

دليل الدراسات العليا لقسم الطب  
الشرعى والسموم الإكلينيكية



## دليل الدراسات العليا

### لعام (2020 - 2019)

#### • درجة الدكتوراة في الطب الشرعي والسموم الإكلينيكية (FORE & TOXI 700)

M.D. in Forensic Medicine & Toxicology (FORE&TOXI 700)

ملاحظات	الامتحانات							المناهج		
	مجموع الدرجات	الكلينيكي	الشفوي	الدرجة	على الدرجة	التحريري			الكلود	المقررات الدراسية
التدريس والامتحان تحت مسؤولية القسم ينتمي إلى درجات الجزء الثاني: ١٥٠ درجة للصفة التشريعية و ٥٠ درجة للأصابع						الدرجة	زمن الامتحان	عدد الأوراق		
١٠٠	-	٢٠	٣٠	٥٠	٢ ساعة	١	٢	FORE & TOXI 701	مقرر علمي في السوم الطبية الشرعية والسموم المهنية	
٥٠	-	٢٠	-	٣٠	٢ ساعة	١	١	FORE & TOXI 702	مقرر علمي في الكيمياء الشرعية	
١٠٠	-	٥٠	-	٥٠	٢ ساعة	١	٢	FORE & TOXI 703	مقرر علمي المسؤولية الطبية وأخلاقيات المهنة	
١٠٠	-	٢٠	٣٠	٥٠	٢ ساعة	١	٢	FORE & TOXI 704	مقرر علمي في الباثولوجيا (فيما يختص بالطب الشرعي)	
١٠٠	٢٠	٣٠	-	٥٠	٢ ساعة	١	٢	FORE & TOXI 705	مقرر علمي في الأمراض الباطنية (فيما يختص بالسموم الإكلينيكية)	
٥٠	-	٢٠	-	٣٠	٢ ساعة	١	١	FORE & TOXI 706	مقرر علمي في طرق البحث العلمي.	
٦٠٠	٧٥	١٥٠	٧٥	٣٠٠	٣ ساعة	١	١٢	FORE & TOXI 707	مقرر علمي في الطب الشرعي التشريحي	
٤٠٠		١٥٠	٥٠	٢٠٠	٢ ساعة	١	٨	FORE & TOXI 708	مقرر علمي في الطب الشرعي الإكلينيكي	
٤٠٠	٥٠	١٠٠	٥٠	٢٠٠	٢ ساعة	١	٨	FORE & TOXI 709	مقرر علمي في السوم الإكلينيكية العامة	
٦٠٠	٥٠	١٥٠	١٠٠	٣٠٠	٣ ساعة	١	١٢	FORE & TOXI 710	مقرر علمي في السوم الإكلينيكية الخاصة	
								١٥		
	٢٥٠٠	١٩٥	٧١٠	٣٣٥	١٢٦٠			٦٥		المجموع

## • درجة الماجister في الطب الشرعي والسموم الإكلينيكية (FORE & TOXI 600)

Master of Science in Forensic Medicine & Toxicology (FORE&TOXI 600)

ملاحظات	مجموع الدرجات	الكلينيكي الدرجة	الشفيوي الدرجة	عملي الدرجة	الامتحانات			المناهج			
					الدرجة	الساعات المعتمدة	النحو	المقررات الدراسية	المناهج		
التدريب والامتحان تحت مسؤولية القسم	100	10	20	20	50	٢ ساعة	١	2	FORE & TOXI 601	السموم العامة	الجزء الأول
	50	-	10	20	20	٢ ساعة	١	1	FORE & TOXI 602	السموم التحليلية	
	50		10	20	20	٢ ساعة	١	1	FORE & TOXI 603	الكيمياء الطبية الشرعية	
	100		50	-	50	٢ ساعة	١	2	FORE & TOXI 604	المسؤولية الطبية وأخلاقيات المهنة	
	50		10	20	20	٢ ساعة	١	1	FORE & TOXI 605	الباتولوجيا فيما يخص الطب الشرعي	
	100	25	٢٥	-	50	٢ ساعة	١	2	FORE & TOXI 606	الباطنة العامة فيما يخص الطب الشرعي	
	50		20	-	30	٢ ساعة	١	1	FORE & TOXI 607	الاحصاء الطبي البحثي	
	750	100	200	150	300	٣ ساعة	١	15	FORE & TOXI 608	الطب الشرعي	الجزء الثاني
	750	100	200	150	300	٣ ساعة	١	15	FORE & TOXI 609	السموم الإكلينيكية	
								٦			الرسالة
	2000	235	545	380	840			46			المجموع

# **Medical Ethics**

## **For Master degree**

### **FORE & TOXI 604 (2 credit hours)**

#### **General:**

- Introduction:
  - Mortality & Ethics.
  - Types of Ethics.
  - Moral choices.
  - The basic medical ethical principles:
    - Autonomy.
    - Beneficence.
    - Non-maleficence.
    - Justice.
- Consent.
- Ethical Issues for Biomedical Research.
- Medical confidentiality.
- Confidentiality disclosure.
- Doctor patient relationship.
- Ethics Related to Relationships with Industry.
- MEDICAL NEGLIGENCE AND MALPRACTICE.
- Euthanasia.
- Ethical dilemma.

# **Medical Ethics**

## **For Doctorate degree**

### **FORE & TOXI 703 (2 credit hours)**

#### **General:**

- Introduction:
  - Mortality & Ethics.
  - Types of Ethics.
  - Moral choices.
  - The basic medical ethical principles:
    - Autonomy.
    - Beneficence.
    - Non-maleficence.
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- Ethical Issues for Biomedical Research.
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- Doctor patient relationship.
- Ethics Related to Relationships with Industry.
- MEDICAL NEGLIGENCE AND MALPRACTICE.
- Euthanasia.
- Ethical dilemma.

