

## **Study Start-up Dashboard**

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### **1. Background**

The University of Kansas Cancer Center (KUCC) has a large volume of clinical trials that are proposed each year. The sheer variety and amount of these trials required the development of a comprehensive centralized system to track and manage them. This centralized system needs to provide an easy way to track metrics regarding the various studies throughout their lifetime, specifically where they are during the start-up process. The start-up process at KUCC involves many different regulatory committees evaluating prospective trials for feasibility. The metrics gathered from the centralized system regarding the start-up process will allow these management teams to make objective decisions regarding the future of these studies. Currently reports are generated weekly or built on demand regarding these metrics and distributed among the management teams, this project seeks to change that.

### **2. Goals**

This project seeks to develop a dashboard that can generate user reports on demand and provide an easy overall transparent picture of where a study stands in the start-up process. This dashboard will pull data from a centralized database.

### **3. Solutions and Methods**

Study data is entered into the Velos eCompliance system which acts as the centralized database. Automated SQL queries regularly dump the data from Velos where it is used to generate reports which are then distributed to the clinical trials office. Using a Shiny R dashboard users from the clinical trials office are empowered to get near real-time numbers through the dashboard reports instead of getting reports generated weekly.

### **4. Outcomes**

The dashboard provides a level of transparency that was not currently available to study management, it allows for better planning and projection regarding the activation of trials and helps avoid conflicting study initiation, as shown in the figure.

### **5. Lessons Learned and Future Directions**

Future projects will involve the development of more dashboards that track other metrics of the studies. Also, further refinements can be made to this by breaking down the start-up process into even more stages.

Figure:

