

My Diabetes University Application for Teens

ABSTRACT

Recently Healthcare Information Management and Quality in general and quality of Personal Health Records (PHRs) in particular have become a major focus of attention to both policy makers and the public. Spiraling expenses experienced by patients with chronic diseases have become an unbearable burden and threaten to bankrupt the entire healthcare system. Finding alternatives in the 21st century means to addressing these issues without sacrificing the care of patients. Using the internet to improve quality of patients' lives is a top priority of our team. We have recently focus on developing the online application called MyDiabetesUniversity (MDU) for teenagers with type 1 diabetes to improve their autonomy and disease self-management. We specifically focus on easing transitions from their homes to college, as well as when leaving specialized care at Children's to join a general medical environment. MDU application is currently based on the freely available Microsoft HealthVault framework for PHRs.

BIOGRAPHY

Eugene Kolker

Chief Data Officer

Seattle Children's Hospital

Dr. Eugene Kolker is Chief Data Officer at the Seattle Children's Hospital and Head of the Bioinformatics & High-throughput Analysis Laboratory and Director of the High-throughput Analysis Core at Seattle Children's Research Institute. Eugene co-founded OMICS A Journal of Integrative Biology and serves as its Editor-in-Chief. He is also affiliated with the Division of Biomedical and Health Informatics, Department of Medical Education and Biomedical Informatics, School of Medicine, at the University of Washington. Some of his other current activities include: Vice-President and member of the Board of Directors of the Genomics Standards Consortium; member of the Human Proteome Organization's New Technologies and Resources Committee; member of NIDDK's External Advisory Board for the NURSA Consortium; member of IBM's Health Care and Life Sciences Advisory Council; and Co-Chair of Health Information Technology Resource Center of Patient-Centered Primary Care Collaborative.

IQIS, MIT, Boston July 14th, 2010

My Diabetes University

Eugene Kolker

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4/23/2010



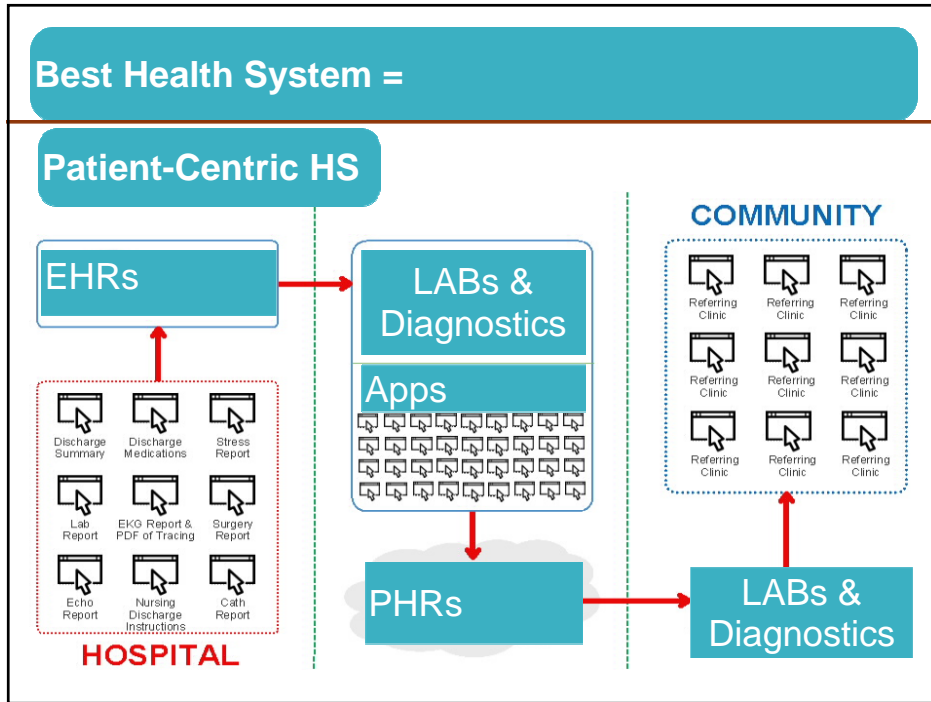
Seattle Children's
HOSPITAL • RESEARCH • FOUNDATION

