Utah's Indicator-based Information System (IBIS) for Public Health

ibis.health.Utah.gov

Using the IBIS Query System for COVID-19 Data
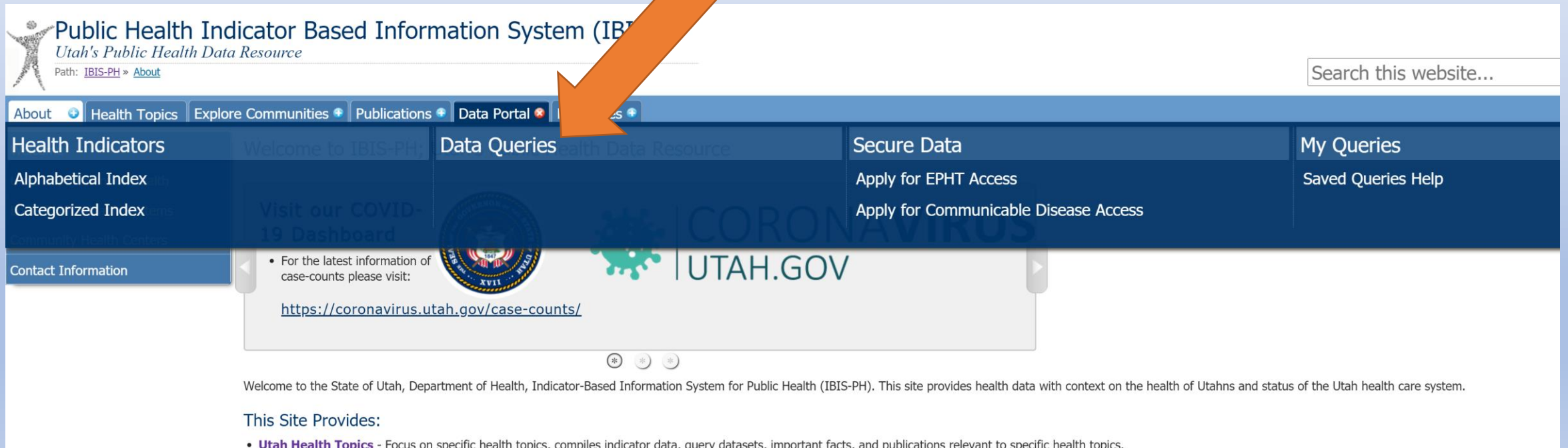
December 6, 2020

UTAH DEPARTMENT OF HEALTH

IBIS Query System

- The IBIS Query system allows members of the general public to access public health data sets (e.g., COVID data) and generate query results based on their specifications.

- The query interface guides users step by step to get the data table result.

- Provides help text to help user to understand how query is defined.

- Suppresses small cells to prevent data confidentiality issues.

- Allow users to create an account and save their customized queries.

Accessing COVID-19 Queries on IBIS

- Go to: https://ibis.health.utah.gov/
  - ➢ Data Portal
    - ➢ Data Queries

Accessing COVID-19 Queries on IBIS

COVID-19 Queries Available:

1. COVID-19 Case Counts

2. COVID-19 Number of Lab Tests Reported

3. COVID-19 Percent Positivity of Lab Tests

COVID-19 Configuration Selection

Overview ▬

Overview

Click on Selection bar to see a list of measures available. Use the hierarchical folder tree to navigate to the query module that will meet your needs. When you click on the text link, it will take you to the query module.

Selection ▬

- COVID-19 Cases
  - Count of COVID-19
- COVID-19 Lab Tests
  - Test Reported
  - Percent Positivity

Query Builder: COVID-19 Cases – County
An Overview

Query Builder for Utah Lab-Confirmed COVID-19 Cases - Count

Overview

Getting Started

The counts and analyses below are restricted to confirmed COVID-19 cases. UDOH considers any person with a positive SARS-CoV2 PCR or antigen test to be a confirmed case.

Utah's LHDs may also report their own case data. Local reports should be considered the most up to date and accurate information for their local area due to small differences in case classifications at any given time

Case data is displayed by the date the first positive laboratory result is reported to public health. There will be small differences in cases by date as public health receives additional information

Case and lab data are updated each day at 1:15 pm, using case data reported through 12:00 AM.

Not all cases are able to be interviewed, and some data are not routinely collected for all cases such as hospitalizations, geographic area, and comorbidities. Because of this an "Unknown" represents either a case that was not able to be interviewed or a case that was interviewed but that particular data was not collected (due to high case counts or an individual deciding not to report that data).

