

Search Rubicon

 

[Advanced Search](#)

[Home](#)

Browse

[Communities & Collections](#)

[Titles](#)

[Authors](#)

[By Date](#)

Sign on to:

[Receive email updates](#)

[My Rubicon](#)  
authorized users

[Edit Profile](#)

[Help](#)

[Rubicon Research Repository](#) >  
[Rubicon Foundation Archive](#) >  
[Undersea Biomedical Research Journal](#) >

Please use this identifier to cite or link to this item:

<http://archive.rubicon-foundation.org/2521>

Title: Sodium valproate interactions with the HPNS: EEG and behavioral observations

Authors: Clarke, D  
Dore, CJ  
Halsey, MJ  
Luff, NP  
Maclean, CJ

Keywords: animal  
baboon  
model  
hyperbaric chamber  
high pressure nervous syndrome

Issue Date: 1989

Abstract: A new baboon model was used to investigate the therapeutic effect of sodium valproate on the high pressure neurologic syndrome (HPNS). A hyperbaric chamber was used to achieve environmental pressures of 61 ATA, over a 5-h period. Eight animals underwent two compressions, a control and a valproate-treated compression (half the animals had valproate on the first compression). Mild signs of HPNS (e.g., paw and limb tremor) were first observed at approximately 20 ATA. More severe signs (e.g., whole body tremor, myoclonus, and vomiting) were observed above 40 ATA. Sodium valproate was administered during the compression phase and for 2 wk previously. It was effective at the higher pressures above 41 ATA in reducing the severity of the signs of HPNS. The major effect of pressure on the EEG was to increase alpha and theta wave amplitude in a linear manner. Alpha wave amplitude was reduced by sodium valproate.

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

URI: [PMID: 2499971](http://pubmed.ncbi.nlm.nih.gov/2499971/)  
<http://archive.rubicon-foundation.org/2521>

Appears in Collections: [Undersea Biomedical Research Journal](#)

Files in This Item:

| File        | Size   | Format    |                           |
|-------------|--------|-----------|---------------------------|
| 2499971.pdf | 2307Kb | Adobe PDF | <a href="#">View/Open</a> |

Show full item record

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