DIVING MEDICAL HISTORY FORM

(To be completed by applicant-diver **before** medical exam and reviewed by examining clinician.)

Name		Sex	Age	Wt	Ht
Sponsor_	Date		D.O.B.		
(Dept./Project/Program/School, et	c.)				

To the Applicant:

Scuba diving places considerable physical and mental demands on the diver. Certain medical and physical requirements must be met before beginning a diving or training program. Your accurate answers to the questions are more important, in many instances, in determining your fitness to dive than what the clinician may see, hear or feel as part of the diving medical certification procedure.

This form shall be kept confidential by the examining clinician. If you believe any question amounts to invasion of your privacy, you may elect to omit an answer, provided that you shall subsequently discuss that matter with your own clinician who must then indicate, in writing, that you have done so and that no health hazard exists.

Should your answers indicate a condition, which might make diving hazardous, you will be asked to review the matter with your clinician. In such instances, their written authorization will be required in order for further consideration to be given to your application. If your clinician concludes that diving would involve undue risk for you, remember that they are concerned only with your well-being and safety.

	Yes	No	Please indicate whether or not the following apply to you	Comments
1			Convulsions, seizures, or epilepsy	
2			Fainting spells or dizziness	
3			Been addicted to drugs	
4			Diabetes	
5			Motion sickness or sea/air sickness	
6			Claustrophobia	
7			Mental disorder or nervous breakdown	
8			Are you pregnant?	
9			Do you suffer from menstrual problems?	
10			Anxiety spells or hyperventilation	
11			Frequent sour stomachs, nervous stomachs or vomiting spells	
12			Had a major operation	
13			Presently being treated by a physician	
14			Taking any medication regularly (even non-prescription)	
15			Been rejected or restricted from sports	
16			Headaches (frequent and severe)	
17			Wear dental plates	

	Yes	No	Please indicate whether or not the following apply to you	Comments
18			Wear glasses or contact lenses	
19			Bleeding disorders	
20			Alcoholism	
21			Any problems related to diving	
22			Nervous tension or emotional problems	
23			Take tranquilizers	
24			Perforated ear drums	
25			Hay fever	
26			Frequent sinus trouble, frequent drainage from the nose, post-nasal drip, or stuffy nose	
27			Frequent earaches	
28			Drainage from the ears	
29			Difficulty with your ears in airplanes or on mountains	
30			Ear surgery	
31			Ringing in your ears	
32			Frequent dizzy spells	
33			Hearing problems	
34			Trouble equalizing pressure in your ears	
35			Asthma	
36			Wheezing attacks	
37			Cough (chronic or recurrent)	
38			Frequently raise sputum	
39			Pleurisy	
40			Collapsed lung (pneumothorax)	
41			Lung cysts	
42			Pneumonia	
43			Tuberculosis	

	Yes	No	Please indicate whether or not the following apply to you	Comments
44			Shortness of breath	
45			Lung problem or abnormality	
46			Spit blood	
47			Breathing difficulty after eating particular foods, after exposure to particular pollens or animals	
48			Are you subject to bronchitis	
49			Subcutaneous emphysema (air under the skin)	
50			Air embolism after diving	
51			Decompression sickness	
52			Rheumatic fever	
53			Scarlet fever	
54			Heart murmur	
55			Large heart	
56			High blood pressure	
57			Angina (heart pains or pressure in the chest)	
58			Heart attack	
59			Low blood pressure	
60			Recurrent or persistent swelling of the legs	
61			Pounding, rapid heartbeat or palpitations	
62			Easily fatigued or short of breath	
63			Abnormal EKG	
64			Joint problems, dislocations or arthritis	
65			Back trouble or back injuries	
66			Ruptured or slipped disk	
67			Limiting physical handicaps	
68			Muscle cramps	
69			Varicose veins	

	Yes	No	Please indicate whether or not the following apply to you	Comments
70			Amputations	
71			Head injury causing unconsciousness	
72			Paralysis	
73			Have you ever had an adverse reaction to medication?	
74			Do you smoke?	
75			Have you ever had any other medical problems not listed? If so, please list or describe below;	
76			Is there a family history of high cholesterol?	
77			Is there a family history of heart disease or stroke?	
78			Is there a family history of diabetes?	
79			Is there a family history of asthma?	
80			Date of last tetanus shot? Vaccination dates?	

