



Department of Anesthesia, Surgical Intensive Care & Pain Management

Logbook of MS





Personal Data

Name:
Department :
Mobile Number:
E-mail Address:
MS 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 MS candidates):

- -To be legible for the first part MS 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 MS exam:
- 1- A time interval of 36 months must pass since the day of registration to the job for residents and demonstrators and 30 months since the day of degree registration for non-residents.
- 2- You have to spend a year of daily clinical/practical training in the department or two years with three times/week practical/clinical training.
- 3-You have to register 4 semesters on Ibn-lhaythm registration page.
- 4- You have to attend 70% of the lectures of each course in the second part of MS degree.
- 5- You have to fulfill and perform 70% of the practical skills documented in the logbook.





Bylaws of the MS Semesters of Anesthesia, ICU & Pain

Semester	Subjects
	Basics of biophysics and clinical measurements
	Internal medicine
First	Anatomy
	Physiology
	Pharmacology
	Anesthesia (1)
	Obstetric anesthesia
12	CVS anesthesia
Second	C <mark>ardio-th</mark> oracic anesthesia
300	Renal anesthesia
	Physiological basics related to anesthesia, ICU & pain
2	Pharmacological basics related to anesthesia, ICU & pain
1 = 1	Anesthesia (2)
100	CNS anesthesia
Third 💮	GIT anesthesia
	Orthopedic anesthesia
	ENT anesthesia
	ICU
	Anesthesia (3)
	Respiratory anesthesia
- 4	Ophthalmic anesthesia
Forth	Endocrine anesthesia
	Pediatric anesthesia
	Pain management
	Elective course: Radiology





Contents

Section I: Scientific Lectures

Section II: Procedures

Section III. Clinical Rotation

Section IV: Seminars

Section V. 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 physical principles	
	Flow & volume & pressure measurement	
	Laminar & turbulent flow	
2	Gas laws	3
10.	Humidity	
2	Transducers	NE
12	Biological membranes	5
19	Measurement of O ₂ , Co ₂ , H, anesthetic agents	9
	Gas supply system	
	Anesthesia machine	
	Vaporizers	
	Flowmeters	
	Anesthetic circuits	





	Gas scavenging systems	
	ECG	
	Pulse oximetry	
	Capnography	
	Pulmonary artery catheterization	
	Non-invasive blood pressure monitoring	
	Invasive blood pressure monitoring	Q-3
14	CVP monitoring	
1:91	Temperature monitoring	K
3	COP & blood flow monitoring	H
7	Monitoring of CNS	5
13	Neuromuscular monitoring	3/
10	Physics of patient positioning	7/
	ECHO physics	
	Cardiac pacing and defibrillation	
	Ultrasound & laser	
	The Operating Room safety	





Name of the course: Internal medicine

Compulsory/Elective: Compulsory First/Second part: First

Date	Title of the lecture	Lecturer's signature
	General	
	Cardiovascular diseases	
	Respiratory diseases	
	GIT diseases	
14	Liver diseases	
(5)	Kidney diseases	151
-0	Endocrine disorders	
2	Blood diseases	2
12	Benzodiazepines	5
10	History taking	3/
	General examination	7/
	Head & neck examination	
	CVS examination	
	Chest examination	
	Abdominal examination	
	Upper & lower limb examination	





Name of the course: Anatomy

Compulsory/Elective: Compulsory First/Second part: First

Date	Title of the lecture	Lecturer's signature
	Embryological principles	
	Anatomy of mouth cavity	
	Anatomy of nasal cavity	
	Anatomy of pharynx	8./
13	Anatomy of larynx	131-
:0	Anatomy of chest	12
3	Anatomy of heart	Ш
E	Anatomy of spinal cord	13
10	Anatomy of meninges	2
	Anatomy of cranial nerves	8/
	Brachial, cervical, lumbosacral plexuses	
	Anatomy of major nerves	
	Anatomy of major blood vessels	
	Anatomy superficial blood vessels	
	Anatomy of major joints	





Name of the course: Physiology

Compulsory/Elective: Compulsory First/Second part: First

Date	Title of the lecture	Lecturer's signature
	Pain sensation & pain control system	
	Motor muscle tone & stretch reflex	
	Sensory & motor pathways	
	Cerebral blood flow & circulation	8-1
13	Regulation of ABP	134
1:0	СОР	12
3	Shock & hemorrhage	Ш
E	Resting membrane potential	131
10	Action potential	20
	Neuron transmission	2/
	Excitation-contraction coupling	
	Regulation of respiration	
	Transportation of O ₂ &CO ₂	
	H ⁺ regulation	
	Hypoxia & cyanosis	





