

TITLE

Same-day discharge after Percutaneous Coronary Intervention

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RESEARCH PROJECT DESCRIPTION (brief overview of background, hypothesis, methods, role of medical student, funding and relevant publications)

By convention, elective percutaneous coronary intervention (PCI) patients are observed in the hospital overnight then discharged home the following day irrespective of the complexity of the procedure or the risk profile of the patient. However, the complication rate for elective PCI for stable angina is exceedingly low and most procedure related complications occur within 6 hours after the procedure. Despite the low procedure related complication rate, only about 1.25% of elective PCI patients are discharged home the same day after the procedure. A same-day discharge after PCI program is a novel strategy in contemporary heart disease management, and it may yield a significant improvement in hospital throughput and cost savings without compromising patient care. We intend to develop a guideline based and clinically sound protocol for a same-day discharge after PCI program within the confines of existing hospital regulations and logistical limitations.

Medical students will participate in:

- 1) Data management and analysis of patient satisfaction and clinical outcome.
- 2) Analyze direct and indirect cost savings associated with the same-day discharge after PCI program with an opportunity for presentation.

Funding for the project is provided by the VA Transformational Innovation grant.

- 1) Rao SV, et al. "Prevalence and outcomes of same-day discharge after elective percutaneous coronary intervention among older patients." JAMA 2011; 306:1461-7
- 2) Abdelaal et al. "Same-day discharge compared with overnight hospitalization after 1 uncomplicated percutaneous coronary intervention: a systematic review and meta-analysis." J Am Coll Cardiol Intv 2011; 6: 99-112.