Opportunity and Significance

18 million U.S. adolescents, ages 18–21, are moving into adulthood and will need to transition from pediatric to adult-centered health care.

My Transition Explorer assists patients with chronic illnesses to properly transition from pediatric care to full-time adult specialist physicians.

Technical Objectives

Helping patients keep track of medication and milestones needed to achieve better care for their chronic illness.

Create a fully dynamic administrator interface so that physicians can change information and learning modules as they see fit.

Related Work and State of Practice

My Transition Explorer allows patients to gain a baseline understanding of their disease and management options. This project expands on a separate application known as myHealthKeeper which is primarily aimed towards tracking organized patient-reported medical information. Together these two applications compliment one another by easing the concerns and effort of the patient when managing their specific condition.

Technical Approach, Accomplishments and Results

Created the My Transition Explorer web application to help adolescent patients with chronic illnesses transition to adult physician care. The patient will be accessing the user end of the web application. The administrator will be dynamically able to tailor the web application based on the patient’s chronic illness.

The web application was developed using the following full stack: PHP, JavaScript, Bootstrap, MySQL, and Apache.

Next Steps for Development and Test

The next steps for development and testing it to implement functionality for expansion of the chronic illnesses supported by DMC Hospital.

Additional tools such as varied modules will also further aide in expanding the patients’ disease knowledge.

Commercialization Plan & Partners

This project was sponsored by Amrit Misra, MD from DMC Hospital. Additionally, the project was overseen by Sanaz Rabinia Haratbar, Dr. Sam Bryfczynski, and Dr. Seyed Mojab.

The target administrators for this project are all doctors handling chronic diseases at DMC. Target users include all patients with chronic diseases transitioning to adult care.

There are no current plans to commercialize the product, as it is currently being utilized strictly by Dr. Amrit Misra and DMC.

In order to commercialize for additional medical establishments, the application will need to be properly protected under intellectual property protection, and prepared for licensing and marketing.