

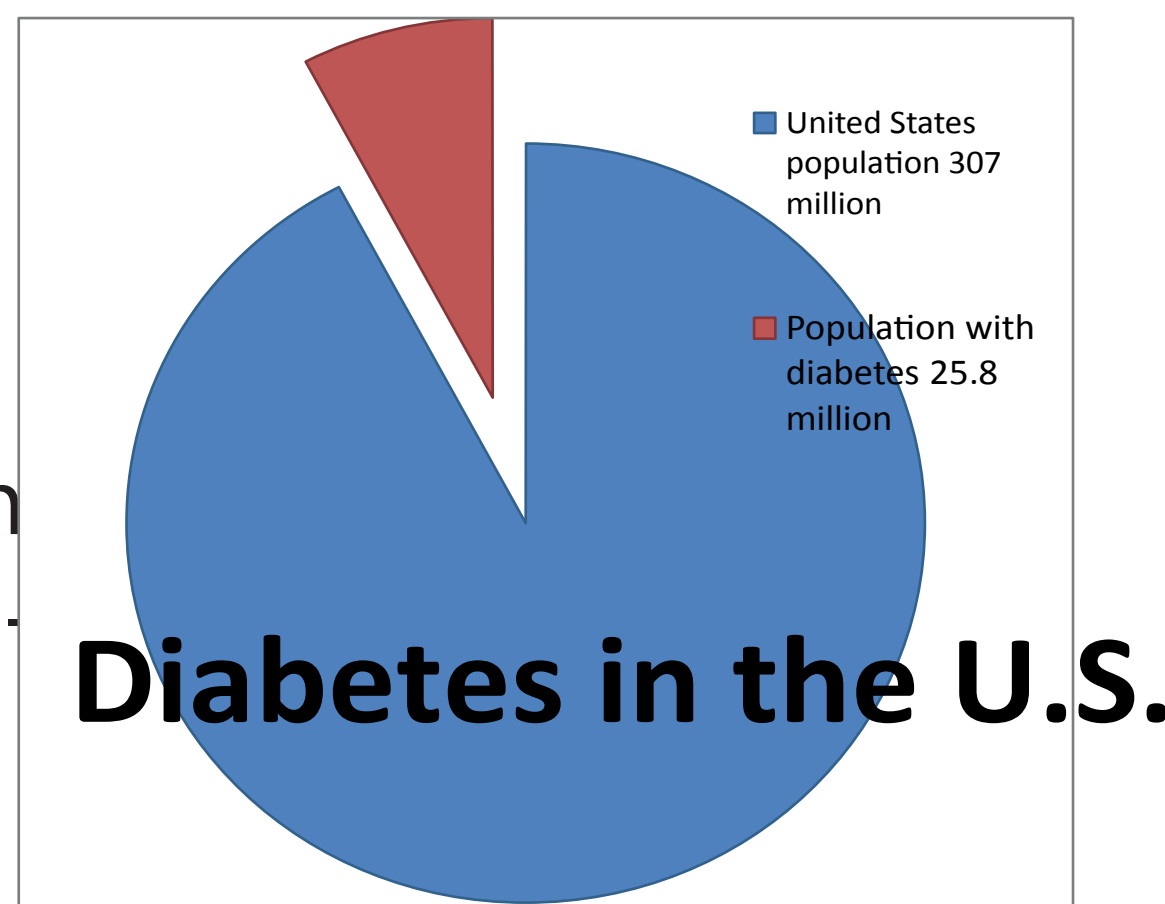


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Acknowledgement: We would like to acknowledge Dr. Ellizer for his commitment and dedication towards our project.

Introduction

In 2005, diabetes was ranked as the 5th leading cause of death in the world. Diabetes treatment cost was \$185 billion dollars in 2010 in the United States alone. This project is aimed at the use of telemedicine in monitoring and reporting blood glucose levels from home to Sinai hospital for diabetic patients. Our target audience are underrepresented and low-income patients of Mount Sinai Hospital.



Objective

IIT C.A.R.E.S. is collaborating with Mount Sinai hospital to implement practice of telemedicine to:

1. Increase the quality of care for diabetes patients.
2. Decrease the costs.

By providing telemedicine, it allows patients to send daily glucose readings to the hospital via mobile device which can be analyzed by a clinician.

