



Critical Care Patient Transport (CCPT): Cardiorespiratory Module Hybrid Course :7th & 14th November 2026 (online)

16th -18th November 2026 (onsite)

**Chula Simulation Center, 16th Fl., Sor Thor Building
King Chulalongkorn Memorial Hospital : Bangkok Thailand**

Dr. Terry Martin: Course Director CCAT Aeromedical Training

1-6 November 2026	Pretest and self-learning
Day 1 7 November 2026	Online Zoom: 17: 00 – 20:30 ICT
17:00-18.00	1.Revision and application of respiratory physiology & ARDS Dr.Thavinee Trainarongsakul
18.00-19.00	2.Oxygen enroute, Oxygen calculations and Hypoxia Dr.Parinya Tianwibool
19:00-19:30	Break 30 minutes
19:30-20:30	3. Revision of cardiorespiratory physiology (haemodynamics , Electrocardiology) Dr.Komsanti Vongkulbhisal - Pre load and after load - Macrocirculation and microcirculation - Cardiorespiratory conditions of concern (heart lung interaction) - Shock - Heart failure - Pulmonary Thrombo-Embolism (PTE)
Day 2 14 November 2026	Online Zoom: 17: 00 – 20:30 ICT
17:00-19.00	1. Introduction to course (Terminology, units and basic principles) Dr. Terry Martin 2. Physics of the atmosphere and Biodynamics of movement (Vibration & motion sickness, Accelerations) Dr. Terry Martin
19.00-19.30	Break 30 minutes
19:30-20:30	3. Mode of patient transportation and Vehicle Dr. Sithichai Veerananchai

Day 3 Onsite	16 November 2026 Chula Simulation Center, 16th Fl., Sor Thor Building King Chulalongkorn Memorial Hospital. Bangkok Thailand
07:30-08:00	Register
08:00- 08:15	Welcome and Introduction
08:15-09:15	1. Pretransport Assessment 2. Prevention and management of cardiorespiratory emergencies in flight Dr. Sithichai Veerananchai
Coffee break 15 minutes	
09:30-10:30	3.Non-invasive monitoring and Ambulance Equipment 4.Invasive monitoring & ICU Equipments Dr.Komsanti Vongkulbhisal
10:30-11:15	5.Ventilator setting in specific conditions Dr.Morakote Wongkumchang
11:15-12:00	6.Ventilator alarms and troubleshooting Dr.Theethawat Sathirarat
Lunch Symposium 12:00-13:00	
13:00-14:30	7.Special cases: Respiratory cases (2 cases; 4 group) >> เน้น Clinical/Physio + transport env. + A-H (ไม่ต้องทำถึง Logistics) Dr. Morakote Wongkumchang Dr. Nickjaree Songsangvorn
Coffee Break 15 minutes	
14:45-16:00	8. Special cases: Cardiovascular cases (2 cases; 4 group) Dr. Komsanti Vongkulbhisal Dr. Peraphol Prateepamonkul
16:00-17:00	Summary discussion and closure

Day 4 Onsite	17 November 2026 Chula Simulation Center, 16th Fl., Sor Thor Building King Chulalongkorn Memorial Hospital. Bangkok Thailand
08:30- 09:30	9. ECMO equipment , indications and management (Basic ECMO and ECMO transportation) Dr.Welawat Tienpratarn
09:30-10:30	10. ECMO setting and troubleshooting Dr.Chayanat Sirinavin (CVT CU)
Coffee break 30 minutes	
11:00-12:00	11. Clinical & Logistic decision : Risk and decision -making Dr. Yaowapha Siripakorn 12. Leadership and Teamworking Dr. Varalee Aphinives
Lunch Symposium 12:00-13:00	
13:00-16.00	13.Clinical & Logistic decision: Risk and decision - making workshop (1 case; 4 group) (เน้น Logistic : Aeromedical transport / Risk matrix) Dr. Varalee Aphinives Dr. Sithichai Veerananchai Dr. Yaowapha Siripakorn
16:00-17:00	Summary discussion and closure

DAY 5 Scenario session 18 November 2026 Chula Simulation Center,16th Fl., Sor Thor Building King Chulalongkorn Memorial Hospital. Bangkok Thailand			
08:30-08:45 Introduction of Scenario session			
8:45-9:45 VV- ECMO Intrahospital transport Dr.Chayanat Sirinavin Dr.Theethawat Sathirarat	Coffee break 15 min	10:00-11:00 Lifting, loading and securing Optimizing and Packaging Dr.Welawat Tienpratarn Dr.Parinya Tianwibool Dr.Varalee Aphinives	11:00-12:00 IABP, Arterial line, Central line, Pacing Dr.Morakote Wongkumchang Dr.Peraphol Prateepamonkul Dr.Komsanti Vongkulbhisal
12:00-13:00 Lunch Symposium			
13:00-14:00 VA- ECMO,IABP , Ambulance (IFT) Dr.Chayanat Sirinavin Dr.Welawat Tienpratarn	Coffee break 15 min	14:15-15:15 Advanced IPP ventilation, Hiflow Dr.Morakote Wongkumchang Dr.Nickjaree Songsangvorn Dr.Thavinee Trainarongsakul	15:15-16:15 Practical problems in transport Dr. Sithichai Veerananchai Dr.Yaowapha Siripakorn Chayanuch Sang-In
16:15-18:00 Test, Post- Test, Discussion, Evaluation, Summary and Closure			

Director Course	Critical Care Patient Transport (CCPT): Cardiorespiratory Module	Position
1.Dr Terry Martin MSC DAVMED DIPRTMED FIMC FCARCSI FRCS FRCA FFICM FRAES CONSULTANT IN ANESTHESIA & INTENSIVE CARE MEDICINE EDUCATION DIRECTOR	Course Director	CCAT Aeromedical Training
Local Instructor	Field of study	Position
2.Dr Varalee Aphinives	Local course coordinator Emergency and Prehospital Emergency Physician, Flight Surgeon	Tossaminthradhiraj Hospital, Directorate of Medical Services, Royal Thai Air Force Bhumibol Adulyadej Hospital, RTAF
3. Dr Sithichai Veerananchai	Local course coordinator Emergency and Flight Physician	Bangkok hospital, Bangkok
4. Dr Nickjaree Songsangvorn	Emergency and critical care physician	Bangkok hospital, Bangkok
5. Dr Peraphol Prateepamonkul	Emergency and critical care physician	Synphaet Srinakarin hospital, Bangkok
6. Dr Morakote Wongkumchang	Emergency and critical care physician	Chonburi Hospital
7. Dr Theethawat Sathirarat	Emergency and critical care physician	Fort Somdej Phranaresuan Maharaj Hospital
8. Dr Komsanti Vongkulbhisal	Emergency and critical care physician	King Chulalongkorn Memorial Hospital
9. Dr Thavinee Trainarongsakul	Emergency and critical care physician	Faculty of medicine, Ramathibodi Hospital, Mahidol university
10. Dr Parinya Tianwibool	Emergency and Prehospital Emergency Physician	Faculty of medicine, Chiang Mai University
11.Dr Yaowapha Siripakarn	Emergency and Prehospital Emergency Physician	Thammasat university Hospital
12.Dr Welawat Tienpratarn	Emergency and EMS Physician	Faculty of medicine, Ramathibodi Hospital, Mahidol university
Guest Specialist Faculty		
13. Dr Chayanat Sirinavin	Cardiothoracic Surgeon	King Chulalongkorn Memorial Hospital

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