



*Dive Pirates Foundation*

70 W Thymewood Place, The Woodlands, TX 77382, 832-212-1967  
A Texas Non-Profit Corporation EIN 20-2464393  
[www.divepirates.org](http://www.divepirates.org)

Dear Prospective Student:

You are reading this today because we would like to invite you to learn to SCUBA dive and join our Adaptive Diver program. If you are a veteran, we thank you for your service to our country. SCUBA diving is an adventure and a joy that you can experience for the rest of your life.

Dive Pirates was started as a fun social club for divers and then transformed itself into a charitable foundation to train, equip and take people like you diving in the Caribbean. We raise funds through memberships ([www.divepirates.org](http://www.divepirates.org)) and a special fundraiser event each year, the Pirates Ball. As a non-profit organization, we attract corporate and personal donations for our cause because our donors want to contribute to the disabled and to someone that has sacrificed for our country. We want to show our appreciation through this program.

In order to qualify for SCUBA diving, you must pass a medical qualification that all divers must pass. The form and instruction for your physician, if necessary, are included in this packet. The medical issues we are concerned about include cardio-respiratory health and the taking of prescribed drugs. You may still be able to dive with these medical conditions, but you must have your physician sign the form releasing you before we can begin classes.

If you are on active duty, there may be restrictions on your travel outside the United States. Because of these restrictions, we can train you, but we cannot plan Caribbean Travel for you until you are discharged or these restrictions are lifted. You must also have a valid US Passport to travel.

If you would like to join our program, please fill out the application form and medical form and send it via mail or fax to:

Dive Pirates Foundation  
70 W Thymewood Place  
The Woodlands, TX 77382  
832-212-1967

Fax 281-465-0560

We will then send you your educational materials and contact you to set up your training schedule. You will be required to attend a minimum of 3 pool sessions, read the educational materials, and pass a written test. We can then start to plan your Caribbean trip where you will take and pass a 2-day open water certification dive to complete your training program. Our next trip is planned for June 20-27, 2009 on Cayman Brac, Cayman Islands.

We will supply all of the equipment for training through our foundation. All we ask of you is your enthusiasm and dedication to the training. We may also ask you to help us with fundraiser events from time to time, your schedule permitting.

Please call 877-393-3483 and ask for Theresa Cortez if you have any questions. We all look forward to meeting you and starting you on your next adventure.

Sincerely,

**Dive Pirates Foundation**

Barbara L. Thompson, President

Attachments:

Adaptive Diver Application  
Diving Medical Form  
Diving Medical Information

**Dive Pirates Foundation  
Adaptive Student Application Form**



**Personal**

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_

Zip \_\_\_\_\_

email \_\_\_\_\_

Contact Phone Number \_\_\_\_\_

**Background**

Member of the Armed  
Forces? \_\_\_\_\_

If yes, when do you expect  
Discharge? \_\_\_\_\_

What was your final rank? \_\_\_\_\_

**Medical**

Type of Injury  
(Above/Below Knee or  
Elbow, Spinal Cord, etc.) \_\_\_\_\_

Have you completed the  
Medical Form? \_\_\_\_\_

If Necessary, did you  
obtain a Physicians  
Release Signature? \_\_\_\_\_

**Sizing for Equipment**

Height \_\_\_\_\_

Weight \_\_\_\_\_

Shoe Size \_\_\_\_\_

If amputation, what limb(s) \_\_\_\_\_



SCUBA SCHOOLS INTERNATIONAL

# Medical Statement

PARTICIPANT RECORD — CONFIDENTIAL INFORMATION

*Please read carefully before signing.*

This is a statement in which you are informed of some potential risks involved in scuba diving and of the conduct required of you during the scuba training program. Your signature on this statement is required for you to participate in the scuba training program offered by:

(INSTRUCTOR) \_\_\_\_\_  
and (FACILITY) \_\_\_\_\_  
located in the city of \_\_\_\_\_  
and state of \_\_\_\_\_.

Read and discuss this statement prior to signing it. You must complete this Medical Statement, which includes the medical-history section, to enroll in the scuba training program. If you are a minor, you must have this Statement signed by a parent.

Diving is an exciting and demanding activity. When performed correctly, applying correct techniques, it is very safe. When established safety procedures are not followed, however, there are dangers.

