**ehr**gonomic

## Health Design Challenge

November 30, 2012

Submission by John Healy and Gabriel Diaz

### **Design Goals**

Our design puts the patient first, with a focus on three major areas:

### Usability

- Most often used information above the fold
- Exportable to calendar
- Easy filtering

#### Readability

- Spaced for at-a-glance reading
- Details expandable

#### **Accessibility**

- Responsive design
- Print view expands all details

### Patients First

We created ehrgonomic to help patients better understand and use their medical records, while also improving the provider experience and minimizing errors.

### Usability

Current information on medicines and appointments are above the fold and exportable to a calendar to help patients manage their care. History items are combined into a single filterable section for easy reference.

### Readability

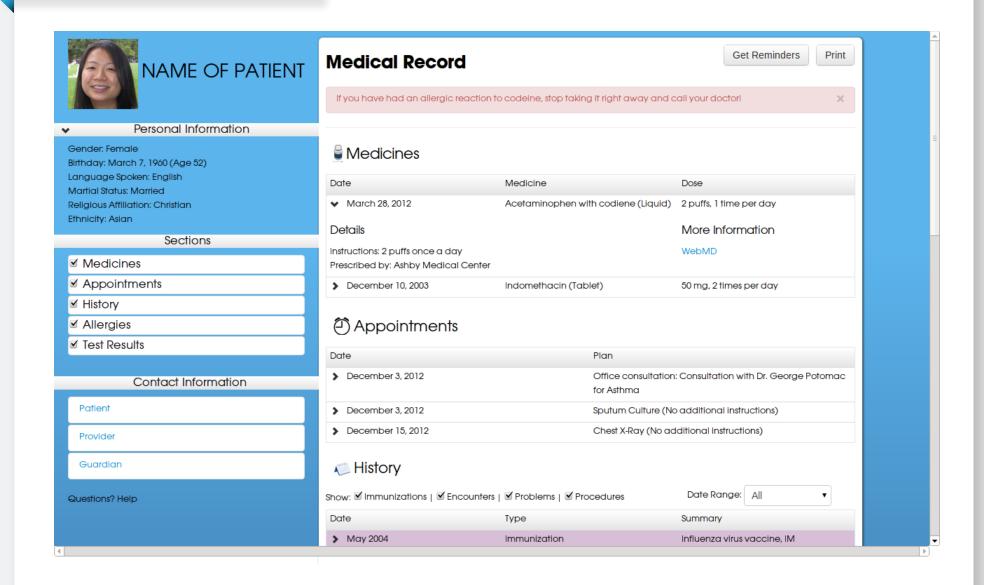
Spacing and text density are designed for at-a-glance viewing, with details in expandable panels. Sections may be toggled or filtered using simple checkboxes.

### **Accessibility**

Responsive layout displays easily on desktops, tablets and phones, and in response to changes in text size. Printed view automatically expands all details so all information is present.

### **Main View**

### Desktop and Tablet



### **Main View**

## Desktop

### Organization

All personal and contact information is in the sidebar. Sections of the record can be toggled on and off with simple checkboxes.

### **Ordering**

Warnings, medications and appointments are at the top for easy, repeated access (see previous page). History and allergies are placed below (view at right).



### **Mobile View**

### On the go and in the operating room

#### Responsiveness

Mobile layout retains the same style while collapsing patient info into a menu. Tables are limited to three columns to be readable in portrait mode.

#### **Full-Featured**

All filtering and collapsing features remain, and all data is present. There is no need to view a "desktop version" or learn a new "mobile version" - they are one and the same.





### **History**

# See the forest **and** the trees

### **Simplicity**

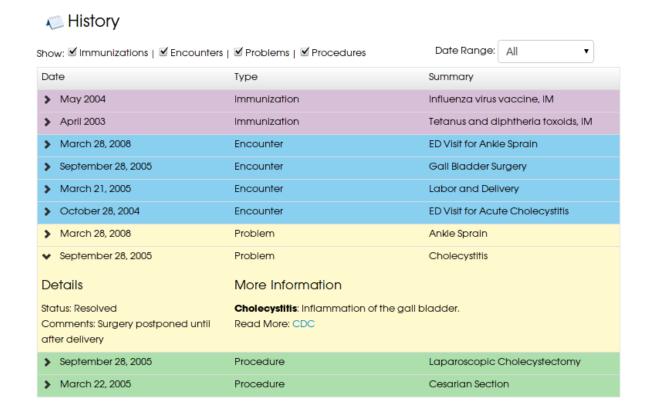
The four components of the medical history are visually distinguished by color while being unified in a single module.

#### Sortability

The module can be filtered by type and date, making a complete immunization record or a three-year history a click away.

#### **Education**

Expanded details section provides an approved definition of medical terms and links to peerreviewed information.



### **Test Results**

#### Consistency

Results are displayed as a table to keep a consistent look and feel throughout the record. This section is filterable the same way as the History section.

#### **Impact**

Results are shown in red and bold if they are outside the target range. Green is avoided for normal results due to colorblindness.

### **Emphasis**

Scales are not used in order to keep focus on binary test results (Normal / Not Normal).

### Focus on **results**



Item	Value	Result	
Cholesterol	180 MG/DL	Normal	
HDL	60 MG/DL	Normal	
Triglyceride	112 MG/DL	Normal	
Cholesterol, Non-HDL	76 MG/DL	Normal	
LDL	149 MG/DL	Normal	

### **Team**



### Ehrgonomic Project Team

#### **John Healy**

John Healy is a project manager and web developer for Atto, a New York-based web consultancy. John Healy majored in Bioengineering at the Massachusetts Institute of Technology. He previously spent two years as the technical founder of Access Clean Energy, a startup dedicated to improving access to wind and solar power for residential customers. He has also worked on Gigi, an integrated health-care management platform that connects doctors to their patients online.

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#### **Gabriel Diaz**

Gabriel Diaz is the Founder and CEO of Atto Consulting. Gabriel oversees teams of designers and developers while building web applications for clients. He is also the founder of Tech Startup Pizza Night, a monthly networking event designed to bring together founders, developers and investors. Gabriel majored in psychology and studio art at Yale University. He spent 2 years in financial services consulting prior to becoming Atto's managing partner.

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