

Doppler Cardiac Output Monitoring (DoCOM) Courses

Application Deadline
12 April 2013

Organized by the

Accident & Emergency Medicine Academic Unit, The Chinese University of Hong Kong, Hong Kong

Supported by the

USCOM and Pacific Medical Systems



These courses will provide health care workers with an understanding of cardiovascular physiology and the skills to use non-invasive haemodynamic monitoring to improve patient care.

The Basic Course (Level 1) gives participants the basic knowledge and technical competence to acquire haemodynamic data using the Ultrasonic Cardiac Output monitor (USCOM).

The Advanced Course (Level 2) addresses the needs of clinicians who want to know how to acquire and interpret USCOM-derived data in moderately complex scenarios.

Dates: Basic Course (Level 1): 23 April 2013 (Tue)
Advanced Course (Level 2): 24 April 2013 (Wed) & 25 April 2013 (Thu)

Location: Room 02C31, 2/F, Conference Room, Main Clinical Block and Trauma Centre
Prince of Wales Hospital, Shatin

Course fee: Level 1: HK\$850 / day
Level 2: HK\$2450 / 2 days

Faculty:

<i>Prof. Timothy RAINER</i>	- Course Director and Professor, Emergency Medicine, CUHK
<i>Dr. Shara LEE</i>	- Post-doctoral fellow, Anaesthesia & Intensive Care/Chemical Pathology, CUHK
<i>Dr. LI Yan Ling</i>	- Doctor, The Second Affiliated Hospital of Guangzhou Medical University, China
Overseas:	
<i>Prof. Brendan SMITH</i>	- Professor, Anaesthesia & Intensive Care, School of Biomedical Science, Charles Sturt University, Australia

CME/CNE: CME/CNE points pending

Enquiry and Registration: Ms. Junie Yiu
Tel: 2632 1145; Email: junieyiu@cuhk.edu.hk

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Faculty



Prof. Timothy Rainer

Course Director

Timothy Rainer is Professor and Director of the Accident and Emergency Medicine Academic Unit of the Chinese University of Hong Kong, and Honorary Consultant of the Emergency Department at Prince of Wales Hospital.



Dr. Shara Lee

Post-doctoral Fellow, Anaesthesia & Intensive Care / Chemical Pathology, The Chinese University of Hong Kong

Shara is graduated from the Chinese University of Hong Kong, obtaining her PhD in anaesthesia in 2008. Her research interests include advanced haemodynamic monitoring and management in obstetric anaesthesia, intra-operative fluid optimization and vascular ultrasound.



Dr. Li Yan Ling

Doctor, The Second Affiliated Hospital of Guangzhou Medical University, China



Prof. Brendan Smith

Professor, Anaesthesia & Intensive Care , School of Biomedical Science, Charles Sturt University, Australia

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Level 1 – Introduction

23 April 2013 (Tuesday)

Target participants:

- Anyone who want to learn more about non-invasive haemodynamic monitoring (using USCOM) (e.g. nurses, medical trainees, ultrasonographers)
- Specialists who want a refresher in the use of USCOM will also find this beneficial.

Time	Morning Schedule
08:30 – 08:50	Registration
08:50 – 09:00	Opening Remarks: Welcome & House Keeping
09:00 – 09:30	Why is this course important?
09:30 – 10:00	Introduction to basic haemodynamic parameters
10:00 – 10:15	Tea Break
10:15 – 10:45	Basic Principles of Doppler: How does USCOM work?
10:45 – 11:15	Aortic Techniques and Acquisition using USCOM
11:15 – 11:30	Tea Break
11:30 – 12:00	Pulmonary Techniques and Acquisition using USCOM?
12:00 – 12:30	Operation of USCOM and Troubleshooting
12:45 – 14:00	Lunch / Faculty Meeting

Time	Afternoon Schedule
14:00 – 14:45	Manoeuvring through USCOM/Signal retrieval through Aortic route
14:45 – 15:00	Tea Break
15:00 – 15:45	Signal retrieval through the Pulmonary route
15:45 – 16:00	Tea Break
16:00 – 17:00	Rotating Clinical Practice
17:00 – 17:10	Closing Remarks

Organizers reserve the right to cancel or postpone the programme if the number of registered participants is insufficient or for other unforeseen reasons.

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Level 2 – Non-invasive Haemodynamics Day 1 24 April 2013 (Wednesday)

Target participants:

- Medical officers and Specialists who want to understand how to use haemodynamic data for patient care, and want to know how to use USCOM for this purpose.
- Nurses and other healthcare professionals in the process of developing their USCOM skills. Nurses are recommended to complete level 1 before entering level 2 training.

