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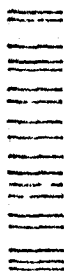


Bethesda, MD 20889-5607

NMRI 93-03

January 1993

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HUMAN CENTRAL NERVOUS SYSTEM OXYGEN TOXICITY DATA
FROM 1945 TO 1986

A. L. Harabin

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Naval Medical Research
and Development Command
Bethesda, Maryland 20889-5606

Department of the Navy
Naval Medical Command
Washington, DC 20372-5210

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TECHNICAL REVIEW AND APPROVAL NMRI 93-03

The experiments reported herein were conducted according to the principles set forth in the current edition of the "Guide for the Care and Use of Laboratory Animals," Institute of Laboratory Animal Resources, National Research Council.

This technical report has been reviewed by the NMRI scientific and public affairs staff and is approved for publication. It is releasable to the National Technical Information Service where it will be available to the general public, including foreign nations.

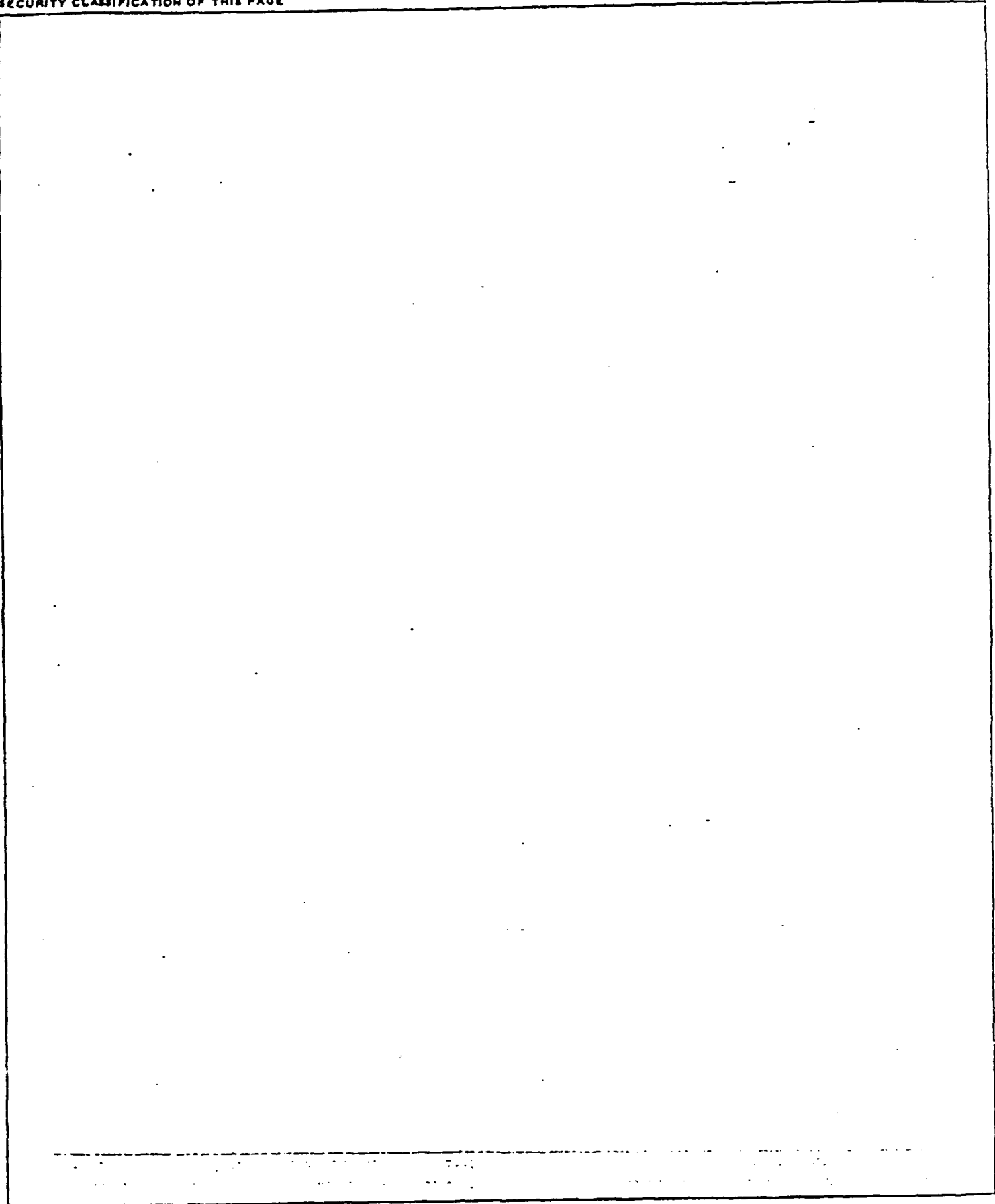
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INTRODUCTION

This report contains a summary and raw data of all known controlled human exposures to hyperbaric O₂. The data were collected for analysis and development of predictive models relating the risk of developing a symptom of central nervous system O₂ toxicity to exposure depth, duration and condition. Data were obtained from publications, technical reports and verified by original records and log books. A total of 2,170 exposures, at depths ranging from 12 feet of sea water (fsw) to 100 fsw for up to 240 min are included. The data consist of exposure time, depth, fraction inspired O₂, temperature, whether or not subjects exercised, whether they were immersed in water or exposed in a dry chamber, and outcome of the exposure, i.e., whether a symptom developed or the exposure was completed safely. Studies conducted under the following conditions were found: dry, no exercise; dry, exercise; immersed, no exercise; immersed, exercise; the final category was divided into old (before 1972) and new.

Data were obtained from 14 separate studies and divided into 20 files. An exact literature citation introduces each file. When published summaries were supplemented by original notebooks and logs this is also noted.. When there were differences in detail, the results from the primary references were used.

Data Format

Each 2 line entry contains the results of 1 human exposure.

The first line describes the conditions and outcome of the exposure and the second line describes the exposure profile.

First data line: contains 7 entries with the following significance:

1. Outcome: safe (0), exposure-stopping symptom (1), symptom reported, exposure completed (0.5)
2. Wet (1)/ Dry (0)
3. Exposure temperature ($^{\circ}$ F)
4. not used
5. Exercise level (none (0), some (1-3))
6. not used
7. Fraction inspired oxygen

Second data line:

$t_1, d_1, t_2, d_2, \dots, t_n, d_n, 0, 0, t_{s1}, s_1, t_{s2}, s_2, \dots, t_{sn}, s_n$

where t_n is time (min), d_n is depth (feet of sea water) of the nth portion of multi-depth exposure; t_{sn} is time of nth symptom, s_n is nature of nth symptom; n can be 1 for single depth, single symptom exposures.

Symptom type (s_n) was coded as follows:

1. nausea
2. irritability, dyspnea, sleepiness or dysphoria
3. headache
4. numbness, tingling
5. dizziness, vertigo
6. twitch
7. hearing disturbance

8. visual disturbance
9. unconsciousness, aphasia
10. convulsion

Table 1 is a summary of the data set.

TABLE 1			
DATA SET	DEPTH (fsw)	TIMES (min)	Ndat
Dry, No Exercise (Old)			
Yarbrough, 1947	100, 80, 60	120-40	76
Donald, 1947	90, 60	100	42
Behnke, 1935	99, 66, 33	180-45	9
White, 1945	100	60	17
Dry, Exercise (Old)			
Young, 1971	47-20	29-52	431
Hayter and White, 1946	62	43-180	13
Immersed, No Exercise (Old)			
Donald, 1945	103-28	57-120	399
Yarbrough, 1947	100, 80, 60	20-120	220
Immersed, Exercise (Old)			
Donald, 1945	53-28	80-120	161
Schaefer, 1949	40, 30, 20	1.5-75	49
Lanphier, 1954	50-20	15-113	56
Alexander, 1971	13	240	9
Immersed, Exercise (New)			
Piantadosi, 1979	25	240	12
Schwartz, 1984	30	90-220	18
Butler, 1984, 1986	50-20	5-240	658
			2170

DRY, NO EXERCISE (OLD)

Citation: Yarbrough, O.D., W. Welham, E.S. Brinton, and A.R. Behnke. Symptoms of O₂ poisoning and limits of tolerance at rest and at work. Naval Experimental Diving Unit Research Report 01-47, Washington, D.C.: Naval Experimental Diving Unit, 1947 + Original records.

