RUBICON
FOUNDATION

Search Rubicon
Go
Advanced Search

Home

Browse
Communities & Collections
Titles
Authors
By Date

Sign on to:
Receive email updates
My Rubicon
authorized users
Edit Profile

Help

Please use this identifier to cite or link to this item:
http://archive.rubicon-foundation.org/2519

Title: Failure to find residual memory deficits in monkeys after repeated HPNS

Authors: Overman, WH
Brauer, RW
Burke, ER

Keywords: nitrogen
cognitive
animal
monkey
high pressure nervous syndrome

Issue Date: 1989

Citation: Undersea Biomed Res. 1989 Mar;16(2):115-27.

Abstract: Squirrel monkeys (n = 8) were equated on learning and memory tasks before sustaining 3 separate dives in a laboratory compression chamber. Associative memory was carefully monitored 1 wk before and 3 wk immediately after each dive. The first dive was a shallow, subseizure control dive and the subsequent 2 dives were deep, seizure-inducing dives. Half of the animals were always compressed in He-O2 and half in He-N2-O2 gas, which is known to increase the depth at which tremors and seizures occur. After the control dive there was a slight (10% average) decline in memory performance, but the decline was temporary and recovery was complete by the second postdive week. There was no evidence of residual memory impairments after either of the 2 subsequent seizure-inducing dives. Although addition of nitrogen to the breathing gas significantly elevated thresholds for tremors, it had no differential effect on memory scores. These results are in agreement with studies of human divers that show either no residual impairments or transient, fully recoverable cognitive symptoms after diving.

Description: Undersea and Hyperbaric Medical Society, Inc. (http://www.uhms.org)

URI: PMID: 2734964
http://archive.rubicon-foundation.org/2519

Appears in Collections: Undersea Biomedical Research Journal

Files in This Item:

File	Size	Format	
2734964.pdf	2101Kb	Adobe PDF	View/Open

Show full item record

All items in DSpace are protected by copyright, with all rights reserved.

Copyright © 2004-2006 Rubicon Foundation, Inc. - Feedback