

Research Data Browser v2.3

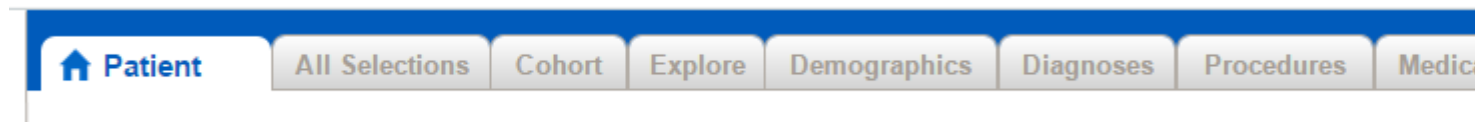
What's New in Version 2.3

- **Tab Order Modified**
- **All Selections Tab Redesigned**
- **New Cohort Tab**
- **Export Functionality Redesigned**
- **Data View Toggle Function Implemented**
- **Distribution By Date Charts Removed**

Tab Order Modified

The tab sequence is rearranged so that the more frequently used tabs are presented first.

New Tab Orientation:



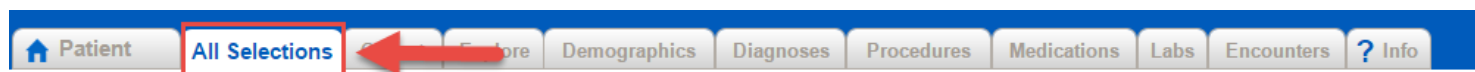
All Selections Tab Redesigned

The All Selections tab now provides more space for viewing the list of values for any variable. The new design allows for easier and more functional navigation and facilitates selection of a diagnosis or a medication name (amongst other things).

Example: *Using the All Selections Tab*

Select a cohort of patients of Asian descent.

1) Click on the ?All Selections? tab



2) Select a variable category in the left hand column (in this case, ?Patient [Latest Values]?).

Encounter Dates	Sex
Encounter Information	Race
Encounter Location Information	Ethnic
Encounter Hospital Information	Smok
Patient (Latest Values)	Marita
Diagnoses	Curre
Medications	Curre
Procedures	Patien
Procedures II	
Labs	
Vitals	
Immunizations	
Coverages	
Billing CPTs	
Providers	

3) Then select the variable name (in this instance, ?Race?)

Encounter Dates	Sex
Encounter Information	Race
Encounter Location Information	Ethnicity
Encounter Hospital Information	Smoking Status
Patient (Latest Values)	Marital Status
Diagnoses	Current Age
Medications	Current Age Group
Procedures	Patient Status
Procedures II	
Labs	
Vitals	
Immunizations	
Coverages	
Billing CPTs	
Providers	

4) Select the desired value (or values) in the right hand column (for example, ?Asian?).

Encounter Dates	Sex	Race
Encounter Information	Race	Asian
Encounter Location Information	Ethnicity	*Unspecified
Encounter Hospital Information	Smoking Status	American Indian or Alaska Native
Patient (Latest Values)	Marital Status	Black or African American
Diagnoses	Current Age	Native Hawaiian or Other Pacific Islander
Medications	Current Age Group	Other
Procedures	Patient Status	Unknown/Declined
Procedures II		White or Caucasian
Labs		
Vitals		
Immunizations		
Coverages		
Billing CPTs		
Providers		

5) The total patient count and percentage have changed.

Note: You can still search by a specific cohort variable by entering a search term (such as ?smoking? or ?albuterol?) in the field. This field now appears below the ?Current Selections? section.

