



Course Specification of Clinical Toxicology

كود المقرر: FMT2

القسم: السموم الاكلينيكيه

رئيس القسم

ا.د. سميرة محمد صالح

د. سميرة محمد صالح

منسق المقرر

د. ام كلثوم محمود ابو زيد

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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: Clinical Toxicology •

Date of specification approval:3\2010 •

Date of modification:11 | 2018 •

Academic year \level :4th year (8th semester) •

A-Basic information:

Forensic medicine code:FMT2

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

B-PROFESSIONAL INFORMATION:

1-Overall aims	
<p>To understand the essential topics of clinical toxicology including:</p> <ul style="list-style-type: none"> ➤ Aim 1: Understanding of etiology, pathogenesis, clinical features and complications of common acute life threatening intoxications. Aim 2: Essential skills in diagnosis and management plan for common acute poisoning cases. ➤ Aim 3: to demonstrate Ethical rules in relationships with patients, colleagues and medical profession. 	:
2-Intended Learning Outcomes	
<p>By the end of the course, students should be able to:</p> <p>A1-Explain etiology and pathogenesis of different intoxications. A2-Describe the clinical picture of different cases of intoxications including acute life threatening intoxications and different possible complications . A3-List the essential investigations needed for an intoxicated case.</p>	<p>A-Knowledge and Understanding</p>

<p>A4-Discuss different lines of management for intoxicated cases including acute life threatening intoxications and different possible complications.</p> <p>A5-Describe the different prevention strategies to minimize the susceptibility of occurrence of poisoning.</p>	
<p>By the end of the course, students should be able to:</p> <p>B1-Evaluate cases of medical malpractice.</p> <p>B2-Correlate the data collected from a living or dead body with his personal identification, age or sex.</p> <p>B3-Select appropriate investigations for common intoxications and interpret results.</p> <p>B4-Interpret the clinical data collected from an intoxicated patient including history, general examination and investigations and reach a provisional diagnosis.</p> <p>B5-Solve problems dealing with different toxicological cases.</p> <p>B6-Design a management plans for intoxicated cases.</p> <p>B7-Design the initial course of management to stabilize cases of acute life threatening intoxications.</p>	<p>-(B) Intellectual Skills</p>
<p>By the end of the course, students should be able to:</p> <p>C1-Criticize and report medical malpractice cases.</p> <p>C2-Identify and comment on individual's age from a radiological specimen.</p> <p>C3-Obtain and record medical history of intoxicated cases .</p> <p>C4-Perfom general and special clinical examination of intoxicated cases and detect emergency life threatening conditions.</p> <p>C5-Identify pathologic findings in different images, ECG, ABG and laboratory test results.</p> <p>C6-Practice Basics of health and patient's safety and safety procedures.</p> <p>C7- Perform Cardiopulmonary resuscitation on a model .</p> <p>C8-Perform endotracheal intubation on a model.</p> <p>C9-Perform gastric lavage on a model.</p> <p>C10-Test for the presence of toxins in urine.</p> <p>C11-Identify toxin elimination substances and mention their indications, contraindications and route of administration .</p> <p>C12-Identify and write a comment on different toxicological plants.</p> <p>C13-Communicate clearly, sensitively and effectively with patients and their care givers, regardless of their social, cultural or ethnic background.</p>	<p>-(C) Practical and Professional Skills</p>
<p>By the end of the course, students should be able to:</p> <p>D1-Value the interests and dignity of patients and families.</p> <p>D2-Communicate in difficult situations including breaking bad news.</p> <p>D3-Respect superiors, colleagues and any other members of the health Profession.</p> <p>D4-Gather, organize and appraise the medical information including the use Of information technology where applicable.</p> <p>D5-Present medical information in written, oral or electronic forms.</p> <p>D6-Communicate ideas and arguments effectively</p> <p>D7-Be prepared for the lifelong learning needs of the medical profession.</p>	<p>-(D) General Skills</p>

D8-**Work** constructively and cooperatively within a team.
D9-**Manage** time effectively.

