

Results from the PROspective Multicenter Imaging Study for Evaluation of chest pain (PROMISE) Trial

Purpose: To compare the medical costs of initial anatomic imaging with coronary CT angiography (CTA) to an usual care with functional stress testing in subjects with chest pain.

Trial Design: Prospective, multicenter, open label, randomized with parallel assignment. Patients presenting with new chest pain randomized to coronary CTA or functional stress testing. N= 10,003.

Primary Endpoint: time to first event – composite of major cardiovascular (CV) events

Secondary Endpoint: medical costs, resource use, and increase in cost effectiveness

Trial Results	Cost at 90 days	At 2 years
CT	\$2,534	
Functional stress testing	\$2,255	
	Cost Difference = \$279.	Cost Difference = \$30.

Conclusions: the difference in costs for the use of these tests was small and not significant. The use of either approach produced clinical and economic results that were very similar.