Name of the course: Pharmacology

Compulsory/Elective: Compulsory First/Second part: First

Date	Title of the lecture	Lecturer's signature
	General Pharmacology 1	
	General Pharmacology 2	
	General Pharmacology 3	
	Autonomic pharmacology 1	8-1
4	Autonomic pharmacology 2	
1:0	Autonomic pharmacology 3	12
3	Autonomic pharmacology 4	Ш
P	Drugs acting on CVS 1	
10	Drugs acting on CVS 2	2
	Drugs acting on CVS 3	8/
	Drugs acting on CVS 4	
	Drugs acting on CNS 1	
	Drugs acting on CNS 2	
	Drugs acting on CNS 3	
	Drugs acting on CNS 4	





Name of the course: Anesthesia 1

Compulsory/Elective: Compulsory First/Second part: Second

Date	Title of the lecture	Lecturer's signature
Obstetric	anesthesia	
	Changes during pregnancy	
	Anesthesia for normal labor 1	
	Anesthesia for normal labor 2	
	Anesthesia for cesarian section 1	
	Anesthesia for cesarian section 2	2-1
	Preeclampsia: pathophysiology	
	Preeclampsia: management	3/-
1:0)	Eclampsia	V
-	Pre-partum hemorrhage: placenta previa	Lu
12	Post-partum hemorrhage: types & management	2
17	Obstetric patient & CVS diseases 1	5
10	Obstetric patient & CVS diseases 2	2/
	Obstetric emergencies 1	0 /
	Obstetric emergencies 2	//
	Anesthesia of pregnant for non-obstetric surgery 1	
	Anesthesia of pregnant for non-obstetric surgery 2	
CVS anest	hesia & Cardio-thoracic surgery	-
	Cardiac cycle	
	Coronary circulation	
	Waveform analysis	
	Anesthetic drugs related for cardiac surgery	





	Pharmacology of anticoagulants & antiplatelet	
	drugs related for cardiac surgery	
	Anesthetic considerations of HTN	
	Anesthetic considerations of IHD	
	Anesthetic considerations of HF	
	Anesthetic considerations of cardiomyopathy	
	Anesthetic management of valvular diseases 1	
/.	Anesthetic management of valvular diseases 2	
0	Anesthesia of congenital heart diseases	
	Anesthetic management of pulmonary HTN	-5
	Cardiopulmonary bypass machine	
13/	Anesthetic management for valve replacement	1-1
1:51	Anesthetic management for CABG surgery	121
	Anesthesia for congenital heart surgery	111
5	Anesthetic management for vascular surgeries	7
1	Anesthetic management for aortic surgery	5
100	Anesthesia for cardiac tamponade and tumours	2
0,	Mechanical assist devices	5 /
	Echo review	
/3	Anesthetic principles of thoracic surgery	
	One lung ventilation	
Renal anesthe	esia ERSITY FACUL	
	Pharmacological considerations for CRF	
	Anesthesia of renal impairment & CRF	
	TURP syndrome	
	Anesthesia during renal transplantation	
	Anesthesia for lithotripsy	





Name of the course: Physiological basics 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	
2	Respiratory physiology 2	
	CVS physiology 1	2
13/	CVS physiology 2	
1:0	Renal physiology	121
3	Hepatic physiology	Ш
P	Hematology physiology	131
13	Neurophysiology 1	2
9	Neurophysiology 2	2/
P	Pediatric physiology 1	1
	Pediatric physiology 2	
	Geriatric physiology	
	Obstetric physiology 1	
	Obstetric physiology 2	
	Physiology of IOP	





Name of the course: Pharmacological basics 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
Zuic	Inhalational anesthetics 1	100000101001001001001001001001001001001
1		
3	Inhalational anesthetics 2	
	Nonvolatile anesthetic drugs 1	
14	Nonvolatile anesthetic drugs 2	
1:21	Neuromuscular blocking agents	12
	Adrenergic agonists & antagonists	111
2	Anticholinergics & cholinesterase inhibitors	×
2	Benzodiazepines	5
150	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-anesthesia				
	Neuro-anatomy			
	Radiology of CNS			
	Neurophysiology	4		
	Effect of anesthetic drugs on CNS physiology			
8	Blood brain barrier			
	Brain protection			
.0	CSF physiology	D.		
3	Intra-cranial pressure	Ш		
V	Head trauma	3		
12	Anesthesia of supra-tentorial tumors	5		
\ (Anesthesia of infra-tentorial tumors	<u> </u>		
	Anesthesia of posterior fossa tumors	7		
	Anesthesia of cerebral aneurysm			
	Pituitary tumours			
	Anesthesia of spine surgery			
	Anesthesia of carotid end-arterectomy			
	Neuromuscular transmission & monitoring			
	Patient positioning			
	Awake craniotomy			
	Pediatric neuro-anesthesia			
	Anesthetic consideration for psychiatric disease	S		





