

# Diploma Course in Clinical Toxicology 2010-2011

## Organizers

Hong Kong College of Emergency Medicine (HKCEM)  
Hong Kong Poison Information Centre (HKPIC)

## Objectives

1. To learn the updated knowledge in clinical toxicology
2. To improve the clinical management of poisoning in Hong Kong

## Course Structure

### Duration

**12 Months (July 2010 – June 2011)**

### Content

1. Supervised structured toxicology training activities
  - A. Weekly tutorial session (Appendix I)
    - Systemic and comprehensive discussion on the important topics of clinical toxicology
  - B. Weekly case discussion session
    - Discussion on clinical case of poisoning, focus on the practical issues
  - C. Weekly clinical teaching session
    - Bedside or clinic teaching on poisoned patient, focus on the toxidrome recognition
  - D. Monthly journal discussion session
    - Discussion on the classical landmark or newly published important literatures on clinical toxicology

- E. Monthly topic review session
  - Selected topics on clinical toxicology for in-depth review and discussions
- F. Monthly research session
  - Conducting research under supervision and report the progress in the monthly research session
- G. Monthly case presentation session
  - Presenting interesting cases to medical professionals
- H. Monthly monograph discussion session
  - Writing up monograph on important or emerging poisons under supervision
- 2. 6 months working experience in HKPIC
  - Provide consultation service to health care professionals on poison information and management advice under supervision
- 3. 6 months working experience in accredited toxicology training unit (Appendix II)
  - Provide care to poisoned patient directly under supervision
- 4. One research project on clinical toxicology
- 5. An examination
  - A written examination in form of MCQ and short questions
  - +/- oral examination

## Successful Completion

The diploma shall be issued by HKCEM upon completion of ALL of the following criteria:

1. Attended at least 200 hours of supervised structured training activities
2. Completed 6 months full time (or equivalent part time) attachment in both HKPIC and accredited toxicology training unit respectively
3. Completed the research project
4. Passed the examination of the diploma

The diploma shall be applied to be a quotable qualification to the Medical Council of Hong Kong.

## Enrollment Requirements

1. All medical practitioner interested in clinical toxicology AND
2. Currently attending or have completed the Certificate Program in Clinical Toxicology organized by HKCEM/HKPIC
3. Priority was given to fellow or higher trainee of the respective Colleges

## Fee

HK \$10,000

## Application

Please complete the application form and send to Ms Bejyork Wong

1. By Fax to 3513 5649 OR
2. By Mail to Hong Kong Poison Information Centre, Room 2A, Block K, United Christian Hospital, 130 Hip Wo Street, Kwun Tong, Hong Kong

## Appendix 1 – Weekly tutorial topics

### **Principles**

Toxico-dynamic and Toxico-kinetic  
Toxin induced Neurological Problems  
Toxin induced Cardiovascular Problems  
Toxin induced Liver Problems  
Toxin induced Respiratory Problems  
Toxin induced Renal Problems  
Toxin induced Haematological Problems  
Adverse Drug Event & Adverse Drug Reaction  
Poison Control models and Poison Control in Hong Kong  
Risk Assessment and Regulatory Toxicology

### **General Approach**

General Approach on Poisoning Management  
Assessment on Poisoned Patients  
Common Toxidromes  
Investigations in Poisoned Patients (Lab test, ECG, Radiography)  
Gastrointestinal Decontamination  
Antidotes  
Enhanced Elimination

### **Pharmaceuticals Poisoning**

Paracetamol  
Salicylate  
Non-steroid anti-inflammatory Drugs  
Opioids  
Anticholinergic and Antihistamine  
Methylxanthines  
Anticonvulsants  
Antihypertensive Drugs  
Antidiabetics Drugs  
Antimicrobial  
Antimigraine Drugs  
Antiarrhythmic Drugs  
Digoxin and Cardioactive steroid  
Local Anesthetics

Vitamins

Tricyclic antidepressants

Selective serotonin reuptake inhibitor & other anti-depressants

Antipsychotic

Lithium

Iron

Colchicine and Methotrexate

Sedative Hypnotics

### **Chinese Medicine Poisoning**

Chinese Medicine Toxicology

Introduction to Chinese Medicine Principle & Practice

Common Chinese Medicine Poisoning

Chinese Medicine associated Liver & Renal injury

Proprietary Chinese Medicine

Alternative Medicine Toxicology

### **Abusive Drugs Poisoning**

Cocaine

Ketamine

Amphetamine and its derivative

Other Abusive Drugs in Hong Kong

Body Packer and Stuffer

Ethanol

### **Household Products Poisoning**

Dettol and Antiseptic

Cleaning Agents and Bleaches

Toxic Alcohol

Hydrofluoric acid & fluorine

Caustics

Mothballs

Hydrocarbons

### **Pesticides Poisoning**

Organophosphates & Carbamates

Paraquat & other herbicides

Rodenticide

Pyrethrins & Pyrethroids

Other Pesticides

**Metals Poisoning**

Mercury Poisoning

Lead Poisoning

Arsenic Poisoning

Other Metals Poisoning

**Food Poisoning**

Seafood Poisoning

Mushroom Poisoning

Botulism

Other Food Poisoning

**Envenomation**

Snake Bite

Venomous Marine Sting

Other Bites and Stings in Hong Kong

**Miscellaneous Important Poisoning**

Slimming agents in Hong Kong

Carbon Monoxide

Methaemoglobinemia & Sulfhaemoglobinemia

Cyanide

## Appendix II – Accredited Toxicology Training Unit

Up to 1<sup>st</sup> April 2010, the following 3 units are accredited toxicology training units

- 1) Accident & Emergency Department, Pamela Youde Nethersole Eastern Hospital
- 2) Accident & Emergency Department, Queen Mary Hospital
- 3) Accident & Emergency Department, United Christian Hospital