0, 0, 85, 0, 0, 0, .9,
119, 60, 0,0,

0, 0, 85, 0, 0, 0, .9,
60, 60, 0,0,

0, 0, 85, 0, 0, 0, .9,
129, 60, 0,0,

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121, 60, 0,0,

0, 0, 85, 0, 0, 0, .9,
120, 50, 0,0,

0, 0, 85, 0, 0, 0, .9,
119, 60, 0,0,

0, 0, 85, 0, 0, 0, .9,
120, 60, 0,0,

0, 0, 85, 0, 0, 0, .9,
129, 60, 0,0,

0, 0, 85, 0, 0, 0, .9,
120, 60, 0,0,

0, 0, 85, 0, 0, 0, .9,
120, 60, 0,0,

0, 0, 85, 0, 0, 0, .9,
120, 60, 0,0,

0, 0, 85, 0, 0, 0, .9,
121, 60, 0,0,

0, 0, 85, 0, 0, 0, .9,
129, 60, 0,0,

0, 0, 85, 0, 0, 0, .9,
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 31, 80, 0,0,

1, 0, 85, 0, 0, 0, .9,
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 28, 80, 0,0, 28,5

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 10, 80, 0,0, 10,8, 10,5, 10,1

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 72, 80, 0,0, 72,7, 72,4, 72,1

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Citation: Donald, K.W. Variation in the O₂ tolerance of human subjects in the wet and in the dry. O₂ Poisoning in Man. Admiralty Experimental Diving Unit Technical Report No. 16. HMS Vernon, Portsmouth, UK, 1946.

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Citation: Behnke, A.R., F.S. Johnson, J.R. Poppen, E.P. Motley.
 The effect of oxygen on man at pressures from 1 to 4
 atmospheres. J. Physiol. 110: 562-572, 1935.

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Citation: White, W.A. O₂ Poisoning in Man. Effect of cystein hydrochloride and ammonium chloride on the time of onset of toxic symptoms. Naval Medical Research Institute Technical Report No. 1, Bethesda, MD: Naval Medical Research Institute, 1945.

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32, 100, 0,0, 32, 5,

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1, 0, 75, 2, 2, 0, .9,
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16, 62, 0,0, 16, 6,

1, 0, 75, 2, 2, 0, .9,
18, 62, 0,0, 18, 6,

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0.0,	0, 80,	0, 2,	0, .84,	
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43, 32,	0, 0,		12,	6,	43,	6,		
1.0,	0, 83,	0,	2,	0, .84,				
40, 32,	0, 0,		11,	6,	17,	6,	25,	5,
1.0,	0, 85,	0,	2,	0, .84,				
40, 32,	0, 0,		7,	4,				
0.0,	0, 82,	0,	2,	0, .84,				
40, 32,	0, 0,							

1.0,	0, 83,	0,	2, 0,	.84,		
44, 32,	0, 0,		4, 6,		44,	6,
0.5,	0, 80,	0,	2, 0,	.84,		
43, 32,	0, 0,		40, 6,			
1.0,	0, 84,	0,	2, 0,	.84,		
46, 32,	0, 0,		8, 6,		46,	6,
1.0,	0, 82,	0,	2, 0,	.84,		
40, 32,	0, 0,		25, 6,		31,	6,
0.0,	0, 83,	0,	2, 0,	.84,		
40, 32,	0, 0,					
0.0,	0, 84,	0,	2, 0,	.84,		
40, 32,	0, 0,					
0.0,	0, 83,	0,	2, 0,	.84,		
40, 32,	0, 0,					
1.0,	0, 83,	0,	2, 62,	.84,		
45, 32,	0, 0,		10, 6,		45,	6,
1.0,	0, 84,	0,	2, 0,	.84,		
45, 32,	0, 0,		2, 6,		45,	6,
1.0,	0, 84,	0,	2, 0,	.84,		
40, 32,	0, 0,		40, 6,			
0.0,	0, 83,	0,	2, 0,	.84,		
40, 32,	0, 0,					
1.0,	0, 82,	0,	2, 0,	.84,		
43, 32,	0, 0,		3, 6,		44,	6,
					18,	5,
1.0,	0, 83,	0,	2, 0,	.84,		
43, 32,	0, 0,		4, 6,		43,	6,
1.0,	0, 77,	0,	2, 0,	.84,		
48, 32,	0, 0,		6, 6,		48,	6,
1.0,	0, 84,	0,	2, 0,	.84,		
43, 32,	0, 0,		4, 6,		43,	6,
0.0,	0, 80,	0,	2, 0,	.84,		
40, 32,	0, 0,					
1.0,	0, 84,	0,	2, 0,	.84,		
40, 32,	0, 0,		2, 6,		42,	6,

1.0,	0, 85,	0,	2,	0, .84,		
42, 32,	0, 0,		7,	6,	13,	6,
1.0,	0, 84,	0,	2,	0, .84,		
43, 32,	0, 0,		2,	6,	43,	6,
1.0,	0, 84,	0,	2,	0, .84,		
35, 32,	0, 0,		2,	6,	35,	6,
1.0,	0, 84,	0,	2,	0, .84,		
40, 32,	0, 0,		40,	6,		
0.0,	0, 82,	0,	2,	0, .84,		
40, 32,	0, 0,					
1.0,	0, 83,	0,	2,	0, .84,		
42, 32,	0, 0,		4,	6,	27,	6,
1.0,	0, 80,	0,	2,	0, .84,		
43, 32,	0, 0,		39,	1,		
0.0,	0, 77,	0,	2,	0, .84,		
40, 35,	0, 0,					
0.0,	0, 82,	0,	2,	0, .84,		
41, 35,	0, 0,					
1.0,	0, 83,	0,	2,	0, .84,		
43, 35,	0, 0,		5,	6,	43,	6,
0.0,	0, 83,	0,	2,	0, .84,		
49, 35,	0, 0,					
1.0,	0, 84,	0,	2,	0, .84,		
40, 35,	0, 0,		40,	1,		
1.0,	0, 85,	0,	2,	0, .84,		
41, 35,	0, 0,		28,	5,	41,	5,
0.0,	0, 78,	0,	2,	0, .84,		
41, 35,	0, 0,					
1.0,	0, 76,	0,	2,	0, .84,		
43, 35,	0, 0,		6,	6,	43,	6,
0.0,	0, 84,	0,	2,	0, .84,		
40, 35,	0, 0,					
0.0,	0, 82,	0,	2,	0, .84,		
45, 35,	0, 0,					

1.0,	0, 85,	0, 2,	0, .84,		
45, 35,	0, 0,	2, 6,	45, 6,	41, 1,	
0.0,	0, 84,	0, 2,	0, .84,		
40, 35,	0, 0,				
1.0,	0, 78,	0, 2,	0, .84,		
46, 35,	0, 0,	29, 6,	46, 6,		
1.0,	0, 83,	0, 2,	0, .84,		
47, 35,	0, 0,	7, 6,	47, 6,		
1.0,	0, 77,	0, 2,	0, .84,		
42, 35,	0, 0,	10, 6,	42, 6,		
1.0,	0, 83,	0, 2,	0, .84,		
49, 35,	0, 0,	31, 6,	49, 6,		
1.0,	0, 79,	0, 2,	0, .84,		
45, 35,	0, 0,	5, 6,	45, 6,		
1.0,	0, 82,	0, 2,	0, .84,		
41, 35,	0, 0,	5, 6,	41, 6,		
1.0,	0, 83,	0, 2,	0, .84,		
42, 35,	0, 0,	3, 6,	42, 6,		
1.0,	0, 82,	0, 2,	0, .84,		
44, 35,	0, 0,	5, 6,	41, 6,	38, 2,	
0.0,	0, 80,	0, 2,	62, .84,		
41, 35,	0, 0,				
1.0,	0, 82,	0, 2,	0, .84,		
45, 35,	0, 0,	9, 6,	45, 6,		
0.5,	0, 83,	0, 2,	0, .84,		
40, 35,	0, 0,	14, 6,			
0.0,	0, 79,	0, 2,	0, .84,		
46, 35,	0, 0,				
1.0,	0, 76,	0, 2,	0, .84,		
40, 35,	0, 0,	15, 6,	17, 6,		
1.0,	0, 83,	0, 2,	0, .84,		
42, 35,	0, 0,	17, 6,	42, 6,		
0.0,	0, 84,	0, 2,	0, .84,		
40, 35,	0, 0,				

