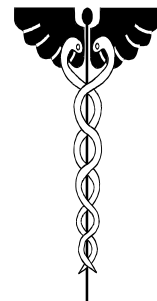


# HYPERBARIC MEDICAL CENTER

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## CURRICULUM VITAE

### I. PERSONAL PARTICULARS:

**Name:** Adel Mohamed Taher,

Dr. med., M.B., B.Ch.,

Consultant, Diving- & Hyperbaric Medicine, Gesellschaft für Tauch- und Überdruck Medizin (GTÜM), Germany

Consultant, Diving & Hyperbaric Medicine, Austrian Society for Underwater and Hyperbaric Medicine (ÖGUHM/ASUHM), Austria

Director, Hyperbaric Medical Center,

Sharm el-Sheikh, South Sinai, Egypt

Medical Director of Divers Alert Network (DAN) – Egypt (affiliate of DAN-Europe)

CEO, Sharm Medical Group (Sinai Clinic Hospital),

Sharm el-Sheikh, South Sinai, Egypt,

PADI, OWSI, MSDT

Director, DAN-Egypt

DAN-Oxygen Instructor Trainer Evaluator,

Member of Gesellschaft für Tauch- und Überdruckmedizin (GTÜM), Germany

Honorary Member, ASUHM/ ÖGUHM, Austria

Corresponding Member, European Diving Technology Committee (EDTC),

Expert Member, European Committee for Hyperbaric Medicine (ECHM)

Ex-Member of the Board and current member, European Underwater & Baromedical Society (EUBS)

**Date of Birth:** 12<sup>th</sup> of April, 1956

**Nationality:** dual nationality: Egyptian / American

**Egyptian Passport No:** A06295966

**Egyptian ID No:** 25604120100677

**Postal Address:** P.O. Box 152, Sharm el-Sheikh, S. Sinai, Egypt

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[bigwhale56@gmail.com](mailto:bigwhale56@gmail.com) (private)

[ataher@daneurope.org](mailto:ataher@daneurope.org) (DAN-Europe)

**Telephone Office:** +20693 660 922 / 3

**Emergency Line:** +2 0122 212 42 92

**Residence:** Hyperbaric Medical Center, Sharm el-Mina, Sharm el-Sheikh, South Sinai, Egypt

**Languages:** Arabic – mother tongue

German and English – fluent spoken and written

Italian – medical

## **II. QUALIFICATIONS:**

Attended and Observed courses in Diving Medicine at “Das Schiffahrtmedizinische Institut der Marine”, Kiel, Germany, 1975-1976

M.B., B.Ch., Very Good with Honors, Kasr El Aini Faculty of Medicine, Cairo University, 1983

Training in Anesthesia, Egyptian Armed Forces, Medical Core, Maadi Military Hospital, 1985-1986

Certificate of Training in Recompression Therapy of Diving Accidents, Multi-Place Chamber Operation and Safety, Treatment Gases and Gas Mixing, Life Support Systems and Bio-Medical Monitoring Systems use in Hyperbaric Environments, Hyperbarics International, Key Largo, Florida, USA, 1992

Introduction to Hyperbaric Medicine, Credentialed as “Consulting Hyperbaric Physician”, University of Columbia, Carolina Hyperbarics at Richland Memorial Hospital, South Carolina, 1992

DAN Oxygen First Aid Instructor and DAN Oxygen First Aid Instructor Trainer, Divers Alert Network, Duke, North Carolina, 1992

Lehrgang Hyperbar- und Tauchmedizin EDTC: C & D (Course in Diving & Hyperbaric Medicine, according to EDTC standards: C & D courses) at the Institut für Hyperbar- und Tauchmedizin, Ulm, Germany, 1995

Tauchmedizin und Einführung in die Hyperbarmedizin: A & B (Diving Medicine and Introduction to Hyperbaric Medicine: A & B courses) in accordance with the regulations and standards of the German Society for Diving and Hyperbaric Medicine (Gesellschaft für Tauch- und Überdruckmedizin, GTÜM) at the Sauerstoff Therapiezentrum, Düsseldorf, Germany, 1999

Qualification as Specialist in Diving and Hyperbaric Medicine at the Gesellschaft für Tauch- und Überdruckmedizin (GTÜM e.V.), 2002

Qualification as Educator in the in the fields of diving and hyperbaric medicine (courses A,B,C and D) at the Gesellschaft für Tauch- und Überdruckmedizin, (GTÜM e.V.), 2002

Diving and Hyperbaric Medical Consultant from the Gesellschaft für Tauch- und Überdruckmedizin (GTÜM e.V.), 2007

PADI International & PADI Europe, "Industry Award 2007"

Hyperbaric Chamber Attendant & Chamber Operator Course, DAN-Europe, Sharm el-Sheikh, Egypt, September, 2010

Consultant for Diving and Hyperbaric Medicine from the Austrian Society for Underwater and Hyperbaric Medicine (ASUHM /ÖGUHM), 2011

Renewal after completion of all criteria for the Diving and Hyperbaric Medical Consultant Diploma from the Gesellschaft für Tauch- und Überdruckmedizin (GTÜM e.V.), January 2012

