# THE CHINESE UNIVERSITY OF HONG KONG  
DEPARTMENT OF MEDICINE & THERAPEUTICS  
Master of Science in Cardiology 2014-15

## FIRST TERM (16 Sep 14 – 20 Jan 15)

### Basic Cardiology I (CVSM5001)

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Class</th>
<th>Venue</th>
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</thead>
</table>
| 1 16 Sep 14 (Tue) | 3:00pm – 3:15pm 3:15pm – 4:45pm 4:45pm – 6:15pm 6:15pm – 7:45pm 7:45pm – 9:15pm | ■ Introduction to MSc in Cardiology  
■ Basic cardiac, coronary and vascular anatomy  
■ Autonomic and humoral control of cardiovascular physiology  
■ Molecular biology and Cardiovascular Diseases  
■ Clinical case discussion on cardiac anatomy | Shaw Auditorium, Postgraduate Education Centre |
| 2 23 Sep 14 (Tue) | 3:00pm – 4:30pm 4:30pm – 6:00pm 6:00pm – 7:30pm 7:30pm – 9:00pm | ■ Left ventricular systolic and diastolic function  
■ Right ventricular function and physiology  
■ Nutrition and the heart  
■ Pathophysiology of myocardial viability, hibernation, stunning | Shaw Auditorium, Postgraduate Education Centre |
| 3 7 Oct 14 (Tue) | 3:00pm – 4:30pm 4:30pm – 6:00pm 6:00pm – 7:30pm 7:30pm – 9:00pm | ■ Cardiac catheterization hemodynamics  
■ Cardiopulmonary circulation and physiology  
■ Basic principles of electrophysiology and arrhythmogenesis  
■ Basic ECG interpretation | Shaw Auditorium, Postgraduate Education Centre |
| 4 21 Oct 14 (Tue) | 3:00pm – 4:30pm 4:30pm – 6:00pm 6:00pm – 7:30pm 7:30pm – 9:00pm | ■ Essential of pharmacokinetics and pharmacodynamics  
■ Common adverse drug effects and drug-drug interactions in cardiology  
■ Principles in the management of STEMl  
■ Haemostasis and Platelet Function in Cardiology | Shaw Auditorium, Postgraduate Education Centre |
| 5 4 Nov 14 (Tue) | 3:00pm – 4:30pm 4:30pm – 6:00pm 6:00pm – 7:30pm 7:30pm – 9:00pm | ■ Coronary physiology and endothelial function  
■ Cardiovascular-renal complication in diabetes  
■ Renal physiology and the heart  
■ Clinical case discussion on coronary physiology | Kai Chong Tong, Postgraduate Education Centre |
| 6 11 Nov 14 (Tue) | 3:00pm – 4:30pm 4:30pm – 6:00pm 6:00pm – 7:30pm 7:30pm – 9:00pm | ■ Mechanical complications of myocardial infarction  
■ Obesity and related CV health  
■ Smoking and alcohol consumption in CV health  
■ Exercise and CV health | Kai Chong Tong, Postgraduate Education Centre |
| 7 18 Nov 14 (Tue) | 3:00pm – 4:30pm 4:30pm – 6:00pm | ■ Introduction to biostatistics I  
■ Introduction to biostatistics II | Shaw Auditorium, Postgraduate Education Centre |
| 8 25 Nov 14 (Tue) | 3:00pm – 4:30pm 4:30pm – 6:00pm 6:00pm – 7:30pm 7:30pm – 9:00pm | ■ Introduction to epidemiology  
■ Basic clinical and molecular genetics of common diseases, e.g. AMI  
■ Genetic in cardiovascular diseases  
■ How to write case report | Kai Chong Tong, Postgraduate Education Centre |
| 9 2 Dec 14 (Tue) | 3:00pm – 4:30pm 4:30pm – 6:00pm 6:00pm – 7:30pm 7:30pm – 9:00pm | ■ Epidemiology and pathophysiology of hypertension  
■ Management of hypertension with case studies  
■ Lipid physiology and management  
■ Nutrition for Disease Prevention: Dietary Salt and Cardiovascular Disease | Kai Chong Tong, Postgraduate Education Centre |
| 10 9 Dec 14 (Tue) | 3:00pm – 4:30pm 4:30pm – 6:00pm | ■ Medical ethics in Cardiology  
■ Medico-legal issues in Cardiology | Lecture Theater, 2/F, Lui Che Woo Clinical Sciences Building |

**Notes:**
1. The above timetable is subject to change.
2. Classes will be held in the Prince of Wales Hospital, Shatin, N.T., unless otherwise specified.
3. Students are required to attend at least 80% of each course
<table>
<thead>
<tr>
<th>Date</th>
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<th>Class</th>
<th>Venue</th>
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<tbody>
<tr>
<td>11 Dec 14</td>
<td>3:00pm – 4:30pm</td>
<td>Basics of cardiac CT and magnetic resonance imaging</td>
<td>Kai Chong Tong, Postgraduate Education Centre</td>
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<td>4:30pm – 6:00pm</td>
<td>CT and MRI: Typical case examples of common cardiac conditions</td>
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<td>6:00pm – 7:30pm</td>
<td>Basics of echocardiography</td>
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<td>7:30pm – 9:00pm</td>
<td>Basics of nuclear cardiology</td>
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<tr>
<td>6 Jan 15</td>
<td>3:00pm – 4:30pm</td>
<td>Pathophysiology of myocardial ischemia and infarction</td>
<td>Lecture Theater, 2/F, Lui Che Woo Clinical Sciences Building</td>
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<td>4:30pm – 6:00pm</td>
<td>Principles in the management of unstable angina and NSTEMI</td>
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<td>6:00pm – 7:30pm</td>
<td>Principles in the evaluation of chest pain</td>
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<td>7:30pm – 8:00pm</td>
<td>Revision Exercise</td>
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<tr>
<td>20 Jan 15</td>
<td>4:00pm – 5:30pm</td>
<td>MCQ Examination</td>
<td>Shaw Auditorium, Postgraduate Education Centre</td>
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