

i2b2-based Registries Home

i2b2-based Registries

This is the home of the Related Project - i2b2-based Registries space.

The Cincinnati Children's Hospital Medical Center (CCHMC) i2b2 team has extended i2b2 to create an enhanced patient registry and an associated web-based toolkit. It provides the necessary functionality in a modular fashion, allowing users to choose the capabilities that are appropriate for their project. The enhanced registry architecture includes linkage to the EHR and an application layer that allows the development of functionality to support quality improvement and comparative effectiveness research. There are capabilities for data collection to capture information that is not collected in an EHR, as well as mechanisms for reporting and visualization.

Versions of the CCHMC i2b2 code and data documents can be found at the CCHMC SVN: <https://bmi.cchmc.org/svn/i2b2/i2b2/public/>

Example Project: Liver Transplant Registry

Within CCHMC's i2b2 based Liver Transplant Registry users can:

1. **View/Edit EHR data:** Specific EHR fields are identified, mapped to i2b2, and displayed in either a read only, or editable format. Any changes are tracked through an audit trail and users are alerted through a color coding system if a new/different value is available to pull from the EHR.
2. **Perform Data Entry:** Through the use of forms users can add additional data to the i2b2 database.
3. **Run Pre-defined Reports:** Numerous pre-defined reports have been developed for users to run as needed.

View/Edit EHR Data: Patient Information

The screenshot displays the i2B2 Workbench interface for the Cincinnati Children's Research Foundation. The top navigation bar includes links for Home, Find Patients, Chart Review, Data Entry, Analysis, Import/Export, and Feedback. The user is logged in as 'Welcome: [redacted] (Logout)'. The project is 'Liver QA/Test Environment'. The main section is titled 'Liver Registry' and shows data last refreshed on 02/27/2011 and patient last updated on 03/03/2011. The 'Patient Information' tab is active, showing a list of fields: Demographics, Contact Info, Care Giver Info, Insurance Info, and Provider Info. The 'Patient Demographics' section is expanded, showing fields for MRN, First Name, Middle Name, Last Name, Alias, and DOB. Each field has a red 'E' icon indicating it is editable. The bottom of the page shows the copyright notice: ©2003-2010, Cincinnati Children's Hospital Medical Center, CCHMC | i2b2admin.

Name:	Alias:	MRN:	i2b2 ID:	DOB:
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]

Patient Information	
Demographics	Patient Demographics
Contact Info	MRN
Care Giver Info	First Name
Insurance Info	Middle Name
Provider Info	Last Name
	Alias
	DOB

View/Edit EHR Data: Clinical Information


i2B2 Workbench
 Cincinnati Children's Research Foundation

Project: Liver QA/Test Environment

Welcome: (Logout)

[Home](#) | [Find Patients](#) | [Chart Review](#) | [Data Entry](#) | [Analysis](#) | [Import/Export](#) | [Feedback](#)

Data Entry Add Patient

Choose Study: Liver Registry Change Patient Switch to 'View' mode

Name: Alias: MRN: i2b2 ID: DOB:

Your form contains errors. [Click here to view](#)

Liver Registry

Data Last Refreshed: 02/27/2011
 Patient Last Updated: 03/03/2011, by

Patient Info Clinical Info Research

Clinical Information Save

- Tracking/Score
 - Referral
 + Evaluation
 + Listing
 + Pre-Transplant
 + Transplant
 + Post-Transplant
 - Immunosuppression
 - Outside Admissions
 - Ext

Patient Tracking/Current Score (if on W/L)

Patient Status	
MELD or PELD	 E
Calculated Score	 E
Match Score	 E
Status 1	 E
Exception points included in this score	 E
Reasons for Exceptions	 E
Specify Other	 E

©2003-2010, Cincinnati Children's Hospital Medical Center
 CCHMC | i2b2admin

Perform Data Entry: Clinical Information

 i2B2 Workbench
Cincinnati Children's Research Foundation

Project: Liver QA/Test Environment

Welcome: (Logout)

[Home](#) | [Find Patients](#) | [Chart Review](#) | [Data Entry](#) | [Analysis](#) | [Import/Export](#) | [Feedback](#)

Data Entry

Add Patient

Choose Study:

Liver Registry

Change Patient

Switch to 'View' mode

Name:

Alias:

MRN:

i2b2 ID:

DOB:

Your form contains errors. [Click here to view](#)

Liver Registry

Data Last Refreshed: 02/27/2011
Patient Last Updated: 03/03/2011, by

Patient Info

Clinical Info

Research

Clinical Information

Save

Tracking/Score

Referral

Evaluation

Evaluation

Evaluation Comments

Vitals

Listing

Pre-Transplant

Transplant

Post-Transplant

Immunosuppression

Outside Admissions

Exit

Evaluation Information

Add [Evaluation]

New

Date of Evaluation

Date of Team Discussion

Outcome of Team Discussion

If Deferred, reason for deferral

Organs evaluated for

Additional Organs Evaluated

Primary Liver Disease at Evaluation

©2003-2010, Cincinnati Children's Hospital Medical Center
CCHMC | i2b2admin

Run Pre-defined Reports:

i2B2 Workbench
Cincinnati Children's Research Foundation

Project: Liver QA/Test Environment

Welcome: [User] (Logout)

Home | Find Patients | Chart Review | Data Entry | Analysis | Import/Export | Feedback

Available Plugins

Please choose a

--select--
 Chart Review
 Demographics Distribution Comparison
 Demographics Distribution
 Patient Listing
Liver Reports

plugin...

Analysis Plugin

Specify Data | Plugin Help

Click on the button below which shows the name of the selected Liver report.

1) Choose a report

--select--
 Liver:Age at Transplant Report
 Liver:Billary Tract Report
 Liver:Current Wait List Report
 Liver:Donor Report
 Liver:Financial Tracking Report
 Liver:Graft Survival Report
 Liver:Immunosuppression Report
 Liver:Immunosuppression Standard Deviation Report
 Liver:Length of Stay Report
 Liver:Outcomes Report
 Liver:Patient Survival Report
 Liver:Pharmacy Report
 Liver:Population Management Report
 Liver:Pre Transplant Deaths Report
 Liver:PTLD Report
 Liver:Rejections Report
 Liver:Retransplant Report
 Liver:Transplant Geographics Report
 Liver:Vascular Complications Report
 Liver:Volume Report
 Liver:Wait Time Report

Run: Liver Reports | Reset

Previous Queries | Workplace

Liver Testing

©2003-2010, Cincinnati Children's Hospital Medical Center
CCHMC | i2b2admin

Example Report: Liver Age at Transplant Report

Analysis Plugin

Specify Data | View Results | Plugin Help

BIRT Report Viewer

Showing page 1 of 3

Liver Age at Transplant Report
Last Run on 03/29/2011 15:16:41

Age at Transplant (Last 25 Transplants)

Measure	Calculation
Age at Transplant - Median	3 Years
Age at Transplant - Mean	5 Years
Age at Transplant - Minimum	0 Days
Age at Transplant - Maximum	21 Years
Number of Patients less than or equal to 1 year of age	9
Number of Patients greater than 1 year of age	16
Number of Patients greater than or equal to 18 years of age	1
Percentage of Patients less than or equal to 1 year of age	36.00%
Percentage of Patients greater than 1 year of age	64.00%
Percentage of Patients greater than or equal to 18 years of age	4.00%

Age at Transplant (Patient Specific)

Date of Transplant	Last Name	First Name	MRN	DOB	Ethnicity	Gender
	ABO	Transplant Number	Age at Transplant			

More information can be found on the CCHMC i2b2 project site: <http://i2b2.cchmc.org>.