### III. WORK EXPERIENCE:

- |                       |   |
|-----------------------|---|
| <b>1993 – to date</b> | <b>Director, Hyperbaric Medical Center, Sharm el-Sheikh, South Sinai, Egypt.</b> The first Hyperbaric Medical Center in Egypt dedicated to the treatment of sport, recreational and technical diving accidents in Sharm el-Sheikh, South Sinai (inauguration: 10 <sup>th</sup> of March, 1993). |
| <b>1995 – to date</b> | <b>National &amp; Medical Director, Divers Alert Network DAN-Egypt</b> (affiliate of DAN-Europe)  |
| <b>2012</b>           | <b>Member of the Expert Committee in the European Committee for Hyperbaric Medicine (ECHM)</b> for the consensus conference on the "Organization Of a Clinical Hyperbaric Therapy Center and Related Health Management Issues", Belgrade, Serbia, 11th – 12th September, 2012                   |
| <b>2011</b>           | Honorary President of Sharm el-Sheikh Environmental & Development Organization (S.E.D.O.)   |
| <b>2010 – to date</b> | <b>C.E.O. and founding partner of Sharm Medical Group</b> , owner of <b>Sinai Clinic Hospital</b> , Sharm el-Sheikh, South Sinai, Egypt   |
| <b>2010</b>           | <b>Lecturer</b> on the first " <b>DAN- Chamber Attendant/ Chamber Operator Course</b> " in Egypt, jointly organized by DAN- South Africa, DAN-Egypt and DAN- Europe   |
| <b>2010</b>           | <b>Contributing Author</b> to a book published by DAN-Europe and PHYPODE project in 2014 titled: <b><i>The Science of Diving</i></b> ( <i>Things your instructor never told you</i> )   |

<b>2007</b>	<b>Chairman of the Organizing Committee and of the 33<sup>rd</sup> Annual Scientific Meeting of the European Underwater &amp; Baromedical Society (EUBS)</b> , held in Sharm el-Sheikh, 8 <sup>th</sup> - 15 <sup>th</sup> of September, 2007
<b>2006 – to date</b>	Chosen as a member of the <b>faculty to teach the Master's Degree Course, Level II, of the Scuola Superiore Sant' Anna of Pisa University (SSSA)</b>
<b>2006 – 2019</b>	<b>CEO and Medical Director of the Hyperbaric Medical Center and Sea Rescue, Dahab, South Sinai, Egypt</b>
<b>2005 - 2006</b>	<b>United Nations Consultant to the United Nations Development Program (UNDP) Project in Eritrea: Eritrean Coastal Marine and Island Biodiversity Project (ECMIB)</b> , evaluating diving medical facilities in Massawa and selecting and training medical staff, December, 2005 – January, 2006. <b>Eritrea</b>
<b>2000 – 2005</b>	Member of the <b>Expert Committee in the European Committee for Hyperbaric Medicine (ECHM)</b> for the consensus conference on <b>“Prevention of Dysbaric Injuries in Diving and Hyperbaric Work”</b> , Geneva, Switzerland
<b>2003 – 2005</b>	Member of the <b>“Blue Foundation Group”</b> comprising the <b>National Research Center (CNR) &amp; Apnoea Academy, Italy, Search &amp; Rescue (SAR), Egypt, and the Hyperbaric Medical Center, Sharm el-Sheikh, Egypt</b>
<b>2005</b>	<b>Chairman of the first Symposium on Underwater Research and Diving Medicine</b> , held in <b>Sharm el-Sheikh, May, 2005</b> organized by the <b>University of Pisa, the Hyperbaric Medical Center and the CNR</b>
<b>2001 -2002</b>	Selected by the <b>Organization for Diving and Hyperbaric Medicine</b> (Gesellschaft für Tauch-und Überdruckmedizin, GTÜM) as a <b>member of the Expert Committee</b> to formulate and write the <b>“<i>New Guidelines for the Management and Treatment of Diving Accidents</i>”</b> . These guidelines were discussed and adopted in the Murnau Conference in October, 2002 and are implemented throughout Europe. A jury reviews and updates them every three years.
<b>2002</b>	Appointed by Dr. Mohamed Saleh, Chairman of the <b>Technical Advisory Committee on Diving and Water Sports to the Ministry of Tourism</b> , as a member of the committee.

