

Using BigMouth – Registered user

Logging in to BigMouth

Open the URL <https://bigmouth.uth.edu/secure> in a web browser and click on “Access BigMouth >>Registered Access/Login”

The screenshot displays the BigMouth Dental Data Repository website. The header includes the UTH Health Houston logo and the site title. A navigation bar contains links: About Us, Join BigMouth, Access BigMouth, Research and Publications, Contact, and Login. A dropdown menu for 'Access BigMouth' is open, showing options: Registered Access/Login (highlighted with a red arrow), Controlled Access/Research Requests, Release Notes, and Register a New User. The main content area features a wireframe model of a tooth, a bar chart, a horizontal bar chart, and a line graph. A banner at the bottom reads 'BigMouth Dental Data Repository'.

UTHealth Houston BigMouth Dental Data Repository

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About Us Join BigMouth Access BigMouth Research and Publications Contact Login

BigMouth Dental Data Repository

Registered Access/Login


Controlled Access/Research Requests


Release Notes

Register a New User


BigMouth Dental Data Repository

Click on “Click here to log in”

 **BigMouth Dental Data Repository**


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 / BigMouth Dental Data Repository / Access BigMouth

Registered Access/Login

Already registered?

 [Click here to log in!](#) You will be redirected to your institution's identity management system.

Availability

Access to the above BigMouth Query interface is available to anyone affiliated with the [partnering institutions](#).

Researchers from all partnering and non-partnering institutions can request data through the formal data request. [Click here](#) for more information.

The repository is generally always online except for daily system maintenance at **2:00 - 3:00 AM Central Time**. Outside of this time period, please [let us know](#) if you experience any problems connecting or searching.

[Controlled Access/Research Requests](#)
[Release Notes](#)
[Register a New User](#)

For InCommons Federation Members – Enter your organization's name, click 'Continue', select your institutional logo, and log in using your organization-provided username and password on the Shibboleth authentication page.



The University of
Texas System

Select your institution

This service requires you to authenticate with your home institution. Make a selection below and click continue.

Please don't bookmark this page

Use a suggested selection:



Marquette
University



The University of
Texas Health Sc...

Or enter your organization's name

Continue

[Allow me to pick from a list](#)

Always follows this selection

- ☒ Never
- ☐ One day
- ☐ 3 months
- ☐ 9 months

UTHealth Authentication

UT ID:

Password:

Login

[change password](#) | [password help](#)



WARNING! You are currently accessing a protected information resource. Unauthorized use is **PROHIBITED!** Usage of this system may be subject to security testing and monitoring. Misuse is subject to criminal prosecution. There is no expectation of privacy except as otherwise provided by applicable privacy laws.

[privacy & security](#) | [contact](#) | [UTHealth](#)
date last modified: July1, 2010

BigMouth layout

Terms

Any Category

Axium

UTHealth - 491,491

Combined-All Sites

Terms Tab: Users can lookup for terms either manually by browsing through the hierarchy or through the search option.

Info

Workplace

Queries

Any Category

Forms@11:15:15 [2-6-2025] [bigmouth]

Age-Female-D4341 - Scaling/root planing - 4+ tth@10:12:56 [1-30-2025] [bigmouth]

092 - YES Disease Indicators@21:17:11 [1-30-2025] [bigmouth]

193 - YES-Diabetes-D4341 - Scaling/root planing - 4+ tth@15:12:11 [1-30-2025] [bigmouth]

White@20:33:32@21:12:11 [1-30-2025] [bigmouth]

White@20:33:32 [1-30-2025] [bigmouth]

193 - YES-Diabetes-D4341 - Scaling/root planing - 4+ tth@15:12:11 [1-30-2025] [bigmouth]

Previous Queries: Queries previously run by the logged in user

Find Patients

Analysis Tools

Find Patients

with without when

Forms - 193595

or drag additional concepts

Set date range and/or occurrence for this entire panel

and with without when

drag a term here to define inclusion or exclusion criteria

Name: Forms@11:15:15

Find Patients

Clear All

Query Status

Query Name: Forms@11:15:15

Query Status: Finished

Run Time: [11.9 secs]

View Report

Number of patients for "Forms@11:15:15"

193596

Results Details

Number of patients

patient_count 193596

Query Status: Users can view the status of their current query. Once the query completes its execution, the patient count and other details are displayed here