		Vacci	nation dates?						
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———	expian	many yes ar		bove questions.	•				
I certif	y that t	the above answ	wers and inforn	nation represen	nt an accurate	and complete de	escription of my	medical history.	
Signatı	ure					Date			

DIVING MEDICAL EXAM OVERVIEW FOR THE EXAMINING CLINICIAN

TO THE EXAMINING CLINICIAN:

This person requires a medical examination to assess their fitness for certification as a Scientific Diver for the University of Maryland, College Park. Their answers on the Diving Medical History Form (attached) may indicate potential health or safety risks as noted. Your evaluation is requested on the attached scuba Diving Fitness Medical Evaluation Report. If you have questions about diving medicine, you may wish to consult one of the references on the attached list or contact one of the physicians with expertise in diving medicine whose names and phone numbers appear on an attached list, the Undersea Hyperbaric and Medical Society, or the Divers Alert Network. Please contact UM's Diving Safety Officer if you have any questions or concerns about the University of Maryland's standards for scientific diving. Thank you for your assistance.

Diving Safety Officer: William Sarro; wsarro@umd.edu; phone: 301-405-3960

Scuba and other modes of compressed-gas diving can be strenuous and hazardous. A special risk is present if the middle ear, sinuses, or lung segments do not readily equalize air pressure changes. The most common cause of distress is Eustachian insufficiency. Recent deaths in the scientific diving community have been attributed to cardiovascular disease. Please consult the following list of conditions that usually restrict candidates from diving. (Adapted from Bove, 1998: bracketed numbers are pages in Bove)

CONDITIONS WHICH MAY DISQUALIFY CANDIDATES FROM DIVING

- 1. Abnormalities of the tympanic membrane, such as perforation, presence of a monomeric membrane, or inability to autoinflate the middle ears. [5, 7, 8, 9]
- 2. Vertigo, including Meniere's Disease. [13]
- 3. Stapedectomy or middle ear reconstructive surgery. [11]
- 4. Recent ocular surgery. [15, 18, 19]
- 5. Psychiatric disorders including claustrophobia, suicidal ideation, psychosis, anxiety states, untreated depression. [20 23]
- 6. Substance abuse, including alcohol. [24 25]
- 7. Episodic loss of consciousness. [1, 26, 27]
- 8. History of seizure. [27, 28]
- 9. History of stroke or a fixed neurological deficit. [29, 30]
- 10. Recurring neurologic disorders, including transient ischemic attacks. [29, 30]
- 11. History of intracranial aneurysm, other vascular malformation or intracranial hemorrhage. [31]
- 12. History of neurological decompression illness with residual deficit. [29, 30]
- 13. Head injury with sequelae. [26, 27]
- 14. Hematologic disorders including coagulopathies. [41, 42]
- 15. Evidence of coronary artery disease or high risk for coronary artery disease. [33 35]
- 16. Atrial septal defects. [39]
- 17. Significant valvular heart disease isolated mitral valve prolapse is not disqualifying. [38]
- 18. Significant cardiac rhythm or conduction abnormalities. [36 37]
- 19. Implanted cardiac pacemakers and cardiac defibrillators (ICD). [39, 40]
- 20. Inadequate exercise tolerance. [34]
- 21. Severe hypertension. [35]
- 22. History of spontaneous or traumatic pneumothorax. [45]
- 23. Asthma. [42 44]
- 24. Chronic pulmonary disease, including radiographic evidence of pulmonary blebs, bullae, or cysts. [45,46]
- 25. Diabetes mellitus. [46 47]
- 26. Pregnancy. [56]

SELECTED REFERENCES IN DIVING MEDICINE

Available from Best Publishing Company, P.O. Box 30100, Flagstaff, AZ 86003-0100, the Divers Alert Network (DAN) or the Undersea and Hyperbaric Medical Society (UHMS), Durham, NC

