



Quality Assurance Unit (QAU)



وحدة ضمان الجودة



Quality Assurance Unit (QAU)

Course Specification ofForensic medicine

كود المقرر: FMT1

القسم: الطب الشرعي

رئيس القسم

د سميرة محمد صالح

منسق المقرر

دام کلثوم محمود ابو زید

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Course specification

Program on which the course is given: M.B.B.Ch. Program •

Major Element of programs •

Department offering the program :All Departments •

Department offering the course: forensic medicine •

Date of specification approval:3\2010 •

Date of modification:11 | 2018 •

Academic year \level :4th year (7th semester) •

A-Basic information:

Forensic medicine code:FMT1

Cerdit hours\week :lecture :2hours practical:1hour

R-PROFESSIONAL INFORMATION:

D-I ROFESSIONAL INFORMATION.				
1- Overall aims				
By the end of the course ,students should be able to:				
To understand the essential topics of forensic medicine				
including:				
➤ Aim 1: Basics of forensic medicine to recognize types of laws				
and their relation to medical practice.				
➤ Aim 2: Understanding of basics of medical ethics, medico-				
legal aspects of health problems, malpractice and medical				
errors and the importance of preservation of evidences of				

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significance	tor	legal	procedures.

- ➤ **Aim 3:** Ability to medically document and describe different injuries, death and post-mortem changes.
- ➤ **Aim 4:** to demonstrate Ethical rules in relationships with patients, colleagues and medical profession.

2-Intended Learning Outcomes

By the end of the course, students should be able to:

A1-**Identify** the role of civil and criminal laws in medical practice.

A2-**Define** the basics of medico-legal aspects of hospital and general practice.

- A3-**Describe** items of human rights charter.
- A4-Discuss elements of medical malpractice.
- A5-**Discuss** main points of personal identification in living and dead and the

important ages of medico-legal importance.

A6-**Identify** proper diagnosis of death from the medical and legal points of

view.

- A7-**Describe** post mortem changes.
- A8-**Discuss** the effects of different injuries on the structure and function of the human body.

A-Knowledge and Understanding





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A9- Describe methods of preservation of evidences of significance for legal procedures.	
	B-
By the end of the course, students should be able to:	Intellectual Skills
B1-Evaluate cases of medical malpractice.	
B2- Correlate the data collected from a living or dead body with his personal identification, age or sex.	
B3- Correlate post-mortem changes with the time passed since death.	
B4- Interpret different findings in different injuries to detect suspected criminal cases	
B5 -Solve problems dealing with different forensic cases.	
By the end of the course, students should be able to:	C-
C1-Criticize and report medical malpractice cases.	Practical and
C2- Identify and comment on individual's age from a radiological specimen.	Professional Skills
C3- Identify and write a comment on different injuries.	
C4-Write medico-legal reports and death certificates that fulfill	





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the whole	
medico-legal requirements.	
C7- Identify pathologic findings in different images, ECG, ABG and laboratory	
test results.	
C8- Practice Basics of health and patient's safety and safety procedures.	
C9- Perform Cardiopulmonary resuscitation on a model .	
C10- Perform endotracheal intubation on a model.	
C11- Perform gastric lavage on a model.	
C12-Communicate clearly, sensitively and effectively with patients and their care givers, regardless of their social, cultural or ethnic background.	
By the end of the course, students should be able to:	D-
D1-Value the interests and dignity of patients and families.	General Skills
D2- Communicate in difficult situations including breaking bad news.	
D3- Respect superiors, colleagues and any other members of the health	
Profession.	
D4- Gather, organize and appraise the medical information including the use	
Of information technology where applicable.	
D5- Present medical information in written, oral or electronic	





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	forms.		
	D6- Communicate ideas and arguments effectively .		
	D7- Be prepared for the lifelong learning needs of the medical profession.		
	D8- Work constructively and cooperatively within a team.		
	D9- Manage time effectively.		
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3-Cours	se Content		

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Date	TOPICS	LECTURE	PRACTICAL	
1 ST	Identification	2	2	
week				
2nd	Examination of	2	2	
week	blood stains			
3rdweek	Death and post-	2	2	
	mortem changes			
4 th	General wounds	2	2	
week	and medical reports			
5 th	Injuries to special	2	2	
week	organs			
6 th	Firearm weapons	2	2	
week	andFirearm wounds			
7 th	Physical Injuries	2	2	
week				
8 th	Violent Asphyxia	2	2	
week				





