosis	
13	Anesthesia for cleft lip & palate	
	Neonatal anesthesia	
	Day case surgery	
	Sedation	
	Pediatric emergencies	
	Upper airway endoscopy	
	Upper GIT endoscopy	





Name of the course: Pain

Compulsory/Elective: Compulsory First/Second part: Second

Date	Title of the lecture	Lecturer's signature
	Definitions	
	Pain pathway 1	
	Pain pathway 2	- 1
	Pain physiology 1	
-2	Pain physiology 2	-
50,	Pain physiology 3	V
3	Pain measurement	Ш
P	Acute post-operative pain 1	51
100	Acute post-operative pain 2	2/
10	Stress response	
10	Chronic pain 1	
	Chronic pain 2	
	Chronic pain 3	
	Chronic pain 4	
	Pharmacological interventions	
	Anatomy of vertebral column, Epidural	
	space & dermatomal distribution 1	





	Anatomy of vertebral column, Epidural	
	space & dermatomal distribution 2	
	Anatomy of vertebral column, Epidural	
	space & dermatomal distribution 3	
	Degenerative changes in back pain	
	How to examine the back	
	Clinical presentation to LBP	
	Medical & interventional treatment of LBP 1	
/ /	Medical & interventional treatment of LBP 2	3
	Medical & interventional treatment of LBP 3	
13/	Failed back surgery syndrome 1	
:0	Failed back surgery syndrome 2	5
2	Cancer pain 1	Ш
F	Cancer pain 2	N
1 7	Cancer pain 3	5
10.	Types of neuropathic pain	
	Post-herpetic neuralgia 1	
	Post-herpetic neuralgia 2	
	Trigeminal neuralgia	
	Glossopharyngeal neuralgia	
	Diabetic neuralgia	
	Complex regional pain syndrome 1	
	Complex regional pain syndrome 2	





	Entrapment syndromes	
	Myofascial pain	
	Sympathetic blocks	
	Stellate ganglion block	
	Celiac plexus block	
	Splanchnic nerve block	
	Hypogastric plexus block	
/ 9	Ganglion impar block	
	Paravertebral block	-1
14/	Neurolytic blocks & radiofrequency ablation	
1:51	Somatic blocks 1	15
	Somatic blocks 2	11.
15	Brachial plexus block	7
12	Bier block	
100	Peripheral nerve blocks 1	7 /
10	Peripheral nerve blocks 2	/
1	Peripheral nerve blocks 3	
	Peripheral nerve blocks 4	
	Peripheral nerve blocks 5	
	Headache 1	
	Headache 2	
	Palliative care medicine 1	
	Palliative care medicine 2	
P		





### Name of the course: Radiology related to anesthesia

Compulsory/Elective: Elective First/Second part: Second

Date	Title of the lecture	Lecturer's signature
	Principles of X-ray	
	Principles of CT scan	
	Principles of MRI	
	Principles of U/S 1	
	Principles of U/S 2	
	Principles of U/S 3	
	Chest X-ray 1	- 2
	Chest X-ray 2	
	Chest X-ray 3	
	CT chest 1	
1.01	CT chest 2	
.0	CT chest 3	V-
-5	CT chest 4	Lu
	CT chest 5	
Z	Brain CT 1	
7	Brain CT 2	
10	Brain CT 3	
\ O,	Brain CT 4	
10	Brain CT 5	
	Cervical, thoracic & lumbar X-ray 1	H.
	Cervical, thoracic & lumbar X-ray 2	
	Cervical, thoracic & lumbar X-ray 3	
	Cervical, thoracic & lumbar X-ray 4	
	CT abdomen 1	
	CT abdomen 2	
	CT abdomen 3	
	FAST 1	
	FAST 2	
	FAST 3	
	FAST 4	











## **List of requirements**

Name of the procedure	Total number required	Observer	Assistant	Independent
Oral endotracheal intubation	80			80
Nasal endotracheal intubation	20			20
Supraglottic airway devices	40	1		40
Fiberoptic intubation	20	5	5	10
Difficult venous cannulation	30	1/20		30
Central vein catheterization	30	5.00	1:15	30
Pulmonary art. catheterization	5	5	H	1
Arterial cannulation	20	27	3	20
Spinal anesthesia	70		10	70
Epidural anesthesia	40		M	40
Caudal anesthesia	10	IILTY		10
Paravertebral anesthesia	15		5	10
U/S brachial plexus block	20			20
U/S regional nerve blocks	50	10	10	30





## **Procedures Log**

#### **Level of participation:**

Observer

Assistant

Independent

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Procedure 1: Oral endotracheal intubation				
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Procedure 2: Nasal endotracheal intubation				
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Procedure 3: Supraglottic airway devices			
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Procedure 4: <b>Fiberoptic intubation</b>				
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Pro	Procedure 5: <b>Difficult venous cannulation</b>			
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	Procedure 6: Central vein catheterization				
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Procedure 7: Pulmonary artery catheterization				
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	Procedure 8: <b>Arte</b>	rial cannulation		
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	Procedure 9: <b>Spi</b>	nal anesthesia	
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	Procedure 10: <b>Epic</b>		
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	Procedure 11: Ca	udal anesthesia	
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	Procedure 12: <b>Parve</b>	rtebral anesthesia	1
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Pro	Procedure 13: <b>U/S brachial plexus block</b>						
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# **Clinical Rotation**

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# **List of requirements:**

1- Seminar attendance: 15 times

2- Seminar performance: 5 times

# 1- Attendance

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# 2- Performance

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# **List of requirements:**

**Student teaching sections: 5 times** 

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# Section VI: Scientific Activities

(Conferences/Workshops)





# **List of requirements:**

	Conferences					
Total number required	Attendance	Organization	Presentation			
3	3		P-1			
3	Worksho	ps	1.12			
Total number required	Attendance	Organization	Presentation			
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Activity (Conference/Workshop)	Role	Date	Supervisor's signature
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### Role:

- -Attendant
- -Organizer
- -Presenter