1. Terms Tab Section

i2b2 Query & Analysis Tool

Terms ▾ 3

Search Any Category ⓘ

- Axiom 1
 - UTHealth - 491,491
 - + Demographics - 491,490
 - + Diagnosis - 134,298
 - + Forms - 193,595
 - + Insurance - 73,935
 - + Medication - 60,490
 - + Odontogram - 442,636
 - + Perio - 62,982
 - + Practice - 275,522
 - + Procedures - 271,685
 - + Providers
- Combined-All Sites 2
 - + Demographics - 5,241,604
 - + Dental Procedures
 - + Diagnosis - 536,782
 - + Forms - 1,316,685
 - + Insurance Type - 1,381,225
 - + Odontogram - 226,282
 - + Perio - 374,990
 - + Providers - 3,096,818

i2b2 Query & Analysis Tool

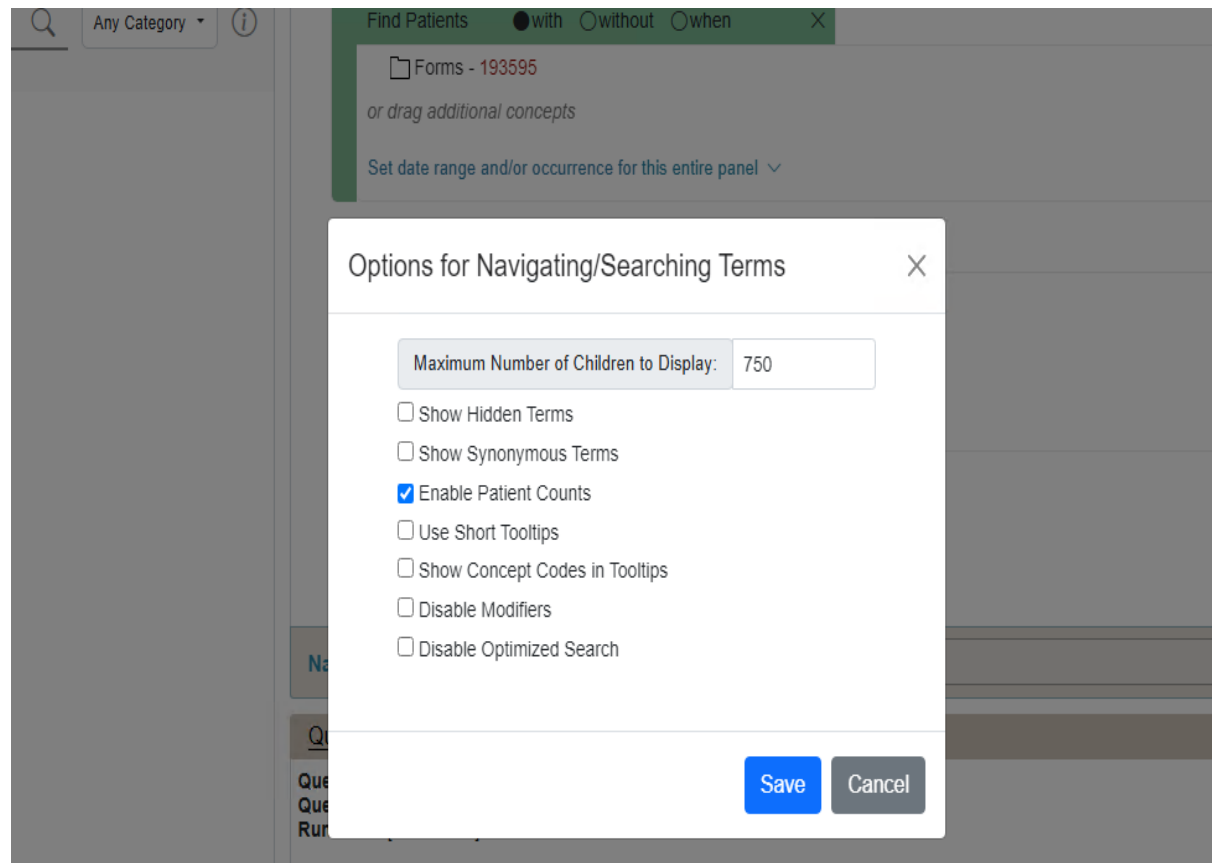
Terms ▾

Search 4 Any Category ⓘ 5

Category »
Coding System »

- Axiom
 - UTHealth - 491,491
 - + Demographics - 491,490
 - + Diagnosis - 134,298
 - + Forms - 193,595
 - + Insurance - 73,935
 - + Medication - 60,490
 - + Odontogram - 442,636
 - + Perio - 62,982
 - + Practice - 275,522
 - + Procedures - 271,685
 - + Providers
- Combined-All Sites
 - + Demographics - 5,241,604
 - + Dental Procedures
 - + Diagnosis - 536,782
 - + Forms - 1,316,685
 - + Insurance Type - 1,381,225
 - + Odontogram - 226,282
 - + Perio - 374,990
 - + Providers - 3,096,818

1. Site specific terminology: The axiUm node contains the site specific terminologies. Users can query for data available in axiUm at their own site. The number displayed adjacent to each folder/leaf node represents the number of patients.
2. Combined-All Sites terminology: This folder provides an integrated/combined terminology system that allows users to query for data from other BigMouth partnering institutions.
3. Terms: Clicking on the terms opens a small popup window (shown below) where users can customize the way the terms are displayed.



