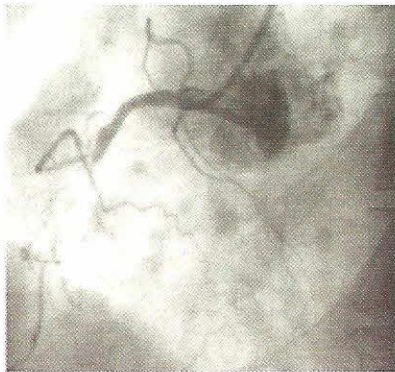
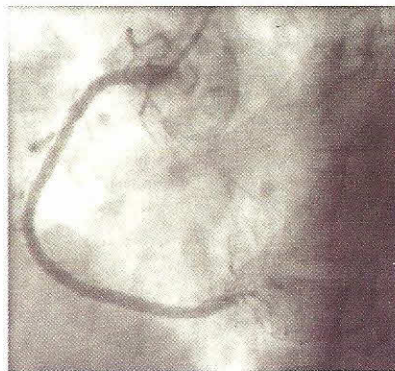


# Specialty Services in Cardiology

The CTO procedure offers hope to patients who cannot find relief from other medical modalities.



*Before CTO procedure*



*After procedure*

## CHRONIC TOTAL OCCLUSION

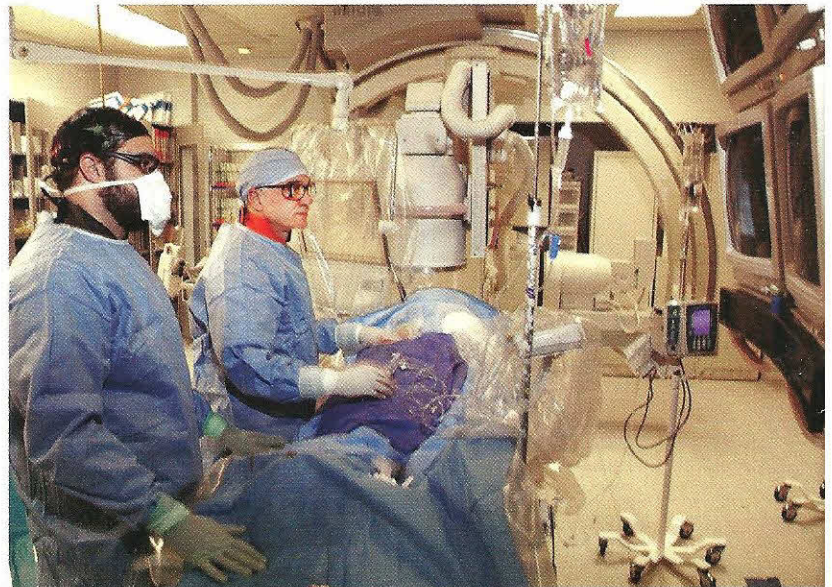
Good Samaritan Heart & Vascular Center has an organized program to identify and open coronary artery chronic total occlusions. Our interventional cardiologists use a balloon catheter to gain access to the blocked vessel and a laser to vaporize the occlusion.

The procedure offers hope to patients who cannot find relief from other medical modalities. It can be performed on any coronary artery, although the right coronary is the most common. The center performs 150 cases per year with an 80 percent success rate in opening totally blocked arteries. Restenosis is less than 10 percent.

The complication rate is comparable to angioplasty rates. The procedure provides relief from heart failure symptoms and may improve survival rates.

### Indications for treating CTO include:

- objective evidence of ischemia
- refractory angina
- heart failure
- shortness of breath and chest pain
- failed bypass grafts
- failing medical therapy
- poor candidate for bypass surgery due to age or illness





# at Good Samaritan Hospital

Good Samaritan offers the region's **first dedicated program for performing coronary angiography and angioplasty** via the radial artery.

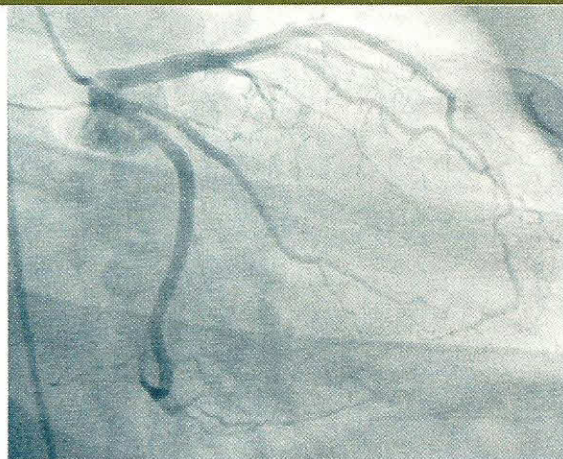
## TRANSRADIAL CARDIAC CATHETERIZATION

Interventional cardiologists at Good Samaritan Hospital are among the first in the region to perform coronary angiography and angioplasty procedures on a routine basis from a radial artery approach. Patient comfort is increased by using the radial artery in the wrist, and patients can ambulate immediately after the procedure. This avoids the traditional post-procedural bed rest. Additionally, based upon recent studies, bleeding complications can be reduced by using a wrist approach.

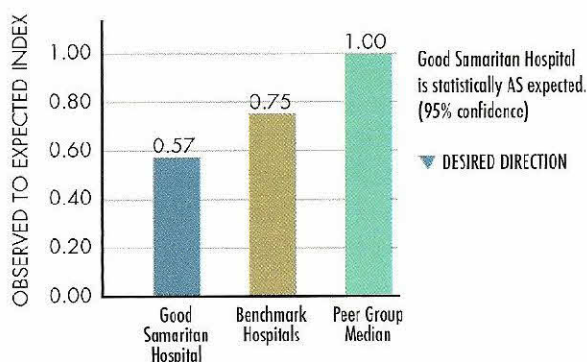
With the advent of low-profile catheters designed to be used from the radial artery approach, the technique may be applicable to 90 to 95 percent of patients. Interventional cardiologists working at Good Samaritan Hospital, embracing the advantages of transradial cardiac catheterization, are viewing all patients as potential candidates for this approach.

Since we initiated the program in October 2009, more than 400 transradial procedures have been performed. Patient comfort and satisfaction have been quite high, ensuring future growth in this arena.

A PCI patient's odds of survival at Good Samaritan are **43 percent better than expected for comparable hospitals.**



### Percutaneous Coronary Intervention Patients Risk-Adjusted Mortality Index



Source: Thomson Reuters 100 Top Hospitals: Cardiovascular Benchmarks Study, based on 2008 data

When comparing risk-adjusted mortality rates for PCI, Good Samaritan Hospital outperformed 137 peer hospitals (urban teaching hospitals), as well as the median benchmark for the top 30 in our hospital category. A PCI patient's odds of survival are 43 percent better than expected for comparable hospitals.