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	9 th	Medicolegal	2	2	
		Aspects of			
	week	Pregnancy,			
		Delivery, and			
		Abortion and			
		Infanticide			
	10 th	Sexual Offenses	2	2	
	week				
	11 th	Child Abuse	2	2	
	Week				
	VVCCK				
	12 th	Medical Ethics	2	2	
	week				
			2.4	24	
			24	24	
4-Te	eaching and	Learning Methods			
		•			
5.1- Lec	ctures: using sl	ides and data show appar	atus.		
5.2- Dis	cussion session	ns.			
5.3- MC	5.3- MCQs (formative assessment).				
	5.4- Assignment and medicolegal reports.				
	•	ng accommodation, inclu		• • •	
_	(e.g. microscopes),teaching aids(photographs, X-rays, jars contain soft tissues				
	Specimen, bones, plant alkaloids specimens, firearm cartridges.				
5.6-In future plan: models for injuries					





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5-:Student Assessment

Measured Skills (ILOs)	Weigh t	Time Schedule	Tools - 1	-Tools
Knowledge & understanding (A1-A5) and Intellectual (B1-B4).	25%	By the end of the 2nd month from the semester	MCQs (formative/summative	
Intellectual (B1-B4), practical & Professional Skills (C1-C7).	30%	By the end of the semester	Final practical examination	
Knowledge & understanding (A1-A5), Intellectual (B1-B4) & some general skills (D1 & D2).	10%	By the end of the semester	Final oral examination	
Knowledge & understanding (A1-A5) and Intellectual (B1-B4).	35%	By the end of the semester	Final written examination	

6-List of Reference

A-Course Notes





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-Department course notes (Lectures and practical)	
- Department notes	
	B- Essential books
Forensic Pathology (2001): DiMaio. V. & DiMaio D. Second edition. CRC Press London, New York.	C-
Color Atlas of Forensic Pathology (2000): Dix. J. CRC Press London, New York.	Recomme nded
Goldfrank's Toxicological Emergencies (2007): Hoffman, R. & Nelson, L. (Eds.). McGraw-Hill, New York.	Books
Haddad and Winchester's Clinical Management of Poisoning and Drug Overdose (2007): Shannon, M.; Borron, S. W.; Burns, M. (Eds.). Saunders Elsevier	
> www.medicaleducationonline.org.	D-
> www.nejm.com	Periodical s, web
> www.zenosforensicsite.com	sites of
> www.pathmax.com	forensic medicine

منسق المقرر رئيس القسم د. ام كلثوم محمود ابو زيد د. ام كلثوم محمود ابو زيد د. سميرة محمد صالح





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Elsevier	D-	
www.medicaleducationonline.org.	Periodical	
www.nejm.com	s, web	
www.zenosforensicsite.com	sites of	
> WWW.Zeriosiorerieiseiteiseit	forensic	
www.pathmax.com	medicine	

رئيس القسم

منسق المقرر

د سميرة محمد صالح

د.ام کلثوم محمود ابو زید

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Course ILOs	Program's ILOs	NARS
Knowledge and Understanding		Knowledge and Understanding
legal points of view	the life cycle including the diagnosis of death and how these affect normal structure and function (including effect of	2. 1. Normal Human Body: c. Main developmental changes in humans and the effect of growth, development and aging on the individual and his family.
A8-Discuss the effects of different injuries on the structure and function of the human body	A.8- Mention the various causes (genetic, developmental,	function of the body and its

	metabolic, toxic, microbiologic,	it in clinical conditions.
	autoimmune, neoplastic,	
	degenerative, and t raumatic)	
	and mechanisms of diseases and	
	the ways in which they operate	
	on the body (pathogenesis)	
A1-Identify the role of civil and	A.1- Mention principles of	2.6. Basics of ethics, medico
criminal laws in medical	medical ethics	legal aspects of health problems, malpractice and
practice.		common medical errors.
A4-Discuss elements of	A.4- Develop the capacity to	2.6. Basics of ethics, medico
medical malpractice.	recognize common medical	legal aspects of health problems, malpractice and

	errors and malpractice	common medical errors.
B1-Evaluate cases of medical malpractice.	A18 – State how population- based approaches to health care services can improve medical practice and understand the principles of clinical audit.	2.8. Principles of clinical audit.
Professional Attitude and Behavioral Skills:	Professional attitude:	Professional Attitude and Behavioral Skills:
D1-Value the interests and dignity of patients and families.	D.10- Demonstrate compassionate treatment of patients and respect for their privacy and dignity and beliefs especially in situations of stress	4.1. Adopt an empathic and holistic approach to the patients and their problems.

