

Aerospace Medicine and Human Performance

JUNE 2019 VOLUME 90 NUMBER 6

PRESIDENT'S PAGE

505 Team Aerospace

H. J. Ortega, Jr.

RESEARCH ARTICLES

506 Muscle Activation During Gravity-Independent Resistance Exercise Compared to Common Exercises

B. A. Alkner and D. K.-I. Bring

513 Cumulative Cyclic Exposures to 8000-ft Pressurization Equivalence and Attention Network Responses

J. E. Thropp and P. W. Buza

524 Nitrogen Washout and Venous Gas Emboli During Sustained vs. Discontinuous High-Altitude Exposures

R. Ånell, M. Grönkvist, O. Eiken, and M. Gennser

531 Auditory Verbal Working Memory Load Effects on a Simulator-Induced Spatial Disorientation Event

R. Lewkowicz, P. Stróžak, B. Balaj, and P. Francuz

540 Video Game Play as a Fatigue Countermeasure in Air Traffic Controllers

L. A. Fowler and D. Gustafson

546 Pilots' Fixation Patterns During Taxiing and the Effects of Visibility

X. Zhang, X. Qu, H. Xue, and J. Liu

REVIEW ARTICLE

553 Implications of Space Suit Injury Risk for Developing Computational Performance Models

L. Stirling, P. Arezes, and A. Anderson

CASE REPORTS

566 Pneumocephalus Associated with Inappropriate Valsalva Technique

S. S. Woodside and M. M. Metzler

570 Hypothetical Case of Pancreatitis During a Long Duration Lunar Mission

D. R. Hamilton, P. B. McBeth, M. R. Greene, A. W. Kirkpatrick, and C. G. Ball

LETTER TO THE EDITOR

579 Letter to the Editor re: Ultrasound Guided Lumbar Puncture Is Not Necessarily Useful for VIIP/SANS

FEATURES

581 You're the Flight Surgeon—W. P. D. Laslie

583 You're the Flight Surgeon—R. J. Doxey

587 Focus on Aerospace Medicine History: Dr. William Thornton and the Development of the Mass Measurement Device for Spaceflight—M. R. Campbell and J. B. Charles

592 This Month in Aerospace Medicine History: June—W. W. Dalitsch III

AEROSPACE MEDICAL ASSOCIATION NEWS

593 AsMA Constituent Organization Presidents for 2019–2020