GIT & Bariatric anesthesia			
	Anesthesia for laparoscopy		
	Anesthetic consideration for LCF		
	Anesthesia for hepatic transplant patient		
	Anesthesia for Intestinal obstruction		
	Physiological changes in morbid obesity		
	Anesthetic consideration for bariatric surgery		
Orthopedic	anesthesia		
	Spinal anesthesia		
	Epidural & caudal anesthesia		
	Complications of neuro-axial anesthesia		
	Regional anesthesia		
3.6	Anesthesia for myasthenia gravis	5	
	Anesthesia for other musculoskeletal diseases		
5	Malignant hyperthermia	Z	
F	Anesthetic considerations for trauma patients		
120	Total hip and knee replacement surgery	2	
ENT anesthe	esia		
	Post-tonsillectomy bleeding		
	Anesthetic consideration for surgeries on nose		
	Anesthetic consideration for ear surgeries		
	Anesthetic consideration for laryngeal surgeries		
	Anesthesia for surgeries on upper air way		
	Hypotensive anesthesia		
	Maxillofacial & dental anesthesia		
	Anesthetic consideration 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	
	Infection control	
	Cardiopulmonary resuscitation	
	Central venous catheterization	4
	Mechanical ventilation 1	
131	Mechanical ventilation 2	A_ \
1:2	Mechanical ventilation 3	161
	Mechanical ventilation 4	
5	Enteral and parenteral nutrition 1	3
7	Enteral and parenteral nutrition 2	
10	Enteral and parenteral nutrition 3	2/
10,	Acid-base balance 1	
10	Acid-base balance 2	
	Acid-base balance 3	
	Fluid & electrolyte disturbances 1	
	Fluid & electrolyte disturbances 2	
	Fluid & electrolyte disturbances 3	
	Arrhythmia 1	
	Arrhythmia 2	
	Arrhythmia 3	





	Acute coronary syndrome 1	
	Acute coronary syndrome 2	
	Pulmonary embolism 1	
	Pulmonary embolism 2	
	ARDS 1	
	ARDS 2	
	Aspiration pneumonitis	
	Sepsis & septic shock: pathophysiology 1	
12	Sepsis & septic shock: pathophysiology 2	
	Sepsis & septic shock: management 1	
14/	Sepsis & septic shock: management 2	
1.5'/	Management of burn 1	
.0.	Management of burn 2	V
3	Intracranial hypertension	H
Z	Coagulation cascade	Y
12	Thromboelastography 1	C
100	Thromboelastography 2	
10,	Fluid & blood components 1	
17	Fluid & blood components 2	
	Diabetic comas	
	Management of trauma patients 1	
	Management of trauma patients 2	
	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 a	nesthesia	
(0)	Flow volume loop	
	Interpretation of PFTs	2-5
	Difficult airway: assessment	
14	Difficult airway: management	
(2)	Airway management techniques	
	Airway emergencies	
3	Obstructive lung diseases	Щ
P	Anesthesia of asthmatic patients	<
7	Anesthesia of COPD patients	G
15	Obstructive lung diseases	
191	Anesthesia of OSAS patients	? /
P	Post-operative pulmonary complications	
Ophthalmic a	nesthesia	
	Anatomy of the eye	
	Techniques of local ocular anesthesia	
	Effect of anesthesia on IOP	
	Oculo-cardiac reflex	
	Anesthetic considerations for different eye surgeries	
	Rupture globe	





Endocrine and	osthosia	
Endocrine and		1
	Diabetic patients: pathophysiology	
	DM: anesthetic considerations	
	DM: peri-operative management	
	Hyperthyroidism: pathophysiology	
	Hyperthyroidism: anesthetic management	
	Hypothyroidism: pathophysiology	
	Hypothyroidism: anesthetic management	
0	Hyperparathyroidism	
0	Hypoparathyroidism	
	Adreno-cortical crisis	-5
	Anesthesia for pheochromocytoma	
14/	Other endocrinal disorders	
1.01	Hematological & coagulation disorders 1	151
1.0	Hematological & coagulation disorders 2	
3	Peri-operative anesthetic problems	Ш
Pedi <mark>atric ane</mark>	sthesia	3
130	Physiological changes in pediatrics	C
1001	Considerations for pediatric surgery	
10.	Congenital diaphragmatic hernia	7/
P	Trachea-esophageal fistula	
13	Pyloric stenosis	
	Anesthesia for cleft lip & palate	
	Neonatal anesthesia	
	Day case surgery	
	Sedation	
	Pediatric emergencies	
	Upper airway endoscopy	
	Upper GIT endoscopy	
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Name of the course: Pain