		Clinical toxicology:	Lecture	Practical	3-Course Content
		<i>General Toxicology</i>	2	2	
		<i>General Toxicology</i>	2	2	
		<i>Plant alkaloids poisons</i>	2	2	
		<i>Corrosives</i>	2	2	
		<i>Volatile poisons</i>	2	2	
		<i>Gaseous poisons</i>	2	2	
		<i>Heavy metals poisons</i>	2	2	
		<i>Pesticides poisoning</i>	2	2	
		<i>CNS depressant</i>	2	2	
		<i>Drug dependence</i>	2	2	
		<i>Animal poisons</i>	2	2	
		<i>Food poisoning</i>	2	2	
		Total:	24	24	
<p>5.1- Lectures: using slides and data show apparatus. 5.2- Discussion sessions. 5.3- MCQs (formative assessment). 5.4- Assignment and medicolegal reports. 5.5-Appropriate teaching accommodation, including museums, laboratory equipment (e.g. microscopes),teaching aids(photographs, X-rays, jars contain soft tissues</p>					4-Teaching and Learning Methods

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)	Weight	Time Schedule	Tools -	Tools
Knowledge & understanding (A1-A5) and Intellectual (B1-B4).	24.5%	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).	35.5%	By the end of the semester	Final written examination	

6-List of Reference

A-Course Notes	(Department course notes (Lectures and practical
B-Essential books	Department notes
C-Recommended Books	<ul style="list-style-type: none"> <input type="checkbox"/> 1.Forensic Pathology (2001): DiMaio. V. & DiMaio D. .Second edition. CRC Press London, New York <input type="checkbox"/> 2.Color Atlas of Forensic Pathology (2000): Dix. J. CRC Press .London, New York 3.Goldfrank's Toxicological Emergencies (2007): Hoffman, R. .& Nelson, L. (Eds.). McGraw-Hill, New York 4.Haddad and Winchester's Clinical Management of Poisoning and Drug Overdose (2007): Shannon, M.; Borron, S. W.; Burns, M. (Eds.). Saunders Elsevier

D-Periodicals, web
sites of forensic
medicine

1. www.medicaleducationonline.org
2. www.nejm.com
3. www.zenosforensicsite.com
4. www.pathmax.com

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منسق المقرر

ا.د. سميرة محمد صالح

د. ام كلثوم محمود ابو زيد



South Valley University
Qena Faculty of Medicine

Department of forensic medicine and clinical toxicology

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D-Periodicals, web sites of forensic medicine	<ul style="list-style-type: none">1.www.medicaleducationonline.org2.www.nejm.com3.www.zenosforensicsite.com4.www.pathmax.com

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TOPIC	COURSE ILOS
<p>1. General toxicology</p>	<p>A-Knowledge:</p> <p>A1-Explain etiology and pathogenesis of different intoxications.</p> <p>A2-Describe the clinical picture of different cases of intoxications including acute life threatening intoxications and different possible complications.</p> <p>A3-List the essential investigations needed for an intoxicated case.</p> <p>B-Intellectual Skills:</p> <p>B3-Select appropriate investigations for common intoxications and interpret results.</p> <p>B4-Interpret the clinical data collected from an intoxicated patient including history, general examination and investigations and reach a provisional diagnosis.</p> <p>B5-Solve problems dealing with different toxicological cases.</p> <p>C-Practical and Professional Skills:</p> <p>C6-Perform general and special clinical examination of intoxicated cases and detect emergency life threatening conditions.</p> <p>C7-Identify pathologic findings in different</p>

