

## Hypertension Risk from Iron Brake Particulate Matter

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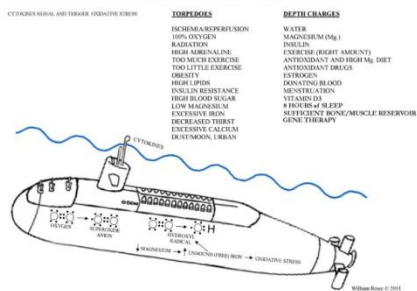
### Abstract:

Of 12 moon walkers, James Irwin on day after return from Apollo 15 mission, showed extraordinary bicycle (B) stress test (ST) hypertension (275/125) after 3 minutes exercise; supervising > 5000 maximum treadmill ST, author never witnessed ST- blood pressure approaching this level. Symptom-limited maximum B stress test showed “cyanotic fingernails”; possibly venous blood trapped peripherally, supporting author’s “Apollo 15 Space Syndrome,” postulating that severe fingertip pain during space walks, triggered by plasma fluid, trapped distally; mechanism could be related to endothelial dysfunction, providing “silent ischemia” warning. Neil Armstrong returned to Earth with severe diastolic hypertension (160/135), consistent with ischemic left ventricular dysfunction; 50 mm increase in comparison with resting BP 110/85. With inhalation of lunar dust, brought into habitat on space suit, with high lunar iron (I) this dust inhalation, along with reduced (R) space flight- transferrin, R antioxidant, calcium (Ca) blocker - magnesium, conducive to severe oxidative stress, Ca overload with potential endothelial injuries. Using moon walker studies as example, my recent editorials show that I dust, released from brakes, with over 90% of brakes made of I, is a major hypertension factor and may also contribute to myocardial infarctions.

**Keywords:** Iron Brake Dust, Hypertension, Cyanotic, Myocardial Infarctions

### Figures/ Images/ Graphs/ Table

CARDIOVASCULAR COMPLICATIONS OF OXIDATIVE STRESS AND PREVENTION WITH SPACE FLIGHT AND ON EARTH: THE CONSTANT BATTLE



### 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. He received his M.D. at the University of Cincinnati and was in private practice in Toledo, Ohio for 34 years. This triggered a 20 year pursuit of the cardiovascular complications of Space flight. He has published in LANCET that extraordinary, unremitting endurance exercise can injure a perfectly normal heart. Of only 4 space syndromes, he has published 2: "The Apollo 15 Space Syndrome" and "Neil Armstrong Syndrome."

**Research Interest:** Magnesium Deficiency, Cardiology, Hypertension

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