To scuba dive safely, you must not be extremely overweight or out of condition. Diving can be strenuous under certain conditions. Your respiratory and circulatory systems must be in good health. All body air spaces must be normal and healthy. A person with heart trouble, a current cold or congestion, epilepsy, asthma, a severe medical problem, or who is under the influence of alcohol or drugs should not dive. If taking medication, consult your doctor and the Instructor before participation in this program. You will also need to learn from the Instructor the important safety rules regarding breathing and equalization while scuba diving. Improper use of scuba equipment can result in serious injury. You must be thoroughly instructed in its use under direct supervision of a qualified Instructor to use it safely.

If you have any additional questions regarding this Medical Statement or the Medical History section, review them with your Instructor before signing.

## Medical History

### To the Participant:

The purpose of this medical questionnaire is to find out if you should be examined by your doctor before participating in recreational diver training. A positive response to a question does not necessarily disqualify you from diving. A positive response means that there is a pre-existing condition that may affect your safety while diving and you must seek the advice of your physician.

Please answer the following questions on your past or present medical history with a **YES** or **NO**. If you are not sure, answer **YES**. If any of these items apply to you, we must request that you consult with a physician prior to participating in scuba diving. Your Instructor will supply you with a medical statement and guidelines for recreational scuba diver's physical examination to take to your physician.

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> Could you be pregnant, or are you attempting to become pregnant?  | <input type="checkbox"/> Any form of lung disease?  | <input type="checkbox"/> Head injury with loss of consciousness in the past five years?                |
| <input type="checkbox"/> Are you presently taking prescription medications? (with the exception of birth control or anti-malarial) | <input type="checkbox"/> Pneumothorax (collapsed lung)?   | <input type="checkbox"/> Recurrent back problems?  |
| <input type="checkbox"/> Are you over 45 years of age and can answer YES to one or more of the following?                          | <input type="checkbox"/> Other chest disease or chest surgery?  | <input type="checkbox"/> Back or spinal surgery?   |
| <input type="checkbox"/> currently smoke a pipe, cigars, or cigarettes   | <input type="checkbox"/> Behavioral health, mental or psychological problems (panic attack, fear of closed or open spaces)? | <input type="checkbox"/> Diabetes?   |
| <input type="checkbox"/> have a high cholesterol level   | <input type="checkbox"/> Epilepsy, seizures, convulsions or take medications to prevent them?                               | <input type="checkbox"/> Back, arm or leg problems following surgery, injury or fracture?              |
| <input type="checkbox"/> have a family history of heart attacks or strokes   | <input type="checkbox"/> Recurring migraine headaches or take medications to prevent them?                                  | <input type="checkbox"/> High blood pressure or take medication to control blood pressure?             |
| <input type="checkbox"/> are currently receiving medical care  | <input type="checkbox"/> Blackouts or fainting (full/partial loss of consciousness)?  | <input type="checkbox"/> Heart disease?  |
| <input type="checkbox"/> high blood pressure   | <input type="checkbox"/> Frequent or severe suffering from motion sickness (seasick, carsick, etc.)?                        | <input type="checkbox"/> Heart attack?   |
| <input type="checkbox"/> diabetes mellitus, even if controlled by diet alone   | <input type="checkbox"/> Dysentery or dehydration requiring medical intervention?   | <input type="checkbox"/> Angina, heart surgery or blood vessel surgery?                                |
|  | <input type="checkbox"/> Any dive accidents or decompression sickness?  | <input type="checkbox"/> Sinus surgery?  |
|  | <input type="checkbox"/> Inability to perform moderate exercise (example: walk 1.6 km/one mile within 12 mins.)?            | <input type="checkbox"/> Ear disease or surgery, hearing loss or problems with balance?                |
|  |   | <input type="checkbox"/> Recurrent ear problems?   |
|  |   | <input type="checkbox"/> Bleeding or other blood disorders?  |
|  |   | <input type="checkbox"/> Hernia?   |
|  |   | <input type="checkbox"/> Ulcers or ulcer surgery?  |
|  |   | <input type="checkbox"/> A colostomy or ileostomy?   |
|  |   | <input type="checkbox"/> Recreational drug use or treatment for, or alcoholism in the past five years? |

### HAVE YOU EVER HAD OR DO YOU CURRENTLY HAVE...

- Asthma, or wheezing with breathing, or wheezing with exercise?
- Frequent or severe attacks of hayfever or allergy?
- Frequent colds, sinusitis or bronchitis?

