

Registered NDIS Provider

The clinical significance of the Alter G Anti-Gravity Treadmill is enabled by manipulating differential air pressure; creating a pressurised lifting force to decrease the impact of gravitational forces and body weight during locomotion. As a result, ground reaction forces are minimised and the associated muscles work at a safer, less strenuous level to attenuate forces

The Alter G appeals to any individual who has difficulty or reduced capacity related to full weight bearing during ambulation or exercise. Alongside smaller ground reaction forces, the gravitational load can be reduced from 100% to as low as 20% of body weight, allowing us to target biomechanical insufficiencies and maintain cardiovascular fitness without overloading the patient.



NEUROLOGIC - Similarly, gait training using the Anti-Gravity treadmill appeals the majority neurological of pathologies, improving the motor learning of kinematics that favour functional improvements; seen especially in Parkinson's Disease. Cerebral Palsy, Cerebrovascular Accidents, and Traumatic Brain Injury.

ORTHOPAEDIC - As it offers an alternative for weight-bearing exercise, orthopaedic patients see significantly reduced symptoms without compromising joint integrity; favouring osteoarthritis. **CARDIAC** - There is no significant change in heart rate, systolic blood pressure, diastolic blood pressure and mean arterial pressure associated with cardiac patients; allowing deconditioned clients to participate in treadmill exercise and stress testing. **GERIATRIC** - This heightened safety allows us to target gait kinematics and walking speed in geriatric patients, ultimately improving their balance and functional capacity in activities of daily living.

Consequently, the Alter G Anti-Gravity Treadmill proves to be a clinically significant tool in managing a variety of populations through decreasing physiological strain and heightening safety. With this technology, both the evidence-based research and our clinical experience have demonstrated it to be monumental in an individual's maintenance and improvements in capacity.