<b>2001</b>	<b>Member of the Board and Founding Member</b> of the South Sinai Association for Diving and Marine Activities (SSDM)
<b>1996</b>	<b>President, Rotary Club, Sharm el-Sheikh, Egypt</b>
<b>1995</b>	Founding Member and Member of the Board, <b>Rotary Club</b> , Sharm El Sheikh
<b>1995</b>	<b>Member</b> of the European Underwater and Baromedical Society (EUBS)
<b>1995</b>	Appointed member of the <b>Accident Committee, Egyptian Underwater Sports Federation (EUSF)</b> and representative for the South Sinai Governorate
<b>1994</b>	<b>Consultant to the Ministry of Tourism Task Force</b> to inspect and license dive centers in Egypt
<b>1994</b>	Tasked by the mayor and governor's representative to head the formation of the first <b>"Sea Rescue Center"</b> in South Sinai
<b>1987 – 1992</b>	Appointed by H.E. Frank Wisner, US Ambassador to Egypt, as the <b>Sinai Expert on the "Sinai Safety Committee"</b> , formed to negotiate and improve safety issues with the Egyptian government
<b>1992</b>	<b>Appointed by H.E. Fouad Sultan, Minister of Tourism and Civil Aviation, as a member of the Board of Trustees for the Hyperbaric Medical Center in Sharm el-Sheikh Project</b>
<b>1992</b>	<b>Appointed by H.E. Fouad Sultan as Director of the Hyperbaric Medical Center, Sharm el-Sheikh</b>
<b>1988</b>	Head of Cultural Committee of Cairo-Giza Roteract Club
<b>1983 – 1985</b>	<b>General Practitioner</b> , employed by the Egyptian Ministry of Health
<b>1982</b>	Consultant to the Offshore Division of the Hassan Fahmy Engineering Company
<b>1985 - 1987</b>	Posted as 1 <sup>st</sup> Lieutenant to <b>Maadi Military Hospital in Cairo</b> . This assignment included a two-year period of training and working as an anaesthesiologist. Responsibilities included General Management of the Hospital, Training of Personnel and Supply Management in addition to specific medical duties.
<b>1985 - 1986</b>	<b>Safety Officer</b> of the <b>Cairo Divers Club</b> (370 members)

<b>1986 - 1988</b>	<b>Safety Officer of the U.S. Embassy Aquatics Club</b>
<b>1984 – 1986</b>	<b>National Service in the Armed Forces</b> of the Arab Republic of Egypt, Medical Corps.
<b>1981</b>	<b>Founding Member</b> with Dr. Hani Wael Mansour Fahmy of the <b>Marine Activities Club</b> with Dr. Hamed Abdel Fattah Gohar as Honorary President
<b>1975</b>	<b>Member of Kiel University Research Diving Team</b> Marine Biology Department

#### **IV. DETAILED SCOPE OF WORK:**

**As director of both hyperbaric medical centers in Sharm el-Sheikh and Dahab,** my work involves the complete management of diving accidents. This includes an educational component, ensuring that dive professionals recognize the symptoms of a diving accident and are sufficiently qualified to administer adequate first aid and to report the accident in a correct manner. This is followed by the search and rescue (SAR) or other means of transportation, and then by definitive therapy at the hyperbaric medical center. At this point, it is crucial that the case is examined carefully, that the circumstances of the dive are analyzed meticulously, and that the previous medical history of the patient is studied thoroughly. This is necessary in order to detect the apparent and hidden factors that may have contributed to the accident and/or need to be known for the treatment to proceed. The next step involves testing the functionality of diving equipment and analyzing the content of the breathing gases or gas mixes. With the resulting differential diagnosis, a definitive diagnosis can be made, and the choice of the suitable treatment table and its execution follow. The observation and follow-up of the patient extends until they depart from our center (and sometimes continue for a number of years).

Additionally, all the technical and life support aspects, as well as the volumes of pressurized air and gas mixes need to be checked periodically, as well as prior to each treatment.

Furthermore, diving medical eligibility examinations are carried out at our center and in cooperation with Sinai Clinic Hospital on a daily basis. As the director of both Hyperbaric Medical Centers, in Sharm el-Sheikh and Dahab, I travel a lot between both: fortunately the distance is only 100 km.

In addition to the management of diving accidents, the scope of work in the hyperbaric medical centers also encompasses general practice work, pediatrics and traumatology to help the local Bedouin communities around Sharm el-Sheikh and

Dahab. This work is provided free of charge and falls under community service.

Generally speaking, we aim towards prevention rather than cure and have directed time and energy towards spreading dive safety and environmental awareness among dive professionals. Updating the medical knowledge of the team of

colleagues

and co-workers, suggesting chances for continued medical education and conferences, as well as encouraging research and discussing treated cases are routine practices.

The Hyperbaric Medical Center receives approximately 20 physicians and medical students from all over the globe, every year, spending periods between 4 to 12 weeks to learn more about diving medicine and the hands-on management of diving accidents.

The above described scope of work and previously held positions and work experience gave me an advisory role in the process of making laws regulating diving safety and setting standards for operation.

As a **National Director of DAN-Egypt**, my scope of work covers manning the 24 hours emergency hotline and consultations regarding all diving medical problems as well as liaison between members of DAN and headquarters and all the medical facilities in Egypt. The area of coverage for accidents extends beyond the borders of Egypt and covers the general Red Sea area and parts of the Middle East. DAN-Europe Research Department is in close contact with our recompression chambers and we help in many of the ongoing research projects. The DAN-Europe awareness and Oxygen First Aid courses and others are also propagated and taught through DAN-Egypt.