**The information I have provided about my medical history is accurate to the best of my knowledge. I agree to accept responsibility for omissions regarding my failure to disclose any existing or past health condition.**

SIGNATURE \_\_\_\_\_

DATE \_\_\_\_\_

SIGNATURES OF PARENTS OR GUARDIANS WHERE APPLICABLE \_\_\_\_\_

DATE \_\_\_\_\_

# Student

(Please print legibly)

Name \_\_\_\_\_ Birth Date \_\_\_\_\_ Age \_\_\_\_\_  
First Initial Last

Mailing Address \_\_\_\_\_  
\_\_\_\_\_

City \_\_\_\_\_ State/Province \_\_\_\_\_

Country \_\_\_\_\_ Zip/Postal Code \_\_\_\_\_

Home Phone ( ) \_\_\_\_\_ Business Phone ( ) \_\_\_\_\_

Telex \_\_\_\_\_ FAX \_\_\_\_\_

## Name and address of your family or primary care physician:

Physician \_\_\_\_\_ Clinic/Hospital \_\_\_\_\_

Address \_\_\_\_\_ Phone ( ) \_\_\_\_\_

Date of last physical examination \_\_\_\_\_

Name of examiner \_\_\_\_\_ Clinic/Hospital \_\_\_\_\_

Address \_\_\_\_\_ Phone ( ) \_\_\_\_\_

Were you ever required to have a physical for diving?  Yes  No If so, when? \_\_\_\_\_

# Physician

This person is an applicant for training or is presently certified to engage in scuba (self contained underwater breathing apparatus) diving. Your opinion of the applicant's medical fitness for scuba diving is requested. Please review Guidelines for Recreational Scuba Diver's Physical Examination.

## Physician's Impression:

I find no medical conditions that I consider incompatible with diving.

I am unable to recommend this individual for diving.

Remarks \_\_\_\_\_

*I have reviewed Guidelines for Recreational Scuba Diver's Physical Examination.*

\_\_\_\_\_, M.D. Date \_\_\_\_\_  
Physician's Signature

Physician \_\_\_\_\_ Clinic/Hospital \_\_\_\_\_

Address \_\_\_\_\_ Phone ( ) \_\_\_\_\_

The inner ear is fluid filled and therefore noncompressible. The flexible interfaces between the middle and inner ear, the round and oval windows are, however, subject to pressure changes. Previously ruptured but healed round or oval window membranes are at increased risk of rupture due to failure to equalize pressure or due to marked overpressurization during vigorous or explosive Valsalva maneuvers.

The larynx and pharynx must be free of an obstruction to airflow. The laryngeal and epiglottic structure must function normally to prevent aspiration.

Mandibular and maxillary function must be capable of allowing the patient to hold a scuba mouthpiece. Individuals who have had mid-face fractures may be prone to barotrauma and rupture of the air filled cavities involved.

**Relative Risk Conditions:**

- Recurrent otitis externa
- Significant obstruction of external auditory canal
- History of significant cold injury to pinna
- Eustachian tube dysfunction
- Recurrent otitis media or sinusitis
- History of TM perforation
- History of tympanoplasty
- History of mastoidectomy
- Significant conductive or sensorineural hearing impairment
- Facial nerve paralysis not associated with barotrauma
- Full prosthodontic devices
- History of mid-face fracture
- Unhealed oral surgery sites
- History of head and/or neck therapeutic radiation
- History of temporomandibular joint dysfunction
- History of round window rupture

**Severe Risk Conditions:**

- Monomeric TM
- Open TM perforation
- Tube myringotomy
- History of stapedectomy
- History of ossicular chain surgery
- History of inner ear surgery
- Facial nerve paralysis secondary to barotrauma
- Inner ear disease other than presbycusis
- Uncorrected upper airway obstruction
- Laryngectomy or status post partial laryngectomy
- Tracheostomy
- Uncorrected laryngocele
- History of vestibular decompression sickness

**BIBLIOGRAPHY**

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10. Undersea and Hyperbaric Medical Society (UHMS) [www.UHMS.org](http://www.UHMS.org)
11. Divers Alert Network (DAN) United States, 6 West Colony Place, Durham, NC [www.DiversAlertNetwork.org](http://www.DiversAlertNetwork.org)
12. Divers Alert Network Europe, P.O. Box 64026 Roseto, Italy, telephone non-emergency line: weekdays office hours+39-085-893-0333, emergency line 24 hours: +39-039-605-7858
13. Divers Alert Network S.E.A.P., P.O. Box 384, Ashburton, Australia, telephone 61-3-9886-9166
14. Divers Emergency Service, Australia, [www.rah.sa.gov.au/hyperbaric](http://www.rah.sa.gov.au/hyperbaric), telephone 61-8-8212-9242
15. South Pacific Underwater Medicine Society (SPUMS), P.O. Box 190, Red Hill South, Victoria, Australia, [www.spums.org.au](http://www.spums.org.au)
16. European Underwater and Baromedical Society, [www.eubs.org](http://www.eubs.org)