Time	Morning Schedule
08:30 – 08:50	Registration
08:50 – 09:00	Opening Remarks
09:00 – 09:30	Introduction to Haemodynamics and Cardiovascular Physiology
09:30 – 10:00	Advanced USCOM Parameters and interpretation of data
10:00 – 10:15	Tea Break
10:15 – 10:45	Advanced Doppler Theory and Technology
10:45 – 11:15	Doppler Applications: Problems & Pitfalls
11:15 – 11:30	Tea Break
11:30 – 12:00	Methods available for NIHM: Echo, USCOM, Transthoracic Impedance and Arterial Volume-Clamp Method
12:00 – 12:30	Standards & Training Requirements
12:45 – 14:00	Lunch

Time	Afternoon Schedule
14:00 – 14:45	Clinical practice and waveform assessment
14:45 – 15:00	Tea Break
15:00 – 15:45	Clinical practice and waveform assessment
15:45 – 16:00	Tea Break
16:00 – 17:00	Technical assessment
17:00 – 17:10	Closing Remarks

Organizers reserve the right to cancel or postpone the programme if the number of registered participants is insufficient or for other unforeseen reasons.

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Level 2 – Non-invasive Haemodynamics Day 2 25 April 2013 (Thursday)

Target participants:

- Medical officers and Specialists who want to understand how to use haemodynamic data for patient care, and how to use USCOM for this purpose.
- Nurses and other healthcare professionals in the process of developing their USCOM skills. Nurses are recommended to complete level 1 before entering level 2 training.

Time	Morning Schedule
08:30 – 08:50	Registration
08:50 – 09:00	Opening Remarks
09:00 – 09:30	Case discussion
09:30 – 10:00	Case discussion
10:00 – 10:15	Tea Break
10:15 – 10:45	Case discussion
10:45 – 11:15	Case discussion
11:15 – 11:30	Tea Break
11:30 – 12:00	Case discussion
12:00 – 12:30	Case discussion
12:45 – 14:00	Lunch

Time	Afternoon Schedule
14:00 – 14:45	Clinical practice and waveform assessment
14:45 – 15:00	Tea Break
15:00 – 15:45	Clinical practice and waveform assessment
15:45 – 16:00	Tea Break
16:00 – 17:00	Competency assessment
17:00 – 17:10	Closing Remarks

Organizers reserve the right to cancel or postpone the programme if the number of registered participants is insufficient or for other unforeseen reasons.

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Additional Skills Training on Doppler Cardiac Output Monitoring (DoCOM) (by appointment)

USCOM Skill Training Programme (1 trainer to 3 trainees)

Briefing & Demonstration (1 day)

- USCOM operation, critical hemodynamic parameters, transducer manipulation, movement, pressure control, acquisition technique, Doppler image characteristics, aortic/pulmonary acquisition sequence
- Demonstration on a male
- Practice under supervision on 2 males + 2 females w/o acute illness aged 18 – 60 years

Practice on 1 hypertension patient + 1 hypotensive patient + 1 patient with SOB or respiratory distress under supervision (1 day)

Practice on 50 subjects w/o acute illness (13 days)

- First 7 subjects aged 18 – 60 years and another 3 subjects aged over 65 years in every 10 subjects

Practice on 15 patients (3 – 6 days)

- 5 hypertension patients (1 – 2 days)
- 5 hypotensive patients (1 – 2 days)
- 5 Resuscitation Room or High Dependency Unit patients (1 – 2 days)

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REGISTRATION FORM

Please fill in this form in **BLOCK** letters and ✓ where appropriate

Personal Information

Title: ☐ Prof ☐ Dr ☐ Mr ☐ Mrs ☐ Ms

Surname: _____ Given Name: _____

Institution / Department: _____

Tel: _____ E-mail: _____

Date of Attendance and Registration Fee:

Date	Institution	Course Fee	Payment
Level 1 – 23 Apr 2013 (Tue)	☐ HA / CUHK ☐ Other	HK\$ 850	Sub-total: _____
Level 2 (Day 1) – 24 Apr 2013 (Wed)	☐ HA / CUHK ☐ Other	HK\$ 2,450	Sub-total: _____
Level 2 (Day 2) – 25 Apr 2013 (Thu)			
TOTAL:			

For registration, please complete the **FORM** and return with a cheque of appropriate **FEE** payable to “**The Chinese University of Hong Kong**” to

Accident and Emergency Medicine Academic Unit, The Chinese University of Hong Kong

2/F, Rm 02C54, Main Clinical Block and Trauma Centre, Prince of Wales Hospital, Shatin, NT

Tel: (852) 2632 1145

Fax: (852) 2632 1297

Email: aemau@med.cuhk.edu.hk

Important Notes:

1. Space is limited and will be allocated strictly in the order of receipt of registration applications with payments.
2. Registration forms received without registration fees will not be processed.
3. **No refund will be made for cancellation.**
4. Only Hong Kong Dollars cheque or bank draft made payable to “**The Chinese University of Hong Kong**” is acceptable. No Credit Card payment is acceptable.
5. **Confirmation emails** would be sent to successful applicants before application deadline.