	and grief and ensure confidentiality of patients' information	
C15-Communicate clearly, sensitively and effectively with patients and their care givers, regardless of their social, cultural or ethnic background	D.1- Communicate effectively with patients, their families and the community through verbal, written and other non-verbal means of communication, respecting the differences in beliefs and backgrounds among patients and students	4.3. Understand and respect the different cultural beliefs and values in the community they serve.

C15-Communicate clearly,	D.4- Gather information and	4.9. Treat all patients equally,
sensitively and effectively with	develop and interpret a treatment	and avoid stigmatizing any category regardless of
patients and their care givers,	plan, while considering the	believes, culture, and
regardless of their social,	influence of factors such as the	behaviors.
cultural or ethnic background	patient's age, gender, ethnicity,	
	cultural and spiritual values,	
	socioeconomic background,	
	ethical conditions, and	
	communication challenges.	
D3-Respect superiors,	D.5- Communicate in a	4.10. Demonstrate respect and
colleagues and any other	cooperative manner with health	work cooperatively with other health care professions for
members of the health	professionals for effective	effective patient management.
	patients management and be	

	aware of and understand the	
	national code of ethics	
	D.7- Work efficiently through	
	systems, collaborate with other	
	members of the health care team,	
	and accept appropriate	
	responsibility for the health of	
	populations as an effective team	
	leader.	
Communication skills:	Communication skills:	Communication skills:
D2-Communicate in difficult	D.10- Demonstrate	5.3. Cope with situations where communication is
situations including breaking	compassionate treatment of	difficult including breaking bad news.

bad news.	patients and respect for their	
	privacy and dignity and beliefs	
	especially in situations of stress	
	and grief and ensure	
	confidentiality of patients'	
	information.	
D1-Value the interests and	D.10- Demonstrate	5.4. Show compassion to the patients and their relatives in
dignity of patients and families.	compassionate treatment of	situations of
	patients and respect for their	stress and grief.
	privacy and dignity and beliefs	
	especially in situations of stress	
	and grief and ensure	

	confidentiality of patients'	
	information.	
D3-Respect superiors,	D.1- Communicate effectively	5.5. Honor and respect patients and their relatives,
colleagues and any other	with patients, their families and	superiors, colleagues and any
members of the health	the community through verbal,	other member of the health profession.
Profession	written and other non-verbal	
Tiologolon	means of communication,	
	respecting the differences in	
	beliefs and backgrounds among	
	patients and students	
	D.2- Establish professional	
	relationships with patients, their	

ty that are characterized
derstanding (different
believes and values),
espect, empathy and
iality.
ectual skills B- Intellectual skills
eason deductively in 6.2. Reason deductively
clinical problems in solving clinical
e, define and prioritize problems:
; analyze, interpret, a. Recognize, define and
ly evaluate and prioritize problems.
information, and evaluate information objectively,
t 1

	recognizing its limitations)	recognizing its limitations.
B6-Interpret the clinical data	B.9- Retrieve, analyzes, and	6.3.Use personal judgment for
collected from an intoxicated	synthesizes, in simple examples,	analytical and critical problem solving and seek out
patient including history,	relevant and current data and	information.
general examination and	literature, using information	
investigations and reach a	technologies and library	
provisional diagnosis	resources, in order to solve a	
	clinical problem (EBM)	
B2-Correlate the data collected	B.3- Integrate the results of	6.4. Integrate the results of
from a living or dead body with		history, physical and
	test findings into a meaningful	laboratory test findings into a
or sex.	diagnostic formulation and set up	meaningful diagnostic
	differential diagnosis	formulation.
General and Transferable	General and transferable	General and Transferable