Compulsory/Elective: Compulsory First/Second part: Second

Date	Title of the lecture	Lecturer's signature
100	Definitions	
0	Pain pathway	
0	Pain physiology	
	Pain measurement	-2
	Acute post-operative pain 1	
12/	Acute post-operative pain 2	-
:0)	Stress response	5
-5	Chronic pain 1	Lu
121	Chronic pain 2	2
12	Pharmacological interventions	
180	Anatomy of vertebral column, Epidural space & dermatomal distribution	3/
10	Degenerative changes in back pain	
	How to examine the back	
	Clinical presentation of LBP	
	Medical & interventional treatment of LBP 1	
	Medical & interventional treatment of LBP 2	
	Failed back surgery syndrome	
	Cancer pain 1	
	Cancer pain 2	
	Types of neuropathic pain	





	Trigeminal neuralgia	
	Glossopharyngeal neuralgia	
	Post-herpetic neuralgia	
	Diabetic neuralgia	
	Complex regional pain syndrome	
	Myofascial pain	
	Entrapment syndromes	
1:	Sympathetic blocks	
/ /	Stellate ganglion block	2
	Celiac plexus block	
13/	Splanchnic nerve block	
1:5	Hypogastric plexus block	5
	Ganglion impar block	111
2	Paravertebral block	2
12	Neurolytic blocks & radiofrequency ablation	
1001	Somatic blocks 1	2/
9,	Somatic blocks 2	/
13	Brachial plexus block	
	Bier block	
	Peripheral nerve blocks 1	
	Peripheral nerve blocks 2	
	Peripheral nerve blocks 3	
	Headache 1	
	Headache 2	
	Palliative care medicine	
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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	
(2)	Principles of CT scan	4
	Principles of MRI	P.1
14/	Principles of U/S	
:5'	Chest X-ray 1	13/2
2	Chest X-ray 2	ш
F	CT chest 1	
12	CT chest 2	19
191	Brain CT 1	2
P	Brain CT 2	
	Cervical, thoracic & lumbar X-ray 1	
	Cervical, thoracic & lumbar X-ray 2	
	CT abdomen	
	FAST 1	
	FAST 2	











List of requirements

Name of the procedure	Total number required	Observer	Assistant	Independent
Oral endotracheal intubation	80	10	10	60
Nasal endotracheal intubation	20	5	5	10
Supraglottic airway devices	40	5	10	25
Fiberoptic intubation	10	4	3	3
Difficult venous cannulation	50	5	5	40
Central vein catheterization	30	5	5	20
Pulmonary art. catheterization	5	5	F	1
Arterial cannulation	10	2	2	6
Spinal anesthesia	80	10	10	60
Epidural anesthesia	30	5	5	20
Caudal anesthesia	10	2	3	5
Paravertebral anesthesia	1115	1	2	2
U/S brachial plexus block	20	5	5	10
U/S regional nerve blocks	30	10	10	10





Procedures Log

Level of participation:

Observer

Assistant

Independent

Procedure 1: Oral endotracheal intubation					
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Procedure 4: Fiberoptic intubation			
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Pr	ocedure 6: Central	vein catheterizatio	on
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	Procedure 0: Sni	nal anesthesia	
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Procedure 10: Epidural anesthesia				
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Procedure 11: Caudal anesthesia				
	Procedure 11: Ca	udal anesthesia		
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Level of participation			Signature of supervisor	
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participation	Date	Location	Signature of supervisor	
participation			Signature of supervisor	
participation	Date	Location	Signature of supervisor	
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	Procedure 12: Parve	rtebral anesthesia				
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Clinical Rotation

Rotation	Date		Hospital	Trainee`s signature	Trainer`s signature
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List of requirements:

1- Seminar attendance: 10 times2- Seminar performance: 3 times

1- Attendance

Topic	Date	Supervisor signature
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2- Performance

Topic	Date	Supervisor signature





Section V: Scientific Activities (Conferences/Workshops)

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List of requirements:

Conferences					
Total number required	Attendance	Organization	Presentation		
3	3		p.i		
Workshops					
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