## RUBICON

Search Rubicon Go Advanced Search	Rubicon Research Repository Rubicon Foundation Archive Undersea and Hyperbaric Med	> dicine Journal >
→ <u>Home</u>	Please use this identifier to cite or link to this item: http://archive.rubicon-foundation.org/2142	
Browse	Title:	Continuous pulse oximetry in the breath-hold
<sub> </sub>		diving women of Korea and Japan
<u>&amp; Collections</u>	Authors:	Stanek, KS Guyton GP
		Hurford, WE
Authors		Park, YS
→ By Date		Ahn, DW Ovist
		Falke, KJ
Sign on to:		Hong, SK
<u>Receive email</u>		Kobayashi, K Kobayashi, H
My Rubicon	Keywords <sup>.</sup>	Arterial oxygen saturation
authorized users	rteywords.	breath hold
→ Edit Profile		diving
	Issue Date:	1993
→ Help	Abstract:	Arterial oxygen saturation during breath-hold diving has not previously been measured continuously. We devised a submersible, waterproof, backpack computer to continuously record heart rate, depth, and arterial oxygen saturation (SPO2) as determined by earlobe pulse oximetry. Our measurements showed that one assisted (Funado) diver had reduced SPO2 values immediately after surfacing from 22 dives which lasted 23-76 s, from a mean of 99 +/- 1% SPO2 to 96 +/- 3% SPO2. SPO2 returned to 97 +/- 2% within 15 s after surfacing (P < 0.05 surface value differs from predive base line). Four unassisted (Cachido) divers showed no significant reduction of mean predive SPO2 below 98 +/- 2% at any time during the dive or recovery period in 92 routine dives lasting from 15 to 44 s. Upon surfacing from diving, mean SPO2 was 98 +/- 2% and the mean SPO2 15 s after surfacing was 97 +/- 3% for the unassisted divers. Three Cachido divers were asked to dive and breath hold for as long as possible. Mean SPO2 at the conclusion of breath holding was 73% after an average dive and breath hold lasting 69 s.
	Description:	(http://www.uhms.org)

	URI: <u>PMID: 8286984</u> http://archive.rubicop.foundation.org/2142		
	Appears in Collections: <u>Undersea and Hyperbaric Medicine Journal</u>		
	Files in This I tem:		
	File Size Format		
	8286984.pdf 1531Kb Adobe PDF View/Open		
	Show full item record		
	All items in DSpace are protected by copyright, with all rights reserved.		
Convright © 200	2004 2006 Rubicon Foundation Inc. Foodback		
Copyright © 200	14-2000 RUDICULL FULLIALIULI, ILC <u>FEEUDACR</u>		