

Aerospace Medicine and Human Performance

FEBRUARY 2021 VOLUME 92 NUMBER 2

PRESIDENT'S PAGE

63 The Norwegian Institute of Aviation Medicine

C. DeJohn

RESEARCH ARTICLES

65 Oral Estradiol Impact on Mitigating Unloading-Induced Bone Loss in Ovary-Intact Rats

A. V. Mantri, H. C. M. Allaway, J. E. Brezicha, H. A. Hogan, and S. A. Bloomfield

75 Effects of Acceleration-Induced Reductions in Retinal and Cerebral Oxygenation on Human Performance

R. J. Croft, R. Kölegård, A. Tribukait, N. A. S. Taylor, and O. Eiken

83 Flight Crew Alertness and Sleep Relative to Timing of In-Flight Rest Periods in Long-Haul Flights

K. B. Gregory, R. N. Soriano-Smith, A. C. M. Lamp, C. J. Hilditch, M. J. Rempe, E. E. Flynn-Evans, and G. L. Belenky

92 Sea Voyage Training and Motion Sickness Effects on Working Ability and Life Quality After Landing

R-R. Qi, S-F. Xiao, Y. Su, Y-Q. Mao, L-L. Pan, C-H. Li, Y-L. Lu, J-Q. Wang, and Y-L. Cai

99 Data-Driven Estimation of the Impact of Diversions Due to In-Flight Medical Emergencies on Flight Delay and Aircraft Operating Costs

B. A. Lewis, V. J. Gawron, E. Esmaeilzadeh, R. H. Mayer, F. Moreno-Hines, N. Nerwich, and P. M. Alves

106 Cardiopulmonary Resuscitation in Hypogravity Simulation

S. Sriharan, G. Kay, J. C. Y. Lee, R. D. Pollock, and T. Russomano

REVIEW ARTICLE

113 Aerospace Implications fo Key Neurological Conditions

V. G. Khurana, R. Jithoo, and M. Barnett

SHORT COMMUNICATION

120 Aeromedical Implications of Cerebral Cavernomas

T. Jagathesan and M. O'Brien

CASE REPORT

124 Certification of a Pilot with Charcot-Marie-Tooth Disease

T. Jagathesan, M. O'Brien, and A. Rattray

COMMENTARY

127 Delta: The Value That Matters in Fatigue Risk Management

A. C. M. Lamp, M. J. Rempe, and G. L. Belenky

HISTORICAL NOTE

129 A Framework for Multinational Medical Support for the International Space Station: A Model for Exploration

C. R. Doarn, J. D. Polk, A. Grigoriev, J-M. Comtois, K. Shimada, G. Weerts, J. P. Dervay, T. A. Taddeo, and A. Sargsyan

FEATURES

135 This Month in Aerospace Medicine History: February—*W. W. Dalitsch III*

AEROSPACE MEDICAL ASSOCIATION NEWS

136 Two AsMA Members Honored by RAeS

136 In Memoriam: Lawrence Marinelli