New Cohort Tab

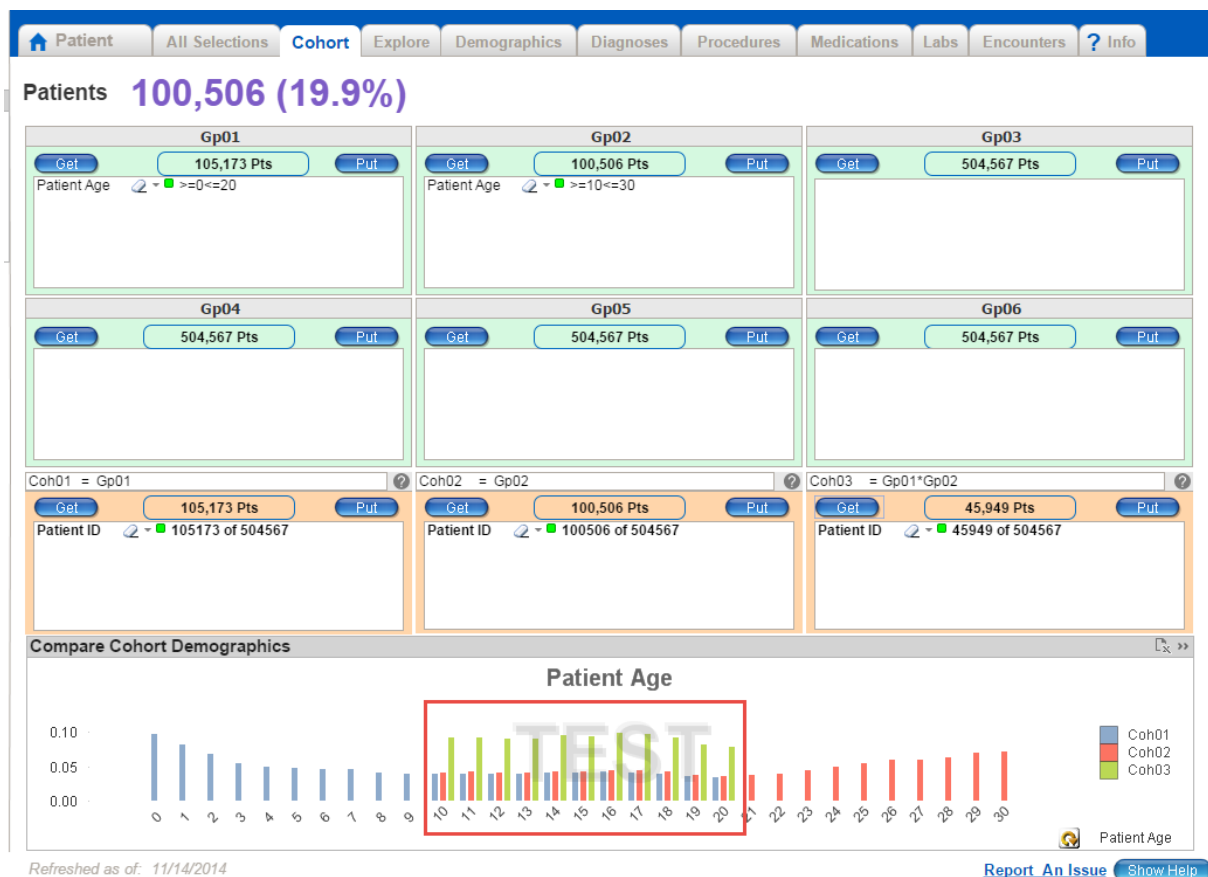
A new cohort tab allows for you to screen customized sets of cohorts by combining patient data using the following Boolean operators:

- Multiple ?Current Selections? (Gp01, Gp02, etc.) can be combined and saved.
- Patients from Gp01 **AND** Gp02 (e.g., patients with diabetes **AND** heart failure). The asterisk (*) represents the **AND** Boolean operator.
- Patients from Gp01 **OR** Gp02 (for example, patients diagnosed for diabetes **OR** patients with a medication order of insulin). The plus sign (+) represents the **OR** Boolean operator.
- Patients in Gp01 **BUT NOT** Gp02 (for data exclusion scenarios). The minus sign (-) represents the **BUT NOT** Boolean operator.
- Various combinations of the above, from up to six groups.

Example: Creating a List of Cohorts

The following example demonstrates how to create a customized cohort (Coh03) by using the **AND** Boolean combination of Gp01 (patients ages 0-20) and Gp02 (patient ages 10-30). Intuitively, we know that people that belong to both of those groups are between the ages of 10-20.

The screenshot below displays the cohort demographics combination results highlighted. Coh03 is represented by the green bars.



The following steps illustrate how to determine this cohort using the **AND** Boolean operator.

1) Click on the ?All Selections? tab.




2) Select a variable category in the left hand column (in this case, ?Patient [Latest Values]?).

Encounter Dates	Sex
Encounter Information	Race
Encounter Location Information	Ethnic
Encounter Hospital Information	Smok
Patient (Latest Values)	Marita
Diagnoses	Curre
Medications	Curre
Procedures	Patien
Procedures II	
Labs	
Vitals	
Immunizations	
Coverages	
Billing CPTs	
Providers	

3) Then select the variable category (in this instance, ?Current Age?).

