
DENNIS STEED & DONALD BATISKY

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Required Skills:

Range from acquiring resources from FHIR interface to presenting them in a human interface optimized for pediatrician interpretation. We anticipate that presentation of trends in tabular and graphical manners will be needed.

Preferred Team Communications:

Anticipate two hours per week by online audio/video conference, but flexible.

Data Sources:

All data are available in two FHIR resources – patient and observation. Demo data are available in the SMART Sandbox from Boston Childrens. Also, Childrens Healthcare of Atlanta (where Dr. Batisky practices) has recently upgraded to Epic 2017 with FHIR support and would be the ultimate target platform for clinical use

Other Items:

Project has timezone flexibility. Mentors and students will determine a good time for virtual meeting

This is a continuation and expansion of a pediatric BP project done Spring 2017.

PEDIATRIC GROWTH AND BLOOD PRESSURE

The normal values for height, weight, body mass index, and blood pressure vary in a complex nonlinear fashion as children age and grow. It is often difficult for pediatricians to have a feel for when these parameters are abnormal. Dr. Batisky is a pediatric nephrologist at Emory University. Dr. Steed is a retired adult endocrinologist.

PROJECT OBJECTIVES

Collect vital signs data through a FHIR interface and present the height, weight, BMI, and blood pressure longitudinally in a manner clearly showing when a child's progress is not normal.

SUCCESSFUL PROJECT

There are currently separate SMART apps for growth and for blood pressure. Since these apps have many similarities, combining them into a single app that can present everything in a unified view would greatly simplify interpretation for clinicians. For example, obesity has become the leading cause of pediatric hypertension. It could be a significant benefit if pediatricians can see normalized BMI and Blood pressure trends in a single display.

Intellectual Property: Students will own the IP from this project.

That code can be made available as a starting point