**European Committee for Hyperbaric Medicine (ECHM), corresponding member-medical at the European Diving Technology Committee (EDTC):** When called upon as experts, we are tasked to answer questions and research the related literature in order to help set new standards and change or upgrade existing ones in the fields of diving and hyperbaric medicine as well as technical and commercial diving. This work does not limit itself to the medical areas of expertise, but also includes practical field-work and the operational aspects of equipment and treatment centers and the required minimum training for personnel and their operational safety. The resulting recommendations from the consensus conferences held are binding to the European Union. The scope of work also covers the educational curricula for the medical courses that qualify physicians to become medical examiners, specialists and consultants in the fields of hyperbaric and diving

medicine. The work is reviewed, in adherence with the regulations, every 3 years or when a need arises and the “Expert” status can then be changed to become a member of the “Jury” to discuss the proposed amendments or changes and approve or reject them.

**Sharm Medical Group, Sinai Clinic Hospital** is a private general hospital offering services to the local and foreign expat community as well as tourists. The scope of work covers mainly the planning, supervision and direction as well as all the other duties of a CEO.

**Member of the Board of the Chamber of Diving and Watersports (CDWS)**

The regulating body created by the Ministry of Tourism to oversee the diving and water sports activities in Egypt. It studies and suggests and implements laws to assure the quality and safety. It has a body of auditors that examine all facilities according to the relevant ISO standards and that investigate any accidents occurring in the field.

**V. RESEARCH PROJECTS:**

**Physiopathology of decompression (PHYPODE) Project:** A project funded by the European Union under the Marie Curie Initial Training Networks Initiative. The Hyperbaric Center is a partner in the project.

**DAN-Europe Research:** The DAN Research Department investigates a multitude of decompression and pressure-related pathophysiological changes on human and animal models in order to make diving a safer practice. Egypt, being one of the busiest diving destinations and having the largest number of divers, is a significant contributor to these research efforts. The list below is taken from the DAN-Europe website ([www.daneurope.org](http://www.daneurope.org)) and indicates some of the aspects covered:

- Gathering data on and analyzing circulating gas bubbles.
- The economy of decompression: identification of the best ascent profile.
- Investigating the causes of unexplained diving incidents.
- Stress in recreational diving.
- PFO (Patent Foramen Ovale) and risk of DCI (Decompression Illness).
- Asthma, diabetes and diving.
- Physiology and pathophysiology of breath-hold in adults and children.
- Hypothermia and diving.
- Headache and diving.
- Diving and blood changes.
- Air travel after diving.
- Rebreather diving physiology.



- Decompression stress, endothelial stem cells and blood cells.
- Early decompression stress biomarkers.
- Normobaric oxygen and its effects on blood and in DCI first aid.

**Center of National Research (CNR), Italy:** Our Hyperbaric Medical Centers in Sharm el-Sheikh and Dahab are partners with the Italian Center of National Research and the University of Pisa, working in the field of “physiological changes in apnoea (breath hold) divers”. In May, 2005 we hosted the First Symposium on Underwater Research and Diving Medicine in Sharm el-Sheikh. The research included the first results of underwater echocardiography measurements taken in Sharm el-Sheikh with a newly developed housing and technology. A poster was presented at the 33<sup>rd</sup> EUBS scientific meeting in Sharm el-Sheikh in 2007 titled: **“Left Ventricular Diastolic Function Changes during Breath-Hold Diving in Humans.”**

**European Underwater & Baromedical Society (EUBS), 33<sup>rd</sup> Scientific Meeting in Sharm el-Sheikh, 2007:** A major demographic analysis of over 734 accidents from 1993 to 2006, presented and titled **” 734 Diving Accidents Treated in Sharm el-Sheikh Hyperbaric Medical Center from 1993 to 2006”** and discussed during the conference.

## VI. COURSES, AWARDS & CONFERENCES ATTENDED:

<b>2021</b>	<b>Awarded the Cross of the German Order of Merit by his excellency the President of the Federal Republic of Germany</b>
<b>2020</b>	<b>Co-authored a scientific paper titled 'Diving with Hypertension and Antihypertensive Drugs' published in Diving and Hyperbaric Medicine March, 2020</b>
<b>2018 - 2020</b>	<b>Member of the DMSC group of 8 Diving Medicine Experts that formulated the new 'Diver Medical' and the 'Guidelines for the Examining Physicians' that was recognized and adopted by the RSTC, UHMS and the WRSTC</b>
<b>2018</b>	<b>Invited Guest Speaker to the Tri-Continental Conference in Durban, South Africa</b>