0.0, 0, 77, 0, 2, 0, .84,
 46, 35, 0, 0,

1.0, 0, 79, 0, 2, 0, .84,
 43, 35, 0, 0, 3, 6, 41, 6,

1.0, 0, 79, 0, 2, 0, .84,
 43, 35, 0, 0, 5, 6, 41, 6,

0.5, 0, 78, 0, 2, 0, .84,
 46, 35, 0, 0, 46, 6,

0.0, 0, 83, 0, 2, 0, .84,
 40, 35, 0, 0,

1.0, 0, 82, 0, 2, 0, .84,
 45, 35, 0, 0, 2, 6, 41, 6,

1.0, 0, 82, 0, 2, 0, .84,
 41, 35, 0, 0, 39, 1,

0.0, 0, 80, 0, 2, 0, .84,
 41, 35, 0, 0,

1.0, 0, 84, 0, 2, 0, .84,
 44, 35, 0, 0, 5, 6, 44, 6,

1.0, 0, 78, 0, 2, 0, .84,
 41, 35, 0, 0, 3, 4, 41, 4,

0.0, 0, 77, 0, 2, 0, .84,
 40, 35, 0, 0,

0.5, 0, 83, 0, 2, 0, .84,
 40, 35, 0, 0, 14, 6,

0.0, 0, 84, 0, 2, 0, .84,
 40, 35, 0, 0,

1.0, 0, 82, 0, 2, 0, .84,
 40, 35, 0, 0, 5, 6, 6, 6,

0.0, 0, 83, 0, 2, 0, .84,
 40, 35, 0, 0,

0.0, 0, 79, 0, 2, 0, .84,
 43, 38, 0, 0,

0.0, 0, 83, 0, 2, 0, .84,
 45, 38, 0, 0,

1.0,	0, 80,	0,	2, 0,	.84,	
41, 38,	0, 0,		20, 6,		41, 6,
0.0,	0, 82,	0,	2, 0,	.84,	
42, 38,	0, 0,				
0.5,	0, 83,	0,	2, 0,	.84,	
41, 38,	0, 0,		41, 6,		
0.5,	0, 79,	0,	2, 0,	.84,	
43, 38,	0, 0,		42, 6,		
0.0,	0, 80,	0,	2, 0,	.84,	
41, 38,	0, 0,				
0.0,	0, 83,	0,	2, 0,	.84,	
44, 38,	0, 0,				
1.0,	0, 82,	0,	2, 0,	.84,	
45, 38,	0, 0,		4, 6,		45, 6,
1.0,	0, 83,	0,	2, 0,	.84,	
45, 38,	0, 0,		11, 6,		45, 6,
1.0,	0, 83,	0,	2, 0,	.84,	
45, 38,	0, 0,		45, 1,		
1.0,	0, 83,	0,	2, 0,	.84,	
45, 38,	0, 0,		8, 6,		45, 6,
0.0,	0, 83,	0,	2, 0,	.84,	
43, 38,	0, 0,				
1.0,	0, 80,	0,	2, 0,	.84,	
43, 38,	0, 0,		10, 6,		43, 6,
1.0,	0, 82,	0,	2, 0,	.84,	
42, 38,	0, 0,		16, 6,		26, 6,
1.0,	0, 77,	0,	2, 0,	.84,	
45, 38,	0, 0,		10, 6,		21, 6,
1.0,	0, 83,	0,	2, 0,	.84,	
45, 38,	0, 0,		14, 6,		45, 6,
0.0,	0, 83,	0,	2, 0,	.84,	
41, 38,	0, 0,				
0.0,	0, 79,	0,	2, 0,	.84,	
40, 38,	0, 0,				

1.0,	0, 82,	0,	2,	0, .84,			
45, 38,	0, 0,		3,	6,	45,	6,	
0.0,	0, 83,	0,	2,	0, .84,			
41, 38,	0, 0,						
1.0,	0, 83,	0,	2,	0, .84,			
45, 38,	0, 0,		27,	6,	30,	6,	
1.0,	0, 80,	0,	2,	0, .84,			
46, 38,	0, 0,		15,	5,	23,	5,	22, 6, 46, 6,
0.0,	0, 82,	0,	2,	0, .84,			
44, 38,	0, 0,						
1.0,	0, 80,	0,	2,	0, .84,			
43, 38,	0, 0,		27,	6,	43,	9,	
0.0,	0, 80,	0,	2,	0, .84,			
43, 38,	0, 0,						
1.0,	0, 82,	0,	2,	0, .84,			
45, 38,	0, 0,		30,	6,	45,	6,	
1.0,	0, 83,	0,	2,	0, .84,			
44, 38,	0, 0,		7,	6,	43,	6,	
1.0,	0, 83,	0,	2,	0, .84,			
45, 38,	0, 0,		12,	6,	45,	6,	
1.0,	0, 80,	0,	2,	0, .84,			
39, 38,	0, 0,		39,	1,	39,	9,	26, 6,
0.0,	0, 77,	0,	2,	0, .84,			
45, 38,	0, 0,						
1.0,	0, 80,	0,	2,	0, .84,			
43, 38,	0, 0,		8,	6,	27,	6,	35, 1, 40, 1,
1.0,	0, 79,	0,	2,	0, .84,			
40, 38,	0, 0,		7,	6,	27,	5,	32, 5, 40, 1,
0.0,	0, 82,	0,	2,	0, .84,			
45, 38,	0, 0,						
1.0,	0, 83,	0,	2,	0, .84,			
45, 38,	0, 0,		3,	6,	45,	6,	
1.0,	0, 82,	0,	2,	0, .84,			
43, 38,	0, 0,		3,	6,	43,	6,	

1.0,	0, 83,	0,	2,	0,	.84,		
45, 38,	0, 0,		15,	6,		45,	6,
0.0,	0, 80,	0,	2,	0,	.84,		
41, 38,	0, 0,						
1.0,	0, 81,	0,	2,	0,	.84,		
41, 38,	0, 0,		20,	6,			
0.0,	0, 83,	0,	2,	0,	.84,		
45, 38,	0, 0,						
0.5,	0, 82,	0,	2,	0,	.84,		
44, 38,	0, 0,		6,	5,			
1.0,	0, 80,	0,	2,	0,	.84,		
41, 38,	0, 0,		17,	6,		41,	6,
0.0,	0, 78,	0,	2,	0,	.84,		
41, 41,	0, 0,						
1.0,	0, 80,	0,	2,	0,	.84,		
45, 41,	0, 0,		17,	6,		45,	6,
0.0,	0, 81,	0,	2,	0,	.84,		
41, 41,	0, 0,						
1.0,	0, 80,	0,	2,	0,	.84,		
41, 41,	0, 0,		17,	6,		41,	6,
1.0,	0, 83,	0,	2,	0,	.84,		
43, 41,	0, 0,		23,	1,		37,	5,
0.0,	0, 83,	0,	2,	0,	.84,		
41, 41,	0, 0,						
1.0,	0, 82,	0,	2,	0,	.84,		
45, 41,	0, 0,		12,	6,		45,	6,
1.0,	0, 84,	0,	2,	0,	.84,		
42, 41,	0, 0,		40,	5,			
0.0,	0, 80,	0,	2,	0,	.84,		
50, 41,	0, 0,						
0.0,	0, 80,	0,	2,	0,	.84,		
43, 41,	0, 0,						
1.0,	0, 78,	0,	2,	0,	.84,		
44, 41,	0, 0,		8,	6,		44,	6,

1.0,	0, 79,	0,	2,	0, .84,		
41, 41,	0, 0,		29,	5,	41,	5,
0.0,	0, 75,	0,	2,	0, .84,		
41, 41,	0, 0,					
1.0,	0, 82,	0,	2,	0, .84,		
45, 41,	0, 0,		10,	6,	45,	6,
1.0,	0, 80,	0,	2,	0, .84,		
43, 41,	0, 0,		19,	6,	43,	6,
1.0,	0, 84,	0,	2,	0, .84,		
41, 41,	0, 0,		29,	2,	41,	2,
1.0,	0, 83,	0,	2,	0, .84,		
46, 41,	0, 0,		31,	6,	43,	6,
1.0,	0, 83,	0,	2,	0, .84,		
41, 41,	0, 0,		30,	1,	41,	6,
1.0,	0, 78,	0,	2,	0, .84,		
40, 41,	0, 0,		32,	5,		
1.0,	0, 82,	0,	2,	0, .84,		
45, 41,	0, 0,		10,	6,	45,	6,
1.0,	0, 82,	0,	2,	0, .84,		
50, 41,	0, 0,		20,	6,	46,	6,
1.0,	0, 80,	0,	2,	0, .84,		
50, 41,	0, 0,		12,	6,	29,	6,
0.0,	0, 79,	0,	2,	0, .84,		
41, 41,	0, 0,					
1.0,	0, 82,	0,	2,	0, .84,		
49, 41,	0, 0,		32,	6,	42,	6,
0.0,	0, 79,	0,	2,	0, .84,		
44, 41,	0, 0,					
0.0,	0, 79,	2,	0,	0, .84,		
41, 41,	0, 0,					
1.0,	0, 78,	0,	2,	0, .84,		
44, 41,	0, 0,		6,	6,	14, 16,	44, 1,
1.0,	0, 78,	0,	2,	0, .84,		
42, 41,	0, 0,		4,	6,	42,	6,