#### **Specials:**

- Medical ethics of teaching new trainer
- Introduction of new surgical procedures & ethics of organ transplantation.
- Medical ethics for Gynecology& obstetric
- Ethics of psychiatry
- Ethics of ICU and emergency
- Ethical Issues in clinical pathology
- Ethical Issues in clinical radiology



**Forensic Chemistry  
For  
Master Degree of Forensic Medicine and  
Clinical Toxicology.  
FORE & TOXI 603 (2 credit hours)**

**Subjects:** \*

**1-D.N.A Identification:**

Identification of DNA sample-

Procedure of forensic D.N.A analysis-

Procedure for determination quantity and quality of D.N.A-

-D.N.A typing

-Medico legal importance

-New advances in DNA:

- History
- Current state
- Laboratory process
- DNA profiling
- Strengths
- Limitations

**2-Identification of physical evidence:**

- Steps of Identification

- Types of evidence:

**A) Biological evidences:**

**1-Blood stain:**

-Identification

-Analysis

1. Naked eye examination

2. Preliminary test (Oxidase test)

3. Confirmatory tests (Microscopic, micro-chemical, spectroscopic)

4. Microscopic examination

5. Precipitin test

6. Hormonal assay

7. DNA typing

8. Blood grouping

9. Shapes of blood stain of medico legal importance

## **2-Seminal stain:**

-Identification

-Analysis:

A. Preliminary tests

B. Confirmatory tests

## **3-Saliva stain**

## **4-Urine stain**

## **5-Fecal stain**

## **6-Vaginal stain**

## **7-Teeth and bite marks**

## **8-Fingerprints**

-Dactylography

- Definition
- Classification
- Poroscopy and edescopy
- Types
- Identification
- Medico legal importance
- Lifting of fingerprint from the victim
- Post mortum examination

-New prints other than fingerprint

## 9- Hair

### B) Non-Biological evidences:

*1-fibers*

*2-Glass*

*3-Soil*

*4-Paints*

*5-Bullets*

**Forensic Chemistry  
For  
Doctorate Degree of Forensic Medicine and  
Clinical Toxicology.  
FORE & TOXI 702 (2 credit hours)**

## 1. Crime Scene Investigations and Chemical analysis of Physical Evidences:

- ♣ Preservation and documentation of crime scene.
- ♣ Types of evidences (biological and non-biological).
- ♣ Collecting, preserving evidences and packaging.
- ♣ Identification, class, individualization
- ♣ Transfer and persistence.
- ♣ Chain of custody.

## 2. Forensic Serology and Blood Stains Pattern Analysis.

- ♣ Collection of body fluids.
- ♣ The major body fluids (blood – semen – saliva – sweat - urine).
- ♣ Blood stain pattern analysis.
- ♣ Analysis of other body stains (Fecal – vaginal)

### **3. Fingerprinting in Details ( identification systems and methods of detection of fingerprints & Other Types of Body Prints (e.g. Ear print - Lip print - Foot print)**

## 4. DNA Fingerprinting

- ♣ Nature of DNA.
- ♣ Variations of genes alleles.
- ♣ DNA typing.
- ♣ The polymerase chain reaction.
- ♣ Short tandem repeats.
- ♣ Mitochondrial DNA.
- ♣ Interpretation of results. Purity issues.

## 5. Analysis of trace evidences:

- ♣ Glass.
- ♣ Soil.
- ♣ Paints.
- ♣ Hair.
- ♣ Fibers.

## **6. Fire / arson investigations:**

- ♣ Conditions for a fire
- ♣ Origin and types of fire.
- ♣ Preservation of fire scene.
- ♣ Recognition and collection of fire scene evidences.
- ♣ Characterization of hydrocarbon mixtures.
- ♣ Analysis of fire scene residue evidence.
- ♣ Analysis of fire scene accelerant residues.
- ♣ Interpretation of fire scene evidences.

## **7. Explosives and Explosions:**

- ♣ Effects of explosions.
- ♣ Types of explosives.
- ♣ Analysis of explosives.

## **8. Firearm and tool marks.**

- ♣ Types of firearms.
- ♣ Bullet and cartridge comparison.
- ♣ Gunpowder residue.
- ♣ Collection and preservations of firearms evidences.
- ♣ Tool marks.

## **9. Impression evidence:**

- ♣ Types of impression evidences.
- ♣ Footwear impressions.
- ♣ Tire impressions.

## **10. Sexual assault evidences.**

## **11. Entomo-toxicology: drugs- toxins and insects.**

- ♣ Drugs and fly life cycle.
- ♣ Why use insects as a toxicological specimen.
- ♣ Drug extraction method.
- ♣ Changes in insect development: toxins and drugs.

## **Analytical Toxicology (Master Degree)**

### **1<sup>st</sup> Part**

### **FORE & TOXI 602 (2 credit Hs)**

#### **Chapter (1): Analytical toxicology:**

- Overview.
- Applications of analytical toxicology in:
  - Clinical toxicology.
  - Forensic toxicology.
  - Pathology.
  - Drug abuse screening.
  - Therapeutic drug monitoring.
  - Occupational and environmental toxicology.

#### **Chapter (2): Sampling**

- Sample requirements for general analytical toxicology(Samples for tissue analysis).
- Rules of Sampling regarding decomposed and charred bodies:

- Guidelines for collection of biological samples for analytical toxicology, clinical and forensic toxicological analysis.
- Time of sampling.
- Information supplied to the laboratory.
- Containers for toxicology samples (transport & storage).
- Preservatives in samples.
- Site of sampling (specimen selection).
- Sample preparation.

## Chapter (3): Different test methods used in the toxicology laboratory

- Screening methods:
  - Spot tests.
  - Spectrochemical test.
  - Immunoassay.
  - Chromatography.
- Methods of confirmatory tests.
- Modern technologies and equipments in toxicology analysis.
- Substances are often not detected by toxicological screens.

## Chapter (4): Toxicology testing at the point of care (Bed side Toxicological tests):

- Definition.
- Types.
- Advantages.
- Disadvantages.
- Pitfalls of point of care.

## **Analytical Toxicology (Doctorate Degree)**

### **1<sup>st</sup> Part**

### **FORE & TOXI 701 (2 credit Hs)**

#### **Chapter (1): Interpretation:**

- Important issues in the interpretation of postmortem toxicology.
- Factors affecting Clinical and postmortem drug concentration.
- Interpretation of analytical toxicology results in living and deceased persons (clinical and postmortem).
- Pitfalls in toxicology analysis.
- Special considerations for drug abuse screening tests.

#### **Chapter (2): Postmortem redistribution:**

- Mechanisms underlying postmortem redistribution of drugs.
- Pharmacogenetics and toxicology analysis.

#### **Chapter (3): Autopsy findings of special considerations:**

- Drugs of dependence and abuse:

- 1- Morphine.
- 2- Codeine.
- 3- Heroin.
- 4- Amphetamine.
- 5- Cocaine.
- 6- Cannabis.

