The HERQuLES team of Abt Associates Inc. has extensive experience conducting various strategic and tactical, prospective and retrospective research and consulting services in acute and chronic cardiovascular indications. Examples of this work are presented here.

### Indications
- Acute coronary syndromes
- Acute myocardial infarction
- Atrial fibrillation
- Cardiac revascularization procedures
- Congestive heart failure (CHF)
- Hypertension (HTN)
- Lipid management
- Minimally-invasive heart procedures
- Nuclear imaging
- Perioperative myocardial ischemia
- Stroke
- Unstable angina
- Venous thromboembolism

### Strategic Consulting and Research
- Strategic outcomes research and reimbursement plan for a new atrial fibrillation treatment
- Strategic outcomes research and reimbursement plan for new cardiology diagnostic test

### Strategic Consulting and Research
- Strategic outcomes research and reimbursement plan for a drug in acute coronary syndromes
- Strategic economic and outcomes research plan for an agent prior to Phase II trials for an acute exacerbation in CHF
- Strategic outcomes research planning for a beta-blocker in CHF
- Strategic economic research plan in minimally-invasive heart surgery procedures
- Multiple AMCP-compliant dossiers for an ACE-inhibitor in CHF and HTN
- Preparation and presentation of economic justification for formulary inclusion in Canadian provinces
- Communications on HRQL burden of stroke

### Selected Prospective Studies
- Global patient outcomes registry in coronary revascularization procedures
- Cardiac imaging and outcomes longitudinal patient registry
- Longitudinal patient tracking following revascularization procedures
- Clinical and data management for a clinical trial of artificial heart
- Economic substudy of Phase II trial in perioperative myocardial ischemia
- Economic substudy of Phase III trial in acute coronary syndromes
- Phase III and IV studies in HTN of ACE-inhibitors, a beta blocker, a calcium channel blocker and a diuretic.
- Phase IV study for the treatment of arrhythmia
- Phase III study for the treatment of CHF with a calcium channel blocker
- Patient preference study of warfarin vs. aspirin vs. no treatment in atrial fibrillation
- Clinical and economic assessment on a new medical device used for preventing perioperative hypothermia

### Selected Retrospective Database Studies
- Cost and clinical outcomes analysis of angiotensin receptor blockers
- Analysis of use of cardiac procedures and outcomes in myocardial infarction in the US and Canada
- Trends in the use of drug therapies in acute myocardial infarction
- Medicare analysis of care and outcomes in atrial fibrillation
- Multiple employer studies in HTN
- Retrospective managed care analysis of stroke in Brazil and Argentina
- Retrospective analysis of multiple databases in cardiovascular metabolic risk factors (NHANES, ARIC)

### Selected Modeling Studies and Syntheses
- Cost-effectiveness model of prevention of long-term complications of deep vein thrombosis
- Economic impact of under-prescribing ACE inhibitor for CHF
- Cost-effectiveness model of amiodarone prophylaxis in coronary artery bypass grafting
- Economic model evaluating nitroglycerin drug regimens in angina
- Budget impact model of hypertensive drug in managed care organizations
- Literature synthesis of effect of beta-blockers on health-related quality of life in patients with CHF
- Economic analysis of transmyocardial revascularization
- Economic model in atrial fibrillation

### Selected Public Policy and Quality Improvement Assignments
- Assessment of impact of drug utilization review on adverse outcomes in CHF
- Design of a Medicare demonstration project for CHF disease management
- Development of a quality monitoring system for a Medicare hospital-based cardiovascular care demonstration project

### Selected Publications

• Lee WC, Christensen MC, Joshi AV, Pashos CL. Long-term cost of stroke subtypes among Medicare beneficiaries. Cerebrovascular Diseases 2006; in press.


• Reddy P. Does prophylaxis against atrial fibrillation after cardiac surgery reduce length of stay or hospital costs? Pharmacotherapy 2001; 21(3): 338-44.


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