



The Neurosciences and the Practice of Aviation Medicine

Anthony N. Nicholson

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This book brings the neurosciences to operational and clinical aviation medicine. It is concerned with the physiology and pathology of circadian rhythmicity, orientation, hypotension and hypoxia, and with disorders of the central nervous system relevant to the practice of aviation medicine. The chapters on circadian rhythmicity and orientation deal with the impaired alertness and sleep disturbance associated with desynchrony and with the effects of linear and angular accelerations on spatial awareness. Hypotension and hypoxia cover cerebral function during increased gravitational stress, clinical aspects of exposure to acute hypoxia, the mild hypoxia of the cabin of transport aircraft, adaptation and acclimatization to altitude and decompression at extreme altitudes and in space. Disorders of particular significance to the practice of aviation medicine such as excessive daytime sleepiness, epilepsy, syncope, hypoglycaemia, headache and traumatic brain injury are covered, while neuro-ophthalmology, the vestibular system and hearing also receive detailed attention. The potentially adverse effects of the aviation environment and of disorders of the nervous system are brought together, and the text explores current management and therapeutics. "The Neurosciences and the Practice of Aviation Medicine" is an essential work for those involved in the practice of aviation medicine where familiarity with the effects of the aviation environment on the nervous system and understanding the pathophysiology of relevant clinical disorders are of prime concern. The authors from leading centres of excellence are physiologists concerned with the aviation environment and physicians involved in the day-to-day practice of medicine. They bring to this authoritative text wide experience and expertise in both the experimental and clinical neurosciences.

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