4. Search by Names: Users can search terms by name using this option.
5. Search by Any Category : Users can specify whether they want to search terms by Category (axiUm or Combined-All sites) or Coding System (shown below)

2b2 Query & Analysis Tool

Terms ▾

- [icon] Axium
 - + [icon] UTHealth - 491,491
 - + [icon] Demographics - 491,490
 - + [icon] Diagnosis - 134,298
 - + [icon] Forms - 193,595
 - + [icon] Insurance - 73,935
 - + [icon] Medication - 60,490
 - + [icon] Odontogram - 442,636
 - + [icon] Perio - 62,982
 - + [icon] Practice - 275,522
 - + [icon] Procedures - 271,685
 - + [icon] Providers
- [icon] Combined-All Sites
 - + [icon] Demographics - 5,241,604
 - + [icon] Dental Procedures
 - + [icon] Diagnosis - 536,782
 - + [icon] Forms - 1,316,685
 - + [icon] Insurance Type - 1,381,225
 - + [icon] Odontogram - 226,282
 - + [icon] Perio - 374,990
 - + [icon] Providers - 3,096,818

Find Patients
An...

Any Category ▾ ⓘ

 Category »
 Coding System »

Axium
 Combined-All Sites

Name:

Query Status

i2b2 Query & Analysis Tool

Terms

Find Patients Analysis To

Any Category i

- Axium
 - UTHealth - 491,491
 - + Demographics - 491,490
 - + Diagnosis - 134,298
 - + Forms - 193,595
 - + Insurance - 73,935
 - + Medication - 60,490
 - + Odontogram - 442,636
 - + Perio - 62,982
 - + Practice - 275,522
 - + Procedures - 271,685
 - + Providers
- Combined-All Sites
 - + Demographics - 5,241,604
 - + Dental Procedures
 - + Diagnosis - 536,782
 - + Forms - 1,316,685
 - + Insurance Type - 1,381,225
 - + Odontogram - 226,282
 - + Perio - 374,990
 - + Providers - 3,096,818

Category »
Coding System »

CDT
COHRI CDT
COHRI DIAGNOSTICS
COHRI ETHNICITY
COHRI EZCodes
COHRI RACE
COHRI SEX
DIAGNOSTICS
ETHNICITY

Name:

Query Status

2. Query Tool Section

The query tool comprises groups where a user can specify the inclusion and exclusion criteria of patients.

The screenshot displays the 'Find Patients' interface. At the top, there are tabs for 'Find Patients' and 'Analysis Tools'. Below the tabs, there are two main panels for defining criteria. The first panel, labeled 'Find Patients', has a header with radio buttons for 'with', 'without', and 'when', and a close button. It contains two criteria: 'Chronic Periodontitis - 15726' and 'Gingival Dx-Non Plaque induced - 1179'. Below these, there is a text prompt 'or drag additional concepts' and a dropdown menu 'Set date range and/or occurrence for this entire panel'. The second panel, labeled 'and', also has radio buttons for 'with', 'without', and 'when', and a close button. It contains one criterion: 'Age < 25 - 231654'. Below this, there is a text prompt 'or drag additional concepts' and a dropdown menu 'Set date range and/or occurrence for this entire panel'. At the bottom, there is a 'Name' field with the text 'Chronic Periodontitis-Age@11:43:30'. To the right of the 'Name' field are two buttons: 'Find Patients' and 'Clear All'. Red circles with numbers 1, 2, 3, and 4 highlight specific UI elements: 1 points to the first group, 2 to the 'Find Patients' button, 3 to the 'Clear All' button, and 4 to the 'Set date range and/or occurrence for this entire panel' dropdown in the first group.

1. **Groups:** Users can create as many groups as they like. A group can contain more than one term/concept. A patient satisfying any one of the terms (conditions) in a group will be counted towards the final result. If more than one group is used, only patients satisfying conditions in all groups will be considered towards the final result. Users can add as many groups as required.
2. **Find Patients:** Users can execute queries by clicking on the “Find Patients” button.
3. **Clear All:** Users can reset the content in the query tool by clicking on the “clear all” button.

