**Title:** Hypertension Threat from Iron Brake Particulate Matter  
**William J. Rowe, MD, FBIS, FACN**  
Former Assistant Clinical Professor of Medicine, Medical University of Ohio at Toledo

**ABSTRACT**

With space flight (SF) significant reductions of serum Mg (P < 0.0001) despite poor serum sensitivity, shown in space shuttle crew members. Mg, a strong antioxidant and calcium blocker; with SF, there is oxidative stress, insulin resistance, inflammatory conditions; in experimental animals significant endothelial injuries to mitochondria, reductions in transferrin and in turn oxidative stress. Inhalation of Lunar iron (Ir) particulate matter contributes to stress test - hypertension on Earth return (ER): James Irwin's blood pressure (BP) 275/125 after 3 minutes of exercise (ER); Neil Armstrong showed very high diastolic BP 160/135 on ER, consistent with impaired cardiac function. Magnet (M) studies of value on moon; similarly, M studies on Earth used to quantitate high indoor Ir levels. Since over 90% of brakes made of Ir, combination Ir brake dust inhalation and Mg deficiencies in over 60% U.S. population, may be important factors intensifying worldwide hypertension.

**Biography**

William J. Rowe M.D. FBIS (Fellow British Interplanetary Society), FACN (Fellow American College of Nutrition, Retired Fellow Royal Society of Medicine), is a board certified specialist in Internal Medicine

5. Rowe WJ The Iron Brake Dust Age and the Female

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