**Assignment:** 4 Proposal

**Course:** BMI 506

**Date:** April 6, 2015

**Goal: Testing and Validation.** Demonstrate, using working prototype OR mockup, the function of your CDSS. Develop test cases designed to identify various aspects of its operation and possible points of failure. May include visualization methods and feedback from representative users..

**Project Title:** Patients Like Mine (PLM)

**Team Members:** Matt Halbert (591), Eric Holden (506), Tara Salehpour (506,591), Michelle Winerep (591)

# Acquire: Patient Data, Possible Sources

* Mayo Clinic, Dr. Murcko
* Synthetic Clinical Records, Antonella Di Pace
* Manufacture mock patient data

# Goal: Working Prototype

* Plan/ Execute: Model Driven CDS Authoring Tool with guidance
  + Knowledge Model (classes and objects)
  + Requested a meeting with Dr. Sottara for technical guidance
  + Complete statement of work with BMI591 team members
* Potential Barriers
  + Access to requisite data
  + Time
  + Team member’s technical skills

# Aspects of Operation

* Input template:
  + Patient attributes relevant to risk of post-op colorectal bleed
  + User defined attributes and ranges for search and retrieval
  + Query generation from template and patient information
* Possible points of failure
  + Data structure, free text
  + Ex. Demographics, radiological reports, medical history
  + Missing or incomplete data/ Inconsistent data
  + Ex: Database contains more values for surgery start time than surgery stop time.