? 👤

Find Patients Analysis Tools
⌵

Find Patients
● with ○ without ○ when
✕

Chronic Periodontitis - 15726 [03/27/2023 to 02/06/2025]

or

Gingival Dx-Non Plaque induced - 1179 [03/27/2023 to 02/06/2025]

or drag additional concepts

Set date range and/or occurrence for this entire panel ^

From:

03/27/2023

📅

↺

to:

02/06/2025

📅

↺

i

Concepts must occur

1

↺

or more time(s)

and
● with ○ without ○ when
✕

Age < 25 - 231654

or drag additional concepts

Set date range and/or occurrence for this entire panel v

Name:

Chronic Periodontitis-Age@11:43:30

Find Patients

Clear All

4. **Dates:** Users can specify the date range of the encounters as shown above
5. **Exclude/Include:** Users can exclude or include the terms in a group by clicking on the “with” or “without” button
6. **Temporal Constraint:** This lets users specify if they would like to find patients based on occurrences of events by clicking on the “when” button (shown below)

How to run a query?

STEP 1: Identify the term(s)/concept(s) from the “Terms” section

STEP 2: Drag and drop the selected term to a group in the “Find Patients/Query tool” section. Specify date range, exclusion criterion as needed.

The screenshot displays the i2b2 Query & Analysis Tool interface. The top navigation bar is blue with the text "i2b2 Query & Analysis Tool" and icons for help and user profile. The main interface is divided into several panels:

- Terms:** A tree view showing a hierarchy of medical terms. The "Diagnosis" category is expanded, showing "Abnormalities of Teeth" with a count of 20,611. Sub-terms include "Cementum Defect - 52", "Dentin Defect - 1,498", "Enamel and Dentin Defect - 366", "Enamel Defect - 9,185", "Eruption Abnormalities - 6,044", "Number Alteration - 6,095", "Pulp Abnormalities - 16", and "Shape Alteration - 84".
- Info:** A section labeled "Workplace" with a search bar and a category dropdown.
- Queries:** A list of saved queries, each with a plus icon, a name, a date range, and a location. Examples include "Chronic Periodontitis-Age@11:52:12 [2-6-2025] [bigmouth]" and "Forms@11:15:15 [2-6-2025] [bigmouth]".
- Find Patients:** A section for building a query. It contains two groups, each with a search bar, a category dropdown, and a "Find Patients" button. The first group has "Age < 22" selected, resulting in 231,654 patients. The second group has "Abnormalities of Teeth" selected, resulting in 20,611 patients. Below these groups are radio buttons for "with", "without", and "when" operators. A "Name" field at the bottom contains "Age-Abnormalities of Teeth@11:54:32".
- Query Status:** A section for monitoring the status of the query.

Modifiers can be added to certain terms. A popup window is displayed when such terms are added to the “Query Tool” section. For example, when querying for age, users can specify the operator and the value (example shown below).

Choose value of Age (Test:Age) ✕

Searches by Lab values can be constrained by the high/low flag set by the performing laboratory, or by the values themselves.

☐ No value Please select operator:

☐ By flag LESS THAN (<) ▼

☒ By value Please enter a positive integer value:

22

Units = ▼

Ok Cancel

STEP 3: Click on the “Find Patients” button

STEP 4: Specify the format of the result in the small popup window that appears after clicking on the “Find patients” button, and click on “Run Query” (shown below) . Please note that the “Patient Set” option is not available to all users.

Run Query Options

Name for Query

Age-Abnormalities of Teeth@11:56:42

Query Result(s)

☒ Number of patients

☐ Gender patient breakdown

☐ Race patient breakdown

Run Query

Cancel

Step 5: View results in the “Query Status” section, you can also click on “View Report” to print report of query

Name: Age-Abnormalities of Teeth@11:57:25

Find Patients

Clear All

Query Status

Query Name: Age-Abnormalities of Teeth@11:57:25

Query Status: Finished

Run Time: [8.1 secs]

View Report

Number of patients for "Age-Abnormalities of Teeth@11:57:25"

20610

Results Details

Number of patients

patient_count 20610

Example Query

How many patients ages 45 and older have been diagnosed with chronic periodontitis and a cardiovascular condition?