1.0,	0, 83,	0,	2,	0,	.84,		
41, 41,	0,	0,	16,	6,			
0.0,	0, 79,	0,	2,	0,	.84,		
41, 41,	0,	0,					
0.0,	0, 75,	0,	2,	0,	.84,		
41, 41,	0,	0,					
1.0,	0, 83,	0,	2,	0,	.84,		
47, 41,	0,	0,	27,	6,		47,	6,
1.0,	0, 79,	0,	2,	62,	.84,		
45, 41,	0,	0,	9,	6,		45,	6,
						25,	1,
1.0,	0, 78,	0,	2,	0,	.84,		
41, 41,	0,	0,	27,	6,			
0.0,	0, 80,	0,	2,	0,	.84,		
41, 41,	0,	0,					
0.0,	0, 80,	0,	2,	0,	.84,		
41, 41,	0,	0,					
1.0,	0, 82,	0,	2,	0,	.84,		
44, 41,	0,	0,	17,	6,		44,	6,
1.0,	0, 81,	0,	2,	0,	.84,		
41, 41,	0,	0,	34,	1,			
0.0,	0, 80,	0,	2,	0,	.58,		
41, 44,	0,	0,					
0.0,	0, 82,	0,	2,	0,	.93,		
41, 44,	0,	0,					
0.0,	0, 83,	0,	2,	0,	.82,		
42, 44,	0,	0,					
1.0,	0, 83,	0,	2,	0,	.86,		
40, 44,	0,	0,	23,	6,			
1.0,	0, 83,	0,	2,	0,	.81,		
44, 44,	0,	0,	19,	6,		32,	6,
0.0,	0, 83,	0,	2,	0,	.81,		
41, 44,	0,	0,					
0.0,	0, 83,	0,	2,	0,	.81,		
41, 44,	0,	0,					

0.0,	0, 82,	0, 2,	0, .81,	
41, 44,	0, 0,			
1.0,	0, 80,	0, 2,	0, .81,	
44, 44,	0, 0,	29, 1,	44, 1,	
1.0,	0, 83,	0, 2,	0, .81,	
43, 44,	0, 0,	6, 6,	43, 6,	
1.0,	0, 82,	0, 2,	0, .81,	
46, 44,	0, 0,	39, 1,	46, 6,	
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43, 44,	0, 0,	9, 6,	44, 6,	
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45, 44,	0, 0,	35, 6,	43, 6,	
0.0,	0, 80,	0, 2,	0, .94,	
47, 44,	0, 0,			
1.0,	0, 80,	0, 2,	0, .81,	
40, 44,	0, 0,	18, 1,	38, 1,	
0.0,	0, 80,	0, 2,	0, .81,	
41, 44,	0, 0,			
1.0,	0, 83,	0, 2,	0, .81,	
41, 44,	0, 0,	2, 6,	41, 6,	41, 10,
0.0,	0, 85,	0, 2,	0, .81,	
41, 44,	0, 0,			
1.0,	0, 77,	0, 2,	0, .62,	
48, 44,	0, 0,	20, 6,	48, 6,	
1.0,	0, 83,	0, 2,	0, .83,	
41, 44,	0, 0,	20, 5,	36, 5,	
0.0,	0, 82,	0, 2,	0, .81,	
41, 44,	0, 0,			
0.0,	0, 83,	0, 2,	0, .81,	
41, 44,	0, 0,			
0.0,	0, 83,	0, 2,	0, .84,	
41, 44,	0, 0,			
0.0,	0, 83,	0, 2,	0, .81,	
41, 44,	0, 0,			

1.0,	0, 85,	0, 2,	0, .81,			
45, 44,	0, 0,	35, 5,	45, 5,			
1.0,	0, 80,	0, 2,	0, .81,			
29, 44,	0, 0,	6, 6,	29, 6,			
1.0,	0, 82,	0, 2,	0, .81,			
43, 44,	0, 0,	23, 5,	43, 5,			
0.0,	0, 81,	0, 2,	0, .81,			
41, 44,	0, 0,					
1.0,	0, 81,	0, 2,	0, .81,			
46, 44,	0, 0,	8, 6,	46, 6,			
0.0,	0, 80,	0, 2,	0, .81,			
41, 44,	0, 0,					
1.0,	0, 83,	0, 2,	0, .91,			
48, 44,	0, 0,	18, 6,	48, 6,			
1.0,	0, 77,	0, 2,	0, .62,			
45, 44,	0, 0,	45, 6,				
0.0,	0, 82,	0, 2,	0, .81,			
41, 44,	0, 0,					
1.0,	0, 80,	0, 2,	0, .81,			
41, 44,	0, 0,	16, 6,				
1.0,	0, 82,	0, 2,	0, .81,			
41, 44,	0, 0,	23, 6,	30, 6,	33, 2,	36, 2,	
1.0,	0, 82,	0, 2,	0, .81,			
41, 44,	0, 0,	25, 6,				
1.0,	0, 80,	0, 2,	0, .81,			
41, 44,	0, 0,	20, 6,				
1.0,	0, 80,	0, 2,	0, .81,			
47, 44,	0, 0,	11, 6,	47, 6,			
0.0,	0, 78,	0, 2,	0, .86,			
46, 47,	0, 0,					
0.0,	0, 81,	0, 2,	0, .78,			
40, 47,	0, 0,					
0.0,	0, 84,	0, 2,	0, .95,			
40, 47,	0, 0,					

1.0,	0, 84,	0,	2,	0,	.93,			
51, 47,	0, 0,		29,	6,		51,	6,	
0.0,	0, 83,	0,	2,	0,	.86,			
41, 47,	0, 0,							
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IMMERSED, NO EXERCISE (OLD)

Citation: Donald, K.W. Variation in the O₂ tolerance of human subjects in the wet and in the dry. O₂ Poisoning in Man. Admiralty Experimental Diving Unit Technical Report No. 16. HMS Vernon, Portsmouth, UK, 1946.

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0,	1,	65,	2,	0,	0,	.95,
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22,	53,	0,0,		22,	6,	
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10,	53,	0,0,		10,	6,	
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19,	53,	0,0,		19,	6,	
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0,	1,	65,	2,	0,	0,	.95,
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0,	1,	65,	2,	0,	0,	.95,
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1,	1,	65,	2,	0,	0,	.95,
30,	43,	0,0,		30,	10,	
1,	1,	65,	2,	0,	0,	.95,
12,	43,	0,0,		12,	10,	
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18,	43,	0,0,		18,	6,	
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19,	43,	0,0,		19,	6,	
1,	1,	65,	2,	0,	0,	.95,
29,	43,	0,0,		29,	6,	
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50,	43,	0,0,		50,	6,	
1,	1,	65,	2,	0,	0,	.95,
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27,	43,	0,0,		27,	6,	
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55,	43,	0,0,		55,	6,	
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120,	38,	0,0,				
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120,	38,	0,0,				
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120,	38,	0,0,				
0,	1,	65,	2,	0,	0,	.95,
120,	38,	0,0,				

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90,	38,	0,0,				
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90,	38,	0,0,				
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90,	38,	0,0,				
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90,	38,	0,0,				
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90,	38,	0,0,				
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90,	38,	0,0,				
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90,	38,	0,0,				
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14,	38,	0,0,		14,	6,	
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32,	38,	0,0,		32,	6,	
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31,	38,	0,0,		31,	6,	
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120,	28,	0,0,				
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120,	28,	0,0,				
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120,	28,	0,0,				
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120,	28,	0,0,				
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44,	28,	0,0,	44,	6,		

Citation: Yarbrough, O.D., W. Welham, E.S. Brinton, and A.R. Behnke. Symptoms of O₂ poisoning and limits of tolerance at rest and at work. Naval Experimental Diving Unit Research Report 01-47, Washington, D.C.: Naval Experimental Diving Unit, 1947 + Original records.