- Therapeutics:

- 1- Paracetamol.
- 2- Salicylates.
- 3- Psychoactive drugs.

- Asphyxiant gases:

- 1- Co (carbon monoxide).

2- Hydrogen sulfide.

- Alcohols:
  - 1- Ethanol.
  - 2- Methanol.
- Pesticides:
  - 1- Organophosphates.
  - 2- Phosphide.

**Forensic Medicine and Pathology**  
**For**  
**Master Degree of Forensic Medicine and**  
**Clinical Toxicology.**  
**FORE & TOXI 608 (15 credit hours)**

List of References

- i. Essential Books:
  - ♥ Simpson's Forensic Medicine.
  - ♥ Forensic Pathology (Practical Aspects of Criminal and Forensic Investigations): Vincent J. DiMaio.
- ii. Recommended Books:
  - ♥ Clinical Forensic Medicine: A Physician's Guide.
- iii. Lectures Notes:
  - ♥ Staff members print out of lectures

**I. Basics**

1. Medicolegal autopsy:
  - ♠ Clinical and medicolegal autopsy.
  - ♠ Precautions for medicolegal autopsy.
  - ♠ Objectives of medicolegal autopsy
  - ♠ Importance of examining clothing.
  - ♠ Incisions for the autopsy.
  - ♠ Procedure for external and internal examination.
  - ♠ Selection, preservation and dispatch of viscera/specimens.
  - ♠ Exhumation.
  - ♠ Autopsy of putrefied bodies.
  - ♠ Artifacts.
  - ♠ Autopsy radiology.
  - ♠ Virtual autopsy.
  - ♠ Autopsy report.
  - ♠ Death certification.
2. Identification:
  - ♠ Identification in the living and in the dead.

- ♠ Primary and secondary characteristics.
- ♠ Importance of dentition in the medicolegal field
- ♠ Age from 'ossification activity' of bones.
- ♠ Skull sutures in estimating age.
- ♠ Medicolegal importance of age.
- ♠ Morphological and skeletal changes in determining sex.
- ♠ Stature from the bones.
- ♠ Medicolegal information from hair, scar, and tattoo mark(s).
- ♠ Determining sex and race.
- ♠ Dactylography.
- ♠ Medicolegal information from blood/blood stain
- ♠ Application of blood groups
- ♠ Mass disaster.
- ♠ Collection, preservation and dispatch of samples for DNA testing.

## II. Deaths

### 3. Death

- ♠ Death.
- ♠ Somatic and molecular death.
- ♠ Brain death with its medicolegal aspects, especially in relation to organ transplantation.
- ♠ Suspended animation.
- ♠ Mode, manner, mechanism and cause of death.
- ♠ Estimation of 'time since death' from the immediate, early and late changes after death.
- ♠ Factors influencing such changes.
- ♠ Medicolegal aspects of immediate, early and late changes after death.
- ♠ Differentiation between postmortem staining and bruising, hypostasis and congestion, rigor mortis and cadaveric spasm, rigor mortis and conditions simulating rigor mortis, etc.
- ♠ Postmortem damage by predators.
- ♠ Entomology of the cadaver and postmortem interval.

### 4-Sudden and unexpected death:

- ♠ Concept of 'sudden' and 'unexpected' death.

- ♠ Cardiovascular causes, morbid anatomy of heart and its blood supply and types of occlusion.
- ♠ Sequelae of coronary occlusion.
- ♠ Approaching the cause of death and Postmortem demonstration of myocardial infarction.
- ♠ Hypertensive heart disease and sudden death.
- ♠ Epilepsy as a cause of unexpected death.
- ♠ Pulmonary embolism.
- ♠ Vagal inhibition and sudden death.
- ♠ Other causes of sudden unexpected death.
- ♠ Investigation and diagnosis of sudden and unexpected death.
- ♠ Sudden death in infancy.

#### 5- Asphyxial Deaths:

- ♠ Asphyxia and its types.
- ♠ Suffocation and its types.
- ♠ Medicolegal aspects of smothering, gagging, choking, traumatic asphyxia, burking, etc.
- ♠ Mechanism of death by compression of the neck.
- ♠ Types, cause of death, autopsy findings and the circumstances of hanging.
- ♠ Types, cause of death, autopsy findings and circumstances of strangulation, Mugging, garroting, manual strangulation, etc.
- ♠ Immersion and drowning.
- ♠ Types, mechanism of death, cause of death, pathophysiology, and diagnosis of death in drowning.
- ♠ Floatation of body in water and Circumstances of drowning.

#### 6- Infanticide:

- ♠ Definition of Infanticide and the related law
- ♠ Age of viability and its medicolegal significance.
- ♠ Concept of live birth and Proof of live birth.
- ♠ Hydrostatic test and its importance.
- ♠ Probable duration of life of the child.
- ♠ Autopsy and Cause of death, i.e. acts of commission and acts of omission.

#### 7-Thermal Deaths:

- ♠ Heat regulation.

- ♠ Systemic hyperthermia (heat cramps, heat exhaustion and heat stroke).
- ♠ Character of burns produced by various agents.
- ♠ Different classification of burns, Rule of nine, Causes of death in burn.
- ♠ Age of burn injury.
- ♠ Autopsy findings.
- ♠ Medicolegal aspects of death due to burns.
- ♠ Antemortem and postmortem differentiation of burns
- ♠ Scalds and their medicolegal aspects.
- ♠ Differentiation of injuries due to dry heat, moist heat and chemicals.
- ♠ Pathophysiology of hypothermia.
- ♠ Circumstances of injury due to cold.
- ♠ Autopsy findings in death due to cold.

#### 8- Death by Electrocution:

- ♠ Types of fatal electrocution.
- ♠ Factors influencing effects of electricity.
- ♠ Mechanism of death.
- ♠ Autopsy findings
- ♠ Circumstances of electrocution.
- ♠ Iatrogenic electrocution and judicial electrocution.
- ♠ Lightning and mechanism of injury by it.
- ♠ Circumstances of lightning.

#### 9- Deaths associated with Pregnancy, delivery and Abortion.

#### 10- Deaths associated with Surgery and Anesthesia and Blood transfusion:

- ♠ The mode and causes of death after surgery and anesthesia.
- ♠ Deaths associated with anesthesia.
- ♠ Malignant hyperthermia.
- ♠ The autopsy on deaths associated with surgery..
- ♠ Autopsy procedure and precautions during autopsy.