Encounter Dates	Sex
Encounter Information	Race
Encounter Location Information	Ethnicity
Encounter Hospital Information	Smoking Status
Patient (Latest Values)	Marital Status
Diagnoses	Current Age
Medications	Current Age Group
Procedures	Patient Status
Procedures II	
Labs	
Vitals	
Immunizations	
Coverages	
Billing CPTs	
Providers	

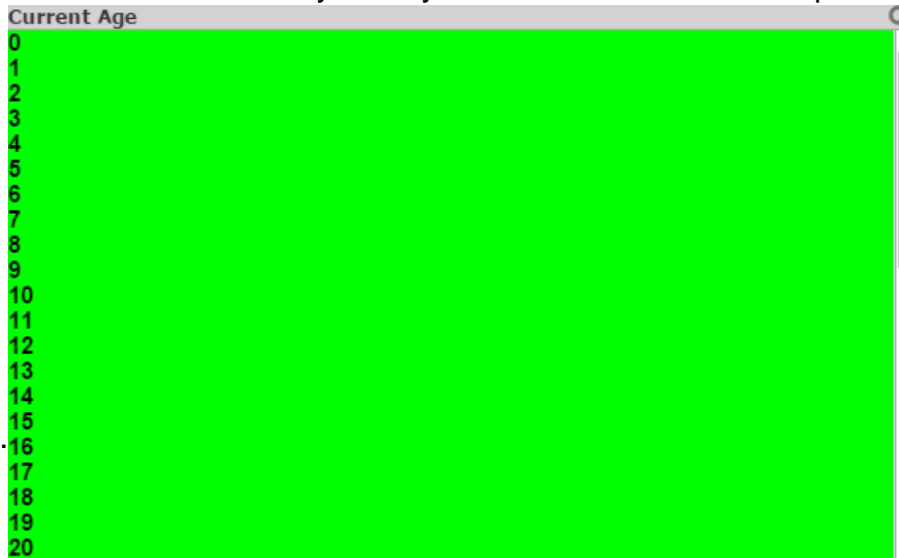
4) To reveal the search engine located above the list of variables, click the magnifying glass icon () in the ?Current Age? field to display the search box.



5) Enter the specified parameters (in this instance, ?>=0<=20? to select the 0-20 age range).



6) Press the enter button on your keyboard. The search returns patients between the age of 0

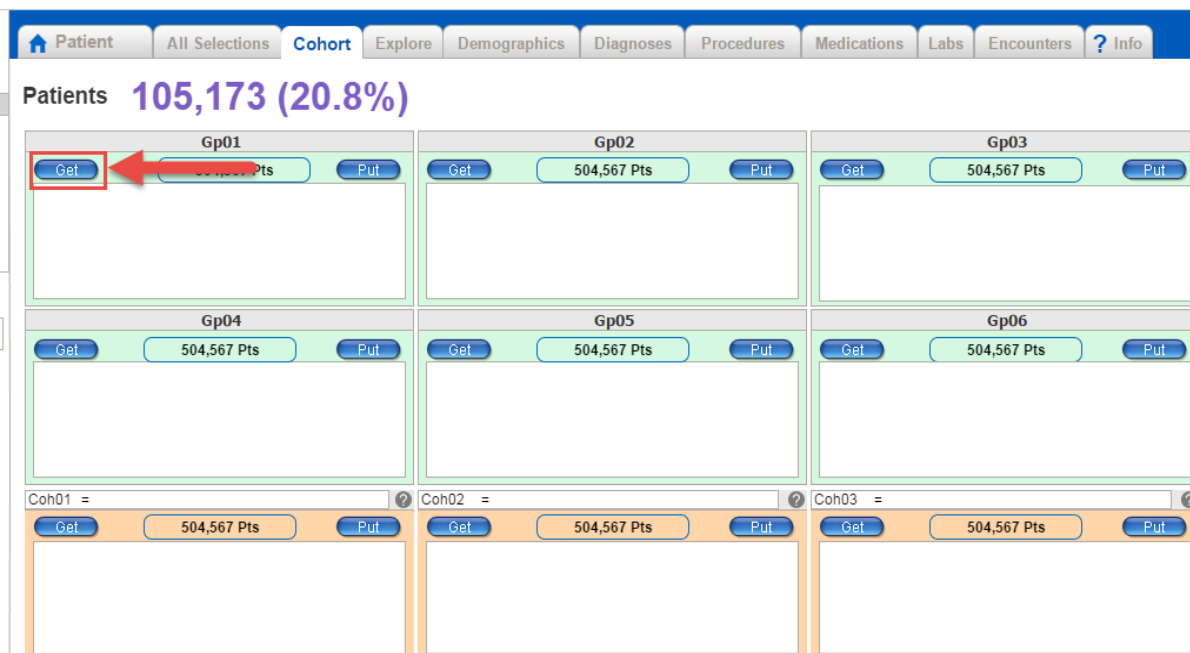


and 20.