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7,100,		0,0,		7,6,	7,1	
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1,	1,	91,	0,	0,	0,	.8,		
21,	80,	0,0,		21,	1,			
1,	1,	91,	0,	0,	0,	.8,		
29,	80,	0,0,		29,	1,			
1,	1,	91,	0,	0,	0,	.8,		
36,	80,	0,0,		36,	6,			
1,	1,	90,	0,	0,	0,	.8,		
18,	80,	0,0,		18,	1,			
1,	1,	90,	0,	0,	0,	.8,		
35,	80,	0,0,		35,	1,			
1,	1,	92,	0,	0,	0,	.8,		
58,	80,	0,0,		58,	6,			
0,	1,	91,	0,	0,	0,	.8,		
14,	80,	0,0,						
0,	1,	91,	0,	0,	0,	.8,		
59,	80,	0,0,						
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38,	80,	0,0,		38,	5,			
1,	1,	91,	0,	0,	0,	.8,		
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1,	1,	91,	0,	0,	0,	.8,		
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1,	1,	89,	0,	0,	0,	.8,		
76,	80,	0,0,		76,	6,			
1,	1,	94,	0,	0,	0,	.8,		
116,	80,	0,0,		116,	8,	116,	2	
1,	1,	91,	0,	0,	0,	.8,		
23,	80,	0,0,		23,	6,			
1,	1,	91,	0,	0,	0,	.8,		
29,	80,	0,0,		29,	6,			

1,	1,	92,	0,	0,	0,	.8,	
20,	80,	0,0,		20,4,		20,1	
1,	1,	91,	0,	0,	0,	.8,	
19,	80,	0,0,		19,5,		19,1	
1,	1,	91,	0,	0,	0,	.8,	
12,	80,	0,0,		12,6,		12,1	
1,	1,	91,	0,	0,	0,	.8,	
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45,	80,	0,0,		45,6,	45,2,	45,1	
1,	1,	91,	0,	0,	0,	.8,	
5,	80,	0,0,		5,1			
1,	1,	91,	0,	0,	0,	.8,	
8,	80,	0,0,		8,1			
1,	1,	94,	0,	0,	0,	.8,	
14,	80,	0,0,		14,5			
1,	1,	91,	0,	0,	0,	.8,	
48,	80,	0,0,		48,1			
1,	1,	91,	0,	0,	0,	.8,	
40,	80,	0,0,		40,4			
1,	1,	91,	0,	0,	0,	.8,	
24,	80,	0,0,		24,1			
1,	1,	90,	0,	0,	0,	.8,	
56,	80,	0,0,		56,8,	56,7,	56,5	
1,	1,	91,	0,	0,	0,	.8,	
22,	80,	0,0,		22,8,	22,6,	22,4	
1,	1,	91,	0,	0,	0,	.8,	
33,	80,	0,0,		33,4			
1,	1,	91,	0,	0,	0,	.8,	
28,	80,	0,0,		28,3,	28,1		
1,	1,	91,	0,	0,	0,	.8,	
38,	80,	0,0,		38,6,	25,6		
0,	1,	91,	0,	0,	0,	.8,	
35,	80,	0,0,					

1, 1, 95, 0, 0, 0, .8,
99, 80, 0,0, 99,7, 99,6

1, 1, 91, 0, 0, 0, .8,
56, 80, 0,0, 56,6

0, 1, 91, 0, 0, 0, .8,
18, 80, 0,0,

1, 1, 98, 0, 0, 0, .8,
25, 80, 0,0, 25,1

1, 1, 91, 0, 0, 0, .8,
24, 80, 0,0, 24,1

1, 1, 91, 0, 0, 0, .8,
24, 80, 0,0, 24,1

1, 1, 91, 0, 0, 0, .8,
14, 80, 0,0, 14,4, 6,4

1, 1, 91, 0, 0, 0, .8,
28, 80, 0,0, 28,7, 28,5

1, 1, 94, 0, 0, 0, .8,
93, 80, 0,0, 93,8, 60, 8

1, 1, 91, 0, 0, 0, .8,
42, 80, 0,0, 42,6

1, 1, 92, 0, 0, 0, .8,
15, 60, 0,0, 15,5

1, 1, 88, 0, 0, 0, .8,
11, 60, 0,0, 11,1

0, 1, 89, 0, 0, 0, .8,
60, 60, 0,0,

0, 1, 91, 0, 0, 0, .8,
15, 60, 0,0,

1, 1, 97, 0, 0, 0, .8,
23, 60, 0,0, 23,5, 23,1

1, 1, 90, 0, 0, 0, .8,
43, 60, 0,0, 43,1, 32,1

0, 1, 90, 0, 0, 0, .8,
60, 60, 0,0,

1,	1,	88,	0,	0,	0,	.8,
54,	60,	0,0,		54,	6	
1,	1,	90,	0,	0,	0,	.8,
79,	60,	0,0,		79,	6	
0,	1,	90,	0,	0,	0,	.8,
60,	60,	0,0,				
0,	1,	96,	0,	0,	0,	.8,
60,	60,	0,0,				
0,	1,	90,	0,	0,	0,	.8,
60,	60,	0,0,				
0,	1,	91,	0,	0,	0,	.8,
60,	60,	0,0,				
0,	1,	96,	0,	0,	0,	.8,
60,	60,	0,0,				
0,	1,	92,	0,	0,	0,	.8,
60,	60,	0,0,				
0,	1,	90,	0,	0,	0,	.8,
12,	60,	0,0,				
0,	1,	88,	0,	0,	0,	.8,
60,	60,	0,0,				
0,	1,	90,	0,	0,	0,	.8,
60,	60,	0,0,				
0,	1,	90,	0,	0,	0,	.8,
44,	60,	0,0,				
1,	1,	88,	0,	0,	0,	.8,
35,	60,	0,0,		35,	6	
0,	1,	94,	0,	0,	0,	.8,
60,	60,	0,0,				
0,	1,	88,	0,	0,	0,	.8,
60,	60,	0,0,				
0,	1,	92,	0,	0,	0,	.8,
120,	60,	0,0,				
.5,	1,	88,	0,	0,	0,	.8,
60,	60,	0,0,		45,	1	

1,	1,	91,	0,	0,	0,	.8,
58,	60,	0,0,		58,	1	
1,	1,	91,	0,	0,	0,	.8,
39,	60,	0,0,		39,	4	
.5,	1,	93,	0,	0,	0,	.8,
60,	60,	0,0,		5,	1	
.5,	1,	93,	0,	0,	0,	.8,
60,	60,	0,0,		30,	1	
0,	1,	92,	0,	0,	0,	.8,
120,	60,	0,0,				
0,	1,	90,	0,	0,	0,	.8,
60,	60,	0,0,				
0,	1,	92,	0,	0,	0,	.8,
60,	60,	0,0,				
0,	1,	92,	0,	0,	0,	.8,
120,	60,	0,0,				
0,	1,	88,	0,	0,	0,	.8,
60,	60,	0,0,				
0,	1,	90,	0,	0,	0,	.8,
60,	60,	0,0,				
0,	1,	93,	0,	0,	0,	.8,
60,	60,	0,0,				
0,	1,	89,	0,	0,	0,	.8,
50,	60,	0,0,				
0,	1,	93,	0,	0,	0,	.8,
60,	60,	0,0,				
0,	1,	92,	0,	0,	0,	.8,
60,	60,	0,0,				
0,	1,	88,	0,	0,	0,	.8,
60,	60,	0,0,				
0,	1,	90,	0,	0,	0,	.8,
60,	60,	0,0,				
0,	1,	90,	0,	0,	0,	.8,
60,	60,	0,0,				

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40, 60, 0,0,	40,1,	35,1
1, 1, 86, 0,	0, 0,	.8,
25, 60, 0,0,	25,6,	25,1
0, 1, 91, 0,	0, 0,	.8,
60, 60, 0,0,		
0, 1, 91, 0,	0, 0,	.8,
60, 60, 0,0,		
0, 1, 90, 0,	0, 0,	.8,
60, 60, 0,0,		
1, 1, 90, 0,	0, 0,	.8,
60, 60, 0,0,	60,1	
1, 1, 93, 0,	0, 0,	.8,
113, 60, 0,0,	113,5,	113,4
0, 1, 92, 0,	0, 0,	.8,
60, 60, 0,0,		
0, 1, 89, 0,	0, 0,	.8,
60, 60, 0,0,		
0, 1, 88, 0,	0, 0,	.8,
60, 60, 0,0,		
0, 1, 88, 0,	0, 0,	.8,
60, 60, 0,0,		
0, 1, 88, 0,	0, 0,	.8,
60, 60, 0,0,		
0, 1, 93, 0,	0, 0,	.8,
60, 60, 0,0,		
0, 1, 90, 0,	0, 0,	.8,
60, 60, 0,0,		
0, 1, 89, 0,	0, 0,	.8,
120, 60, 0,0,		
0, 1, 91, 0,	0, 0,	.8,
60, 60, 0,0,		
0, 1, 90, 0,	0, 0,	.8,
40, 60, 0,0,		