### III. Injuries

#### 11- Wounds: Medicolegal considerations and types:

- ♠ Wound, trauma, injury, Classification of injuries
- ♠ Mechanism of production of mechanical injuries.
- ♠ Injuries by blunt forces.
- ♠ Injuries by sharp forces.

- ♠ Differentiation between antemortem and postmortem wounds.
- ♠ Wound healing.
- ♠ Complications of wounds.

## 12- Firearm injuries and Injuries by explosions:

- ♠ Types of firearms.
- ♠ Types of ammunition.
- ♠ Parts of cartridge and their functions.
- ♠ Mechanism of bullet wound production.
- ♠ Characters of wounds produced by rifled and smooth-bore firearms.
- ♠ Inlet and exit wounds by rifled and Smooth-bore weapons.
- ♠ Firearm residues.
- ♠ Autopsy in firearm fatalities.
- ♠ Manner of death.
- ♠ Mechanism of production of injuries by bomb blast.
- ♠ Autopsy in explosion fatalities.
- ♠ Medicolegal considerations in explosion injuries.

## 13- Regional Injuries:

- ♠ Injuries of the scalp including forensic aspects of anatomy of the scalp.
- ♠ Fractures of the skull including forensic aspects of anatomy of the skull.
- ♠ Mechanism of production of skull fractures.
- ♠ Meningeal hemorrhages with their medicolegal aspects.
- ♠ Mechanism of production of cerebral injuries.
- ♠ Medicolegal aspects of coup and contrecoup injuries
- ♠ Concussion and compression.
- ♠ Head injuries in boxers.
- ♠ Spinal injuries with their medicolegal aspects.
- ♠ Facial, cervical, thoracic and abdominal trauma.

## 14- Chest and abdominal injuries.

## 15-Transportation Injuries:

- ♠ Mechanism of vehicular injury.
- ♠ Pattern of injuries to the driver, front-seat occupants and rear-seat occupants of a motor car.
- ♠ Pattern of injuries to the pedestrians, motor cyclists and pedal cyclists, etc.
- ♠ Aircraft accidents, railway accidents and vehicular conflagration.
- ♠ Medicolegal aspects of transportation injuries.

## 16- Medico-Legal Aspects of Permanent infirmity.

#### IV. Clinical Forensic Medicine

17- Virginity, Pregnancy and Delivery.

18- Abortion.

19- Sexual assault.

- ♠ Classification of sexual offence.

- ♠ Definitions.

- ♠ Rape.

- ♠ Un-natural sexual offences.

20- Impotence and Sterility.

- ♠ Causes of Impotence and sterility in Males.

- ♠ Causes of Impotence and sterility in females.

- ♠ Examination of a person in an alleged case of Impotence and sterility.

21- Child Abuse:

- ♠ Physical child abuse.

- ♠ Sexual child abuse.

- ♠ Medical examination of child sexual abuse.

- ♠ Interpretation of the medical finding.

- ♠ Emotional abuse and neglect.

Shaken Baby Syndrome.

**Forensic Medicine and Pathology  
For  
Doctorate Degree of Forensic Medicine and  
Clinical Toxicology.  
FORE & TOXI 707/ 708 (12/ 8 credit hours)**

**List of References**

iv. Essential Books:

- ♥ Knight's Forensic Pathology.
- ♥ Forensic Pathology (Practical Aspects of Criminal and Forensic Investigations): Vincent J. DiMaio.

v. Recommended Books:

- ♥ Text book of Forensic Medicine and Toxicology: Principles and practice.
- ♥ Clinical Forensic Medicine: A Physician's Guide.

vi. Lectures Notes:

- ♥ Staff members print out of lectures

**I. Basics**

**2. Medicolegal autopsy:**

- ♠ Clinical and medicolegal autopsy.
- ♠ Precautions for medicolegal autopsy.
- ♠ Objectives of medicolegal autopsy
- ♠ Importance of examining clothing.
- ♠ Incisions for the autopsy.
- ♠ Procedure for external and internal examination.
- ♠ Selection, preservation and dispatch of viscera/specimens.
- ♠ Exhumation.
- ♠ Autopsy of putrefied bodies.
- ♠ Obscure and negative autopsy.
- ♠ Infectious autopsy.
- ♠ Artifacts.
- ♠ Autopsy radiology.
- ♠ Virtual autopsy.
- ♠ Autopsy report.
- ♠ Death certification.

## 2. Identification:

- ♠ Identification in the living and in the dead.
- ♠ Primary and secondary characteristics.
- ♠ Importance of dentition in the medicolegal field
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- ♠ Postmortem damage by predators.
- ♠ Entomology of the cadaver and postmortem interval.

### 4-Sudden and unexpected death:

- ♠ Concept of 'sudden' and 'unexpected' death.
- ♠ Cardiovascular causes, morbid anatomy of heart and its blood supply and types of occlusion.
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- ♠ Floatation of body in water and Circumstances of drowning.

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- ♠ Pathophysiology of hypothermia.
- ♠ Circumstances of injury due to cold.
- ♠ Autopsy findings in death due to cold.

#### 8- Starvation and neglect:

- ♠ Definition of starvation and its types.
- ♠ Autopsy findings.
- ♠ Circumstances of death.

#### 9- Death by Electrocution:

- ♠ Types of fatal electrocution.
- ♠ Factors influencing effects of electricity.
- ♠ Mechanism of death.
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- ♠ Iatrogenic electrocution and judicial electrocution.
- ♠ Lightning and mechanism of injury by it .
- ♠ Circumstances of lightning.

#### 10- Deaths associated with abortion, pregnancy and Delivery.

#### 11- Death associated with Surgery and Anesthesia and Blood transfusion:

- ♠ The mode and cause of death after surgery and anesthesia.
- ♠ Deaths associated with anesthesia.
- ♠ Malignant hyperthermia.
- ♠ The autopsy on deaths associated with surgery..
- ♠ Autopsy procedure and precautions during autopsy.

#### 12- Nursing Home Deaths.

### III. Injuries

#### 13- Wounds: Medicolegal considerations and types:

- ♠ Wound, trauma, injury, Classification of injuries
- ♠ Mechanism of production of mechanical injuries.
- ♠ Injuries by blunt forces.
- ♠ Injuries by sharp forces.
- ♠ Differentiation between antemortem and postmortem wounds.
- ♠ Wound healing.
- ♠ Complications of wounds.