UW Medicine
SCHOOL OF MEDICINE

21st vs. 20th Century Science and Medicine

***“Life sciences will be for the 21st Century
what physical sciences were for the 20th”***

Elias Zerhouni, 2009



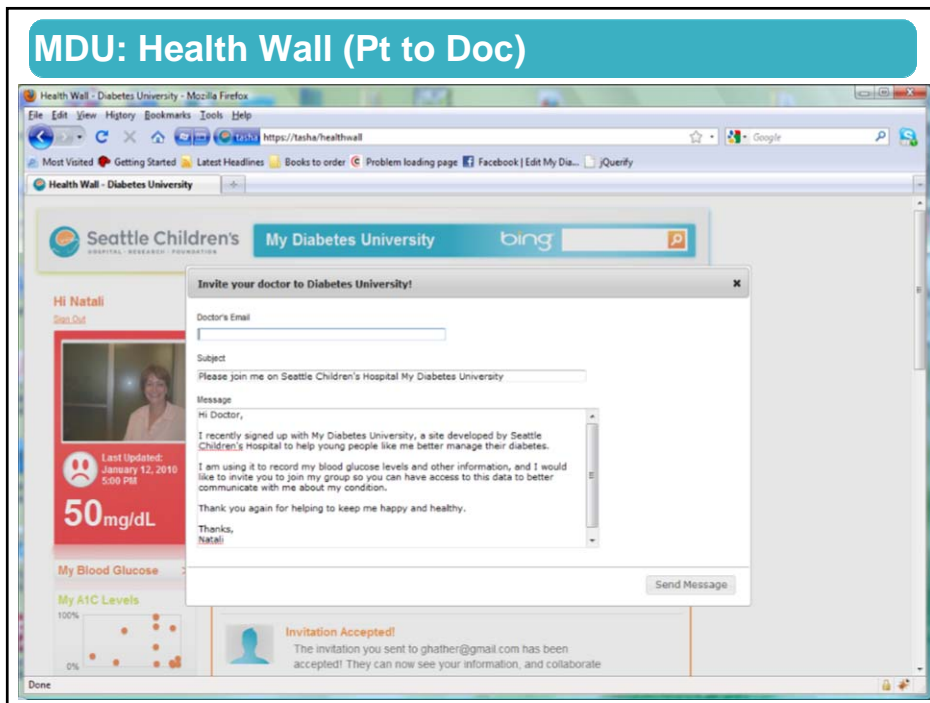
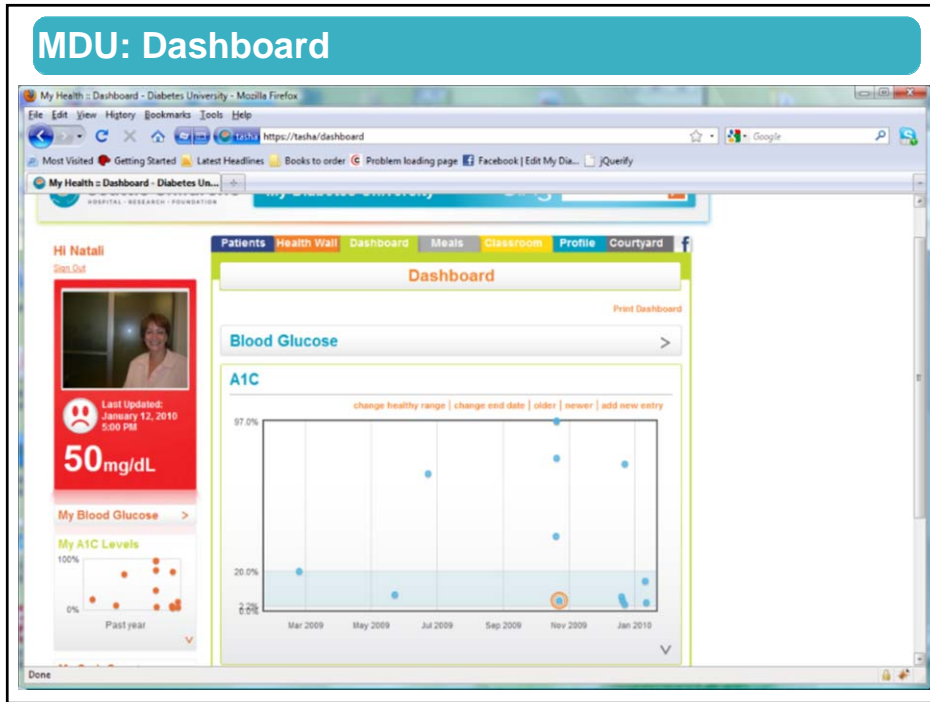
My Diabetes University (MDU) Application

- **Goal:** **autonomy** and **health self-management** for **patients with type 1 diabetes**
- Specifics: **ease lifestyle transitions** for teens
- **Application** designed **with** teens (vs. **for** teens) via focus groups

MDU: Summary

- **Functional Elements:**
 - Diabetes relevant data and statistics (e.g. Glucose readings, tests [HbA1c readings], meals, etc.)
 - Discussion forum and Reminders for patients & providers
 - Educational surveys and links
- **Social networking**
- **Flexible personalization** at will





MDU: Health Wall (Reminder)

Seattle Childrens My Diabetes University

Hi Natali
[Sign Out](#)

50 mg/dL
Last Updated: January 12, 2010 5:00 PM

My Blood Glucose >

My A1C Levels

100%
0%

Health Wall

[Write your doc!](#)
Hey, Doc!

It's time to update your information!
It has been 3 days since you last updated your blood glucose measurements. It is important that you keep these measurements up-to-date so you can stay healthy and so your doctor can make sure you're doing alright.
5 minutes ago

Meals Updated
I have recently updated my meal history for 1/13/2010.
1/13/2010 [View Meals](#)

Invitation Accepted!
The invitation you sent to gthater@gmail.com has been accepted! They can now see your information, and collaborate

MDU: Doc's Page

Seattle Childrens My Diabetes University

Patients

Hi Natali
[Sign Out](#)

Patient	Diabetes Type	Last Reading	7 Day Average	Latest Health Wall Post	Actions
	Unknown	No Data	No Data	No Health Wall Posts yet.	Manage End Relationship
Peeter Proov					Relationship Ended
Greg OurGreg					Relationship Ended
Natali Kolker					Relationship Ended

My Information
The following will be displayed to your patients.

Upload new profile image:

Email Address: natali.kolker@seattlechldre
Work Phone: 425 856 71 23