	<p>images, ECG, ABG and laboratory test results.</p> <p>C8-Practice Basics of health and patient's safety and safety procedures</p> <p>D-General Skills:</p> <p>D1-Value the interests and dignity of patients and families</p> <p>D7-Be prepared for the lifelong learning needs of the medical profession.</p> <p>D8-Work constructively and cooperatively within a team.</p>
<p>2. General toxicology</p>	<p>Knowledge:</p> <p>A4-Discuss different lines of management for intoxicated cases including acute life threatening intoxications and different possible complications.</p> <p>A5-Describe the different prevention strategies to minimize the susceptibility of occurrence of poisoning.</p> <p>Intellectual Skills:</p> <p>B6-Design a management plans for intoxicated cases.</p> <p>B7-Design the initial course of management to stabilize cases of acute life threatening intoxications.</p>

	<p>Practical and Professional Skills:</p> <p>C12-Test for the presence of toxins in urine.</p> <p>C13-Identify toxin elimination substances and mention their indications, contraindications and route of administration</p> <p>C15-Communicate clearly, sensitively and effectively with patients and their care givers, regardless of their social, cultural or ethnic background</p> <p>General Skills:</p> <p>D1-Value the interests and dignity of patients and families</p> <p>D7-Be prepared for the lifelong learning needs of the medical profession.</p> <p>D8-Work constructively and cooperatively within a team.</p>
<p>3. Plant alkaloids poisons</p>	<p>Knowledge:</p> <p>A1-Explain etiology and pathogenesis of different intoxications.</p> <p>A2-Describe the clinical picture of different cases of intoxications including acute life threatening intoxications and different possible complications.</p> <p>A3-List the essential investigations</p>

needed for an intoxicated case.

A4-Discuss different lines of management for intoxicated cases including acute life threatening intoxications and different possible complications.

A5-Describe the different prevention strategies to minimize the susceptibility of occurrence of poisoning.

Intellectual Skills:

B3-Select appropriate investigations for common intoxications and interpret results.

B4-Interpret the clinical data collected from an intoxicated patient including history, general examination and investigations and reach a provisional diagnosis.

B5-Solve problems dealing with different toxicological cases.

B6-Design a management plans for intoxicated cases.

B7-Design the initial course of management to stabilize cases of acute life threatening intoxications.

Practical and Professional Skills:

C6-Perform general and special clinical examination of intoxicated cases and detect emergency life threatening conditions.

	<p>C7-Identify pathologic findings in different images, ECG, ABG and laboratory test results.</p> <p>C8-Practice Basics of health and patient's safety and safety procedures</p> <p>C12-Test for the presence of toxins in urine.</p> <p>C13-Identify toxin elimination substances and mention their indications, contraindications and route of administration</p> <p>C14-Identify and write a comment on different toxicological plants</p> <p>C15-Communicate clearly, sensitively and effectively with patients and their care givers, regardless of their social, cultural or ethnic background</p> <p>General Skills:</p> <p>D1-Value the interests and dignity of patients and families</p> <p>D7-Be prepared for the lifelong learning needs of the medical profession.</p> <p>D8-Work constructively and cooperatively within a team.</p>
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<p>4. Corrosives</p>	<p>Knowledge:</p> <p>A1-Explain etiology and pathogenesis of different intoxications.</p> <p>A2-Describe the clinical picture of different cases of intoxications including acute life threatening intoxications and different possible complications.</p> <p>A3-List the essential investigations needed for an intoxicated case.</p> <p>A4-Discuss different lines of management for intoxicated cases including acute life threatening intoxications and different possible complications.</p> <p>A5-Describe the different prevention strategies to minimize the susceptibility of occurrence of poisoning.</p> <p>Intellectual Skills:</p> <p>B3-Select appropriate investigations for common intoxications and interpret results.</p> <p>B4-Interpret the clinical data collected from an intoxicated patient including history, general examination and investigations and reach a provisional diagnosis.</p> <p>B5-Solve problems dealing with different toxicological cases.</p> <p>B6-Design a management plans for intoxicated cases.</p> <p>B7-Design the initial course of</p>
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management to stabilize cases of acute life threatening intoxications.

Practical and Professional Skills:

C4-Perform general and special clinical examination of intoxicated cases and detect emergency life threatening conditions.