#### 14- Firearm injuries and Injuries by explosions:

- ♠ Types of firearms.
- ♠ Types of ammunition.
- ♠ Parts of cartridge and their functions.
- ♠ Mechanism of bullet wound production.
- ♠ Characters of wounds produced by rifled and smooth-bore firearms.
- ♠ Inlet and exit wounds by rifled and Smooth-bore weapons.
- ♠ Direction of fire.
- ♠ Various tests for firearm residues.
- ♠ Autopsy in firearm fatalities.
- ♠ Manner of death.
- ♠ Mechanism of production of injuries by bomb blast.
- ♠ Autopsy in explosion fatalities.
- ♠ Medicolegal considerations in explosion injuries.

#### 15- Regional Injuries:

- ♠ Injuries of the scalp including forensic aspects of anatomy of the scalp.
- ♠ Fractures of the skull including forensic aspects of anatomy of the skull.
- ♠ Mechanism of production of skull fractures.
- ♠ Meningeal hemorrhages with their medicolegal aspects.
- ♠ Mechanism of production of cerebral injuries.
- ♠ Medicolegal aspects of coup and contrecoup injuries
- ♠ Concussion.
- ♠ Head injuries in boxers.
- ♠ Spinal injuries with their medicolegal aspects.
- ♠ Facial, cervical, thoracic and abdominal trauma.

#### 16- Chest and abdominal injuries.

#### 17-Transportation Injuries:

- ♠ Mechanism of vehicular injury.
- ♠ Pattern of injuries to the driver, front-seat occupants and rear-seat occupants of a motor car.
- ♠ Pattern of injuries to the pedestrians, motor cyclists and pedal cyclists, etc.
- ♠ Aircraft accidents, railway accidents and vehicular conflagration.
- ♠ Medicolegal aspects of transportation injuries.

♠

18- Dysbarism and barotraumas.

- ♠ Physical damage.
- ♠ The autopsy in dysbarism and barotraumas deaths.

♠

#### IV. Clinical Forensic Medicine

19- Virginity, Pregnancy and Delivery.

20- Abortion.

21- Sexual assault.

- ♠ Classification of sexual offence.
- ♠ Definitions.
- ♠ Rape.
- ♠ Un-natural sexual offences.

22- Impotence and Sterility.

- ♠ Causes of Impotence and sterility in Males.
- ♠ Causes of Impotence and sterility in females.
- ♠ Examination of a person in an alleged case of Impotence and sterility.

23- Assisted Reproduction Techniques and Cloning.

24- Child Abuse:

- ♠ Physical child abuse.
- ♠ Sexual child abuse.
- ♠ Medical examination of child sexual abuse.
- ♠ Interpretation of the medical finding.
- ♠ Emotional abuse and neglect.
- ♠ Shaken baby syndrome.

25- Self Inflicted Injuries:

- ♠ Categories of self-inflicted injuries.
- ♠ Simulation of criminal offenses.
- ♠ Self mutilation for the purpose of insurance fraud.
- ♠ Artifacts in patients with psychic disturbances and mental diseases.



25- Medico- Legal Aspects of Permanent infirmity.

26- Torture and Death in Custody.

- ♠ Meaning of custody and torture.
- ♠ Methods of torture.
- ♠ Circumstances of death.
- ♠ Role of autopsy surgeon.

28- Forensic Psychiatry

- ♠ Medico-legal of Psychiatry and mental health.
- ♠ Medico-legal aspects of drug addiction.
- ♠ Role of Psychiatry in crime investigation, punishment and trials.
- ♠ Civil and criminal responsibilities of an insane person.

## **GENERAL TOXICOLOGY [Master Degree] 1st Part FORE&TOXI 601 [2 Credit Hs.]**

### **I. The general approach to medical toxicology.**

1. Initial Evaluation of the Patient: Vital Signs and Toxic Syndromes.
2. Principles of Managing the Poisoned or Overdosed Patient.
3. Electrocardiographic Principles.
4. Diagnostic Imaging.
5. Laboratory Principles.
6. Techniques Used to Prevent Gastrointestinal Absorption.
  - Syrup of Ipecac.
  - Activated Charcoal.
  - Whole-Bowel Irrigation and Other Intestinal Evacuants.
7. Pharmacokinetic and Toxicokinetic Principles.
8. Principles and Techniques Applied to Enhance Elimination.
9. Use of the Intensive Care Unit.

### **II. the fundamental principles of medical toxicology**

#### **➤ SECTION (I) BIOCHEMICAL AND MOLECULAR BASIS:**

1. Chemical Principles.
2. Biochemical and Metabolic Principles.
3. Neurotransmitters and Neuromodulators.
4. Withdrawal Principles.

#### **➤ SECTION (II) PATHOPHYSIOLOGIC BASIS: ORGAN SYSTEMS:**

1. Thermoregulatory Principles.
2. Fluid, Electrolyte, and Acid–Base Principles.

#### **SECTION (III) SPECIAL POPULATIONS:**

1. Reproductive and Perinatal Principles.
2. Pediatric Principles.
3. Geriatric Principles.

**References:**

- ***Goldfrank's Toxicologic Emergencies (2006)***: 8th edition, McGraw-Hill, New York, Flomenbaum, N.E.; Goldfrank, L.R.; Hoffman, R.S., et al. (eds.).
- ***Dart's Medical Toxicology (2003)***: 3rd Edition. Lippincott Williams and Wilkins, Richard C. Dart, M.D. et al., Eds.
- ***Peter Vicellio Emergency Toxicology (1998)***: 2nd Edition, Lippincott Williams & Wilkins, by Peter Vicellio & Tod Bania Eds.
- ***Poisoning & Drug Overdose (2007)***: Olson, K.R. (ed.) Lange medical books/McGraw-Hill, New York, Chicago, Toronto, 5th ed.
- ***Clinical Toxicology (2001)***: Ford MD, Delaney KA, Ling LJ et al., (eds.), 1st ed., W.B. Saunders Co., Philadelphia.

## **GENERAL CLINICAL TOXICOLOGY [Doctorate Degree] 2nd Part FORE & TOXI 709 [8 credit hs]**

### **I- Pharmacokinetic and Toxic kinetic Principles:**

Absorption.

