



قسم الطب المهني والبيئي

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DEPARTMENT OF OCCUPATIONAL & ENVIRONMENTAL MEDICINE



كلية الطب - قصر العيني
جامعة القاهرة

Medical Doctorate Degree of Clinical Toxicology (2021-2022)

Course Name: Basic Toxicology (Compulsory) Lectures: CPs: 3 points		Course Code: OEM921-BTOX
Topics	Lecturers	Supervisors
1. The basic principles of toxicology <ul style="list-style-type: none">Biochemical and molecular basis in toxicologyToxicant analysis and quality assurance principlesBasic principles of toxicological investigation.Importance of dose and dose-response relationshipExtrapolation of animal test data to human exposure	د / إيمان محمود د / منى عبد الله د / بسمة حسين	أ.د / نبيل عبد المقصود
2. Toxicokinetic principles	د / نهال حلمي	أ.د / أبو بكر عباس
3. Metabolism and elimination of toxins	أ.د.م / ماري	أ.د / أبو بكر عباس
4. Risk assessment in practice setting due to toxicity	د / بسمة حسين	أ.د / نرمين حمدي

Lecturers will be every Sunday and Tuesday at the Department - Each Lecture will be 2 hours.
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Medical Doctorate Degree of Clinical Toxicology (2021-2022)

Course Name: Industrial Medicine (Compulsory)		Course Code: OEM921-CTOXa
Lectures: CPs: 5 points		
Topics	Lecturers	Supervisors
Pathophysiological basis of organ systems toxicity		
1. Thermoregulatory principles	د / نهال حلمي	أ.د / محمد البتانوني
2. Fluid, electrolyte, and acid-base principles	أ.د.م / غاده الشريف	أ.د / يحيى زكريا
3. Psychiatric principles	د / بسمه حسين	أ.د / محمد البتانوني
4. Neurologic principles	د / نهال حلمي	أ.د / ايناس جاب الله
5. Ophthalmic principles	د / نهال حلمي	أ.د / ايناس جاب الله
6. Otolaryngologic principles	د / عائشة أشرف	أ.د / محمد البتانوني
7. Dermatologic principles	د / رحاب شحاته	أ.د / محمود عمرو
8. Cardiovascular and hematologic principles	د / بسمه حسين	أ.د / محمود عمرو
9. Hepatic and renal principles	د / عائشة أشرف	أ.د / محمود عمرو
10. Reproductive and perinatal principles	د / بسمه حسين	أ.د / حسين ظايط أ.د / داليا إسماعيل
11. Principles of radiation toxicology	د / عائشة أشرف	أ.د / حسين ظايط
12. Endocrinal disruption	د / غادة الشريف	أ.د / محمد البتانوني
Toxic Properties and Effects of Organic Solvents		
13. Toxic properties of aliphatic and aromatic nitro compounds	د / منى عبد الله	أ.د / داليا إسماعيل أ.د / منال حسن
14. Toxic properties of nitrogen-substituted solvents	د / منى عبد الله	أ.د / منال حسن
15. Toxic properties of nitriles (alkyl cyanides)	د / منى عبد الله	أ.د / منال حسن
16. Toxic properties of sulfur-substituted solvents	د / منى عبد الله	أ.د / منال حسن
17. Simple asphyxiants and pulmonary irritants	أ.د.م / غاده الشريف	أ.د / حسين ظايط أ.د / يحيى زكريا
18. Carbon monoxide	د / إيمان محمود	أ.د يحيى زكريا

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Lectures: CPs: 5 points		
Topics	Lecturers	Supervisors
19. Hyperbaric oxygen	د / عائشة أشرف	أ.د / حسين ظايط
20. Cyanide and hydrogen sulfide	د / عائشة أشرف	أ.د / يحيى زكريا
21. Sodium thiosulfate	د / إيمان محمود	أ.د / نيفين منصور
22. Hydroxocobalamin	د / إيمان محمود	أ.د / نيفين منصور
23. Methemoglobin inducers	د / إيمان محمود	أ.د / نيفين منصور
24. Methylene blue	د / إيمان محمود	أ.د / نيفين منصور
25. Smoke inhalation	د / رحاب شحاته	أ.د / محمود عمرو
26. Biotechnology in drugs and pesticides manufacturing	د / رحاب شحاته	أ.د / عائشه سمير
27. Nanoparticles, nanotechnology, and nano-toxicology	د / منى عبد الله	أ.د / داليا إسماعيل
28. Molecular mechanism in mutagenesis and genetic toxicology	د / عائشة أشرف	أ.د / محمود عمرو
29. Risk assessment/analysis/evaluation as well as management in chemical industry, agriculture, ports and ferries, transportation, storage and others	د / عائشة أشرف	أ.د / محمد البتانوني أ.د / جهاد أبو العطا

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Course Name: Environmental Toxicology (Compulsory) Course Code: OEM921-CTOxb

