

Search Rubicon

Go

Advanced Search

Home

<u>Rubicon Research Repository > Rubicon Foundation Archive > UHMS Meeting Abstracts > </u>

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

http://archive.rubicon-foundation.org/6530

Title: TRANSCUTANEOUS OXYGEN

MEASUREMENTS IN NON-HEALING

WOUNDS

Authors: Atlas, G

Josefsen, L Ricketts, L Camporesi, EM

Keywords: Transcutaneous oxygen

tcO2 HBO

hyperbaric oxygenation

wound graft

non-healing case review

Issue Date: 1992

Publisher: Undersea and Hyperbaric Medical

Society, Inc.

Abstract: Transcutaneous oxygen (tcO2)

measurements were obtained from a chart review of 28 patients undergoing

a total of 70 hyperbaric oxygen

treatments for non-healing wounds or graft preparation. To assess if the initial and/or final tcO2 levels would

predict the outcome of the nonhealing wound, two extremes of the tcO2 distribution were compared and the measurements categorized into two groups: While breathing air at 1 atm abs group I had tcO2 values of <=4 mmHg, whereas group II had

tcO2 values of >= 40 mmHg. Measurements were obtained by

placement of the tcO2 probe near the

Browse

- Communities & Collections
- Titles
- Authors
- By Date

Sign on to:

- Receive email updates
- My Rubicon authorized users
- Edit Profile
- → Help

wound or graft site. Values were acquired using room air at 1 atm abs and then after 100% O2 at 2 atm abs for 45 minutes. A comparison of the final tcO2 values was made using the Wilcoxon rank sum test. Wounds were followed and healing was then evaluated as either satisfactory or unsatisfactory. Treatments associated with initial tcO2 values <= 4 mmHg were noted to reach significantly lower final tcO2 values, at pressure, than those with an initial tcO2 >= 40mmHg (P < .001, see Table). [table] Initial tcO2 (mmHg) room air at 1 atm abs, Number of tcO2 measurements, Avg. final tcO2 (mmHg)* 100% O2 at 2 atm abs, Wound outcome; <= 4, 9, 546, 2 failed, 6 successful;>= 40, 11, 1,118, 0 Failed, 11 successful [end table Occurrence of one or more low initial tcO2 values, taken while breathing air at 1 atm abs pressure, did not appear predictive of wound outcome. The data suggest that hyperbaric oxygen therapy, for nonhealing wounds or for graft preparation, may be beneficial despite low wound tcO2 values observed during normobaric room air conditions.

Description: Abstract of the Undersea and Hyperbaric Medical Society, Inc. Annual Scientific Meeting held June 23-27, 1992. Hyatt Regency Bethesda

Hotel, Bethesda, Maryland (http://www.uhms.org)

URI: http://archive.rubicon-

foundation.org/6530

Appears in Collections: <u>UHMS Meeting Abstracts</u>

Files in This Item:

File **Description Size Format**

abstract.txt 0KbText 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