

Search Rubicon

[Advanced Search](#)

[Rubicon Research Repository](#) >
[Rubicon Foundation Archive](#) >
[Undersea and Hyperbaric Medicine Journal](#) >

Please use this identifier to cite or link to this item:
<http://archive.rubicon-foundation.org/2174>

- [Home](#)

- Browse
 - [Communities & Collections](#)
 - [Titles](#)
 - [Authors](#)
 - [By Date](#)

- Sign on to:
 - [Receive email updates](#)
 - [My Rubicon](#)
authorized users
 - [Edit Profile](#)

 - [Help](#)

Title: Assessment of visual contrast sensitivity in hyperbaric oxygen

Authors: Oriani, G
Magni, R
Michael, M
Musini, A
Durante, A
Campagnoli, P
Brancato, R

Keywords: HBO
retinal
eye

Issue Date: 1994

Abstract: Hyperbaric oxygen therapy is used in ophthalmology in ischemic pathologies of the anterior and posterior segments. Our experiment was done on a healthy group of volunteers aged between 10 and 50 yr. We examined the subject's vision before and after acute HBO exposure (60 min at 2.5 atm abs with pure oxygen) to verify whether vasoconstriction induced by hyperoxemia can influence eyesight. We measured the psychophysical determination of the threshold contrast according to Maione-Maffei's zebra test. The results demonstrated that contrast sensitivity is significantly improved for almost all the studied frequencies in normal subjects after acute HBO exposure. We hypothesize that the visual system has a reserve which is activated by an improvement of retinal oxygenation.

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

URI: [PMID: 8000278](#)
<http://archive.rubicon-foundation.org/2174>

Appears in Collections: [Undersea and Hyperbaric Medicine Journal](#)

Files in This Item:

File	Size	Format
8000278.pdf	583Kb	Adobe PDF View/Open

Show full item record

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