Metabolism.

#### **Biotransformation:**

1. Phase I Biotransformation Reactions.

2. Phase II Biotransformation Reactions.

Distribution.

Interpretation of Plasma Concentrations.

Elimination.

### **II- The General Approach to Medical Toxicology:**

#### **Diagnosis of the poisoned patient; including:**

1. Coma of unclear etiology & its management.

2. Rhabdomylosis & muscle paralysis.

3. Seizures.

4. Sick building syndrome.

5. Acute delirium & Hallucinations.

#### **Initial Evaluation of the Poisoned Patient: Vital Signs and Toxic Syndromes including:**

1. Supportive care “airway & ventilation”.

2. Hypersensitivity Reactions & Anaphylaxis.

Page 2 of 4

Principles of Managing the Poisoned or Overdosed Patient.

**Electrocardiographic Principles.**

**Diagnostic Imaging.**

**Laboratory Principles.**

Techniques Used to Prevent Gastrointestinal Absorption:

1. Syrup of Ipecac.
2. Activated Charcoal.
3. Whole-Bowel Irrigation.
4. Other Intestinal Evacuants.

Principles and Techniques Applied to Enhance Elimination.

**Use of the Intensive Care Unit.**

### **III- The Fundamental Principles Of Medical Toxicology:**

Biochemical Principles “Mechanisms of Cellular Injury”: [Oxidation-Reduction, Reactive Oxygen Species, Free Radical Formation, Acid-Base Chemistry].

Neurotransmitters and Neuromodulators.

Withdrawal Principles.

Thermoregulatory Principles: [Hypothermia, Hyperthermia]

Fluid, Electrolyte, and Acid–Base Principles.

Neurologic Principles: [Blood-Brain Barrier, Mechanisms of Neurotoxicity].

Respiratory Principles.

Cardiovascular Principles.

Hematologic Principles.

Gastrointestinal Principles.

**Hepatic Principles.**

Renal Principles.

Genitourinary Principles.

Dermatologic Principles.

Ocular Abnormalities

#### **IV- SPECIAL POPULATIONS:**

**Reproductive and Perinatal Principles (pregnancy & lactation).**

**Pediatric Principles.**

**Geriatric Principles.**

**Postmortem Toxicology.**

Organ Procurement from Poisoned Patients.

#### **V- MISCELLANEOUS TOXICOLOGICAL ISSUES:**

Poison Prevention and Education.

**Hazmat Incident Response.**

**Chemical Weapons.**

**Biological Weapons.**

**Radiation.**

Adverse Drug Events and Post-marketing Surveillance.

Medications, Errors, and Patient Safety.

Risk Management and Legal Principles.

Antiquated Antidotes.

Drug Testing in the Workplace.

## References:

- 1. Goldfrank's Toxicologic Emergencies (2006):** 8th edition, McGraw-Hill, New York, Flomenbaum, N.E.; Goldfrank, L.R.; Hoffman, R.S., et al. (eds.).
- 2. Dart's Medical Toxicology (2003):** 3rd Edition. Lippincott Williams and Wilkins, Richard C. Dart, M.D. et al., Eds.
- 3. Peter Vicellio Emergency Toxicology (1998):** 2nd Edition, Lippincott Williams & Wilkins, by Peter Vicellio & Tod Bania Eds.
- 4. Poisoning & Drug Overdose (2007):** *Olson, K.R.* (ed.) Lange medical books/McGraw-Hill, New York, Chicago, Toronto, 5th ed.
- 4- Clinical Toxicology (2001):** Ford MD, Delaney KA, Ling LJ et al., (eds), 1st ed., W.B. Saunders Co., Philadelphia.



## **SPECIAL CLINICAL TOXICOLOGY [Doctorate Degree] 2nd Part FORE&TOXI 710 [12 credit hs.]**

### **Analgesics and Anti-inflammatory Medications:**

- Acetaminophen.
- Salicylates.
- Non-steroidal Anti-inflammatory Drugs.
- Colchicine.
- Opioids.

### **Foods, Dietary and Nutritional Agents:**

- Dieting Agents and Regimens.
- Iron.
- Vitamins.
- Essential Oils.
- Herbal Preparations.
- Athletic Performance Enhancers.
- Food Poisoning.
- Botulism.

### **Pharmaceuticals:**

- Anticonvulsants.
- Antidiabetics and Hypoglycemics.
- Thyroid and Antithyroid Medications.
- Antihistamines and Decongestants.
- Antimigraine Medications.
- Antineoplastics.
- Pharmaceutical Additives.

### **Antimicrobials:**

- Antibiotics.
- Antifungals.
- Antivirals.
- Antituberculous Medications

- Antimalarials.

### **Cardiopulmonary Medications:**

- Anticoagulants.
- Calcium Channel Blockers.
- Adrenergic Antagonists.
- Other Antihypertensives.
- Antidysrhythmics.
- Cardioactive Steroids.
- Methylxanthines and Selective B2-Adrenergic Agonists.

### **Anesthetics and Related Medications:**

- Local Anesthetics.
- Inhalational Anesthetics.
- Neuromuscular Blockers.

### **Psychotropic Medications:**

- Antipsychotics.
- Lithium.
- Monoamine Oxidase Inhibitors.
- Serotonin Reuptake Inhibitors and Atypical Antidepressants.
- Cyclic Antidepressants.
- Sedative-Hypnotics.

### **Substances of Abuse:**

- Amphetamines.
- Cocaine.
- Ethanol.
- Ethanol Withdrawal.
- Disulfiram and Disulfiram-like Reactions.
- Hydroxybutyric Acid.
- Inhalants.
- Hallucinogens.
- Cannabinoids.
  - Nicotine and Tobacco Preparations.
- Phencyclidine and Ketamine.

### **Metals:**

- Antimony
- Arsenic
- Bismuth
- Cadmium
- Chromium
- Cobalt
- Copper
- Lead
- Mercury
- Nickel
- Selenium
- Silver
- Thallium
- Zinc

### **Household Products:**

- Antiseptics, Disinfectants, and Sterilants.
- Camphor and Moth Repellents.
- Hydrofluoric Acid and Fluorides.
- Caustics.
- Hydrocarbons.
- Toxic Alcohols.**

### **Pesticides:**

- Pesticides: An Overview with a Focus on Principles and Rodenticides
- Barium
- Sodium Monofluoroacetate and Fluoroacetamide
- Phosphorus
- Strychnine
  - Insecticides: Organic Phosphorus Compounds and Carbamates
- Insecticides: Organic Chlorines, Pyrethrins/Pyrethroids, and DEET
- Herbicides
- Methyl Bromide and Other Fumigants

### **Natural Toxins and Envenomations:**

- Mushrooms.