The deaths reported in IBIS are limited to confirmed cases with no alternative cause of death noted on the death certificate or reported by the Office of the Medical Examiner. The counts reported in IBIS will be lower than the counts reported on the public dashboard, as the public dashboard includes probable cases in the death count as well. These counts are provisional and subject to change as investigations are completed. For more information on how COVID-19 deaths are registered in the state of Utah, visit https://coronavirus.utah.gov/

In this query, deaths are reported by the day UDOH was notified of their first positive test, not the date of death as reported on https://coronavirus.utah.gov/. Deaths often occur days to weeks after they are first diagnosed with COVID-19.

Race/ethnicity data: race categories are not mutually exclusive and will not sum to the total cases, as cases can identify as more than one race. "Other race" includes cases that identified as a race not listed. "Unknown race" captures cases for whom race data was not provided or collected.

All data are preliminary and subject to change.

Query Builder

The Query Builder allows users to:
- Select specific filters
- Limit the data within the range selected
- Display result by up to two variables (e.g., age, county, race/ethnicity)
- Display result by chart or map

Step 1: Enter start date
(03/01/2020)

Step 2: Enter end date
(12/31/2020)

Step 3: Select year/week

Step 4: Select demographic characteristics

Step 5: Risk factors

Step 6: Hospitalization

Step 7: COVID-19 death

Step 8: Select geographic area

Step 9: How to display the data
(Grouped By: Case Report Date. Chart: None. Map: Default 2015)

Submit   Reset

Query Builder : select filters

Step 1/2: Chose your own date range by entering a start date and end date.

Step 3:Select year(s) or week(s).

Step 1: Enter start date
(03/01/2020)

Enter start date (mm/dd/yyyy)

03/01/2020

Step 2: Enter end date
(12/31/2020)

Enter end date (mm/dd/yyyy)

12/31/2020

Step 3: Select year/week

○ Year
● Week

All weeks
Week 9 2020-03-07
Week 10 2020-03-14
Week 11 2020-03-21
Week 12 2020-03-28
Week 13 2020-04-04

Query Builder : select filters

Step 4: Demographic Filters

- Age (select age group or enter your own age range)
- Ethnicity (Hispanic, Non-Hispanic)
- Race (American Indian /Alaskan Native, Asian, Black, Native Hawaiian/Pacific Islander, other race, Non-Hispanic White, Unknown race)
- Sex

Step 4: Select demographic characteristics

Select one or more subgroups to limit results. Default is all characteristics.

☑ Age

First choose a coding scheme to use for age groups. Default is age adjustment age groups, all ages.

🔘 Age groups (Younger than 1, 1-14, 15-24, 25-44, 45-64, 65-84, 85 years and older)

> All age groups
> Less than 1 year
> 1-14 years
> 15-24 years
> 25-44 years
> 45-64 years

◯ Enter custom age group

☐ Ethnicity
☐ Race
☐ Sex

Query Builder : select filters

Step 5: Risk Factor
- Pre-existing Condition
- Y/N

Step 6: Hospitalization
- Hospitalization
- ICU

Step 7: COVID-19 Death
- Y/N

Query Builder : select filters

Step 8: Select your geographic specifications:

- Local health district
- County
- Small Area
- House District
- Senate District

Query Builder : how to display your data

Step 9:

- Choose how to display data result up to two variables
  - Display by…
  - Group by…
  (Example: Display by Week & Group by Age Range or Display by Local Health Districts & Group by Race/Ethnicity)

- Choose how to display data result by map and chart (line, vertical bar, etc.)
  (note: to display map user must select "Geographic Area" in "Display by"and "None"in "Group By")

And Submit

Step 9: How to display the data
(Grouped By: Geographic Area. Chart: None. Map: Default 2015)

To display a map, you must select Geographic Area in Display By (category) and None in Group By (series)

Display By (category)		⑦	Geographic Area ∨
Group By (series)		⑦	None ∨
Chart		⑦	None ∨
Map		⑦	Default 2015 ∨

Submit   Reset

Query Results

Query Criteria

Query Results for Utah Lab-Confirmed COVID-19 Cases - Count

Query Criteria	
The start date you entered Filter:	03/01/2020
The end date you entered Filter:	12/31/2020
Data Grouped By:	Age Groups , Hospitalization