- 2019** Inducted into the International Scuba Diving Hall of Fame (ISDHF) in the Cayman Islands for my career in Diving Medicine and diving. First Egyptian.
- 2018** Celebrating the 25<sup>th</sup> Anniversary of the Hyperbaric Medical Center, Sharm el Sheikh, organized a Symposium on Diving Medicine and a Workshop titled: Diving Accident Management in Remote Areas
- 2018** Principal lecturer, Capita Selecta Duikgeneeskunde, Decompression and Treatment Symposium, AMC in Amsterdam
- 2018** Lecturer, Wiesbaden, Druckkammernzentrum Rhein-Main-Taunus
- 2017** Mini Congress Diving Medicine, lecturer and co-organizer, Capita Selecta Duikgeneeskunde, Mersa Shagara, mersa Alam, Red Sea, Egypt
- 2017** Elected Member of the Board of the Chamber of Diving and Water Sports (CDWS), the body governing the diving activities and regulations and issuing the directives and ISO certification audits for diving centers in Egypt.
- 2016** Mini Congress Diving Medicine, lecturer, Capita Selecta Duikgeneeskunde, Volume 18, in Malta
- 2015** HELIOX Workshop, with Dr. Rob van Hulst, Lecturer, Akademisch Medisch Centrum, Amsterdam
- 2014** Notfallarzt Refresher (Emergency Physician Refresher Course), during "Diving Medical Examiner Course", EDTC I, Marsa Alam, Egypt
- 2014** Taucherarzt-Refresher (Diplom I & IIa) (Diving Medical Physician Refresher, Diplom I & IIa), OEGUHM/ASUHM
- 2013** Notfallarzt Refresher (Emergency Physician Refresher Course), during "Diving Medical Examiner Course", EDTC I, Marsa Alam, Egypt
- 2013** Taucherarzt-Refresher (Diplom I & IIa) (Diving Medical Physician Refresher, Diplom I & IIa), OEGUHM/ASUHM
- 2013** AMC Capita Selecta Duikeneeskunde, Academic Medical Center, Amsterdam, Netherlands (lecturer and participant)
- 2013** Atemwegsmanagement (airway management), Medizinische Hochschule Hannover, 26<sup>th</sup> of October, 2013

- 2012**                      **Notfallarzt Refresher (Emergency Physician Refresher Course)** organized by the **OEGUHM/ASUHM**, during “Diving Medical Examiner Course”, EDTC I, Hurghada, Egypt
- 2012**                      **38<sup>th</sup> Annual Scientific Meeting of the European Underwater and Baromedical Society (EUBS), September, 2012, Belgrade, Serbia** (guest speaker and participant)
- 2012**                      **Ärztchamber Kärnten, DAN-Tauchsicherheitstage**, (Medical Syndicate Kärnten, DAN- Diving Safety Days), September, 2012, Pörschach, Kärnten, Austria (guest speaker and participant)
- 2012**                      **Workshop of the physiopathology of decompression (PHYPODE) Project** in Partnership with **the Hyperbaric Medical Center**, Sharm el-Sheikh, Egypt (guest speaker and participant)
- 2012**                      **9<sup>th</sup> European Committee for Hyperbaric Medicine (ECHM) Consensus Conference “Organization of a Clinical Hyperbaric Therapy Centre and Related Health Management Issues”** (expert and participant)
- 2011**                      **37<sup>th</sup> Annual Scientific Meeting of the European Underwater and Baromedical Society (EUBS)**, August, 2011, Gdansk, Poland
- 2011**                      **Notarzt – Refresher (Emergency Physician – Refresher)**, November, 2011
- 2011**                      **HAUX-Life-Support Operator Training** for the recompression chamber manufactured and delivered to Sharm el-Sheikh: **HAUX – STARMED 2200/5, 5**
- 2009**                      **Ärztchamber Kärnten, DAN Tauchsicherheitstage**, (Medical Syndicate Kärnten, DAN- Diving Safety Days), September, 2009, Pörschach, **Kärnten, Austria** (guest speaker and participant)
- 2009**                      Seminar on “**Diving Accident Management in Remote Areas**”, arranged by Prof. Dr. Murat Egi, **University of Galatasray, Istanbul, Turkey** (guest speaker and participant)
- 2009**                      Course on **Hyperbaric and Tropical Medicine**, Gdynia, **Poland** (guest speaker and participant)
- 2009**                      **Annual Scientific Meeting of the European Underwater and Baromedical Society (EUBS) & the British Hyperbaric Association**, Aberdeen, August, 2009

- 2008**                      **Diplom-Fortbildungs-Programm (DFP), Emergency Physician Seminar, Sharm el-Sheikh, Egypt** (guest speaker and participant)
- 2008**                      German Diving- & Hyperbaric Medicine Society (**GTÜM**), Austrian Society for Diving- & Hyperbaric Medicine (**ÖGTH**) & Swiss Underwater and Hyperbaric Medical Society (**SUHMS**) joint congress on “**Tauchmedizin und HBO-Therapie**” (Diving Medicine and HBO-Therapy), April, 2008, Heidelberg, Germany (guest speaker and participant)
- 2008**                      **34<sup>th</sup> Annual Scientific Meeting of the European Underwater and Baromedical Society (EUBS), Graz, Austria**
- 2007**                      **33<sup>rd</sup> Annual Scientific Meeting of the European Underwater and Baromedical Society (EUBS), Sharm el-Sheikh, South Sinai, Egypt**
- Diplom-Fortbildungs-Programm (DFP), Emergency Physician Seminar, Sharm el-Sheikh, Egypt**
- 2006**                      **Ärztchammer Kärnten, DAN Tauchsicherheitstage**, (Medical Syndicate Kärnten, DAN- Diving Safety Days), Certificate of Attendance, May, 2006, Pörschach, Kernten, Austria
- 2006**                      **32<sup>nd</sup> Annual Scientific Meeting of the European Underwater and Baromedical Society (EUBS), Bergen, Norway**
- 2006**                      **Bayerische Landesärztekammer** (Bavarian Medical Syndicate), **Tauchmedizin-Kurs II, BG-Unfallklinik Murnau, Germany** (lecturer and participant)
- 2005**                      **DAN-Europe, International DAN Divers Day on Advances in Diving Medicine and Safety, Rome, Italy, September, 2005** (lecturer and participant)
- 2005**                      **Diplom-Fortbildungs-Programm (DFP), Emergency Physician Seminar, Sharm el-Sheikh, Egypt, October, 2005** (lecturer and participant)
- 2005**                      **National Center for Hyperbaric Medicine, Underwater Activity Commission PTK, The Association of Diving Club Doctors**, conference on “**Current Problems of Underwater and Hyperbaric Medicine**”, Gdynia, Poland, June, 2005 (guest speaker and participant)
- 2005**                      **10<sup>th</sup> Symposium: Tagung der Gesellschaft für Tauch- und Überdruckmedizin, Dresden, Germany**