Skills:	skills:	Skills:
D7-Be prepared for the lifelong	D.14- Recognize and accept the	7.1.Be prepared for the
learning needs of the medical	limitations in his/her knowledge	lifelong learning needs of the medical profession.
profession.	and clinical skills and refers	
	patients at to appropriate health	
	facility at an appropriate stage,	
	and demonstrate a commitment	
	to continuously improve his/her	
	knowledge, ability and skills and	
	leadership, always striving for	
	excellence.(Adopt the principles	
	of lifelong learning).	
D4-Gather, organize and	D.15- Use computers	7.2.Use information and
appraise the medical	efficiently. Analyze and use	communication technology

information including the use	numerical data including the use	
Of information technology	of simple statistical methods.	medical practice.
where applicable.		
D5-Present medical	D.12- Present information	7.4. Present information
information in written, oral or	clearly in written, electronic and	clearly in written, electronic
electronic forms.	oral forms, and communicates	and oral forms. Communicate
	ideas and arguments effectively	ideas and arguments
		effectively.
D6-Communicate ideas and		7.5. Communicate ideas and
arguments effectively.		arguments effectively.
D8-Work constructively and	D.7- Work efficiently through	7.6. Work effectively within a
cooperatively within a team.	systems, collaborate with other	team.
	members of the health care team,	
	and accept appropriate	
	responsibility for the health of	
	populations as an effective team	•

	leader.	
House Officers should be able to:	House Officers should be able to:	House Officers should be able to:
D9-Manage time effectively.	D.16- Effectively manages time and resources and set priorities and ensures cost effectiveness of the management	7.9. Effectively manage time and resources and set priorities.
D6-Communicate ideas and arguments effectively.	D.7- Work efficiently through systems, collaborate with other members of the health care team, and accept appropriate responsibility for the health of populations as an effective team	7.10. Work efficiently within the health care team and as an effective team leader.

	leader.	
D3-Respect superiors,	D.18 Notify/report about any	7.11. Solve problems related
colleagues and any other	undecoming and mesponsible	to patients, work management, and among colleagues.
members of the health	behaviors or physical or mental	and among coneagues.
Profession.	problems related to himself,	
	colleagues or anyone else that	
	could endanger the safety of the	
	patient	
D2-Communicate in difficult situations including breaking bad news.	D.13- Be reliable and responsible in fulfilling obligations and cope with changing work environment	7.12. Cope with a changing work environment.

TOPIC	ILOS
Identification(Bones)	A1-Identify the role of civil and criminal laws in medical practice
Identification	A5-Discuss main points of personal identification in living and
(x-rays)	dead and the important ages of medico-legal importance
	B2-Correlate the data collected from a living or dead body with his personal identification, age or sex.
	B5-Solve problems dealing with different forensic cases.
	C2-Identify and comment on individual's age from a radiological specimen.
	C12-Communicate clearly, sensitively and effectively with patients and their care givers, regardless of their social, cultural or ethnic background.
	D2-Communicate in difficult situations including breaking bad news.
	D3-Respect superiors, colleagues and any other members of the health
	Profession.
	D4-Gather, organize and appraise the medical information including the use Of information technology where applicable.
Examination of blood stains	A8-Discuss the effects of different injuries on the structure and function of the
	B2-Correlate the data collected from a living or dead body with his personal identification, age or sex.
	B5-Solve problems dealing with different forensic cases.
	C12-Communicate clearly, sensitively and effectively with patients and their care givers, regardless of their social, cultural or ethnic background
	D2-Communicate in difficult situations including breaking bad news.
	D3-Respect superiors, colleagues and any other members of the

	health
	Profession.
	D4-Gather, organize and appraise the medical information including the use
Death and post- mortem changes	A6-Identify proper diagnosis of death from the medical and legal points of
	view.
	A7-Describe post mortem changes.
	B3-Correlate post-mortem changes with the time passed since death
	B5-Solve problems dealing with different forensic cases.
	C4-Write medico-legal reports and death certificates that fulfill the whole
	medico-legal requirements.
	C12-Communicate clearly, sensitively and effectively with patients and their care givers, regardless of their social, cultural or ethnic background.
	D2-Communicate in difficult situations including breaking bad news.
	D3-Respect superiors, colleagues and any other members of the health
	Profession.
	D4-Gather, organize and appraise the medical information including the use
	Of information technology where applicable.
General wounds and medical reports and Injuries to special organs	A8-Discuss the effects of different injuries on the structure and function of the
	B4-Interpret different findings in different injuries to detect suspected criminal cases.
	diagnosis.
	B5-Solve problems dealing with different forensic cases.
	C3-Identify and write a comment on different injuries.

