

Diego M. Garcia. MD. MSHF.

Aerospace Safety & Human Performance



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Bio.

Award-winning physician-scientist, safety professional, and subject matter expert in human-systems integration. A specialist in Aerospace Medicine (IMG) with a master's degree in Human Factors, Dr. Garcia is highly trained and experienced in extreme human performance, aerospace safety, resiliency engineering, and translational research, having collaborated with leading institutions such as NASA, FAA, IATA, NTSB, and Embry-Riddle Aeronautical University. With over 15 years of professional experience, he has demonstrated success in human-systems integration, mission assurance, systems safety architecture, and optimizing performance in high-consequence operations.



Dr. Diego M. Garcia is an adjunct professor and researcher who collaborates with various universities, ICAO technical groups, and other umbrella organizations. He is also actively involved in the aerospace manufacturing industry, focusing on human-systems integration initiatives. His expertise spans aeromedical and safety policy enforcement at the governmental level, safety systems implementation and promotion, quality compliance, aircrew health, public health emergency preparedness, aeromedical retrieval, critical care medicine, accident investigation and evidence-based training. As a chartered lecturer and educator, his research interests include human-systems interface design and optimization, extreme human performance, space medicine, global health, and immersive simulation training. Dr Garcia is the 2024 recipient of the prestigious John Paul Stapp Award from the Aerospace Medical Association (AsMA).

Service and Professional Engagement.

•Aerospace Medical Association (AsMA).

- Chair: Communications Committee (SciComm).
- Elected: Member at Large.
- Member: Human Performance Committee.
- Member: Aerospace Safety Committee.
- Member: Mental Health Research Committee.

•ICAO Aviation Medicine Section

- Subject matter expert: Collaborative Arrangement for the Prevention and Management of Public Health Events in Civil Aviation (CAPSCA)
- Member: Aeromedical Provisions Working Group (MPWG).
- Member: Mental Health Working Group (MHWG).

• Aerospace Human Factors Association (ASHFA)

- Publicity & Communications Committee Chair

• Colombian Aerospace Medicine Association (ACMAE)

- Vicepresident.