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SCUBA SCHOOLS INTERNATIONAL

## Guidelines for

# RECREATIONAL SCUBA DIVER'S PHYSICAL EXAMINATION

### *Instructions to the Physician:*

Recreational scuba (self contained underwater breathing apparatus) can provide recreational divers with an enjoyable sport safer than many other activities. The risk of diving is increased by certain physical conditions, which the relationship to diving may not be readily obvious. Thus, it is important to screen divers for such conditions.

The Recreational Scuba Diver's Physical Examination focuses on conditions that may put a diver at increased risk for decompression sickness, pulmonary overinflation syndrome with subsequent arterial gas embolization and other conditions such as loss of consciousness, which could lead to drowning. Additionally, the diver must be able to withstand some degree of cold stress, the physiological effects of immersion and the optical effects of water and have sufficient physical and mental reserves to deal with possible emergencies.

The history, review of systems and physical examination should include, as a minimum, the points listed below. The list of conditions that might adversely affect the diver is not all-inclusive, but contains the most commonly encountered medical problems. The brief introductions should serve as an alert to the nature of the risk posed by each medical problem.

The potential diver and his or her physician must weigh the pleasures to be had by diving against an increased risk of death or injury due to the individual's medical condition. As with any recreational activity, there are no data for diving enabling the calculation of an accurate mathematical probability of injury. Experience and physiological principles only permit a qualitative assessment of relative risk.

For the purposes of this document, Severe Risk implies that an individual is believed to be at substantially elevated risk of decompression sickness, pulmonary or otic barotrauma or altered consciousness with subsequent drowning, compared with the general population. The consultants involved in drafting this document would generally discourage a student with such medical problems from diving. Relative Risk refers to a moderate increase in risk, which in some instances may be acceptable. To make a decision as to whether diving is contraindicated for this category of medical problems, physicians must base their judgement on an assessment of the individual patient. Some medical problems which may preclude diving are temporary in nature or responsive to treatment, allowing the student to dive safely after they have resolved.

Diagnostic studies and specialty consultations should be obtained as indicated to determine the diver's status. A list of references is included to aid in clarifying issues that arise. Physicians and other medical professionals of the Divers Alert Network (DAN) associated with Duke University Health System are available for consultation by phone (919) 684-2948 during normal business hours. For emergency calls, 24 hours, 7 days a week, call (919) 684-8111 or (919) 684-4DAN (collect). Related organizations exist in other parts of the world – DAN Europe in Italy +39 039 605 7858, DAN S.E.A.P. in Australia +61 3 9886 9166 and Divers Emergency Service (DES) in Australia +61-8-8212-9242, DAN Japan +81-33590-6501 and DAN Southern Africa +27-11-242-0380. There are also a number of informative websites offering similar advice.

## NEUROLOGICAL

Neurological abnormalities affecting a diver's ability to perform exercise should be assessed according to the degree of compromise. Some diving physicians feel that conditions in which there can be a waxing and waning of neurological symptoms and signs, such as migraine or demyelinating disease, contraindicate diving because an exacerbation or attack of the preexisting disease (e.g.: a migraine with aura) may be difficult to distinguish from neurological decompression sickness. A history of head injury resulting in unconsciousness should be evaluated for risk of seizure.

### *Relative Risk Conditions:*

- **Complicated Migraine Headaches whose symptoms or severity impair motor or cognitive function, neurologic manifestations**
- **History of Head Injury with sequelae other than seizure**
- **Herniated Nucleus Pulposus**
- **Peripheral Neuropathy**
- **Multiple Sclerosis**
- **Trigeminal Neuralgia**
- **History of spinal cord or brain injury**

**Temporary Risk Conditions:** History of cerebral gas embolism without residual where pulmonary air trapping has been excluded and for which there is a satisfactory explanation and some reason to believe that the probability of recurrence is low.

**Severe Risk Conditions:** Any abnormalities where there is a significant probability of unconsciousness, hence putting the diver at increased risk of drowning. Divers with spinal cord or brain abnormalities where perfusion is impaired may be at increased risk of decompression sickness.

