

New DDRC Diving and Hyperbaric Medicine Courses in Thailand

Previously recreational divers who wanted to learn more about diving medicine needed to travel to the UK, Australia, or the USA for training. This year the BADALVEDA Diving Medicine Network in conjunction with the Diving Disease Research Center from the UK (DDRC) will conduct courses on diving and hyperbaric medicine in Thailand. The courses are designed for recreational divers who would like further training about diving medicine or who are interested in pursuing a career in hyperbarics. The courses are scheduled for May this year and will be held at the Royal Thai Navy hospital in Satahip (20 minutes from Pattaya).

There will be two courses on offer **Remote Emergency Medic**, and a **Basic Hyperbaric Medicine-CHT prerequisite** course. Each course will run for 5 days and has been approved by the National Board of Diving and Hyperbaric Medical Technology (NBDHMT). Established in 1991 the NBDHMT is a US based organization that set standards for training Hyperbaric professionals. Their goal is to ensure people entering the field of Diving and Hyperbaric medicine receive adequate training and maintain a high standard of professionalism.



Diving Disease Research Center (DDRC)

The DDRC is considered a world leader in diving and hyperbaric medicine. They regularly conduct IMCA (International Marine Contractors Association) approved training courses for commercial divers and are heavily involved in research on diving physiology and Hyperbaric Oxygen Therapy (HBOT). The DDRC has helped train students from all over the world, and has been involved in setting up programs for the Hong Kong Fire Department and the armed forces of the United Arab Emirates. This will be the second time the DDRC have come to Thailand to offer courses to recreational divers.



BADALVEDA Diving Medicine Network

BADALVEDA is the largest diving medicine group in Thailand, with hyperbaric chambers located in Bangkok, Phuket, Pattaya, and Koh Samui. The company was established in 2002 by Dr Suriya Na Nagarra. Dr Suriya is the Chief Diving Medical Officer for the Underwater Medicine Division of the Royal Thai Navy and has over 20 years experience in diving medicine.

The BADALVEDA Network is affiliated with the Bangkok Hospital Group and all their hyperbaric chambers are part of the **DAN Referral Network**.



Remote Emergency Medic Technician

Course Outline: The Remote Emergency Medic course is aimed at recreational divers, divemasters and instructors who dive in remote locations. It provides the students with the necessary skills to deal with medical emergencies that can occur when diving. This course provides a good understanding of basic life support and accident management along with treatment for decompression illness. Participants will also learn how to effectively evaluate, treat, and evacuate an injured diver to the nearest medical facility. Students will also receive practical training with hyperbaric chambers. This course will be run by the Diving Disease Research Center (DDRC) and is approved by the National Board of Diving and Hyperbaric Medical Technology (NBDHMT).

The following topics will be covered.

- **Roles and responsibilities of the Diving Medic**
- **Diving physics and physiology**
- **Use of medical equipment on site of the dive accident.**
- **Oxygen administration and Basic Life Support Techniques**
- **Decompression theory and management**
- **Introduction to Barotrauma and ENT (Ear nose and Throat) problems**
- **Introduction to Central Nervous System (CNS) and Neurological examinations**
- **Hyperbaric chamber orientation and treatment protocols**

Course Details:

Student number: Maximum 10 students

Period: May 15th – May 19th

Location: Apakorn Kiatiwong Navy Hospital Sattahip

Certification: Issued from UK

Course Fee: THB 40 000

(students who attend both Remote Emergency Medic & Basic Hyperbaric Medicine-CHT course will receive a 10% discount)

If you are interested in attending or if you would like more information please contact BADALVEDA's Marketing Manager, Rowan Sanderson at rowan@bgh.co.th



Remote Emergency Medic Technician

Course Schedule

| Time | Day 1 | Day 2 | Day 3 | Day 4 | Day 5 |
|----------------|---|--|---|---|---|
| 0830 - 1030 | Intro safety familiarisation Role & responsibilities | Intro to barotraumas related problems ENT | Diving and treatment tables | Emergency managment Oxygen admin Review of BLS techniques | Use of medical equipment at the dive site |
| BREAK | | | | | |
| 1045 - 1230 | Diving physics review | Intro to CNS Neuro exam of patients. | Prepare chamber, 5ATA Dive. Performance testing at depth | Oxygen Toxicity | Record Keeping and liaison with medical services |
| BREAK | | | | | |
| 1300 - 1500 | Diving physiology review | Neuro exam and ear exam practical | Barotraumas problems. | Treatment scenario and chamber practical | Student-led revision session. |
| BREAK | | | | | |
| 1530 - 1730 | Hyperbaric chamber orientation | Prepare chamber, 2ATA Dive Neurological exam under pressure | DCS Theory Intro & Managmnt | Treatment scenario & chamber practical continued | Final Exam Course review and certificate presentation |



Basic Hyperbaric Medicine CHT Prerequisite

Course Outline: The Basic Hyperbaric Medicine Course is aimed at health care and related professionals who require hyperbaric qualifications and for people interested in entering the field of hyperbaric medicine. This course provides a more in-depth understanding of hyperbaric medicine and is a prerequisite for sitting the NBDHMT Certified Hyperbaric Technologists exam (CHT). The CHT qualification is internationally recognized and is considered to be the highest qualification available for people involved in hyperbaric treatment. The course will cover all the following topics.

- **History of hyperbaric medicine**
- **Different hyperbaric chamber configurations**
- **Physics of hyperbarics**
- **Hyperbaric Oxygen Therapy**
- **Medical terminology and conditions approved for hyperbarics**
- **Air decompression procedures**
- **Therapeutic table procedures for decompression illness**
- **Contraindications and side effects of hyperbaric medicine**
- **Hyperbaric safety and emergency procedures**
- **Management and administration of a hyperbaric facility**
- **Use of TcOM and application**
- **Physical fitness for diving**

Course Details:

Student number: Maximum 10 students

Period: May 22nd – May 26th

Location: Apakorn Kiatiwong Navy Hospital Sattahip

Certification: Issued from UK

Course Fee: THB 40 000

(students who attend both Remote Emergency Medic & Basic Hyperbaric Medicine-CHT course will receive a 10% discount)

If you are interested in attending or if you would like more information please contact BADALVEDA's Marketing Manager, Rowan Sanderson at [rowan @bgh.co.th](mailto:rowan@bgh.co.th)



Basic Hyperbaric Medicine CHT Prerequisite Course Schedule

| Time | Day 1 | Day 2 | Day 3 | Day 4 | Day 5 |
|--------------------------|--|--|---|--|---|
| 0830 – 1030 | DDRC welcome introduction to course A historical perspective of hyperbaric medicine Introduction to multi, dual and mono place chambers. | Homework Review Diving physiology | Homework review Approved and other potential indications treated with HBO | Homework review Intro principles of TcPO2 The TcPO2 monitor & ancillary equipment | Homework review Physical Fitness for Diving |
| BREAK | | | | | |
| 1045 – 12.00 | The Physics of hyperbaric exposure Part 1 The Physics of hyperbaric exposure Part 2 | Common medical & anatomic terminology Air decompression procedures | Treatment Tables for indications other than DCI HBO contraindications and side effects | Theory of TcPO2 test | Practical session on chamber |
| BREAK | | | | | |
| 12.30 – 14.45 | The mechanical effects of hyperbaric exposure Hyperbaric Oxygen Part 1 & 2 | Decompression Illness (Part 1) Decompression Illness (Part 2) | Hyperbaric safety and emergency procedures Patient assessment management | Aspects of TcPO2 procedure Practical use of equipment | General course revision |
| BREAK | | | | | |
| 15.00 – 1700 | Introduction to chamber operating procedures Practical session Issue homework | Therapeutic table procedures for DCI Practical session Issue homework | Administrative & management issues Practical session Issue homework | Practical use of equipment Discussion of TcOM module Issue homework | Final Theory Exam |