

FUNCTIONAL STATEMENT

BIOMEDICAL RESEARCH OFFICE

The Biomedical Research Office is responsible for developing, implementing, and conducting biomedical research programs related to human tolerance and performance limitations which will provide requirements and reference data for the development of manned space flight equipment and operations. The Office also provides research support for inflight medical experiments. Specifically, the functions include:

1. Identifying the nature and kinds of medical problems requiring solutions in order to insure successful manned space flight operations.
2. Establishing, directing, and evaluating specific research programs/projects to be sponsored or undertaken to determine man's capabilities and limitations for space operations. This includes research efforts in such disciplines as cardiovascular physiology, toxicology, respiratory physiology, and others.
3. Establishing and operating selected biomedical test and evaluation laboratories in support of Center program requirements.
4. Establishing specific medical requirements in terms of human tolerance and performance limits to serve as overall physiological criteria in spacecraft design and mission

planning; providing a responsive reference point for design engineers and medical operations mission planners concerning physiological limitations; and representing the medical viewpoint in tradeoff considerations during spacecraft design.

5. Support the in-flight medical experiments program by:
 - a. Providing ground baseline and simulation control studies in support of approved experiments.
 - b. Determining through pilot research studies the biomedical feasibility of proposed experiments.
 - c. Providing biomedical guidance and consultation for medical experiments.

The Chief, Biomedical Research Office, reports to the Director of Medical Research and Operations.