Facts about The Strong Heart Study

• The Strong Heart Study (SHS) is a study of cardiovascular disease and its risk factors among American Indians.

• The SHS has a field center in each of the following areas: Arizona, the Dakotas, and Oklahoma. SHS also has a coordinating center in Oklahoma, Penn Medical Laboratory in Washington DC, an ECG and ultrasound reading center at Weill Medical College of Cornell University in New York, and a genetics center in San Antonio, TX.

• SHS began in 1988 and has continued through five phases of study. SHS added other family members to the study in 1997.

• SHS is the largest, longest longitudinal study in the U.S. of heart disease and its risk factors in individuals with diabetes.

• SHS is a population based study and has a retention rate of 90%. This shows the extraordinary commitment of SHS participants.

Arizona
MedStar Health Research Institute
The Strong Heart Study
1616 E. Indian School Road
Suite #250
Phoenix, AZ 85016
Phone: (602) 277-0488

Dakotas
Strong Heart Study – Dakota Center
Missouri Breaks Industries Research Inc.
HCR 64, Box 52
Timber Lake, SD 57656
Phone: (605) 964-3418 or (605)-964-1260

Oklahoma
Center for American Indian Health Research
University of Oklahoma Health Sciences Center
1-888-231-4671

Strong Heart Study Field Clinic Lawton, Oklahoma
Lawton Indian Hospital
1515 N.E. Lawrie Tatum Road
Lawton, OK 73507
Phone: (580) 248-7715

Strong Heart Study Field Clinic Anadarko, Oklahoma
Anadarko Indian Health Center
115 Northeast Old Town Drive
Anadarko, OK 73005
Phone: (405) 247-2458, ext. 8705

Visit our web site at:
http://strongheart.ouhsc.edu

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The good news is that your environment (where you live, how you spend your time, what you eat, etc.) can change the way your genes give information to your body. For example, if you eat healthfully and exercise regularly, you might be able to avoid having heart problems, even if both of your parents have heart problems.

Heart Disease, Genes, and American Indians

Scientists discovered that American Indians living today appear to be more likely to get heart disease than other groups of people. Learning about the genes of American Indians will help us determine why American Indians are currently at a higher risk for heart disease than other people are. Genes are located in particular places on the chromosomes, and the SHS has found some places on certain chromosomes that affect risk factors for heart disease (see image to the right). We hope our future research will lead to more answers about the exact genes affecting your risk of heart disease and how the environment can change the way the genes tell the body to work. For example, a certain form of a gene might make a person more likely to get heart disease, but only if that person also smokes cigarettes or has a particular diet.

Understanding how genes and the environment affect American Indians can improve your health and quality of life.