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EVIDENCE-BASED APPROACHES TO SPACEFLIGHT PARTICIPANT TRAINING FOR COMMERCIAL SPACEFLIGHT

APPROCHES FONDÉE SUR L'EVIDENCE DANS L' ENTRAÎNEMENT DU PARTECIPANTS AUX VOYAGES SPATIALS COMMERCIALS

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Introduction: The commercial human spaceflight industry faces the novel challenge of preparing layperson spaceflight participants for the unique experience of suborbital spaceflight. There is currently limited experience in developing standard training techniques that have been demonstrated to be successful in training non-career astronauts for the physiological and psychological challenges of spaceflight.

Background: The recent studies in layperson tolerance to simulated suborbital spaceflight have provided a new perspective and insight into the likely needs and expectations of future spaceflight participants, as well as the potential physiological and psychological risks identified. The next step is to utilize this understanding to help guide and shape the development of specific training approaches within the commercial human spaceflight industry.

Summary: This presentation will discuss the challenges in developing such a training program and will identify potential ways in which such challenges may be addressed for the safe and successful preparation of participants for future suborbital spaceflight.