Publications

- *Methods of aircraft disinfection to reduce airborne infectious disease transmission.* DeJohn C, Belland K, Garcia D. *Aerospace Medicine & Human Performance* 95.12, P 930-936. (2024).
- *Aerospace Medical Association Proposed Research Priorities for Mental Health and Safety in Aviation.* Hoffman WR, Tvaryanas ...Garcia D,. Aerospace Medical Association Mental Health Research Subgroup. *Aerospace Medicine & Human Performance* 95.11, P 845-850. (2024).
- *Driving Progress on Mental Health and Psychosocial Safety in Global Aviation: A Consensus Statement.* Royal Aeronautical Society (RAeS) & Aerospace Medical Association (AsMA), November. (2024). <https://shorturl.at/AGHln>
- *Plane Crash Extreme Survival-4 Children, 40 Days In The Amazon Jungle: Search, Rescue And Survivability Analysis.* Garcia, D., B *Aerospace Medicine & Human Performance* 95.8, P 581 (2024).
- *Subjective And Neurohormonal Comparisons Of A Virtual Reality Version Of The Optokinetic-Nystagmus Drum.* Casey, T., French, J., & Garcia, D., *Aerospace Medicine & Human Performance* 95.8, P 534 (2024).
- *Update: International Aeromedical Pandemic Lessons Learned.* Belland, K., DeJohn, C., Garcia, D., Allen, G., Glauadel, S., & Mills, B *Aerospace Medicine & Human Performance* 95.8, P 491 (2024).
- *Global Health Innovation Gap Analysis: Avoiding The Next Pandemic.* Garcia D.M., DeJhon C., Belland K. *Aerospace Medicine and Human Performance* 94.4, P 208. (2023)
- *Safety and Effectiveness Assessment of Ultraviolet-C Disinfection in Aircraft Cabins.* Belland, K., Garcia, D., DeJohn, ... (2024). *Aerospace Medicine and Human Performance*, 94.3, P 147-157. (2023)
- *Developing Evidence-Based Aeromedical Policy During The Covid-19 Pandemic.* Garcia D.M., Alves P. *Aerospace Medicine and Human Performance* 93.3, P 276. (2022)
- *Analysis Of The Colombian Civil Aviation Accident Rate Using The 'Human Factors Analysis And Classification System' – HFACS .* Gonzalez-Agudelo M., Agudelo-Suarez O., Garcia D.M., Giraldo-Alzate J. *Aerospace Medicine and Human Performance* 93.3, P 274. (2022)
- *Automation on the Rampage: The Boeing 737Max Case Study.* Salicrup, C., García, D.M., Holland, D., *Aerospace Aerospace Medicine and Human Performance* 92.6, P 465. (2021).
- *Guidelines: AC-PEL-67-003 - Mental Health of aeronautical personnel during the COVID-19 pandemic.* ICAO SAM Regional Safety Oversight Cooperation System. (2020) <https://shorturl.at/J8pln>
- *Book Chapter: Human Factors Requirements.* Cinelli I., Sobel A., Harvey J., Garcia D.M. In: Seedhouse E., Shayler D. (eds) *Handbook of Life Support Systems for Spacecraft and Extraterrestrial Habitats.* Springer, Cham. (2020)
- *Physiological Effects during Aerobic Flights on Science Astronaut Candidates.* Llanos, P., & Garcia, D.M., *International Journal of Medical and Health Sciences*, 14(9). (2020).
- *Physiological Effects on Scientist Astronaut Candidates: Hypobaric Training Assessment.* Llanos, P., & Garcia, D.M., *World Academy of Science, Engineering and Technology, Open Science Index* 166, *International Journal of Medical and Health Sciences*, 14(10). (2020).
- *RxEVA: Prescribing Human Performance Exploration Limits for Surface Operations.* R. L. Kobrick, Garcia D.M., et al., (2020) *IEEE Aerospace Conference*, pp. 1-20.
- *Panel: Automation In Aerospace And Healthcare: Challenges And Opportunities: Panel Overview.* Musselman, B., Garcia, D.M., *Aerospace Medicine and Human Performance* 91.3, P 194. (2020).
- *Human Factors Subsystem of the RxEva. Human-Centric Model for Prescribing Surface Eva.* Miller, L., Kobrick, R.L., Garcia D.M. *Aerospace Medicine and Human Performance* 91.3, P 170. (2020)
- *Surviving a non-survivable accident: LAMIA flight 2933.* Echeverri, J, Garcia, D, Brickhouse, A. *Aerospace Aerospace Medicine and Human Performance* 90.3, P 164. (2019)
- *Examining the perception and effectiveness of a system awareness briefing during cruise flight.* Winter, S. R., Milner, M. N., Anania, E.C., Rice, S., Walters, N. W., Garcia, D., & Baugh, B. S. *Collegiate Aviation Review International*, 37(1), 1-18. (2019).
- *Reports of in-flight incapacitation in Colombian civil pilots.* Garcia D; Salamanca M; Olarte C. *Aerospace Medicine and Human Performance*. 89.3, P 283. (2018).
- *Epidemiological Characterization of Aeromedical Certified Population in Colombia.* Garcia D; Salamanca M; Olarte C; Henao J. *Aerospace Medicine and Human Performance*. 89.3, P 187. (2018).
- *Guideliness paper: Guías para la Autorización para Transporte de Pasajeros con Condiciones Médicas Especiales.* Ministerio de Comercio, Industria y Turismo. Colombia. (2015). <https://shorturl.at/eMHLK>
- *Book Chapter: Seguridad Operacional y Accidentalidad Aérea como Riesgo Laboral.* Diego García MD. In *Riesgos Ocupacionales en Aviación Civil. Revisión Narrativa.* Fajardo.H, Diab. Editorial Académica Española. (2012).