C5-Identify pathologic findings in different images, ECG, ABG and laboratory test results.

C6-Practice Basics of health and patient's safety and safety procedures

C10-Test for the presence of toxins in urine.

C11-Identify toxin elimination substances and mention their indications, contraindications and route of administration

C12-Communicate clearly, sensitively and effectively with patients and their care givers, regardless of their social, cultural or ethnic background

General Skills:

D1-Value the interests and dignity of patients and families

D7-Be prepared for the lifelong learning needs of the medical profession.

D8-Work constructively and cooperatively within a team.

5. Volatile poisons	<p>Knowledge:</p> <p>A1-Explain etiology and pathogenesis of different intoxications.</p> <p>A2-Describe the clinical picture of different cases of intoxications including acute life threatening intoxications and different possible complications.</p> <p>A3-List the essential investigations needed for an intoxicated case.</p> <p>A4-Discuss different lines of management for intoxicated cases including acute life threatening intoxications and different possible complications.</p> <p>A5-Describe the different prevention strategies to minimize the susceptibility of occurrence of poisoning.</p> <p>Intellectual Skills:</p> <p>B3-Select appropriate investigations for common intoxications and interpret results.</p> <p>B4-Interpret the clinical data collected from an intoxicated patient including history, general examination and investigations and reach a provisional diagnosis.</p>

	<p>B5-Solve problems dealing with different toxicological cases.</p> <p>B6-Design a management plans for intoxicated cases.</p> <p>B7-Design the initial course of management to stabilize cases of acute life threatening intoxications.</p> <p>Practical and Professional Skills:</p> <p>C4-Perfom general and special clinical examination of intoxicated cases and detect emergency life threatening conditions.</p> <p>C5-Identify pathologic findings in different images, ECG, ABG and laboratory test results.</p> <p>C6-Practice Basics of health and patient's safety and safety procedures</p> <p>C10-Test for the presence of toxins in urine.</p> <p>C11-Identify toxin elimination substances and mention their indications, contraindications and route of administration</p> <p>C12-Communicate clearly, sensitively and effectively with patients and their care givers, regardless of their social, cultural or ethnic background</p> <p>General Skills:</p> <p>D1-Value the interests and dignity of</p>
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	<p>patients and families</p> <p>D7-Be prepared for the lifelong learning needs of the medical profession.</p> <p>D8-Work constructively and cooperatively within a team.</p>
6. Gaseous poisons	<p>Knowledge:</p> <p>A1-Explain etiology and pathogenesis of different intoxications.</p> <p>A2-Describe the clinical picture of different cases of intoxications including acute life threatening intoxications and different possible complications.</p> <p>A3-List the essential investigations needed for an intoxicated case.</p> <p>A4-Discuss different lines of management for intoxicated cases including acute life threatening intoxications and different possible complications.</p> <p>A5-Describe the different prevention strategies to minimize the susceptibility of occurrence of poisoning.</p> <p>Intellectual Skills:</p> <p>B3-Select appropriate investigations for common intoxications and interpret results.</p> <p>B4-Interpret the clinical data collected from an intoxicated patient including</p>

history, general examination and investigations and reach a provisional diagnosis.

B5-Solve problems dealing with different toxicological cases.

B6-Design a management plans for intoxicated cases.

B7-Design the initial course of management to stabilize cases of acute life threatening intoxications.

Practical and Professional Skills:

C4-Perform general and special clinical examination of intoxicated cases and detect emergency life threatening conditions.

C5-Identify pathologic findings in different images, ECG, ABG and laboratory test results.

C6-Practice Basics of health and patient's safety and safety procedures

C10-Test for the presence of toxins in urine.