Terms

Any Category

+ Abscesses of the Periodontium - 842

+ Aggressive Periodontitis - 753

- Chronic Periodontitis - 15,726

- Dental peri-implant mucositis (disorder) - 120
- Dental peri-implantitis (disorder) - 356
- Generalized moderate chronic periodontitis (disorder) - 6,216
- Generalized severe chronic periodontitis (disorder) - 3,074
- Generalized slight chronic periodontitis (disorder) - 4,812
- Localized moderate chronic periodontitis (disorder) - 3,194
- Localized severe chronic periodontitis (disorder) - 3,764
- Localized slight chronic periodontitis (disorder) - 2,500

Info

Workplace

Queries

Any Category

+ A-Chronic Pe-067 - Any CARDIOVASCULAR PROBLEMS (HTN, RF/RHD, murmur, MVP, MI, cardiac surgery, CVA, chest pain/discomfort, angina, irregular/rapid heart beat, palpitations, pacemaker, heart valve, swollen ankles, blood clots)? - 70806

+ Age-Abnormalities of Teeth@11:57:25 [2-6-2025] [bigmouth]

+ Chronic Periodontitis-Age@11:52:12 [2-6-2025] [bigmouth]

+ Forms@11:15:15 [2-6-2025] [bigmouth]

+ Age-Female-D4341 - Scaling/root planing - 4+ tth@10:12:56 [2-3-2025] [bigmouth]

+ 092 - YES Disease Indicators@21:17:11 [1-30-2025] [bigmouth]

+ 193 - YES-Diabetes-D4341 - Scaling/root planing - 4+ tth@15:4:9@20:28:31@20:33:5@21:13:8

Find Patients

Analysis Tools

Find Patients

with without when

Age > 45 - 231654

or drag additional concepts

Set date range and/or occurrence for this entire panel

and

with without when

Chronic Periodontitis - 15726

or drag additional concepts

Set date range and/or occurrence for this entire panel

and

with without when

067 - Any CARDIOVASCULAR PROBLEMS (HTN, RF/RHD, murmur, MVP, MI, cardiac surgery, CVA, chest pain/discomfort, angina, irregular/rapid heart beat, palpitations, pacemaker, heart valve, swollen ankles, blood clots)? - 70806

or drag additional concepts

Name:

A-Chronic Pe-067 - Any CARDIOVASCULAR PROBLEMS (HTN, RF/RHD, murmur, MVP, MI, cardiac surgery, CVA, chest pain/discomfort, angina, irregular/rapid heart beat, palpitations, pacemaker, heart valve, swollen ankles, blood clots)?

Find Patients

Clear All

Query Status

Query Name:

A-Chronic Pe-067 - Any CARDIOVASCULAR PROBLEMS (HTN, RF/RHD, murmur, MVP, MI, cardiac surgery, CVA, chest pain/discomfort, angina, irregular/rapid heart beat, palpitations, pacemaker, heart valve, swollen ankles, blood clots)?

View Report

Query Status:

Finished

Run Time:

[3.5 secs]

Number of patients for "A-Chronic Pe-067 - Any CARDIOVASCULAR PROBLEMS (HTN, RF/RHD, murmur, MVP, MI, cardiac surgery, CVA, chest pain/discomfort, angina, irregular/rapid heart beat, palpitations, pacemaker, heart valve, swollen ankles, blood clots)?"

6257

Results Details

Note: a common question regarding patient count: why the patient counts don't add up?

The reason is because one patient may have more than one specific condition. For example, the total number of patients of the category “Abnormalities of teeth” in the picture below is 20,611. The number of patients of the subcategories of the category “Abnormalities of teeth” adds up to 23,476. This is because one patient may be in both subcategories such as “Cementum Defect” and “Dentin Defect”.

i2b2 Query & Analysis Tool

The screenshot displays the i2b2 Query & Analysis Tool interface. At the top, there is an orange header bar with the text "Terms" and a dropdown arrow. Below this, a search bar is visible with a magnifying glass icon and a search button labeled "Any Category". To the right of the search bar is an information icon (i). The main content area shows a hierarchical tree of dental abnormalities. The root node is "Abnormalities of Teeth - 20,611", which is expanded to show its subcategories. Each subcategory is preceded by a plus sign and a folder icon. The subcategories and their patient counts are: "Cementum Defect - 52", "Dentin Defect - 1,498", "Enamel and Dentin Defect - 366", "Enamel Defect - 9,185", "Eruption Abnormalities - 6,044", "Number Alteration - 6,095", "Pulp Abnormalities - 16", "Shape Alteration - 84", and "Size Alteration - 136".

Category	Count
Abnormalities of Teeth	20,611
Cementum Defect	52
Dentin Defect	1,498
Enamel and Dentin Defect	366
Enamel Defect	9,185
Eruption Abnormalities	6,044
Number Alteration	6,095
Pulp Abnormalities	16
Shape Alteration	84
Size Alteration	136