

and to include about 50,000 persons in county (Clay). Activities are centered around Smithville Community Hospital and the group practice clinic as a nucleus.

2. *Multiphasic testing of an ambulant population—direct cost \$421,471*

This project is designed to establish centers for performing series of diagnostic laboratory tests to identify the most useful tests feasible for screening large rural population groups; determine the different patterns for ill and healthy populations as an aid in detection of heart disease, cancer and stroke in pre-clinical stages. Model test centers will be established at the University Medical Center, Columbia, Missouri, and the State Mental Hospital in Missouri. A third is planned for the Smithville complex.

3. *Computer fact bank—direct cost \$279,365*

This project is designed to develop and apply techniques for delivering latest information on diagnosis and care of patients with stroke and allied diseases to the local physicians. Electronic data information storage and retrieval system will be developed at the University Medical Center (Columbia, Missouri) and later extend to include Smithville and other communities in the region.

4. *Mass screening-radiology—direct cost \$54,814*

This project will help improve the accuracy of radiologic diagnosis of heart disease, cancer and stroke through electronic communications media. Three small rural hospitals will be hooked into the University of Missouri computer and Department of Radiology to evaluate diagnostic efficiency and determine applicability of ultra-sound and thermography in diagnosis and therapy.

5. *Comprehensive cardiovascular care units—Springfield, Mo., direct cost \$69,347*

A comprehensive care unit for grouping patients with heart disease or other circulatory system illness or who have been admitted for other purposes but require close cardiac observation is being developed. The project is to be undertaken at hospitals without a house staff, where it is hoped that grouping of patients will relieve the workload for nurses on general medical and surgical wards. St. John's Hospital medical staff and Greene County Medical Society are coordinating activities with 3 local hospitals in Springfield.

6. *Communication research unit—direct cost \$61,743*

Supporting research unit for program to identify public attitudes and knowledge about heart disease, cancer, and stroke; to understand motivations for seeking health care and to determine and develop effective methods for communicating with public and lead them to seek medical care.

7. *Data evaluation, computer simulation and systems design—direct cost \$329,712*

This program will help to determine data needed from the public and physicians for early detection of heart disease, cancer and stroke through studies on the form of data, mechanisms for classifying, storing and retrieving data most effectively.

8. *Bioengineering project—\$229,129*

The aim of this activity is wider distribution in rural areas of sensor transducers, for early detection of heart disease, cancer and stroke and to generate more information on physiological patterns of these diseases.

9. *Program evaluation center—direct cost \$103,899*

Through a multidisciplinary research approach accumulate data in two separate communities about health care, needs and attitudes as a base for developing instruments for measuring quality of care and levels of health in terms of an individual's function in his community.

10. *Automated patient history—direct cost \$77,561*

This project is testing the feasibility of an automated system for obtaining patient history and analyze complaints prior to examination by physicians, as an aid in early disease detection.

11. *Automated electrocardiography in a rural area—direct cost \$369,000*

To provide hospitals and physicians in rural areas with automated facilities for transmitting electrocardiograms and an automated system for analyses of ECG's; to demonstrate the feasibility of such systems where this service is limited or non-existent, and to develop, test and implement the use of bioengineering signals as aid in diagnosis.