Computer Aided Diagnosis (CAD) assists doctors in the interpretation of medical images. Imaging techniques in diagnostics yield a great deal of information, which radiologists have to analyze and evaluate comprehensively in a short time. CAD systems help scan digital images, for example from digital mammography, for typical appearances and to highlight conspicuous sections, such as possible disease.

CAD is a relatively young interdisciplinary technology combining elements of artificial intelligence and digital image processing with radiological image processing. A typical application is the detection of a tumor. For instance, hospitals use CAD to support preventive medical check-ups in mammography for diagnosis of breast cancer.

Computer Assisted Diagnosis increases the sensitivity of digitized mammography. CAD was developed from a pool of thousands of computerized photos of abnormal mammograms. It assists the radiologist in interpreting the mammography by marking abnormalities it detects with a red flag. The technology also decreases the number of false negatives.

Computer Assisted Diagnosis improves diagnosis and contributes significantly to the level and quality of care.

**Donation and Donor Recognition**

Cost of Computer Assisted Diagnosis: $50,000. We appreciate your consideration of this gift. Appropriate donor recognition will be provided.

*Thank you!*
Soroka Medical Center

Soroka Medical Center is among Israel’s largest and most advanced hospitals, and the country’s most active. Soroka is the only major medical center in the entire Negev, serving a population of more than one million inhabitants, including 400,000 children, in a region that accounts for 60% of the country’s total land area. Soroka serves as the teaching hospital of the Ben-Gurion University Medical School, whose Faculty of Health Sciences is located on the hospital campus.

On par with leading international institutions, Soroka is a recognized specialist in areas including early detection and treatment of breast cancer using minimally invasive procedures; revolutionary treatment of myocardial infarction involving genetic engineering; non-invasive removal of malignant tumors; trauma rehabilitation of children and adolescents; pediatric infectious diseases; and much more.

Each year, Soroka cares for more than 500,000 outpatient clinic visits and 200,000 emergency cases, 80,000 hospitalizations fill its 1,000 beds, over 32,000 surgical procedures are performed, and more than 13,000 babies are born.

Soroka Medical Center is dedicated to advancing research and to providing the best medical and emergency care, while treating the patient as a whole human being. Soroka combines medical excellence, dedication, and the achievements of pioneering Israel, with significant opportunities to partner in meeting very immediate needs and having a very real impact on the lives of families and children.

Breast Health Center at Soroka

The mission of the Breast Health Center at Soroka Medical Center is to provide the women of the entire southern half of Israel with compassionate, comprehensive, modern breast health care on a par with world-class centers in the Americas and Europe.

More than twenty thousand women are examined annually in the breast imaging unit and the clinical examination wing. Over three-hundred and fifty new cases of breast cancer are diagnosed and treated each year.

Recent developments at the Center include significant expansion of education and support-group programs, including Hebrew, Russian, and Spanish speaking groups; introduction of new early detection programs; research projects with university psychology and pathology departments; and a fellowship program in breast surgery.

The Breast Health Center at Soroka has become a leader in the early diagnosis and minimally invasive treatment of breast cancer. The cure rate has increased. By staying in the forefront of the fight against breast cancer, the Breast Health Center will provide the best care and hope for the women of the Negev, in its effort to prevent and cure this all too common disease.