

# Elementary Morphology and Physiology for Medical Students

dimensions and function and also explored the use of oral saline loading as a countermeasure against postflight orthostatic hypotension. Studies in progress deal with reflex regulation of blood pressure (baroreceptor reflex).

A series of more detailed and comprehensive cardiovascular and pulmonary experiments will occur on future Spacelab flights to meet many of the objectives listed in the Goldberg Strategy for short-term flights, ranging from direct measurement of central venous pressure and cardiac output during maximal and minimal exercise, characterization of the baroreceptor reflex, and detailed study of the effects of microgravity on body fluid volumes and their regulation.

The validity of head-down tilt as a method of simulation of microgravity will also be explored. SLS-1 will also initiate the use of animals (rats) for the study of cardiovascular physiology. The SLS-1 experiments are also an important component in a unique NASA pilot program in which experiments planned for a Spacelab life sciences (SLS) flight will be discussed as a means of enhancing elementary and secondary school science classes.

With joint participation by NASA, ESA, and the German Space Program, the D-2 flight will extend the range of measurements and interventions with detailed observations during intravenous fluid load and lower body negative pressure.

## Lack of Progress

The number of subjects available for physiological and medical studies is generally fewer than would be desired. The Life Sciences Task Group of the Space Science of the Twenty-First Century study noted that increased participation by the crew in biomedical studies during all flights is an important objective.

A better understanding of cardiovascular and pulmonary physiology at all levels of investigation is still a major science goal and a requirement for a significant rational approach to space medicine, including the development of scientifically sound countermeasures against, and adaptation to, changing gravitational forces.

There are only limited Soviet data on the cardiovascular consequences of *prolonged* exposure to microgravity. The U.S. data are limited to the Skylab exposure, which produced data on medium-term exposure. Much more information is needed on cardiovascular and pulmonary responses to the changing loading conditions in space, and on the interactions between the cardiovascular system and its control mechanisms.

Potential interactions between the space environment and cardiovascular and pulmonary physiology modified by disease processes or pharmacological

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