### *Some conditions are as follows:*

- **History of seizures other than childhood febrile seizures**
- **History of Transient Ischemic Attack (TIA) or Cerebrovascular Accident (CVA)**
- **History of Serious (Central Nervous System, Cerebral or Inner Ear) Decompression Sickness with residual deficits**

## CARDIOVASCULAR SYSTEMS

**Relative Risk Conditions:** The diagnoses listed below potentially render the diver unable to meet the exertional performance requirements likely to be encountered in recreational diving. These conditions may lead the diver to experience cardiac ischemia and its consequences. Formalized stress testing is encouraged if there is any doubt regarding physical performance capability. The suggested minimum criteria for stress testing in such cases is 13 METS.\* Failure to meet the exercise criteria would be of significant concern. Conditioning and retesting may make later qualification possible. Immersion in water causes a redistribution of blood from the periphery into the central compartment, an effect that is greatest in cold water. The

marked increase in cardiac preload during immersion can precipitate pulmonary edema in patients with impaired left ventricular function or significant valvular disease. The effects of immersion can mostly be gauged by an assessment of the diver's performance while swimming on the surface. A large proportion of scuba diving deaths in North America are due to coronary artery disease. Before being approved to scuba dive, individuals older than 40 years are recommended to undergo risk assessment for coronary artery disease. Formal exercise testing may be needed to assess the risk.

\* METS is a term used to describe the metabolic cost. The MET at rest times the resting level, and so on. The resting energy cost (net oxygen requirement) is thus standardized. (Exercise Physiology; Clark, Prentice Hall, 1975.)

#### **Relative Risk Conditions:**

- **History of Coronary Artery Bypass Grafting (CABG)**
- **Percutaneous Balloon Angioplasty (PCTA) or Coronary Artery Disease (CAD)**
- **History of Myocardial Infarction**
- **Congestive Heart Failure**
- **Hypertension**
- **History of dysrhythmias requiring medication for suppression**
- **Valvular Regurgitation**
- **Pacemakers** — The pathologic process that necessitated should be addressed regarding the diver's fitness to dive. In those instances where the problem necessitating pacing does not preclude diving, will the diver be able to meet the performance criteria?

\* **NOTE:** Pacemakers must be certified by the manufacturer as able to withstand the pressure changes involved in recreational diving.

**Severe Risks:** Venous emboli, commonly produced during decompression, may cross major intracardiac right-to-left shunts and enter the cerebral or spinal cord circulations causing neurological decompression illness. Hypertrophic cardiomyopathy and valvular stenosis may lead to the sudden onset of unconsciousness during exercise.

## **PULMONARY**

Any process or lesion that impedes airflow from the lung places the diver at risk for pulmonary overinflation with alveolar rupture and the possibility of cerebral air embolization. Asthma (reactive airway disease), Chronic Obstructive Pulmonary Disease (COPD), cystic or cavitating lung diseases may all cause air trapping. The 1996 Undersea and Hyperbaric Medical Society (UHMS) consensus on diving and asthma indicates that for the risk of pulmonary barotrauma and decompression illness to be acceptably low, the asthmatic diver should be asymptomatic and have normal spirometry before and after an exercise test. Inhalation challenge tests (e.g.: using histamine, hypertonic saline or methacholine) are not sufficiently standardized to be interpreted in the context of scuba diving.

A pneumothorax that occurs or reoccurs while diving may be catastrophic. As the diver ascends, air trapped in the cavity expands and could produce a tension pneumothorax.

In addition to the risk of pulmonary barotrauma, respiratory disease due to either structural disorders of the lung or chest wall or neuromuscular disease may impair exercise performance. Structural disorders of the chest or abdominal wall (e.g.: prune belly), or neuromuscular disorders, may impair cough, which could be life threatening if water is aspirated. Respiratory limitation due to disease is compounded by the combined effects of immersion (causing a restrictive deficit) and the increase in gas density which increases in proportion to the ambient pressure (causing increased airway resistance). Formal exercise testing may be helpful.

#### **Relative Risk Conditions:**

- **History of Asthma or Reactive Airway Disease (RAD)\***
- **History of Exercise Induced Bronchospasm (EIB)\***
- **History of solid, cystic or cavitating lesion\***
- **Pneumothorax secondary to:**
  - Thoracic Surgery
  - Trauma or Pleural Penetration\*
  - Previous Overinflation Injury\*
- **Obesity**
- **History of Immersion Pulmonary Edema Restrictive Disease\***
- **Interstitial lung disease: May increase the risk of pneumothorax**

\* Spirometry should be normal before and after exercise

Active Reactive Airway Disease, Active Asthma, Exercise Induced Bronchospasm, Chronic Obstructive Pulmonary Disease or history of same with abnormal PFTs or a positive exercise challenge are concerns for diving.