- 2005** International Conference on Diving and Hyperbaric Medicine, XV International Congress of Hyperbaric Medicine (ICHM), 31<sup>st</sup> Annual Meeting of the European Underwater and Baromedical Society (EUBS), Barcelona, Spain
- 2004** DAN-Europe, Medical Oxygen Rebreather Instructor Trainer, June, 2004
- 2004** Diplom-Fortbildungs-Programm (DFP), “Sport- und tropenmedizinische Notfaelle” (Sport and tropical emergency cases), Sharm el-Sheikh, Egypt, October, 2004 (lecturer and participant)
- 2004** 30<sup>th</sup> Annual Scientific Meeting of the European Underwater and Baromedical Society (EUBS), Ajaccio, France
- 2003** 29<sup>th</sup> Annual Scientific Meeting of the European Underwater and Baromedical Society (EUBS), Copenhagen, Denmark
- 2002** Diplom-Fortbildungs-Programm (DFP), “Sport- und tropenmedizinische Notfaelle” (Sport and tropical emergency cases), Sharm el-Sheikh, Egypt, October, 2002 (lecturer and participant)
- 2002** 28<sup>th</sup> Annual Scientific Meeting of the European Underwater and Baromedical Society (EUBS), Brugge, Belgium (lecturer and participant)
- 2002** DAN-Europe, DAN Advanced Oxygen Instructor, Egypt, July, 2002 (lecturer and participant)
- 2001** 27<sup>th</sup> Annual Scientific Meeting of the European Underwater and Baromedical Society (EUBS), Hamburg, Germany
- 2000** 26<sup>th</sup> Annual Scientific Meeting of the European Underwater and Baromedical Society (EUBS), La Valetta, Malta
- 1999** Sauerstoff-Therapiezentrum Düsseldorf, “Tauchmedizin und Einführung in die Hyperbarmedizin”, Taucherarztkurs A & B; *Oxygen-Therapy Center Duesseldorf, „Diving Medicine and an Introduction to Hyperbaric Medicine“, Diving Medical Specialist A & B, Düsseldorf, Germany*
- 1999** 7<sup>tes</sup> Seminar für “Sport- und Tropenmedizinische Notfälle”, 7<sup>th</sup> Seminar for “sport and tropical- medical

*Emergencies”, Sharm el-Sheikh, Egypt (lecturer and participant)*

- 1998**                    **DAN-Europe, 1<sup>st</sup> DAN Safety Week, March, 1998, Sharm el-Sheikh, Egypt (lecturer and participant)**
- 1996**                    **DAN-Europe, DAN Oxygen First Aid Instructor Trainer**
- 1995**                    **Institut für Hyperbar- und Tauchmedizin, Lehrgang Hyperbar- und Tauchmedizin (C & D), *Institute for Hyperbaric and Diving Medicine, Courses (C & D), Ulm, Germany***
- 1992**                    **Received training in the USA at CACI Fed. Inc.Co., covering the operational aspects and safety of Hyperbaric Systems.**
- 1992**                    **Training in Key Largo, Florida, USA, at “Hyperbarics International”, in Recompression Therapy of Diving Accidents, Multi-place Chamber Operation and Safety, Treatment Gases and Gas Mixing, Life Support Systems and Bio-Medical Monitoring Systems use in Hyperbaric Environments.**
- 1992**                    **Received training in Columbia University, Richland Memorial Hospital, South Carolina, and finished courses in Hyperbaric Medicine.**  
**Credentialed as “Consulting Hyperbaric Physician”**
- 1992**                    **Duke University, Durham, North Carolina, F.G. Hall Laboratory training under tutelage of Prof. Dr. Peter Bennett (at the time there were no structured and sanctioned courses yet for Diving Medicine )**
- 1992**                    **DAN Oxygen First Aid Instructor Course**
- 1992**                    **DAN Oxygen First Aid Instructor-Trainer Course**
- 1992**                    **Nitrox Diving Instructor Course in Key Largo, Florida – first Egyptian Nitrox Instructor**
- 1992**                    **Trimix Diver Course, Key Largo, Florida**