- Elliott, D.H. ed. 1996. *Are Asthmatics Fit to Dive?* Kensington, MD: Undersea and Hyperbaric Medical Society.
- Bove, A.A. 2011. The cardiovascular system and diving risk. *Undersea and Hyperbaric Medicine* 38(4): 261-269
- Thompson, P.D. 2011. The cardiovascular risks of diving. *Undersea and Hyperbaric Medicine* 38(4): 271-277.
- Douglas, P.S. 2011. Cardiovascular screening in asymptomatic adults: Lessons for the diving world. *Undersea and Hyperbaric Medicine* 38(4): 279-287.
- Mitchell, S.J., and A.A. Bove. 2011. Medical screening of recreational divers for cardiovascular disease: Consensus discussion at the Divers Alert Network Fatality Workshop. *Undersea and Hyperbaric Medicine* 38(4): 289-296.
- Grundy, S.M., Pasternak, R., Greenland, P., Smith, S., and Fuster, V. 1999. Assessment of Cardiovascular Risk by Use of Multiple-Risk-Factor Assessment Equations. AHA/ACC Scientific Statement. *Journal of the American College of Cardiology*, 34: 1348-1359. http://content.onlinejacc.org/cgi/content/short/34/4/1348
- Bove, A.A. and Davis, J. 2003. DIVING MEDICINE, Fourth Edition. Philadelphia: W.B. Saunders Company.
- Edmonds, C., Lowry, C., Pennefather, J. and Walker, R. 2002. DIVING AND SUBAQUATIC MEDICINE, Fourth Edition. London: Hodder Arnold Publishers.
- Bove, A.A. ed. 1998. MEDICAL EXAMINATION OF SPORT SCUBA DIVERS, San Antonio, TX: Medical Seminars, Inc.
- NOAA DIVING MANUAL, NOAA. Superintendent of Documents. Washington, DC: U.S. Government Printing Office.
- U.S. NAVY DIVING MANUAL. Superintendent of Documents, Washington, DC: U.S. Government Printing Office, Washington, D.C.

MEDICAL EVALUATION OF FITNESS FOR SCUBA DIVING REPORT

Name of Applicant (Print or Type)	Date of Medical Evaluation (Month/Day/Year)
engage in scuba diving. Their answers on the Diving Medic noted. Scuba diving is an activity that puts unusual stress on medical fitness is requested on this Medical Evaluation Forr of cardiovascular and respiratory disease. An absolute requequalize pressure. Any condition that risks the loss of con-	odic scuba diving medical examinations to assess their fitness to all History Form may indicate potential health or safety risks as the individual in several ways. Your opinion on the applicant's n. Scuba diving requires heavy exertion. The diver must be free tirement is the ability of the lungs, middle ears and sinuses to asciousness should disqualify the applicant. Please proceed in f you have questions about diving medicine, please consult with twork.
TESTS: THE FOLLOWING TESTS ARE $\underline{\textbf{REQUIRED}}$:	
UNDER AGE 40: Medical historyComplete physical exam, with emphasis on aUrinalysisAny further tests deemed necessary by the classical example.	
ADDITIONAL TESTS FOR AGE 40 AND OVER: Chest x-ray (Required only during first examResting EKGAssessment of coronary artery disease using (age, lipid profile, blood pressure, diabetic screening Note: Exercise stress testing may be indicated based	Multiple-Risk-Factor Assessment ¹ ng, smoking)
CLINICIAN'S STATEMENT:	
01 Diver IS medically qualified to dive for:	2 years (over age 60)3 years (age 40-59)5 years (under age 40)
02 Diver IS NOT medically qualified to dive:	PermanentlyTemporarily.
standards and required tests for scientific diving (Sec. 6.00 a that may be disqualifying for participation in scuba diving.	g to the American Academy of Underwater Sciences medical and Appendix 1) and, in my opinion, find no medical conditions I have discussed with the patient any medical condition(s) that riously compromise subsequent health. The patient understands a these conditions.
Signature	MD or DO
	Date
Name (Print or Type)	
Address	
Telephone Number E-Mail	Address
My familiarity with applicant is:This exam only	Regular physician for years
My familiarity with diving medicine is:	

	MEDICAL EVALUATION OF FITNESS FOR SCUBA DIVING REPORT
	APPLICANT'S RELEASE OF MEDICAL INFORMATION FORM
Jame of Ann	licant (Print or Type)
ине от Арр	incant (Finit or Type)
authorize th	e release of this information and all medical information subsequently acquired in association with
iving to the	UM Diving Safety Officer and Diving Control Board or their designee at the University of Maryland,

¹Grundy, S.M., Pasternak, R., Greenland, P., Smith, S., and Fuster, V. 1999. Assessment of Cardiovascular Risk by Use of Multiple-Risk-Factor Assessment Equations. AHA/ACC Scientific Statement. *Journal of the American College of Cardiology*, 34: 1348-1359. http://content.onlinejacc.org/cgi/content/short/34/4/1348

Clinician's Remarks: