

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 Liver Registry. The top navigation bar includes the i2b2 Workbench logo, the project name "Cincinnati Children's Research Foundation", and the specific project "Project: Liver QA/Test Environment". A welcome message and a "Logout" link are also present. The main menu includes "Home", "Find Patients", "Chart Review", "Data Entry", "Analysis", "Import/Export", and "Feedback".

The "Data Entry" section is active, showing a "Choose Study:" dropdown set to "Liver Registry". Below this, there are buttons for "Add Patient", "Change Patient", and "Switch to 'View' mode". A patient information summary bar displays fields for Name, Alias, MRN, i2b2 ID, and DOB, each with a corresponding input field.

The "Liver Registry" section is titled, with a "Data Last Refreshed: 02/27/2011" and "Patient Last Updated: 03/03/2011, by [redacted]" note. The "Patient Information" tab is selected, showing a "Save" button and a list of fields for patient demographics. The fields are: MRN, First Name, Middle Name, Last Name, Alias, and DOB. Each field has a corresponding input field with a red "E" icon indicating a change or error.

At the bottom, the copyright notice reads: "©2003-2010, Cincinnati Children's Hospital Medical Center CCHMC | i2b2admin".

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
 Specify Other E

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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

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Run Pre-defined Reports:

I2B2 Workbench
Cincinnati Children's Research Foundation

Project: Liver QA/Test Environment

Welcome: XXXXXXXXXX (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...

Previous Queries
Workplace

Liver Testing

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

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Example Report: Liver Age at Transplant Report

Analysis Plugin
Specify Data View Results Plugin Help

BIRT Report Viewer
Showing page 1 of 3 Go to page:

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

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