## **VII. PAPERS AND ARTICLES PUBLISHED**

- 2015**                    **Loss of consciousness via oculocardiac reflex during deep breath-hold diving. A case report.** Published in May 2015, in the International Journal of Cardiology
- 2014**                    Contributor to the chapter on **Decompression Sickness – Controversies and Remote Management** in a book to

be published by the PHYPODE Project and DAN under the title: ***The Science of Diving***

- 2010** “Evaluation of Critical Flicker Fusion Frequency and Perceived Fatigue in Divers”, ***Diving and Hyperbaric Medicine Journal***, Vol. 40, No. 3 (Sept, 2010)
- 2009** **Physiopathology of Decompression (PHYPODE) Network, in *The Future of Diving: 100 Years of Haldane and Beyond***, (Smithsonian Institution Scholarly Press, 2009)
- 2007** **“734 Diving Accidents Treated in Sharm el-Sheikh Hyperbaric Medical Center from 1993 to 2006”**, Research presented during the 33<sup>rd</sup> Annual Scientific Meeting of the EUBS held in Sharm el-Sheikh
- “**The Technical Era, a case report**”, presented as a poster in the above mentioned EUBS conference.
- 2005 – 2011** Several publications in specialized magazines on diving medicine, technical diving and dive accident management in remote areas, including ***Undersea and Hyperbaric Medicine Journal, Alert Diver Magazine, and Octopus (Russian Technical Diving)***
- 2005** **Co-authored the scriptum for the “EDTC/ ECHM approved Courses I & II”** taught at the Murnau BG-UKM with German colleagues for Diving and Hyperbaric Medicine, in accordance with the ECHM/GTÜM guidelines.
- 2003** **“Do Personnel Inside Hyperbaric Chambers or Caissons Need Special Safety Procedures to Prevent Dysbaric Injury?”** in ***Swiss Undersea and Hyperbaric Medical Society (SUHMS) magazine***
- 2002** As a member of the “Expert Group” formed by the German GTÜM wrote and published the section concerned with **“The First Recompression Treatment Following a Diving Accident”** in the new guidelines for diving accident management. The **“Guidelines”** can be found on the websites of the **GTÜM ([www.gteum.org](http://www.gteum.org))**, the **ÖGTH ([www.oegth.org](http://www.oegth.org))**, and the **SUHMS ([www.suhms.org](http://www.suhms.org))**
- 2001** **“Diving accident management with special emphasis on the situation in the Red Sea”**, ***Wiener Medizinische Wochenschrift***, 151 (2001)

## **VIII. TEACHING EXPERIENCE**

- 2019** Inducted to the **International Scuba Diving Hall of Fame (ISDHF)**. **First Egyptian** to receive that honor, Grand Cayman Island
- 2017** **Mini Congress Diving Medicine, lecturer and co-organizer**, Capita Selecta Duikgeneeskunde, Mersa Shagara, mersa Alam, Red Sea, Egypt
- 2016** **Mini Congress Diving Medicine, lecturer**, Capita Selecta Duikgeneeskunde, Volume 18, in Malta
- 2015** **HELIOX Workshop, with Dr. Rob van Hulst**, Lecturer, Akademisch Medisch Centrum, Amsterdam
- 2014** **Notfallarzt Refresher (Emergency Physician Refresher Course)**, during “Diving Medical Examiner Course”, EDTC I, Marsa Alam, Egypt
- 2014** **Taucherarzt-Refresher (Diplom I & IIa)** (Diving Medical Physician Refresher, Diplom I & IIa), **OEGUHM/ASUHM**
- 2013** **Invited guest speaker, “Medizinische Hochschule Hannover”, 9. Symposium für Tauchmedizin** (9<sup>th</sup> symposium for diving medicine), University of Hannover, Germany
- 2013** Two **“Medical Examiner for Divers” Courses**, (EDTC/ECHM Course I), course director and lecturer, Red Sea, Egypt
- 2012** **Invited guest speaker, “Medizinische Hochschule Hannover,” 8. Symposium für Tauchmedizin** (8<sup>th</sup> symposium for diving medicine), University of Hannover, Germany
- 2012** Two **“Medical Examiner for Divers” Courses**, (EDTC/ECHM Course I), course director and lecturer, Red Sea, Egypt
- 2008 – 11** Organized and taught several **Diving Medical courses** for German, Austrian and Swiss physicians with colleagues from Germany, Austria and Switzerland, in my capacity as **Course Director**.
- 2009** **Course director and lecturer** in the first **EDTC/ECHM Course IIa** to be taught in Dahab, Egypt
- 2007** **Invited lecturer** to teach **Diving Medical Courses** in Murnau, BG- UKM, Germany