Chart

Chart

Case Count by Age Groups and Hospitalization
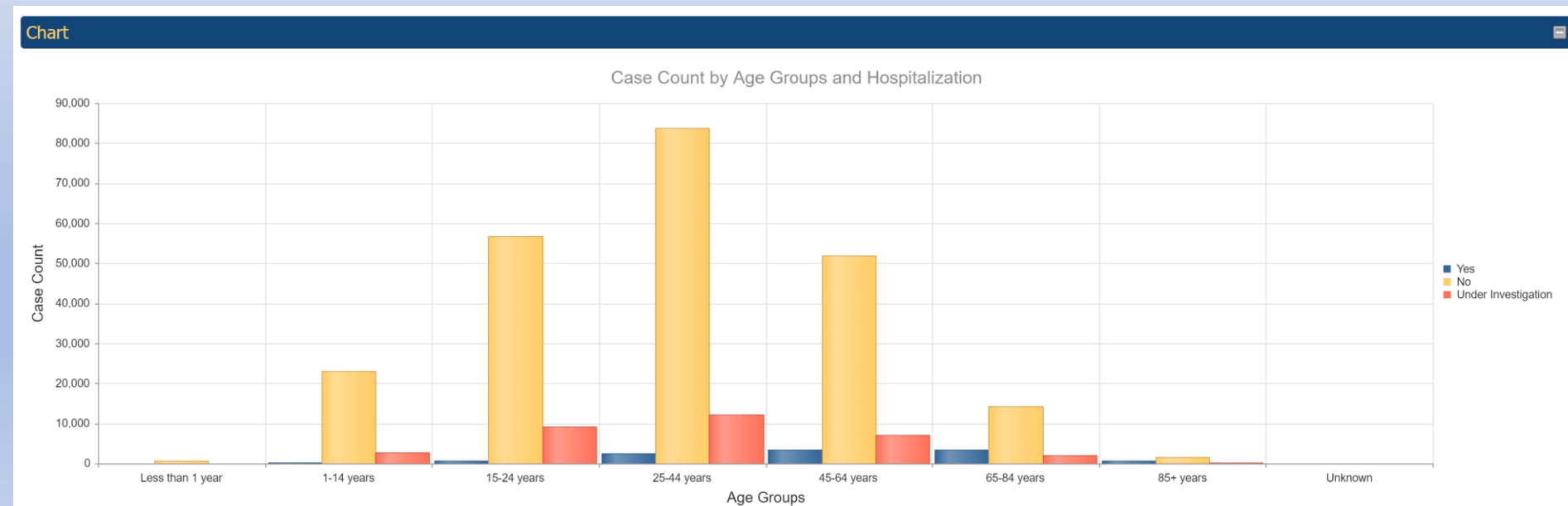
Query Results Contd.

Data Table

Hospitalization	Age Groups	Case Count
Yes		
Yes	Less than 1 year	45
Yes	1-14 years	152
Yes	15-24 years	743
Yes	25-44 years	2,431
Yes	45-64 years	3,461
Yes	65-84 years	3,476
Yes	85+ years	648
No		
No	Less than 1 year	698
No	1-14 years	23,009
No	15-24 years	56,656
No	25-44 years	83,826
No	45-64 years	51,962
No	65-84 years	14,219
No	85+ years	1,529
No	Unknown	12
Under Investigation		
Under Investigation	Less than 1 year	94
Under Investigation	1-14 years	2,755
Under Investigation	15-24 years	9,127
Under Investigation	25-44 years	12,316
Under Investigation	45-64 years	7,115
Under Investigation	65-84 years	2,041
Under Investigation	85+ years	284
Under Investigation	Unknown	13
Overall	**Overall**	**276,612**

Note: Check out the Data Notes under the Data Table for additional information to help interpret the data.

Exporting Results to Excel or Save Query

From the results page, in the navigation bar in the upper left hand corner, you can modify your query selections, save your query definitions (will need to create an IBIS account), and/or send your query output to Excel.

COVID-19 Lab Tests

- Test Reported Query
  - Start/end dates
  - Year/Week
  - Demographic Characteristics
  - Test Type
    - Antigen by EFA/IF
    - PCR/Amplification
  - Test Result
    - Positive
    - Not Positive
  - Geographic Area

- Percent Positivity Query
  - Start lab collection date
  - End lab collection date
  - Year/Week
  - Demographic Characteristics
  - Geographic Area

Query Help

- Send an email to ibis@utah.gov and let us know how we can help.
  - Questions about how to use IBIS and build a query will be directed to the IBIS program.
  - Data interpretation questions will be send to the Epidemiology team.