0,	1,	94,	0,	0,	0,	.8,		
44,	60,	0,0,						
1,	1,	85,	0,	0,	0,	.8,		
8,	60,	0,0,		8,6				
.5,	1,	91,	0,	0,	0,	.8,		
60,	60,	0,0,		30,4				
0,	1,	88,	0,	0,	0,	.8,		
60,	60,	0,0,						
1,	1,	92,	0,	0,	0,	.8,		
25,	60,	0,0,		25,6,	25,4			
0,	1,	92,	0,	0,	0,	.8,		
77,	60,	0,0,						
1,	1,	93,	0,	0,	0,	.8,		
60,	60,	0,0,		60,9,	60,8,	60,2		
0,	1,	90,	0,	0,	0,	.8,		
60,	60,	0,0,						
0,	1,	89,	0,	0,	0,	.8,		
60,	60,	0,0,						
0,	1,	90,	0,	0,	0,	.8,		
60,	60,	0,0,						
1,	1,	92,	0,	0,	0,	.8,		
60,	60,	0,0,		60,6				
1,	1,	99,	0,	0,	0,	.8,		
11,	60,	0,0,		11,1				
1,	1,	92,	0,	0,	0,	.8,		
20,	60,	0,0,		20,1				
0,	1,	91,	0,	0,	0,	.8,		
60,	60,	0,0,						
0,	1,	90,	0,	0,	0,	.8,		
60,	60,	0,0,						
1,	1,	94,	0,	0,	0,	.8,		
24,	60,	0,0,		24,9,	24,6			
0,	1,	90,	0,	0,	0,	.8,		
60,	60,	0,0,						

1,	1,	91,	0,	0,	0,	.8,			
15,	60,	0,0,		15,	6				
0,	1,	88,	0,	0,	0,	.8,			
60,	60,	0,0,							
1,	1,	90,	0,	0,	0,	.8,			
23,	60,	0,0,		23,	6				
0,	1,	90,	0,	0,	0,	.8,			
60,	60,	0,0,							
0,	1,	91,	0,	0,	0,	.8,			
60,	60,	0,0,							
0,	1,	94,	0,	0,	0,	.8,			
60,	60,	0,0,							
0,	1,	90,	0,	0,	0,	.8,			
60,	60,	0,0,							
.5,	1,	88,	0,	0,	0,	.8,			
60,	60,	0,0,		36,	1				
1,	1,	90,	0,	0,	0,	.8,			
29,	60,	0,0,		29,	6,	29,3,	29,1,	25,6	
1,	1,	90,	0,	0,	0,	.8,			
44,	60,	0,0,		44,	6,	44,1			
1,	1,	90,	0,	0,	0,	.8,			
60,	60,	0,0,		60,	1				
1,	1,	93,	0,	0,	0,	.8,			
55,	60,	0,0,		55,	5,	55,4,	55,1		
1,	1,	92,	0,	0,	0,	.8,			
42,	60,	0,0,		42,	6,	42,1			
1,	1,	95,	0,	0,	0,	.8,			
41,	60,	0,0,		41,	1				
1,	1,	85,	0,	0,	0,	.8,			
19,	60,	0,0,		19,	3,	19,1			
1,	1,	92,	0,	0,	0,	.8,			
13,	60,	0,0,		13,	10				
0,	1,	92,	0,	0,	0,	.8,			
25,	60,	0,0,							

0,	1,	92,	0,	0,	0,	.8,
15,	60,	0,0,				
1,	1,	90,	0,	0,	0,	.8,
40,	60,	0,0,		40,	1	
1,	1,	94,	0,	0,	0,	.8,
45,	60,	0,0,		45,	4	
0,	1,	88,	0,	0,	0,	.8,
60,	60,	0,0,				
0,	1,	88,	0,	0,	0,	.8,
60,	60,	0,0,				
0,	1,	90,	0,	0,	0,	.8,
29,	60,	0,0,				
0,	1,	92,	0,	0,	0,	.8,
60,	60,	0,0,				
0,	1,	91,	0,	0,	0,	.8,
60,	60,	0,0,				
0,	1,	94,	0,	0,	0,	.8,
60,	60,	0,0,				
0,	1,	92,	0,	0,	0,	.8,
60,	60,	0,0,				
0,	1,	90,	0,	0,	0,	.8,
60,	60,	0,0,				
0,	1,	89,	0,	0,	0,	.8,
120,	60,	0,0,				
1,	1,	88,	0,	0,	0,	.8,
60,	60,	0,0,		60,	2	
0,	1,	92,	0,	0,	0,	.8,
120,	60,	0,0,				
0,	1,	90,	0,	0,	0,	.8,
60,	60,	0,0,				
0,	1,	96,	0,	0,	0,	.8,
60,	60,	0,0,				
0,	1,	90,	0,	0,	0,	.8,
60,	60,	0,0,				

0,	1,	96,	0,	0,	0,	.8,			
60,	60,	0,0,							
0,	1,	87,	0,	0,	0,	.8,			
60,	60,	0,0,							
0,	1,	90,	0,	0,	0,	.8,			
60,	60,	0,0,							
0,	1,	92,	0,	0,	0,	.8,			
60,	60,	0,0,							
0,	1,	90,	0,	0,	0,	.8,			
60,	60,	0,0,							
0,	1,	88,	0,	0,	0,	.8,			
60,	60,	0,0,							
0,	1,	90,	0,	0,	0,	.8,			
60,	60,	0,0,							
0,	1,	90,	0,	0,	0,	.8,			
52,	60,	0,0,		52,4					
0,	1,	92,	0,	0,	0,	.8,			
60,	60,	0,0,							
0,	1,	94,	0,	0,	0,	.8,			
44,	60,	0,0,							
1,	1,	90,	0,	0,	0,	.8,			
40,	60,	0,0,		40,8,	40,6,	15,1			
0,	1,	94,	0,	0,	0,	.8,			
60,	60,	0,0,							
0,	1,	90,	0,	0,	0,	.8,			
60,	60,	0,0,							
.5,	1,	90,	0,	0,	0,	.8,			
60,	60,	0,0,		30,1,	60,1,				
0,	1,	90,	0,	0,	0,	.8,			
60,	60,	0,0,							
0,	1,	94,	0,	0,	0,	.8,			
116,	60,	0,0,							
0,	1,	88,	0,	0,	0,	.8,			
60,	60,	0,0,							

0,	1,	92,	0,	0,	0,	.8,			
111,	60,	0,0,							
0,	1,	92,	0,	0,	0,	.8,			
60,	60,	0,0,							
0,	1,	91,	0,	0,	0,	.8,			
60,	60,	0,0,							
0,	1,	88,	0,	0,	0,	.8,			
60,	60,	0,0,							
0,	1,	89,	0,	0,	0,	.8,			
60,	60,	0,0,							
0,	1,	90,	0,	0,	0,	.8,			
60,	60,	0,0,							
0,	1,	90,	0,	0,	0,	.8,			
60,	60,	0,0,							
0,	1,	92,	0,	0,	0,	.8,			
60,	60,	0,0,							
0,	1,	90,	0,	0,	0,	.8,			
60,	60,	0,0,							
0,	1,	88,	0,	0,	0,	.8,			
60,	60,	0,0,							
1,	1,	91,	0,	0,	0,	.8,			
60,	60,	0,0,		60,1					
1,	1,	89,	0,	0,	0,	.8,			
32,	60,	0,0,		32,6,	32,1,	28,1			
.5,	1,	95,	0,	0,	0,	.8,			
60,	60,	0,0,		30,1					
0,	1,	94,	0,	0,	0,	.8,			
60,	60,	0,0,							
.5,	1,	96,	0,	0,	0,	.8,			
120,	60,	0,0,		60,1,					
0,	1,	91,	0,	0,	0,	.8,			
60,	60,	0,0,							
1,	1,	89,	0,	0,	0,	.8,			
60,	60,	0,0,		60,1					

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1, 1, 89, 0, 0, 0, .8,
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28, 60, 0,0, 28,1

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60, 60, 0,0, 60,1, 55,1

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120, 60, 0,0,

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0, 1, 94, 0, 0, 0, .8,
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0, 1, 91, 0, 0, 0, .8,
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60, 60, 0,0,

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60, 60, 0,0,

0, 1, 95, 0, 0, 0, .8,
120, 60, 0,0,

IMMERSED, EXERCISE (OLD)

Citation: Donald, K.W. Variation in the O₂ tolerance of human subjects in the wet and in the dry. O₂ Poisoning in Man. Admiralty Experimental Diving Unit Technical Report No. 16. HMS Vernon, Portsmouth, UK, 1946.

