



**MENTORED RESEARCH TRAINING GRANT – CLINICAL AND TRANSLATIONAL**

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***Cognitive Trajectories Before and After Coronary  
Revascularization in the Elderly***

This project uses a large, population-based dataset to study the impact of two common heart procedures performed to improve blood flow to the heart (coronary artery bypass grafting [CABG] and percutaneous coronary intervention [PCI]) on cognition and memory in elderly adults, both at a population and individual level, over a time span of roughly 15 years. The analysis will also identify subsets of patients who are at unusually high risk of cognitive decline. Results will help clinicians counsel older patients who need coronary revascularization, because of heart attacks or heart artery blockage, about what cognitive change to expect after a procedure. Furthermore, this study may provide data to help reconcile the research entity of "postoperative cognitive dysfunction" with long-term, clinically-relevant estimates of cognitive change.