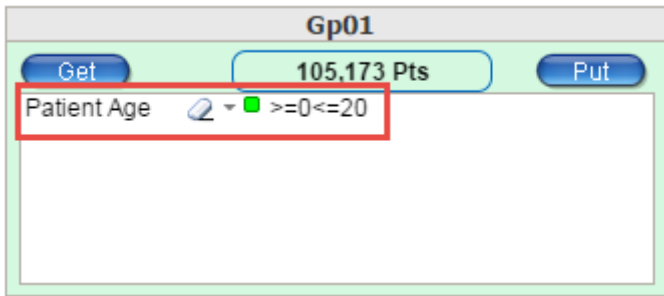
7) Click the ?Cohort? tab.




8) In the Gp01 quadrant, click on **Get** the button.



9) The Gp01 patient age parameters appear in the field below.



- 10) Clear the current selection by clicking the **Clear Selections** button. This will only clear the parameters from the ?Current Selections? and not in the ?Gp01? field.
- 11) Navigate to the ?All Selections? tab.
- 12) Select a variable category in the left hand column (in this case, ?Patient [Latest Values]?).
- 13) Then select the variable category (in this instance, ?Current Age?).
- 14) Enter the specified parameters (in this instance, ?>=10<=30? to select the 10-30 age range). A screenshot of a search bar titled 'Current Age'. The search bar contains the text '>=10<=30' and is highlighted with a red border. To the right of the search bar are icons for 'Close' (x), 'Add' (+), and 'Search' (magnifying glass).

- 15) Press the enter button on your keyboard. The search returns the selected results (in this case, patients between the ages of ten and 30).



- 16) Return to the Cohort tab.
- 17) In the Gp02 quadrant, click on the **Get** button to retrieve the GP02 patients.

[Patient](#)
[All Selections](#)
[Cohort](#)
[Explore](#)
[Demographics](#)
[Diagnoses](#)
[Procedures](#)
[Medications](#)
[Labs](#)
[Encounters](#)
[? Info](#)

Patients 100,506 (19.9%)

Gp01 Get 105,173 Pts Put Patient Age $\geq 0 \leq 20$	Gp02 Get Put	Gp03 Get 504,567 Pts Put
Gp04 Get 504,567 Pts Put	Gp05 Get 504,567 Pts Put	Gp06 Get 504,567 Pts Put
Coh01 = Get 504,567 Pts Put	Coh02 = Get 504,567 Pts Put	Coh03 = Get 504,567 Pts Put

18) The Gp02 patient age parameters appear in the field below.

Gp02
 Get 100,506 Pts Put
 Patient Age $\geq 10 \leq 30$

19) In the field labeled "Coh01 =" enter "Gp01?" then press the <enter> key and wait about five seconds for the new value to properly display.

[Patient](#) | [All Selections](#) | **Cohort** | [Explore](#) | [Demographics](#) | [Diagnoses](#) | [Procedures](#) | [Medications](#) | [Labs](#) | [Encounters](#)

Patients 100,506 (19.9%)

Gp01 Get 105,173 Pts Put Patient Age $\geq 0 \leq 20$	Gp02 Get 100,506 Pts Put Patient Age $\geq 10 \leq 30$	Gp03 Get 504,567 Pts
Gp04 Get 504,567 Pts Put	Gp05 Get 504,567 Pts Put	Gp06 Get 504,567 Pts
Coh01 = Gp01 ← Get 504,567 Pts Put	Coh02 = Get 504,567 Pts Put	Coh03 = Get 504,567 Pts

Compare Cohort Demographics

20) Click the **Get** button to enter to upload the Gp01 patients into the Coh01 field.

Coh01 = Gp01

Get 504,567 Pts Put

21) The number of patients appears in this field (in this case, ?105173 of 504567?).

Coh01 = Gp01

Get 105,173 Pts Put

Patient ID 105173 of 504567

Note: This differs from Gp01, because it defines a cohort of 105173 patients, rather than any patients with age range 0 to 20. This list of patients can be formed from more complex combinations of groups, as suggested in Coh03, below.

