



## Mandatory Courses and Structured Tutorial Program for HKCA (IC) Trainees

### Mandatory Courses \*

1. **Basic Assessment & Support in Intensive Care (BASIC) course**
2. **Exposure to Anaesthesia Safety and Emergency (EASE) course**
3. **Advanced Cardiac Life Support (ACLS) course** or equivalent\*\*
4. **Trauma course** (any one of below or equivalent\*\*):
  - Advanced Trauma Life Support (ATLS) course
  - International Trauma Life Support (ITLS) course
5. **Advanced Airway course** (any one of below or equivalent\*\*):
  - Advanced Difficult Airway Management Workshop for Doctors (ADAM-D) by HKCA
  - Airway Management Beyond Basic Course by CUHK
6. **Echocardiography course** (any one of below or equivalent\*\*):
  - Echo Hong Kong Hands-on Workshop by Ruttonjee and TSK Hospitals
  - Echocardiography Workshop by HKCA
  - Rapid Assessment by Cardiac Echo (RACE) course by HKCEM
  - Intermediate Echocardiography Course (IEC) by HKCEM
  - WINFOCUS's Critical Care Echocardiography Course by HKCEM
  - Beyond Basic – Transthoracic Echo course by CUHK

\*Mandatory courses are chosen based on suitability, affordability, accessibility, sustainability and must be of acceptable standard. Topics covered by these courses will not be covered again in topic tutorials.

\*\* If a trainee has attended a course deemed to be equivalent to one of the above courses can apply to have it assessed and approved by the Board of Intensive Care Medicine.

### Recommended Courses

- Postgraduate Diploma in Infectious Diseases (PDipID) and Infectious Diseases Courses
- Basic Clinical Toxicology Course by HKEM
- Critical Care Nephrology Course by PYNEH ICU
- Advanced Simulation Training in Mechanical Ventilation (ASTIM) Course by HKJC-ILCM
- Beyond BASIC Mechanical Ventilator Course by CUHK
- Intensive Care Nephrology Beyond BASIC Course by CUHK
- HAHO ECMO & ECMC Simulation Course
- APELSO Adult ECMO Training Course
- Support & Management of Brain Dead Patient and Donor Awareness Course



## Topic Tutorials

### **General ICU**

1. Severity of illness and outcome scoring systems in ICU
2. Statistics
3. Basic ethical principles in critical care
4. Transport of the critically ill patients
5. Principles of fluid/blood product therapy
6. Critical care nutrition
7. Acid-base and electrolyte disturbances

### **Cardiac**

8. Shock and hemodynamic monitoring
9. Cardiogenic shock and acute decompensated heart failure
10. Extracorporeal life support for cardiopulmonary failure
11. Intensive care after cardiac surgery
12. Post cardiac arrest management and prognostication
13. Acute coronary syndromes

### **Respiratory**

14. Principles of non-invasive and invasive mechanical ventilation
15. Management of ARDS
16. Asthma/COAD and difficult ventilation
17. Management of pulmonary complications: massive haemoptysis, pneumothorax, pleural effusion
18. Venous thromboembolism, pulmonary embolism and other embolic syndromes

### **GI and hepatobiliary**

19. Acute liver failure and acute on chronic liver failure
20. Abdominal surgical catastrophes and abdominal compartment syndrome

### **Renal**

21. Acute kidney injury
22. Renal replacement therapy in ICU

### **Neurology**

23. Status epilepticus
24. Acute ischaemic stroke and neuromuscular disorders



25. Sedation and pain management in ICU
26. Management of neurosurgical cases
27. Brain death and management of organ donor

### ***Infections***

28. Infection control and principles of use of antimicrobials
29. Sepsis management
30. Community acquired pneumonia
31. Nosocomial infections in ICU
32. Sepsis in immunocompromised patients

### ***Miscellaneous***

33. Management of acute poisoning
34. Endocrine and metabolic emergencies
35. Haematological issues in ICU
36. Obstetrics emergencies
37. Critically ill child
38. Ultrasound in ICU

### **Exam Preparation Tutorials**

1. Communications
2. ECG/Data interpretation/Radiology
3. Viva
4. Hot cases (quarterly)

### **Minimum requirement for HKCA (IC) trainees before exit assessment**

All trainees who register after 1<sup>st</sup> July 2017 are required to complete the following during the course of basic or higher vocational training:

1. All 6 mandatory courses
2. At least 36 out of 38 topic tutorials (though highly recommended to attend all)

Trainees who register before 1<sup>st</sup> July 2017 can either follow the old regulations (attend 48 tutorials) or the new regulations (6 mandatory courses + 36 topic tutorials) regarding the tutorials as stated above.

*Endorsed by BOICM in April 2017*

*Revised and endorsed by BOICM in August 2017*

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