

12/30/13 00:10
Event: AF#0063: Influence of Lower Body Negative Pressure on the Level of Hydration During Bed Rest

Event Primary Information

Event Key Classification: *Other Research* *Research*

Full Title: AF#0063: Influence of Lower Body Negative Pressure on the Level of Hydration During Bed Rest.

Start Date (mm/dd/yy): / / 65

End Date (mm/dd/yy): / / 65

AIR1.941130.086a

Abstract: *Summary: Changes in blood volume were assessed using established tracer techniques following cardiovascular deconditioning produced by prolonged bed rest and long-term exposure (eight hours/day) to lower body negative pressure. Radionuclide dilution technique tracer study with minimal radiation exposure. Abstract: In four subjects bed rest was used to induce recumbency diuresis. This was manifested by a decrease in fluid balance, body weight, and plasma volume, accompanied with an increase in hematocrit. After the changes from bed rest had occurred, the use of LBNP over a two-day period resulted in rehydration manifested by an increase in fluid balance, body weight, and plasma volume, accompanied with a decrease in hematocrit. The use of LBNP is an effective means to restore hydration after recumbency diuresis has occurred. This has important applications to manned space flight when it is desirable to maintain the level of hydration. (Internal Medicine Branch)*

Point of Contact Information

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Investigators Information

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Notes:

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Facility where Event took place information

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