0,	1,	65,	2,	3,	0,	.95,
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0,	1,	65,	2,	3,	0,	.95,
60,	28,	0,0,				
0,	1,	65,	2,	3,	0,	.95,
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60,	28,	0,0,				
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60,	28,	0,0,				
0,	1,	65,	2,	3,	0,	.95,
60,	28,	0,0,				
0,	1,	65,	2,	3,	0,	.95,
60,	28,	0,0,				
1,	1,	65,	2,	3,	0,	.95,
60,	28,	0,0,		60,	5,	
0,	1,	65,	2,	3,	0,	.95,
120,	28,	0,0,				
0,	1,	65,	2,	3,	0,	.95,
120,	28,	0,0,				
1,	1,	65,	2,	3,	0,	.95,
43,	28,	0,0,		43,	6,	
0,	1,	65,	2,	3,	0,	.95,
120,	28,	0,0,				

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120, 28, 0,0,	
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54, 28, 0,0,	54, 5,
1, 1, 65, 2,	3, 0, .95,
52, 33, 0,0,	52, 1,
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39, 33, 0,0,	39, 5,
1, 1, 65, 2,	3, 0, .95,
62, 33, 0,0,	62, 1,
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37, 33, 0,0,	37, 5,
1, 1, 65, 2,	3, 0, .95,
19, 33, 0,0,	19, 5,
1, 1, 65, 2,	3, 0, .95,
60, 33, 0,0,	60, 5,
1, 1, 65, 2,	3, 0, .95,
24, 33, 0,0,	24, 5,
0, 1, 65, 2,	3, 0, .95,
120, 33, 0,0,	
1, 1, 65, 2,	3, 0, .95,
18, 33, 0,0,	18, 6,
1, 1, 65, 2,	3, 0, .95,
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21, 33, 0,0,	21, 6,
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120, 33, 0,0,	

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59, 43, 0,0,

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1, 1, 65, 2, 3, 0, .95,
16, 43, 0,0, 16, 6,

0, 1, 65, 2, 3, 0, .95,
59, 43, 0,0,

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31, 43, 0,0, 31, 1,

1, 1, 65, 2, 3, 0, .95,
49, 43, 0,0, 49, 6,

0, 1, 65, 2, 3, 0, .95,
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1, 1, 65, 2, 3, 0, .95,
22, 43, 0,0, 22, 6,

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39, 43, 0,0, 39, 6,

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120, 43, 0,0,

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8, 43, 0,0, 8, 5,

1, 1, 65, 2, 3, 0, .95,
 7, 43, 0,0, 7, 6,

 1, 1, 65, 2, 3, 0, .95,
 6, 43, 0,0, 6, 6,

 1, 1, 65, 2, 3, 0, .95,
 7, 43, 0,0, 7, 1,

 1, 1, 65, 2, 3, 0, .95,
 8, 43, 0,0, 8, 5,

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 59, 43, 0,0,

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 59, 43, 0,0,

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 59, 43, 0,0,

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 119, 43, 0,0,

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 43, 43, 0,0, 43, 1,

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 30, 43, 0,0, 30, 10,

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 35, 43, 0,0, 35, 2,

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 38, 43, 0,0, 38, 6,

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 23, 43, 0,0, 23, 2,

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 41, 43, 0,0, 41, 5,

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 7, 43, 0,0, 7, 5,

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 1, 1, 65, 2, 3, 0, .95,
 5, 43, 0,0, 5, 6,

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17, 43, 0,0,	17, 5,
1, 1, 65, 2,	3, 0, .95,
10, 43, 0,0,	10, 6,
0, 1, 65, 2,	3, 0, .95,
60, 43, 0,0,	
0, 1, 65, 2,	3, 0, .95,
60, 43, 0,0,	
1, 1, 65, 2,	3, 0, .95,
60, 43, 0,0,	60, 6,
1, 1, 65, 2,	3, 0, .95,
30, 43, 0,0,	30, 6,
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35, 43, 0,0,	35, 1,
1, 1, 65, 2,	3, 0, .95,
58, 43, 0,0,	58, 6,
1, 1, 65, 2,	3, 0, .95,
65, 43, 0,0,	65, 6,
1, 1, 65, 2,	3, 0, .95,
29, 43, 0,0,	29, 1,
1, 1, 65, 2,	3, 0, .95,
31, 43, 0,0,	31, 1,
1, 1, 65, 2,	3, 0, .95,
35, 43, 0,0,	35, 6,
1, 1, 65, 2,	3, 0, .95,
47, 43, 0,0,	47, 1,
1, 1, 65, 2,	3, 0, .95,
8, 53, 0,0,	8, 6,
1, 1, 65, 2,	3, 0, .95,
27, 53, 0,0,	27, 6,
1, 1, 65, 2,	3, 0, .95,
33, 53, 0,0,	33, 6,
1, 1, 65, 2,	3, 0, .95,
23, 53, 0,0,	23, 6,

1, 1, 65, 2, 3, 0, .95,
 15, 53, 0,0, 15, 6,

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 8, 53, 0,0, 8, 6,

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 63, 53, 0,0, 63, 6,

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 13, 53, 0,0, 13, 6,

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 22, 53, 0,0, 22, 6,

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 64, 53, 0,0, 64, 6,

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 2, 53, 0,0, 2, 6,

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 3, 53, 0,0, 3, 5,

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 4, 53, 0,0, 4, 6,

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 3, 53, 0,0, 3, 5,

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17, 53, 0,0, 17, 6,
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32, 53, 0,0, 32, 10,
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24, 53, 0,0, 24, 6,
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43, 53, 0,0, 43, 6,
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39, 53, 0,0, 39, 6,
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19, 53, 0,0, 19, 6,
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12, 53, 0,0, 12, 6,
1, 1, 65, 2, 3, 0, .95,
3, 53, 0,0, 3, 6,
1, 1, 65, 2, 3, 0, .95,
6, 53, 0,0, 6, 10,
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5, 53, 0,0, 5, 6,
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22, 53, 0,0, 22, 6,
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37, 53, 0,0, 37, 6,

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 56, 53, 0,0, 56, 10,

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 11, 53, 0,0, 11, 6,

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 12, 53, 0,0, 12, 6,

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 16, 53, 0,0, 16, 6,

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 40, 53, 0,0, 40, 6,

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 13, 53, 0,0, 13, 1,

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 29, 53, 0,0, 29, 1,

 1, 1, 65, 2, 3, 0, .95,
 34, 53, 0,0, 34, 1,

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 30, 53, 0,0,

 1, 1, 65, 2, 1, 0, .95,
 25, 53, 0,0, 25, 10,

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 30, 53, 0,0,

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 22, 53, 0,0, 22, 6,

 1, 1, 65, 2, 1, 0, .95,
 13, 53, 0,0, 13, 5,

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 30, 53, 0,0,

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 9, 53, 0,0, 9, 6,

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 11, 53, 0,0, 11, 6,

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11, 53, 0,0,	11, 5,
1, 1, 65, 2,	1, 0, .95,
19, 53, 0,0,	19, 10,
1, 1, 65, 2,	1, 0, .95,
16, 53, 0,0,	16, 6,
1, 1, 65, 2,	1, 0, .95,
28, 53, 0,0,	28, 6,
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30, 53, 0,0,	
0, 1, 65, 2,	1, 0, .95,
30, 53, 0,0,	
1, 1, 65, 2,	1, 0, .95,
10, 53, 0,0,	10, 10,
0, 1, 65, 2,	1, 0, .95,
30, 53, 0,0,	
1, 1, 65, 2,	1, 0, .95,
20, 53, 0,0,	20, 6,
0, 1, 65, 2,	1, 0, .95,
30, 53, 0,0,	
0, 1, 65, 2,	1, 0, .95,
30, 53, 0,0,	
0, 1, 65, 2,	1, 0, .95,
30, 53, 0,0,	
1, 1, 65, 2,	1, 0, .95,
27, 53, 0,0,	27, 10,
0, 1, 65, 2,	1, 0, .95,
30, 53, 0,0,	
0, 1, 65, 2,	1, 0, .95,
30, 53, 0,0,	
0, 1, 65, 2,	1, 0, .95,
30, 53, 0,0,	
1, 1, 65, 2,	1, 0, .95,
24, 53, 0,0,	24, 10,

1, 1, 65, 2, 1, 0, .95,
27, 53, 0,0, 27, 10,

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30, 53, 0,0, 30, 6,

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1, 1, 65, 2, 1, 0, .95,
30, 53, 0,0, 30, 10,

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25, 53, 0,0, 25, 6,

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0, 1, 65, 2, 1, 0, .95,
30, 53, 0,0,

1, 1, 65, 2, 1, 0, .95,
27, 53, 0,0, 27, 10,

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1949.