C11-Identify toxin elimination substances and mention their indications, contraindications and route of administration

C12-Communicate clearly, sensitively and effectively with patients and their care givers, regardless of their social, cultural

	<p>or ethnic background</p> <p>General Skills:</p> <p>D1-Value the interests and dignity of patients and families</p> <p>D7-Be prepared for the lifelong learning needs of the medical profession.</p> <p>D8-Work constructively and cooperatively within a team.</p>
<p>7. Heavey metals poisons</p>	<p>Knowledge:</p> <p>A1-Explain etiology and pathogenesis of different intoxications.</p> <p>A2-Describe the clinical picture of different cases of intoxications including acute life threatening intoxications and different possible complications.</p> <p>A3-List the essential investigations needed for an intoxicated case.</p> <p>A4-Discuss different lines of management for intoxicated cases including acute life threatening intoxications and different possible complications.</p> <p>A5-Describe the different prevention strategies to minimize the susceptibility of occurrence of poisoning.</p> <p>Intellectual Skills:</p> <p>B3-Select appropriate investigations for</p>

common intoxications and interpret results.

B4-Interpret the clinical data collected from an intoxicated patient including history, general examination and investigations and reach a provisional diagnosis.

B5-Solve problems dealing with different toxicological cases.

B6-Design a management plans for intoxicated cases.

B7-Design the initial course of management to stabilize cases of acute life threatening intoxications.

Practical and Professional Skills:

C4-Perform general and special clinical examination of intoxicated cases and detect emergency life threatening conditions.

C5-Identify pathologic findings in different images, ECG, ABG and laboratory test results.

C6-Practice Basics of health and patient's safety and safety procedures

C10-Test for the presence of toxins in urine.

C11-Identify toxin elimination substances and mention their indications, contraindications and route of

	<p>administration</p> <p>C12-Communicate clearly, sensitively and effectively with patients and their care givers, regardless of their social, cultural or ethnic background</p> <p>General Skills:</p> <p>D1-Value the interests and dignity of patients and families</p> <p>D7-Be prepared for the lifelong learning needs of the medical profession.</p> <p>D8-Work constructively and cooperatively within a team.</p>
<p>8. Pesticides poisoning</p>	<p>Knowledge:</p> <p>A1-Explain etiology and pathogenesis of different intoxications.</p> <p>A2-Describe the clinical picture of different cases of intoxications including acute life threatening intoxications and different possible complications.</p> <p>A3-List the essential investigations needed for an intoxicated case.</p> <p>A4-Discuss different lines of management for intoxicated cases including acute life threatening intoxications and different possible complications.</p> <p>A5-Describe the different prevention strategies to minimize the susceptibility of</p>

occurrence of poisoning.

Intellectual Skills:

B3-Select appropriate investigations for common intoxications and interpret results.

B4-Interpret the clinical data collected from an intoxicated patient including history, general examination and investigations and reach a provisional diagnosis.

B5-Solve problems dealing with different toxicological cases.

B6-Design a management plans for intoxicated cases.

B7-Design the initial course of management to stabilize cases of acute life threatening intoxications.

Practical and Professional Skills:

C4-Perform general and special clinical examination of intoxicated cases and detect emergency life threatening conditions.

C5-Identify pathologic findings in different images, ECG, ABG and laboratory test results.

C6-Practice Basics of health and patient's safety and safety procedures

C10-Test for the presence of toxins in urine.

	<p>C11-Identify toxin elimination substances and mention their indications, contraindications and route of administration</p> <p>C12-Communicate clearly, sensitively and effectively with patients and their care givers, regardless of their social, cultural or ethnic background</p> <p>General Skills:</p> <p>D1-Value the interests and dignity of patients and families</p> <p>D7-Be prepared for the lifelong learning needs of the medical profession.</p> <p>D8-Work constructively and cooperatively within a team.</p>
<p>9. CNS depressant</p>	<p>Knowledge:</p> <p>A1-Explain etiology and pathogenesis of different intoxications.</p> <p>A2-Describe the clinical picture of different cases of intoxications including acute life threatening intoxications and different possible complications.</p> <p>A3-List the essential investigations needed for an intoxicated case.</p> <p>A4-Discuss different lines of management for intoxicated cases including acute life threatening intoxications and different</p>

possible complications.