22) In the field labeled "Coh02 =" enter "Gp02.?"

Patients 100,506 (19.9%)

Gp01	Gp02	Gp03
Get 105,173 Pts Put Patient Age >=0<=20	Get 100,506 Pts Put Patient Age >=10<=30	Get 504,567 Pts Put
Gp04	Gp05	Gp06
Get 504,567 Pts Put	Get 504,567 Pts Put	Get 504,567 Pts Put

Coh01 = Gp01 Coh02 = Gp02 Coh03 =

23) Click the **Get** button to upload the Gp02 patients into the Coh02 field.

Coh02 = Gp02

Get 504,567 Pts Put

24) The number of patients appears in this field (in this case, ?100506 of 504567?).

Coh02 = Gp02

Get 100,506 Pts Put

Patient ID 100506 of 504567

25) In the field labeled "?Gp03=?" enter "Gp01*Gp02." The asterisk (*) represents the **AND** Boolean operator.

[Patient](#) | [All Selections](#) | **Cohort** | [Explore](#) | [Demographics](#) | [Diagnoses](#) | [Procedures](#) | [Medications](#) | [Labs](#) | [Encounters](#)

Patients 100,506 (19.9%)

Gp01 <input type="button" value="Get"/> 105,173 Pts <input type="button" value="Put"/> Patient Age $\geq 0 \leq 20$	Gp02 <input type="button" value="Get"/> 100,506 Pts <input type="button" value="Put"/> Patient Age $\geq 10 \leq 30$	Gp03 <input type="button" value="Get"/> 504,567 Pts
Gp04 <input type="button" value="Get"/> 504,567 Pts <input type="button" value="Put"/>	Gp05 <input type="button" value="Get"/> 504,567 Pts <input type="button" value="Put"/>	Gp06 <input type="button" value="Get"/> 504,567 Pts
Coh01 = Gp01 <input type="button" value="Get"/> 105,173 Pts <input type="button" value="Put"/> Patient ID 105173 of 504567	Coh02 = Gp02 <input type="button" value="Get"/> 100,506 Pts <input type="button" value="Put"/> Patient ID 100506 of 504567	Coh03 = Gp01*Gp02 <input type="button" value="Get"/> 504,567 Pts

26) Click the button.