0, 1, 90, 0, 1, 9.8, .80
75, 20, 0,0,

0, 1, 90, 0, 1, 9.8, .80
75, 20, 0,0,

0, 1, 90, 0, 1, 9.8, .80
75, 20, 0,0,

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75, 20, 0,0,
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75, 20, 0,0,
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75, 20, 0,0,
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75, 20, 0,0,
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0, 1, 90, 0, 1, 9.8, .80
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72, 20, 0,0, 72,1
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86, 30, 0,0,
0, 1, 90, 0, 1, 11.6, .80
86, 30, 0,0,
0, 1, 90, 0, 1, 11.6, .80
86, 30, 0,0,
0, 1, 90, 0, 1, 11.6, .80
86, 30, 0,0,
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86, 30, 0,0,

0, 1, 90, 0, 1, 11.6, .80
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40, 30, 0,0, 40,6

1, 1, 90, 0, 1, 8.8, .80
42, 30, 0,0, 42,2

1, 1, 90, 0, 1, 16.5, .80
72, 30, 0,0, 72,2

1, 1, 90, 0, 1, 5.6, .80
96, 30, 0,0, 96,1

0, 1, 90, 0, 1, 13.5, .80
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0, 1, 90, 0, 1, 13.5, .80
89, 40, 0,0,

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89, 40, 0,0,

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89, 40, 0,0,

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89, 40, 0,0,

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89, 40, 0,0,

1, 1, 90, 0, 1, 5.2, .80
30, 40, 0,0, 30,10

1, 1, 90, 0, 1, 6.5, .80
45, 40, 0,0, 45, 1

1, 1, 90, 0, 1, 6.0, .80
63, 40, 0,0, 63, 6

1, 1, 90, 0, 1, 35, .80
45, 40, 0,0, 45,6

1, 1, 90, 0, 1, 32, .80
88, 40, 0,0, 88,2

1, 1, 90, 0, 1, 18.7, .80
82, 40, 0,0, 82, 10

1, 1, 90, 0, 1, 10.9, .80
55, 40, 0,0, 55, 9

1, 1, 90, 0, 1, 20.7, .80
89, 40, 0,0, 89, 2

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0, 1, 80, 0, 2, 0, .9,
57, 30, 0,0,

0, 1, 80, 0, 2, 0, .9,
11, 50, 0,0,

0, 1, 80, 0, 2, 0, .9,
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 31, 40, 0,0,

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 53, 30, 0,0,

0, 1, 80, 0, 2, 0, .9,
 113, 20, 0,0,

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 15, 50, 0,0, 15, 9

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 30, 40, 0,0, 30, 10,

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 30, 40, 0,0,

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0, 1, 80, 0, 2, 0, .9,
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0, 1, 80, 0, 2, 0, .9,
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113, 20, 0,0,
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113, 20, 0,0,

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 42, 35, 0,0,
 1, 1, 80, 0, 2, 0, .9,
 42, 35, 0,0, 42, 10,
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30, 40, 0,0,

0, 1, 80, 0, 2, 0, .9,
19, 45, 0,0,

1, 1, 90, 0, 1, 5.6, .80
45, 40, 0,0, 45, 2

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0, 1, 86, 2, 2, 0, .95,
240, 12, 0,0,

0, 1, 83, 2, 2, 0, .95,
240, 12, 0,0,

0, 1, 83, 2, 2, 0, .95,
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240, 12, 0,0,

0, 1, 86, 2, 2, 0, .95,
240, 12, 0,0,

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347-356, 1979 + Original records.

0, 1, 70, 1, 1, 0, .95,
176, 25, 0,0,

0, 1, 70, 1, 1, 0, .95,
248, 25, 0,0,

0, 1, 70, 1, 1, 0, .95,
252, 25, 0,0,

0, 1, 70, 1, 1, 0, .95,
268, 25, 0,0,

.5, 1, 70, 1, 1, 0, .95,
175, 25, 0,0, 175, 7,

0, 1, 70, 1, 1, 0, .95,
252, 25, 0,0,

0, 1, 70, 2, 2, 0, .95,
86, 25, 0,0,

0, 1, 70, 2, 2, 0, .95,
68, 25, 0,0,

0, 1, 70, 2, 2, 0, .95,
79, 25, 0,0,

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82, 25, 0,0,

0, 1, 70, 2, 2, 0, .95,
79, 25, 0,0,

0, 1, 70, 2, 2, 0, .95,
81, 25, 0,0,

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0, 1, 70, 1, 1, 0, .98
250, 30, 0,0,

0, 1, 70, 1, 1, 0, .98
254, 30, 0,0,

0, 1, 70, 1, 1, 0, .98
244, 30, 0,0,

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152, 30, 0,0, 152, 5, 152,2

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220, 30, 0,0, 220, 1, 220,8

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145, 30, 0,0,

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89, 30, 0,0,

0, 1, 70, 1, 1, 0, .98
37, 30, 0,0,

0, 1, 70, 1, 1, 0, .98
104, 30, 0,0,

0, 1, 70, 1, 2, 0, .98
80, 30, 0,0,

1, 1, 70, 1, 2, 0, .98
83, 30, 0,0, 83,9

0, 1, 70, 1, 2, 0, .98
80, 30, 0,0,

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1, 1, 70, 1, 2, 0, .98
59, 30, 0,0, 59,10

0, 1, 70, 1, 2, 0, .98
80, 30, 0,0,

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0, 1, 71, 1, 2, 0, .98,
17, 40, 0,0,

0, 1, 71, 1, 2, 0, .98,
18, 40, 0,0,

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90, 30, 0,0,

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90, 30, 0,0,

0,	1,	71,	1,	2,	0,	.98,
90,	30,	0,0,				
0,	1,	71,	1,	2,	0,	.98,
90,	30,	0,0,				
1,	1,	71,	1,	2,	0,	.98,
82,	30,	0,0,	82,	10,		
0,	1,	71,	1,	2,	0,	.98,
82,	30,	0,0,				
0,	1,	71,	1,	2,	0,	.98,
82,	30,	0,0,				
0,	1,	71,	1,	2,	0,	.98,
82,	30,	0,0,				
0,	1,	71,	1,	2,	0,	.98,
240,	25,	0,0,				
0,	1,	71,	1,	2,	0,	.98,
240,	25,	0,0,				
0,	1,	71,	1,	2,	0,	.98,
240,	25,	0,0,				
0,	1,	71,	1,	2,	0,	.98,
240,	25,	0,0,				
0,	1,	71,	1,	2,	0,	.98,
240,	25,	0,0,				
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240,	25,	0,0,				
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240,	25,	0,0,				
0,	1,	71,	1,	2,	0,	.98,
240,	25,	0,0,				
0,	1,	71,	1,	2,	0,	.98,
240,	25,	0,0,				

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Citation: Butler, F.K. and E.D. Thalmann. CNS O₂ toxicity in
closed circuit SCUBA divers II. Undersea Biomed. Res.
13: 193-233, 1986 + Original records.

0, 1, 71, 1, 2, 0, .98,
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120, 20,	25, 35,	95, 20,	0,0,
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120, 20,	25, 35,	95, 20,	0,0,
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0, 1, 71,	1, 2,	0, .98,			
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0, 1, 71,	1, 2,	0, .98,			
120, 20,	25, 35,	95, 20,	25, 35,	0, 0,	
0, 1, 71,	1, 2,	0, .98,			
120, 20,	25, 35,	95, 20,	25, 35,	0, 0,	
0, 1, 71,	1, 2,	0, .98,			
120, 20,	25, 35,	95, 20,	25, 35,	0, 0,	
0, 1, 71,	1, 2,	0, .98,			
120, 20,	25, 35,	95, 20,	25, 35,	0, 0,	
0, 1, 71,	1, 2,	0, .98,			
120, 20,	25, 35,	95, 20,	25, 35,	0, 0,	
0, 1, 71,	1, 2,	0, .98,			
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0, 1, 71,	1, 2,	0, .98,			
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0,	1,	71,	1,	2,	0,	.98,		
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0,	1,	71,	1,	2,	0,	.98,		
120,	20,		15,	40,	105,	20,	0,0,	
0,	1,	71,	1,	2,	0,	.98,		
120,	20,		15,	40,	105,	20,	0,0,	
0,	1,	71,	1,	2,	0,	.98,		
120,	20,		15,	40,	105,	20,	0,0,	
0,	1,	71,	1,	2,	0,	.98,		
120,	20,		15,	40,	105,	20,	0,0,	
0,	1,	71,	1,	2,	0,	.98,		
120,	20,		15,	40,	105,	20,	0,0,	
0,	1,	71,	1,	2,	0,	.98,		
120,	20,		15,	40,	105,	20,	0,0,	
0,	1,	71,	1,	2,	0,	.98,		
120,	20,		15,	40,	105,	20,	0,0,	
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0,	1,	71,	1,	2,	0,	.98,		
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120, 20, 10, 50, 110, 20, 0,0, 131, 5

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Citation: Butler, F.K. CNS O₂ toxicity in closed-circuit SCUBA divers III Naval Experimental Diving Unit Technical Report No. 5-86, Panama City, FL: Naval Experimental Diving Unit, 1986 + Original records.

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0, 1, 71,	1, 2,	0, .98,	
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