A5-Describe the different prevention strategies to minimize the susceptibility of occurrence of poisoning.

Intellectual Skills:

B3-Select appropriate investigations for common intoxications and interpret results.

B4-Interpret the clinical data collected from an intoxicated patient including history, general examination and investigations and reach a provisional diagnosis.

B5-Solve problems dealing with different toxicological cases.

B6-Design a management plans for intoxicated cases.

B7-Design the initial course of management to stabilize cases of acute life threatening intoxications.

Practical and Professional Skills:

C3-Perform general and special clinical examination of intoxicated cases and detect emergency life threatening conditions.

C4-Identify pathologic findings in different images, ECG, ABG and laboratory test results.

C5-Practice Basics of health and patient's

	<p>safety and safety procedures</p> <p>C6-Test for the presence of toxins in urine.</p> <p>C11-Identify toxin elimination substances and mention their indications, contraindications and route of administration</p> <p>C12-Communicate clearly, sensitively and effectively with patients and their care givers, regardless of their social, cultural or ethnic background</p> <p>General Skills:</p> <p>D1-Value the interests and dignity of patients and families</p> <p>D7-Be prepared for the lifelong learning needs of the medical profession.</p> <p>D8-Work constructively and cooperatively within a team.</p>
<p>10. Drug dependence</p>	<p>Knowledge:</p> <p>A1-Explain etiology and pathogenesis of different intoxications.</p> <p>A2-Describe the clinical picture of different cases of intoxications including acute life threatening intoxications and different possible complications.</p> <p>A3-List the essential investigations</p>

needed for an intoxicated case.

A4-Discuss different lines of management for intoxicated cases including acute life threatening intoxications and different possible complications.

A5-Describe the different prevention strategies to minimize the susceptibility of occurrence of poisoning.

Intellectual Skills:

B3-Select appropriate investigations for common intoxications and interpret results.

B4-Interpret the clinical data collected from an intoxicated patient including history, general examination and investigations and reach a provisional diagnosis.

B5-Solve problems dealing with different toxicological cases.

B6-Design a management plans for intoxicated cases.

B7-Design the initial course of management to stabilize cases of acute life threatening intoxications.

Practical and Professional Skills:

C4-Perform general and special clinical examination of intoxicated cases and detect emergency life threatening conditions.

	<p>C5-Identify pathologic findings in different images, ECG, ABG and laboratory test results.</p> <p>C6-Practice Basics of health and patient's safety and safety procedures</p> <p>C10-Test for the presence of toxins in urine.</p> <p>C11-Identify toxin elimination substances and mention their indications, contraindications and route of administration</p> <p>C12-Communicate clearly, sensitively and effectively with patients and their care givers, regardless of their social, cultural or ethnic background</p> <p>General Skills:</p> <p>D1-Value the interests and dignity of patients and families</p> <p>D7-Be prepared for the lifelong learning needs of the medical profession.</p> <p>D8-Work constructively and cooperatively within a team.</p>
<p>11. Animal poisons</p>	<p>A-Knowledge:</p> <p>A1-Explain etiology and pathogenesis of different intoxications.</p> <p>A2-Describe the clinical picture of</p>

different cases of intoxications including acute life threatening intoxications and different possible complications.

A3-List the essential investigations needed for an intoxicated case.

A4-Discuss different lines of management for intoxicated cases including acute life threatening intoxications and different possible complications.

A5-Describe the different prevention strategies to minimize the susceptibility of occurrence of poisoning.

B-Intellectual Skills:

B3-Select appropriate investigations for common intoxications and interpret results.

B4-Interpret the clinical data collected from an intoxicated patient including history, general examination and investigations and reach a provisional diagnosis.

B5-Solve problems dealing with different toxicological cases.

B6-Design a management plans for intoxicated cases.

B7-Design the initial course of management to stabilize cases of acute life threatening intoxications.

