



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.



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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

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