Multi-Phase project

Phase 1

Summer 2011

- Research available technologies
- Obtain the ethics requirement for succeeding semesters

Phase 2

Fall 2011 (Planned)

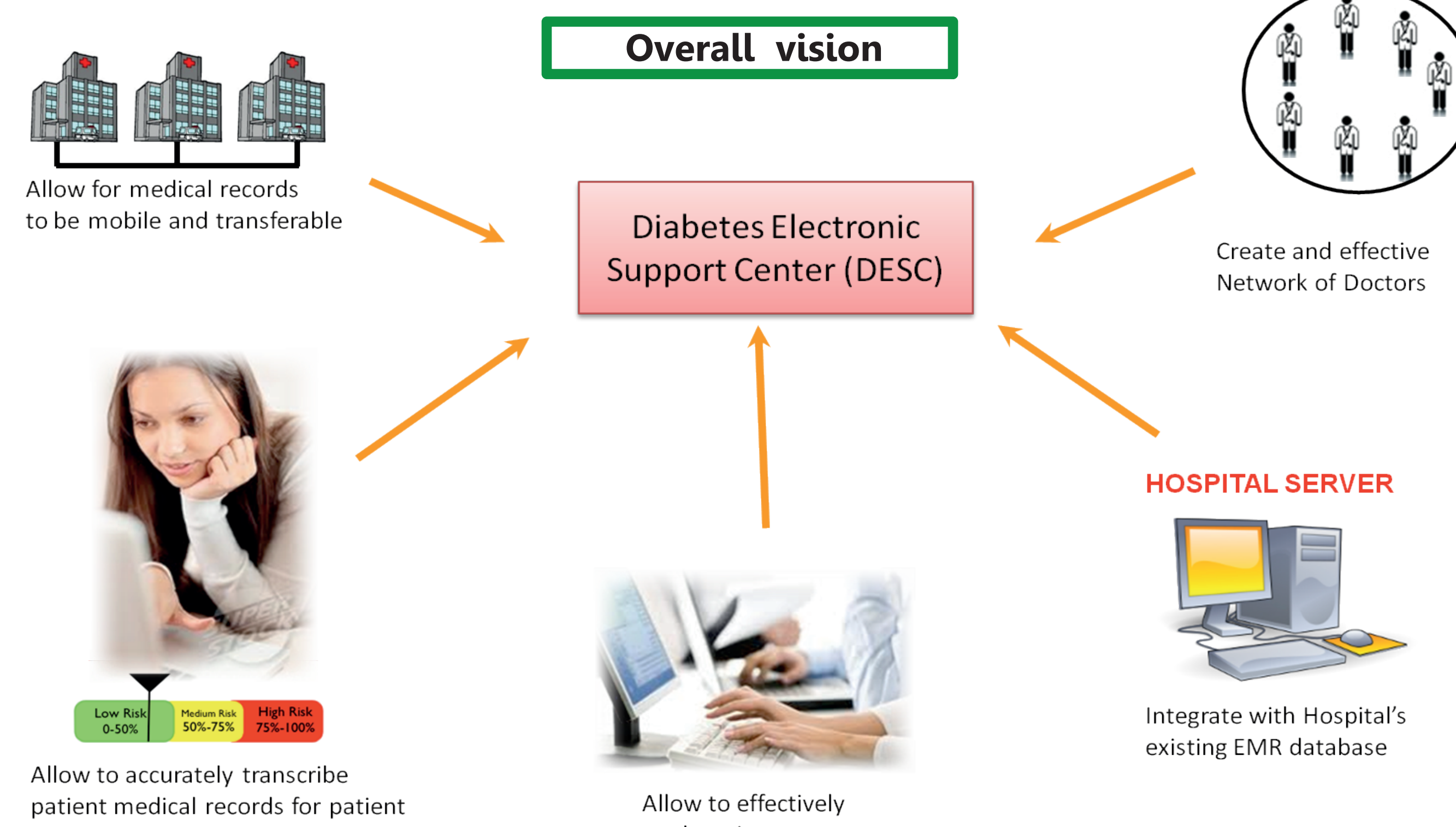
- Interview Mount Sinai administrators
- Perform a trial experiment of chosen device to a group of 25 diabetic patients of Mount Sinai