- Plants.
- Arthropods, Antivenom (Scorpion and Spider).
- Marine Envenomations.
- Snakes and Other Reptiles, Antivenom (Crotaline and Elapid).

#### **Occupational and Environmental Toxins:**

- Industrial Poisoning: Information and Control
- Simple Asphyxiants and Pulmonary Irritants
- Carbon Monoxide
- Cyanide and Hydrogen Sulfide
- Methemoglobin Inducers
- Smoke Inhalation

## Pathology curriculum of master degree

### FORE&TOXI 605 [1 credit hour]

#### General:

- Inflammation.
- Granulomatous inflam. (TB-B)
- Stem cell and repair.
- Circulatory disturbances.
- Disturbance of growth.

#### Systemic:

##### CVS

- Coronary heart ds.
- Heart failure.
- Aneurysm.

##### CNS

- Intracranial he.
- Cerebral embolism.
- Cerebral edema.
- Cerebral abscess.

##### Respiratory

- Pulmonary edema.
- Pulmonary embolism.
- Respiratory failure.

##### Urinary tract

- Renal failure.

##### GIT

- Causes of obstruction.

##### Bones

- Fracture(types-repair).

#### Practical from the museum

- Jars of CVS ,respiratory ,GIT ,CNS.

## Pathology curriculum of Doctorate degree

### FORE&TOXI 704 [2 credit hours]

#### Systemic:

##### CVS

- Coronary heart ds.
- Heart failure.
- Aneurysm.

##### CNS

- Intracranial he.
- Cerebral embolism.
- Cerebral edema.
- Cerebral abscess.

##### Respiratory

- Pulmonary edema.
- Pulmonary embolism.
- Respiratory failure.

##### Urinary tract

- Renal failure.

##### GIT

- Causes of obstruction.
- Tumors of (stomach, small intestine, large intestine).

##### Bones

- Fracture(types- Its repair in details).

##### Sudden death in infants and adults.

- Definition, incidence of Diseases and its epidemiology.
- Etiology, pathogenesis and Molecular genetics.
- Morphological aspects: Gross & Microscopical changes.
- Fate & complications.
- Others: Clinical presentations & prognosis.

##### Practical from the museum

- Jars of CVS ,respiratory ,GIT ,CNS.

**Medical statistics (Doctorate Degree)**  
**1<sup>st</sup> Part**  
**FORE & TOXI 706 (1 credit Hs)**

**Course content**

<b>Topics</b>	<b>Hours of Lectures</b>	<b>Practical/Tutorial</b>
Types of data	1	1
Collection of data: <ul style="list-style-type: none"> <li>▪ Sampling</li> <li>▪ Screening</li> <li>▪ Epidemiological studies</li> </ul>	3	3
Summarization of data: <ul style="list-style-type: none"> <li>▪ Measures of central tendency</li> <li>▪ Measures of dispersion</li> </ul>	2	2
Presentation of data: <ul style="list-style-type: none"> <li>▪ Tabular presentation</li> <li>▪ Graphic presentation</li> <li>▪ Mathematical presentation</li> </ul>	2	2
Normal distribution curve	1	1
Hypothesis testing	1	1
Analysis of data & tests of significance	2	2
Vital rates	2	2
Ethics of research	1	1
<b>Total</b>	<b>15</b>	<b>15</b>

## مواعيد سيمينارات الماجيستر والدكتوراة

لعام (2020 -2019)

التوقيت	اليوم	المادة
<b>11:00 -10:00</b>	الأثنين	Ethics
<b>12:15 -11:15</b>	الأثنين	Analytical toxicology
<b>1:30 -12:30</b>	الأثنين	Forensic chemistry
<b>11:30 -10:00</b>	الأربعاء	Forensic Medicine
<b>1:00 -11:45</b>	الأربعاء	Toxicology

## جدول سيمينارات مادة الأخلاقيات

المحاضر	الموضوع	التاريخ
أ.د محمد الششتاوي	<b>Introduction</b>	<b>2019 /6 /24</b>
أ.د محمد الششتاوي	<b>Introduction</b>	<b>2019 /7 /1</b>
نور أبو بكر	<b>Medical confidentiality</b>	<b>2019 /7 /8</b>
ألاء السيد	<b>Doctor patient relationship</b>	<b>2019 /7 /15</b>
ياسمينا بدر	<b>Research ethics</b>	<b>2019 /7 /22</b>
رنا محدث	<b>Ethics dilemma &amp; Euthanasia</b>	<b>2019 /7 /29</b>
أسماء عبدالعزيز	<b>Medical malpractice</b>	<b>2019 /9 /2</b>
أسماء مغافوري	<b>Medical ethics of teaching new trainer</b>  <b>Introduction of new surgical procedures</b>  <b>&amp; ethics of organ transplantation.</b>	<b>2019 /9 /9</b>
مروة مراد	<b>Medical ethics for Gynecology &amp; obstetric</b>	<b>2019 /9 /16</b>
أميمة رفعت	<b>Ethics of psychiatry</b>	<b>2019 /9 /23</b>
نسمة اسماعيل	<b>Ethics of ICU and emergency</b>	<b>2019 /9 /30</b>
ابراهيم أحمد	<b>Ethical Issues in clinical pathology</b>	<b>2019 /10 /7</b>
د. رباب فوزى	<b>Ethical Issues in clinical radiology</b>	<b>2019 /10 /14</b>