## **GASTROINTESTINAL**

**Temporary Risk:** As with other organ systems and disease states, a process which chronically debilitates the diver may impair exercise performance. Additionally, dive activities may take place in areas remote from medical care. The possibility of acute recurrences of disability or lethal symptoms must be considered.

#### **Temporary Risk Conditions:**

- **Peptic Ulcer Disease associated with pyloric obstruction or severe reflux**
- **Unrepaired hernias of the abdominal wall large enough to contain bowel within the hernia sac could incarcerate.**

#### **Relative Risk Conditions:**

- **Inflammatory Bowel Disease**
- **Functional Bowel Disorders**

**Severe Risks:** Altered anatomical relationships secondary to surgery or malformations that lead to gas trapping may cause serious problems. Gas trapped in a hollow viscous expands as the divers surfaces and can lead to rupture or, in the case of the upper GI tract, emesis. Emesis underwater may lead to drowning.

**Severe Risk Conditions:**

- Gastric outlet obstruction of a degree sufficient to produce recurrent vomiting
- Chronic or recurrent small bowel obstruction
- Severe gastroesophageal reflux
- Achalasia
- Paraesophageal Hernia

## ORTHOPEDIC

Relative impairment of mobility, particularly in a boat or ashore with equipment weighing up to 18 kgs/40 pounds must be assessed. Orthopaedic conditions of a degree sufficient to impair exercise performance may increase the risk.

**Relative Risk Conditions:**

- Amputation
- Scoliosis must also assess impact on respiratory function and exercise performance.
- Aseptic Necrosis possible risk of progression due to effects of decompression (evaluate the underlying medical cause of decompression may accelerate/escalate the progression).

**Temporary Risk Conditions:**

- Back pain

## HEMATOLOGICAL

Abnormalities resulting in altered rheological properties may theoretically increase the risk of decompression sickness. Bleeding disorders could worsen the effects of otic or sinus barotrauma, and exacerbate the injury associated with inner ear or spinal cord decompression sickness. Spontaneous bleeding into the joints (e.g.: in hemophilia) may be difficult to distinguish from decompression illness.

**Relative Risk Conditions:**

- Sickle cell trait
- Polycythemia Vera
- Leukemia
- Hemophilia/Impaired Coagulation

## METABOLIC AND ENDOCRINOLOGICAL

With the exception of diabetes mellitus, states of altered hormonal or metabolic function should be assessed according to their impact on the individual's ability to tolerate the moderate exercise requirement and environmental stress of sport diving. Obesity may predispose the individual to decompression sickness, can impair exercise tolerance and is a risk factor for coronary artery disease.

**Relative Risk Conditions:**

- Hormonal excess or deficiency
- Obesity
- Renal insufficiency

**Severe Risk Conditions:** The potentially rapid change in level of consciousness associated with hypoglycemia in diabetics on insulin therapy or certain oral hypoglycemia medications can result in drowning. Diving is therefore generally contraindicated, unless associated with a specialized program that addresses these issues.

**Pregnancy:** The effect of venous emboli formed during decompression on the fetus has not been thoroughly investigated. Diving is therefore not recommended during any stage of pregnancy or for women actively seeking to become pregnant.

## BEHAVIORAL HEALTH

**Behavioral:** The diver's mental capacity and emotional make-up are important to safe diving. The student diver must have sufficient learning abilities to grasp information presented to him by his instructors, be able to safely plan and execute his own dives and react to changes around him in the underwater environment. The student's motivation to learn and his ability to deal with potentially dangerous situations is also crucial to safe scuba diving.

**Relative Risk Conditions:**

- Developmental delay
- History of drug or alcohol abuse
- History of previous psychotic episodes
- Use of psychotropic medications

**Severe Risk Conditions::**

- Inappropriate motivation to dive — solely to please spouse, partner or family member, to prove oneself in the face of personal fears
- Claustrophobia and agoraphobia
- Active psychosis
- History of untreated panic disorder
- Drug or alcohol abuse

## OTOLARYNGOLOGICAL

Equalization of pressure must take place during ascent and descent between ambient water pressure and the external auditory canal, middle ear and paranasal sinuses. Failure of this to occur results at least in pain and in the worst case rupture of the occluded space with disabling and possible lethal consequences.