	C12-Communicate clearly, sensitively and effectively with patients and their care givers, regardless of their social, cultural or ethnic background.
	D2-Communicate in difficult situations including breaking bad news.
	D3-Respect superiors, colleagues and any other members of the health
	Profession.
	D4-Gather, organize and appraise the medical information including the use
Firearm weapons	
and Firearm wounds	A9-Describe methods of preservation of evidences of significance for legal
	procedures.
	- B4-Interpret different findings in different injuries to detect suspected criminal cases.
	diagnosis.
	B5-Solve problems dealing with different forensic casesD2-D3- D4
	C12-Communicate clearly, sensitively and effectively with patients and their care givers, regardless of their social, cultural or ethnic background
	D2-Communicate in difficult situations including breaking bad news.
	D3-Respect superiors, colleagues and any other members of the health
	Profession.
	D4-Gather, organize and appraise the medical information including the use
Physical Injuries	A8-Discuss the effects of different injuries on the structure and function of the
	human body.
	B4-Interpret different findings in different injuries to detect suspected criminal cases.

	area carea
	diagnosis.
	B5-Solve problems dealing with different forensic cases.
	C3-Identify and write a comment on different injuries.
	C12-Communicate clearly, sensitively and effectively with patients and their care givers, regardless of their social, cultural or ethnic background
	D2-Communicate in difficult situations including breaking bad news.
	D3-Respect superiors, colleagues and any other members of the health
	Profession.
	D4-Gather, organize and appraise the medical information including the use
Violent Asphyxia	A8-Discuss the effects of different injuries on the structure and function of the
	human body.
	B4-Interpret different findings in different injuries to detect suspected criminal cases.
	diagnosis.
	B5-Solve problems dealing with different forensic cases.
	C3-Identify and write a comment on different injuries.
	C12-Communicate clearly, sensitively and effectively with patients and their care givers, regardless of their social, cultural or ethnic background
	D2-Communicate in difficult situations including breaking bad news.
	D3-Respect superiors, colleagues and any other members of the health
	Profession.
	D4-Gather, organize and appraise the medical information including the use
Medicolegal Aspects of Pregnancy, Delivery, and	A9-Describe methods of preservation of evidences of significance for legal

Abortion	procedures.
	B5-Solve problems dealing with different forensic cases.
	C12-Communicate clearly, sensitively and effectively with patients and their care givers, regardless of their social, cultural or ethnic background
	D2-Communicate in difficult situations including breaking bad news.
	D3-Respect superiors, colleagues and any other members of the health
	Profession.
	D4-Gather, organize and appraise the medical information including the use
Infanticide	A9-Describe methods of preservation of evidences of significance for legal
	procedures.
	B5-Solve problems dealing with different forensic cases.
	C12-Communicate clearly, sensitively and effectively with patients and their care givers, regardless of their social, cultural or ethnic background
	D2-Communicate in difficult situations including breaking bad news.
	D3-Respect superiors, colleagues and any other members of the health
	Profession.
	D4-Gather, organize and appraise the medical information including the use
Sexual Offenses	A9- B5-Solve problems dealing with different forensic cases
	B5-Solve problems dealing with different forensic cases.
	C12-Communicate clearly, sensitively and effectively with patients and their care givers, regardless of their social, cultural or ethnic background
	- D2-Communicate in difficult situations including breaking bad news.
	D3-Respect superiors, colleagues and any other members of the health

	Profession.
	D4-Gather, organize and appraise the medical information including the use
Child Abuse	A9- B5-Solve problems dealing with different forensic cases
	B5-Solve problems dealing with different forensic cases.
	C12-Communicate clearly, sensitively and effectively with patients and their care givers, regardless of their social, cultural or ethnic background
	D1-Value the interests and dignity of patients and families.
	D2-Communicate in difficult situations including breaking bad news.
	D3-Respect superiors, colleagues and any other members of the health
	Profession.
	D4-Gather, organize and appraise the medical information including the use
Medical Ethics	A2-Define the basics of medico-legal aspects of hospital and general practice.
	A3-Describe items of human rights charter.
	A4-Discuss elements of medical malpractice
	B1-Evaluate cases of medical malpractice
	C1-Criticize and report medical malpractice cases.
	C12-Communicate clearly, sensitively and effectively with patients and their care givers, regardless of their social, cultural or ethnic background
	D1-Value the interests and dignity of patients and families.
	D2-Communicate in difficult situations including breaking bad news.
	D3-Respect superiors, colleagues and any other members of the health
	Profession.