## جدول سيمينارات مادة الكيمياء الشرعية لعام 2019

المحاضر	الموضوع	التاريخ
د/ اسماء عبد العزيز	<b>Forensic Serology and Blood Stains Pattern Analysis</b>	<b>2019 /9 /30</b>
د/ رنا مدحت	<b>Crime Scene Investigations and Chemical analysis of Physical Evidences</b>	<b>2019 /10/7</b>
د/ ياسمينا بدر	<b>DNA Fingerprinting</b>	<b>2019 /10 /14</b>
د/وفاء سامي	<b>Fingerprinting and other types of Body Prints</b>	<b>2019 /10/21</b>
د/لاء السيد	<b>Analysis of trace evidences</b>	<b>2019 /10 /28</b>
د/نور ابو بكر	<b>Impression evidence</b>	<b>2019 /11/4</b>
د/ ياسمين	<b>Fire / arson investigations</b>	<b>2019 /11 /11</b>
د/ ابراهيم احمد	<b>Explosives and Explosions</b>	<b>2019 /11 /18</b>
د/ نسمه اسماعيل	<b>Firearm and tool marks</b>	<b>2019 /11 /25</b>
د/ ايمهه رفعت	<b>Sexual assault evidences</b>	<b>2019 /12 /2</b>
د/ مروه مراد	<b>Entomo-toxicology</b>	<b>2019 /12 /9</b>

## جدول محاضرات

### Analytical toxicology

المحاضر	العنوان	التاريخ
مروة مراد	Analytical toxicology overview and types of sampling.	9/30
أميمة رفعت	Factors affecting clinical samples & rules of sampling	10/7
نسمة اسماعيل	Screening methods in toxicology laboratory	10/14
ابراهيم أحمد	Methods of confirmatory tests used in toxicology laboratory	10/21
ياسمينا بدر	Pharmacogenetics and toxicological analysis	10/28
رنا مدحت	Interpretation of analytical toxicology results in living persons.	11/4
رنا مدحت	Interpretation of analytical toxicology results in deceased persons. (postmortem)	11/11
أسماء عبدالعزيز	Mechanisms underlying postmortem redistribution of drugs.	11/18
ياسمينا بدر	Pitfalls in toxicology analysis.	11/25
أسماء عبدالعزيز	Special considerations for drug abuse screening tests.	12/2
الاء السيد	Bed side Toxicological tests + Substances are often not detected by toxicological screens.	12/9
نور أبو بكر	Modern technologies and equipment in toxicology analysis.	12/16
ياسمين فتحى	Applications of analytical toxicology I	12/23
ياسمين فتحى	Applications of analytical toxicology II	12/30

وفاء سامي	<b>Autopsy findings of Drugs of dependence and abuse (Death from narcotic and hallucinogenic drugs):</b> <ol style="list-style-type: none"> <li>1- Morphine and other opioid drugs.</li> <li>2- Amphetamine.</li> <li>3- Cocaine.</li> <li>4- Cannabis.</li> </ol>	1/6
الااء السيد  نور أبو بكر	<b>Autopsy findings of Therapeutics:</b> <ol style="list-style-type: none"> <li>1- Paracetamol.</li> <li>2- Salicylates.</li> <li>3- Psychoactive drugs</li> </ol> <b>Autopsy findings of Asphyxiant gases:</b> <ol style="list-style-type: none"> <li>1- Co (carbon monoxide).</li> <li>2- Hydrogen sulfide.</li> </ol>	1/13
وفاء سامي	<b>Autopsy findings of</b> <ul style="list-style-type: none"> <li>• Alcohols:           <ol style="list-style-type: none"> <li>1- Ethanol.</li> <li>2- Methanol.</li> </ol> </li> <li>• Pesticides:           <ol style="list-style-type: none"> <li>3- Organophosphates.</li> <li>Phosphide.</li> </ol> </li> </ul>	1/20

## جدول سيمينارات مادة السموم للماجيستر(جزء أول) لعام 2019-2020

### General Toxicology

Chapter	Lecture	Lecturer	Date
<b><u>GENERAL TOXICOLOGY:</u></b>  <b>I- THE GENERAL APPROACH TO MEDICAL TOXICOLOGY</b>	Initial Evaluation of the Patient: Vital Signs and Toxic Syndromes Principles of Managing the Poisoned or Overdosed Patient. Techniques Used to Prevent Gastrointestinal Absorption Principles and Techniques Applied to Enhance Elimination Use of the Intensive Care Unit	د. عبد المنعم جودة	2019 - 10 - 9
	Pharmacokinetic and toxicokinetic principles	د. نسمة	2019 -10 -16
	Electrocardiographic Principles. Diagnostic Imaging. Laboratory Principles.	د. ابراهيم أحمد	2019 -10 -23
<b>II-THE FUNDAMENTAL PRINCIPLES OF MEDICAL TOXICOLOGY</b>	Chemical Principles Biochemical and Metabolic Principles Neurotransmitters and Neuromodulators Withdrawal Principles	د. ناجح	2019 -10 -30
<b>III- PATHOPHYSIOLOGIC BASIS: ORGAN SYSTEMS</b>	Fluid, electrolyte, acid-base principles. Thermoregulatory Principles.	د. محمد فريد	2019 -11 -6
<b>IV- SPECIAL POPULATIONS</b>	Reproductive and Perinatal Principles Pediatric Principles Geriatric Principles	د. عفاف	2019 -11 -13

## جدول سيمinars مادة الطب الشرعي لعام 2019-2020

Date	Subject	المحاضر
2/10/2019	Autopsy	أ. د. محمد الشيشتاوي
9/10/2019	Death (diagnosis)	د رباب شعبان
16/10/2019	Death (PM changes)	د. سالى
23/10/2019	Sudden unexpected death	د مروه
30/10/2019	Wounds	د. نور
6/11/2019	permanent infirmity self-inflicted injury	
13/11/2019	Regional (head injury)	د. رباب شعبان
20/11/2019	Regional (head injury)	
27/11/2019	Chest and abdominal injury	د. رباب فوزى
4/12/2019	Thermal injury	د. عفاف
11/12/2019	electrocution	
18/12/2019	Firearm and explosion	اسلام سامي.د.م.ا
25/12/2019	Firearm and explosion	
1/1/2020	Asphyxia	
8/1/2020	Asphyxia	
15/1/2020	Death with surgery and anesthesia	مروه.د
22/1/2020	Transportation injuries	سالى.د
29/1/2020	Infanticide and child abuse	عفاف.د
5/2/2020	Pregnancy, delivery, abortion	د سالى
12/2/2020	Sexual assault and impotence	محمد ششتاوي.د.ا
19/2/2020	Barotrauma and dysbarism	رباب فوزى.د
26/2/2020	Starvation, neglect, death from cold	
4/3/2020	Forensic psychiatry	محمد ششتاوي.د.ا
11/3/2020	Nursing home deaths	شرين الخولي.د.ا
18/3/2020	Torture and death in custody	ا.د. عبير عبد الوهاب