Lectures: CPs: 5 points

Topics	Lecturers	Supervisors
1. Basics of environmental toxicology	د / نهال حلمي	أ.د / جهاد أبو العطا
2. Eco toxicology	د / منى عبد الله	أ.د / جهاد أبو العطا
3. Occupational and environmental health implications Innovative hazardous waste management	د / عائشة أشرف	أ.د / بهيره سعيد
4. Global environment adaptation and controls, emphasizing mitigation and rehabilitation issues	د / نهال حلمي	أ.د / جهاد أبو العطا
5. Global climatic changes and impacts on workers/people	د / رحاب شحاته	أ.د / جمال السمره
6. Aquatic environment deterioration and effects on health	د / نهال حلمي	أ.د / أمل السقطي
7. Occupational and environmental health implications Genetic modification of crops and food safety	د / بسمه حسين	أ.د / سحر فرحات
8. Occupational and environmental health pros and cons Greening in various economic activities	د / نهال حلمي	أ.د / جمال السمره
9. Gene environment interaction	د / إيمان محمود	أ.د / داليا شاكر

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Course Name: Medical Toxicology (Compulsory)		Course Code: OEM921-CTOXc
Lectures: CPs: 7 points		
Topics	Lecturers	Supervisors
1. Principles of managing acutely poisoned / overdosed patient	د / نهال حلمي	أ.د / محمود عمرو
2. Common complications of poisoned patient	د / بسمه حسين	أ.د / محمود عمرو
3. Chelation principles and protocols	د / رحاب شحاته	أ.د / أمل السفطى
4. Emergency medical response to hazardous incidents	د / رحاب شحاته	أ.د / نرمين حمدى
5. Disaster preparedness	د / إيمان محمود	أ.د / نرمين حمدى
6. Analgesics and anti-inflammatory medications <i>acetaminophen, n-acetyl cysteine, salicylates, non-steroidal anti-inflammatory, opioids and opioid antagonists</i>	د / رحاب شحاته	أ.د / نرمين حمدى
7. Foods, dietary and nutritional agents <i>iron, deferoxamine, vitamins, herbal preparations, food poisoning, botulism, botulinum antitoxin</i>	د/نهال حلمي	أ.د / نيفين منصور
8. Pharmaceuticals <i>anticonvulsants, l-carnitine antidiabetics, hypoglycemics, thyroid and antithyroid medications, antihistamines and decongestants, antimigraine medications, antineoplastics, leucovorin folic acid, folic acid, pharmaceutical additives</i>	د / منى عبد الله	أ.د / نرمين حمدى
9. Antimicrobials <i>antibiotics, antifungals, antivirals, antituberculouss, pyridoxine, and antimalarials</i>	أ.د.م / ماري	أ.د / سوسن هلال
10. Cardiopulmonary medications <i>anticoagulants, vitamin k1, protamine, calcium channel blockers, adrenergic antagonists, glucagon ,antihypertensives, antidysrhythmics, cardioactive, steroids, digoxin-specific antibody fragments (fab), methylxanthines, selective 2-adrenergic agonists</i>	د / منى عبد الله	أ.د / نرمين حمدى
11. Anesthetics and related medications <i>local anesthetics, inhalational anesthetics, neuromuscular blockers, dantrolene sodium</i>	د / عائشة أشرف	أ.د / عائشه سمير

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Course Name: Medical Toxicology (Compulsory)		Course Code: OEM921-CTOXc
Lectures: CPs: 7 points		
Topics	Lecturers	Supervisors
12. Psychotropic medications <i>antipsychotics, lithium, monoamine oxidase inhibitors, serotonin reuptake inhibitors and antidepressants, cyclic antidepressants, sedative-hypnotics, flumazenil</i>	د / إيمان محمود	أ.د / نيفين منصور
13. Substances of abuse <i>amphetamines, cocaine ethanol, thiamine hydrochloride, ethanol withdrawal, disulfiram and disulfiram like reactions, inhalants, hallucinogens, cannabinoids, nicotine and tobacco preparations</i>	د / رحاب شحاته	أ.د / نبيل عبد المقصود
14. Household products <i>antiseptics, disinfectants, and sterilants, camphor and moth repellents, caustics, hydrofluoric acid and fluorides, calcium, hydrocarbons, toxic alcohols, fomepizole, ethanol</i>	د / بسمة حسين	أ.د / نيفين منصور
15. Natural toxins and envenomation <i>mushrooms, plants, arthropods, antivenom (scorpion/spider), marines, snakes and others, antivenom (crotaline and elapid)</i>	د / نهال حلمي	أ.د / جهاد أبو العطا
16. Metals <i>antimony, arsenic, dimercaprol, bismuth, cadmium, chromium, cobalt, copper, lead succimer, edetate calcium disodium, mercury, nickel, selenium, silver, thallium, prussian blue, zinc</i>	د / رحاب شحاته	أ.د / سوسن هلال
17. Pesticides <i>organohosphorus and carbamates, pralidoxime, atropine, organochlorines, pyrethrins/pyrethroids, deet, herbicides, rodenticides, phosphorus, strychnine, methyl bromide, fumigants</i>	أ.د.م / ماري	أ.د / منال حسن

رئيس القسم
أ.د/ خالد جمال محجوب

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