**Organized and lectured on the 33<sup>rd</sup> EUBS conference**  
in Sharm el-Sheikh, South Sinai, Egypt

- 2006**                      **Invited speaker to lecture in Gdynia and in Kalatovki in Poland** twice a year, during the conventions of the **Polish Diving Federation and the Diving and Tropical Medical Institute, 2006 & 2007**
- 2006**                      **Invited Speaker in the DAN- Sicherheitstage (DAN-Safety Days)** in Klagenfurt, Austria, 2006
- 2003 – 2005**              Taught five **“Diving- and Hyperbaric Medical Courses”** in Murnau BG-UKM-Germany in accordance with the GTÜM and ECHM guidelines
- 2005**                      **Invited speaker to lecture in Gdynia and in Kalatovki in Poland** twice a year during the conventions of the **Polish Diving Federation and the Diving and Tropical Medical Institute**
- 2004**                      **Lectured on “Diving Medicine and Marine Injuries”** on the sixth Austrian Diving Medical and Emergency Medicine Course in Sharm el-Sheikh
- 2004**                      **Invited lecturer** to Murnau BG-UKM, Germany lecturing on **“Diving Medicine and Diving Medical Accident Management in Remote Areas”, 2003-2004**
- 2001 - 2002**              **Courses C & D (now: EDTC II & IIa)** held in Sharm el-Sheikh for German-speaking physicians specializing in Diving Medicine. All the courses taught jointly with Prof. Dr. G. Ewert.
- 2002**                      **Special Guest Speaker on the Symposium : “Issues in Diving Medicine and Safety” – Brugge, Belgium**  
September 8, 2002
- 2002**                      Received the credentials to teach all the German Curricula for **DMAC/EDTC/ECHM Diving & Hyperbaric Medicine Courses (Diving Medical Educator)**
- 2002**                      Credentials awarded as a **“Diving Medical Specialist”** in accordance with the guidelines for the German Association GTÜM
- 2002**                      Organized the **5<sup>th</sup> Austrian Diving Medical and Emergency Medicine Course** in Sharm el-Sheikh for Austrian physicians
- 1999**                      Organized the **4<sup>th</sup> Austrian Diving Medical Course** in Sharm el-Sheikh, Egypt

- 1999**                      **National Academy of Scuba Educators (NASE) - First Aid Diver and CPR Instructor –Trainer**
- Lectured on the second round of **Austrian Diving Medical Courses** in Sharm el-Sheikh, taught jointly with Dr. Egelseer
- Organized and lectured on the first “**A, B & C Courses for Hyperbaric and Diving Medicine**” according to EDTC/ECHM standards in Sharm for sixty-two German physicians  
Course Director was Prof. Dr. Gerd Ewert
- 1998**                      Organized the third round of **Austrian Diving Medical Course** in Sharm el-Sheikh for Austrian physicians
- 1997**                      Held the **second Diving Medical Course** for German physicians in Sharm el-Sheikh jointly with Prof. Dr. Gerd Ewert. Twenty-six participants took part and successfully completed the course.
- 1995**                      Guest speaker and lecturer to the “**BOOT Show**”, **Federation of German Sport Divers (VDST) Conference** in Düsseldorf, Germany
- 1993 – to date**              Designed and started teaching diving professionals a “**Hyperbaric Chamber Tender Course**” to create a pool of volunteer and qualified tenders of different nationalities, assisting in accidents.  
From 1993 to date, over 230 tenders successfully attended the course.
- 1992**                      Helped organize and was the selected faculty member, lecturing in the “**21<sup>st</sup> DAN (Divers Alert Network) and Duke University Medical Center Course on Diving Accidents and Hyperbaric Oxygen Medicine**” held in Sharm el-Sheikh, South Sinai, Egypt
- 1987 - 1992**              **Cairo American College (CAC), Scuba Instructor**
- 1985**                      **PADI Master Scuba Diver Trainer (MSDT)**  
**Cairo-Maadi Community Services Association (C.S.A.), Scuba Instructor**
- 1983**                      **Professional Association of Diving Instructors (PADI)**  
**Open Water Scuba Instructor**, August, 83, the first Instructor Training Course (ITC) to be held by PADI in Egypt

## **IX. OTHER EDUCATIONAL/PROFESSIONAL ACTIVITIES:**

- 2001 – 2002** Elected Member to the Board (**Member at Large**) of the **EUBS** for a three-year term.
- 2002** Awarded a **lifetime honorary membership** to the **German Diving and Hyperbaric Medical Society (GTÜM)**.
- 1995 - 1998** Represented South Sinai and Egypt several times in the **World Travel Market (WTM)** in London as well as the **International Tourism Bursa (ITB)** in Berlin and the **BOOT Show** in Düsseldorf
- 1994** Lead the team that administered the **first Heliox treatment (COMEX CX 30)** in Egypt with great success, in the “Hyperbaric Medical Center”, Sharm el-Sheikh, Egypt
- 1993 – to date** The Hyperbaric Medical Center in Sharm el-Sheikh has been an attraction to the media since its existence in 1993. It was also extensively used in marketing the destination all over the world. Many televised interviews as well as articles were broadcast and printed in many countries.

## **X. REFERENCES:**

**Prof. Dr. Alessandro Marroni, M.D.**

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