

## Report on Advancements Made In Treatment of Heart Ailments

CHAPEL HILL—The North Carolina Heart Association has received frequent requests during the past year for a list of some of the advances made by Heart Fund-supported heart research.

The state heart group now has compiled such a list which, it says, "speaks for itself as a living example of the Heart Association's impressive contribution to the health of our community and nation."

The North Carolina Heart Association was founded 15 years ago by 39 North Carolinians and, in the meantime, it has spawned a statewide network of 99 local Heart Associations with more than 85,000 volunteers. Some of the advances of the past 15 years that have resulted from research sponsored in whole or in part by the American and North Carolina Heart Associations are listed below. They have already resulted in the saving of many lives in North Carolina and throughout the country.

- Exploration of the use of high-oxygen pressure chambers in heart surgery.
- Development of microsurgery techniques for operating on coronary arteries.
- Greater knowledge of how the heart derives the energy it requires in order to do its work.
- Major clarification of the basic mechanisms involved in heredity.
- Broad insight into cell processes in bacteria and their role in causing disease.
- Increased understanding of the relation between the way the body handles fatty substances and atherosclerosis, the disease process underlying most heart attacks and strokes.
- Elucidation of glandular function in relation to cardiovascular disease.
- Expanded comprehension of how cardiac drugs are handled by the body.
- Improved understanding of the problems involved in trans-

planting organs, including the processes through which the body normally rejects heart transplants.

- Added findings on the mechanisms involved in blood clotting.
- Improved understanding of the processes involved in the aging of the heart muscle.
- Development of models for artificial or substitute hearts.
- Application of computers to investigation of heart and blood vessel physiology.
- Development of vastly improved techniques for diagnosing cardiovascular disease, including catheterization and x-ray of blood vessels.
- Introduction of techniques for analyzing enzyme levels in the blood as an aid to diagnosis of heart damage.
- Vastly increased accuracy in diagnosis of renal disease.
- Development of heart-lung machines to take over the circulation during surgery on the heart.

- Greatly improved corrective surgery for congenital and acquired heart disease.
- Successful implantation of artificial pacemakers to maintain a regular heart rhythm in persons whose natural pacemaking mechanisms have been impaired.
- Successful kidney transplants between identical twins.
- Use of the heart-lung machine to perfuse cancer-afflicted areas of the body with cancer-retarding drugs.
- Development of methods to prevent recurrences of rheumatic fever.
- Use of anticoagulant drugs in medical and surgical treatment of cardiovascular disorders.
- Introduction of external massage for retarding a stopped heart (closed-chest cardiopulmonary resuscitation).
- Improved therapeutic control of water and electrolyte metabolism in congestive heart failure.
- Development of the artificial kidney to purify the blood of

toxic substances when the natural kidneys fail.

- Vastly increased safety and wider application of blood transfusions.
- Successful application of pressure-raising drugs to treat shock.
- Development of various types of drugs for treating hypertension.
- Application of new rehabilitative measures in patients with

### --Law

Continued from page 3B  
many Communists would you have to find to make it Communist-infiltrated?"

Briefs asking that the Louisiana law be struck down were filed by the NAACP Legal Defense and Educational Fund, the American Civil Liberties Union and the Na-

tion of cardiovascular disease.

- Establishment of wide-ranging epidemiological studies on incidence, prevalence and mortality due to coronary heart disease and atherosclerosis which, among other things, have led to:
- Identification of the high-risk coronary heart disease patient.
- Derivation of data permitting practical advice on diet in relation to cardiovascular disease.

**THANK YOU!**  
The family of Mrs. Henrietta Roberts of 1022 Maxwell Ave., wishes to thank their many friends for the kind words, sympathy cards, flowers, and other donations during the bereavement of the family.  
The Roberts Family

### --Bennett

Continued from four B  
al and social activities will be available through the cooperative efforts of the three institutes.

Coordinating the use of facilities and resources will be John C. Moore, director of summer services. It is expected that the three institutes will use a number of undergraduates as laboratory, teaching and office assistants. Inquiries concerning these sum-

mer opportunities should be directed to Dr. Trobian for the Humanities Institute, to Dr. Bardolph for the Honors Institute and Dr. Sayles for the Science Institute.

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