

# Aerospace Medicine and Human Performance

---

JANUARY 2024 VOLUME 95 NUMBER 1

## EDITORIAL

- 1 What a Ride It's Been: Farewell and Welcome**  
*F. Bonato and D. G. Newman*

## PRESIDENT'S PAGE

- 3 69th ICASM—An Excellent Event**  
*J. Dervay*

## RESEARCH ARTICLES

- 5 Transcranial Direct Current Stimulation and Aviator Performance During Simulated Flight**  
*K. A. Feltman and A. M. Kelley*
- 16 Helicopter Pilot Performance and Workload in a Following Task in a Degraded Visual Environment**  
*W. D. Ledegang, E. van der Burg, P. J. L. Valk, M. M. J. Houben, and E. L. Groen*
- 25 Sugar-Sweetened Beverage Consumption and Implications for Aviation Preflight Indoctrination Students**  
*T. E. Sather*
- 29 G-induced Loss of Consciousness Prediction Using a Support Vector Machine**  
*N. Ohrui, Y. Iino, K. Kuramoto, A. Kikukawa, K. Okano, K. Takada, and T. Tsujimoto*

## REVIEW ARTICLES

- 37 Sleep-Monitoring Technology Progress and Its Application in Space**  
*C. Zhang, Y. Chen, Z. Fan, B. Xin, B. Wu, and K. Lv*
- 45 Venous Thromboembolism in Exploration Class Human Spaceflight**  
*S. Levasseur, N. Purvis, S. Trozzo, S. H. Chung, M. Ades, and L. M. Drudi*

## SHORT COMMUNICATION

- 54 Personal Hypoxia Symptoms Vary Widely Within Individuals**  
*B. D. Cox, D. G. McHail, and K. J. Blacker*

## COMMENTARY

- 59 Considerations for Medical Students' and Residents' Response to an In-Flight Call for Help**  
*J. Edelson and K. Ruskin*

## FEATURES

- 61 Aerospace Medicine Clinic—T. Bujak and J. Warneke**
- 65 This Month in Aerospace Medicine History: January—W. W. Dalitsch III**