Phase 3

Spring 2012 to Summer 2012 (Planned)

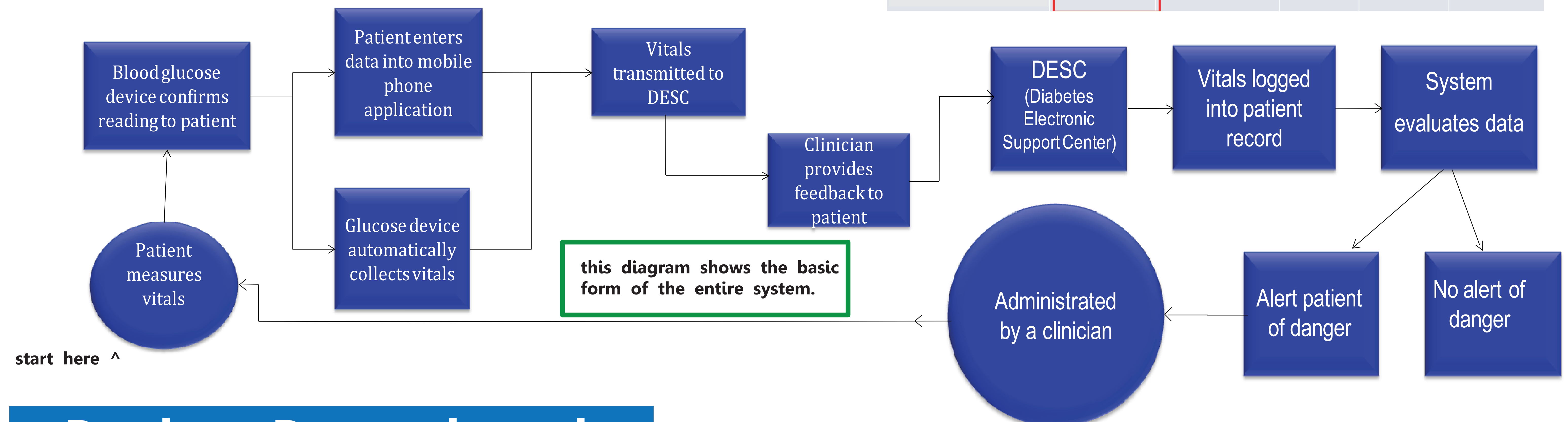
- Implement diabetic support center at Mount Sinai
- Administer devices to Mount Sinai diabetic patients

Product Concept



Diabetes Electronic Support Center (DESC) compared with other HealthServers

	DESC	Google Health	Cerner	Atrius	Versus
Simplify & Manage Official Medical	✓	✗	✗	✗	✗
Simplify & Manage Medical Information	✓	✓	✗	✗	✗
Connect Patients to Clinicians	✓	✓	✗	✓	✗
Connect Clinicians to Clinicians	✓	✗	✓	✗	✓
Home Access of Medical Information	✓	✓	✗	✓	✗
Remote Patient data tracking	✓	✗	✗	✗	✗



Product Research and Comparison

We have searched many different blood glucose measuring devices and softwares. So far our best choices are:

Mobile Phone Applications

APPS	Glucool	Log for Life	Glucose Meter	Glucose Buddy
Features				
Platform	Android	iOS	Android	iOS
Online Data-base Sync	✓	✓	✓	✓
Auto-Sync with Blood glucose meter devices	✗	✗	✓	✗
Under 5 taps (to add data)	✗	✗	✓	✓
Other features	✓	✓	✓	✓
Our choice	4	3	1	2

Blood Glucose Devices

Devices	HealthPal	Glucotel	Telcare	Bayer Contour USB Blood Glucose meter
Features				
Measures other vitals	✓	✓	✓	✗
Under 3 clicks	✓	✓	✓	✗
FDA approval	✓	✓	✗	✓
Online database	HealthCOM	BodyTel Center	MyTelecare	Glucofacts Deluxe
Data availability	Patients & Clinician	Patients & Clinician	Patients & Clinician	Patients
Our choice	1	2	3	4