C-Practical and Professional Skills:

C4-Perfom general and special clinical

	<p>examination of intoxicated cases and detect emergency life threatening conditions.</p> <p>C5-Identify pathologic findings in different images, ECG, ABG and laboratory test results.</p> <p>C6-Practice Basics of health and patient's safety and safety procedures</p> <p>C10-Test for the presence of toxins in urine.</p> <p>C11-Identify toxin elimination substances and mention their indications, contraindications and route of administration</p> <p>C12-Communicate clearly, sensitively and effectively with patients and their care givers, regardless of their social, cultural or ethnic background</p> <p>D-General Skills:</p> <p>D1-Value the interests and dignity of patients and families</p> <p>D7-Be prepared for the lifelong learning needs of the medical profession.</p> <p>D8-Work constructively and cooperatively within a team.</p>
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12.Food poisoning	A-Knowledge: A1-Explain etiology and pathogenesis of different intoxications. A2-Describe the clinical picture of different cases of intoxications including acute life threatening intoxications and different possible complications. A3-List the essential investigations needed for an intoxicated case. A4-Discuss different lines of management for intoxicated cases including acute life threatening intoxications and different possible complications. A5-Describe the different prevention strategies to minimize the susceptibility of occurrence of poisoning. B-Intellectual Skills: B3-Select appropriate investigations for common intoxications and interpret results. B4-Interpret the clinical data collected from an intoxicated patient including history, general examination and investigations and reach a provisional diagnosis. B5-Solve problems dealing with different toxicological cases. B6-Design a management plans for intoxicated cases. B7-Design the initial course of
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management to stabilize cases of acute life threatening intoxications.

C-Practical and Professional Skills:

C4-Perform general and special clinical examination of intoxicated cases and detect emergency life threatening conditions.

C5-Identify pathologic findings in different images, ECG, ABG and laboratory test results.

C6-Practice Basics of health and patient's safety and safety procedures

C10-Test for the presence of toxins in urine.

C11-Identify toxin elimination substances and mention their indications, contraindications and route of administration

C12-Communicate clearly, sensitively and effectively with patients and their care givers, regardless of their social, cultural or ethnic background

D-General Skills:

D1-Value the interests and dignity of patients and families

D7-Be prepared for the lifelong learning needs of the medical profession.

D8-Work constructively and cooperatively within a team.

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TOTAL

Course ILOs	Program's ILOs	NARS
Knowledge and Understanding	Knowledge& Understanding	Knowledge and Understanding
A1-Explain etiology and pathogenesis of different intoxications.	A.11-Describe the etiology, pathogenesis, clinical features, complications, principles of diagnosis and deferential diagnosis of common and life-threatening illnesses affecting the body and each of its major organ systems, presenting throughout the age spectrum.	2. 3.Etiology, pathogenesis, clinical features, diagnoses and complications of common and life-threatening illnesses affecting the body and each of its major organ systems, presenting throughout the age spectrum.

A4-Discuss different lines of management for intoxicated cases including acute life threatening intoxications and different possible complications.	A.10- Define principles of pharmacological and non-pharmacological therapies, their efficacy in the management and symptomatic relief of diseases, and their adverse reactions and interactions	2. 4.Principles of management of common and life threatening illnesses including: a. Pharmacological and non pharmacological basics of therapy. b.Non invasive and invasive intervention. c. Basic pre- and post operative care. d. Pain relief and palliative care.
Practical and Clinical Skills	Practical and Clinical Skills	Practical and Clinical Skills

<p>C3-Obtain and record medical history of intoxicated cases.</p>	<p>C.5- Obtain an accurate medical history that covers all essential aspects of the history, including issues related to age, gender, and socio-economic status.</p>	<p>3.2.Take and record a structured, patient centered history.</p>
<p>C4-Perform general and special clinical examination of intoxicated cases and detect emergency life threatening conditions</p>	<p>C.4- Examine and identify macroscopically, microscopically and chemically various causes (genetic, developmental, metabolic, toxic, microbiologic, autoimmune, neoplastic, degenerative, and traumatic) of diseases</p>	<p>3.3.Perform full physical examination of patients with acute and chronic clinical conditions appropriate to the age, gender, acute and chronic clinical conditions while being culturally sensitive.</p>
<p>C11-Identify toxin elimination substances and mention their indications, contraindications and route of administration</p>	<p>C.9- Write safe prescriptions of different types of drugs and work out drug dosage based on patient age, weight and health state.</p>	<p>3.7.Write safe prescriptions of different types of drugs based on patient's weight, age and health condition.</p>

Professional Attitude and Behavioral Skills	Professional Attitude and Behavioral Skills:	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 and grief and ensure confidentiality of patients' information	4.1. Adopt an empathic and holistic approach to the patients and their problems.
. C13-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.

D3-Respect superiors, colleagues and any other members of the health	D.5- Communicate in a cooperative manner with health professionals for effective patients management and be aware of and understand the national code of ethics	4.10. Demonstrate respect and work cooperatively with other health care professions for effective patient management.
D8-Work constructively and cooperatively within a	D.8- Participate in community activities directed at improving health, utilizing the best evidence,	4.11. Be willing to share in all types of inter-professional activities

team.	effective teamwork and communication skills	including collaborative and shared learning
D9-Manage time effectively	D.16- Effectively manages time and resources and set priorities and ensures cost effectiveness of the management.	4.12.Ensure the cost effectiveness of health care management.
D2-Communicate in difficult situations including breaking bad news.	D.18 Notify/report about any unbecoming and irresponsible behaviors or physical or mental problems related to himself, colleagues or anyone else that could endanger the safety of your patient.	4.13. Notify/report about any physical or mental conditions related to himself, colleagues or any other person that might jeopardize patients safety.
Intellectual skills	B- Intellectual skills	Intellectual Skills:
B5-Solve problems dealing with different forensic and toxicological cases.	B.2- Reason deductively in solving clinical problems (recognize, define and prioritize problems; analyze, interpret, objectively evaluate and prioritize information, and recognizing its limitations)	6.2. Reason deductively in solving clinical problems: a. Recognize, define and prioritize problems. b. Interpret, analyze, and evaluate information objectively, recognizing its limitations.
B4-Interpret the clinical data collected from an intoxicated patient including history, general examination and investigations and reach a provisional diagnosis	B.9- Retrieve, analyzes, and synthesizes, in simple examples, relevant and current data and literature, using information technologies and library resources, in order to solve a clinical problem (EBM)	6.3.Use personal judgment for analytical and critical problem solving and seek out information.
B2-Correlate the data collected from a living or dead body with his personal identification, age or sex.	B.3- Integrate the results of history, physical and laboratory test findings into a meaningful diagnostic formulation and set up differential diagnosis	6.4. Integrate the results of history, physical and laboratory test findings into a meaningful diagnostic formulation.
B7-Design the initial course of management to	C.10. Diagnose patients with immediately life threatening cardiac, pulmonary, or	6.6.Design an initial course of management for

stabilize cases of acute life threatening intoxications	neurological conditions regardless of etiology, and institute appropriate initial therapy	stabilization of patients with serious illnesses.
General and Transferable Skills	General and transferable skills	General and Transferable Skills:
D7-Be prepared for the lifelong learning needs of the medical profession	D.14- Recognize and accept the limitations in his/her knowledge 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).	7.1.Be prepared for the lifelong learning needs of the medical profession.
: D4-Gather, organize and appraise the medical information including the use Of information technology where applicable.	D.15- Use computers efficiently. Analyze and use numerical data including the use of simple statistical methods	7.2.Use information and communication technology effectively in the field of medical practice.
D5-Present medical information in written, oral or electronic forms	D.12- Present information clearly in written, electronic and oral forms, and communicates ideas and arguments effectively	7.4. Present information clearly in written, electronic and oral forms. Communicate ideas and arguments effectively.