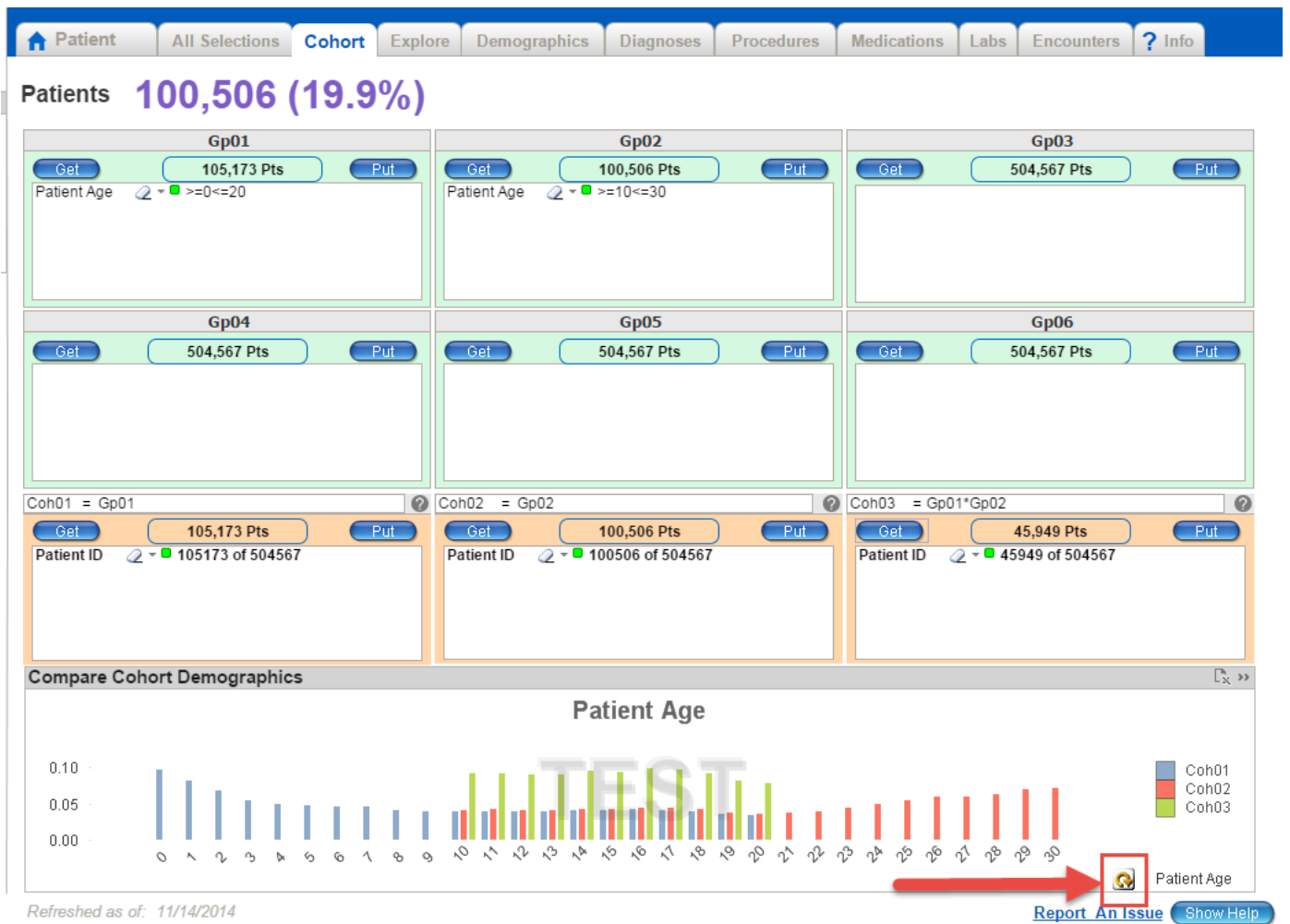
Coh03 = Gp01*Gp02
 504,567 Pts

27) The filtered list of patients appears in the field below (in this case 45,949 of 504567?). This field displays all of the patient IDs of patients who are BOTH in the group 0-20 AND 10-30, which represents the 10-20 age range.

Coh03 = Gp01*Gp02
 45,949 Pts
 Patient ID 45949 of 504567

28) In the bottom window labeled "Compare Cohort Graphics" click the cycle button () until

the "Patient Age" graph appears. This illustrates that the green bars, representing Coh03, are in age range 10-20 because they are patients who are members of Coh01 (the blue bars) AND Coh02 (the red bars).



Export Functionality Redesigned

Export functionality is now included in the Explore tab and is now faster and is more efficient when larger quantities of data are exported.

Patients **504,567 (100.0%)**

[Bar Chart](#)
[Table](#)
[Grid](#)
[Export](#)

Estimated Size (MB):
Estimated Duration (M)

Estim

Adhoc Report

Allergy ID	# Encounters	# Patients
	16471087	621754
1	27	1
2	8	1
3	2	1
4	54	1
5	15	1
6	4	1
7	7	1
8	24	1
9	34	1
11	13	1
12	48	1
13	3	1
14	21	1
15	2	1
16	14	1
17	3	1
20	82	1
21	2	1
22	172	1
24	17	1
25	16	1
28	124	1
29	276	1
30	134	1
31	1	1
32	8	1
33	13	1
34	13	1
35	3	1
36	76	1
37	24	1
40	36	1
41	2	1
42	14	1

← [Clear Selections](#) →

Q Search

Dimensions

- Allergy ID
- Allergen
- Allergen Type
- Allergy End Age
- Allergy End Age Group
- Allergy End Date
- Allergy End Day
- Allergy End Month
- Allergy End Week
- Allergy End Weekday
- Allergy End Year
- Allergy Reaction
- Allergy Severity
- Allergy Start Age
- Allergy Start Age Group
- Allergy Start Date
- Allergy Start Day

Measures

- # Encounters
- # Patients



Refreshed as of: 11/14/2014

To perform an export, follow these steps:

- 1) Click the [Estimate Export](#) button to get an estimate of the size and duration of the export. If the duration is longer than 20 minutes, it will probably fail, and you should break down your export into two smaller exports.
- 2) Click the [Generate Export](#) button to export the data to a flat file on the server. This step takes the most time. At the successful completion of this step, the [Download Export](#) button will be enabled and appear in blue, rather than gray.
- 3) Click [Download Export](#). This will copy the flat file from the server to your desktop as a comma-separated (CSV) Excel file.

Data View Toggle Function Implemented

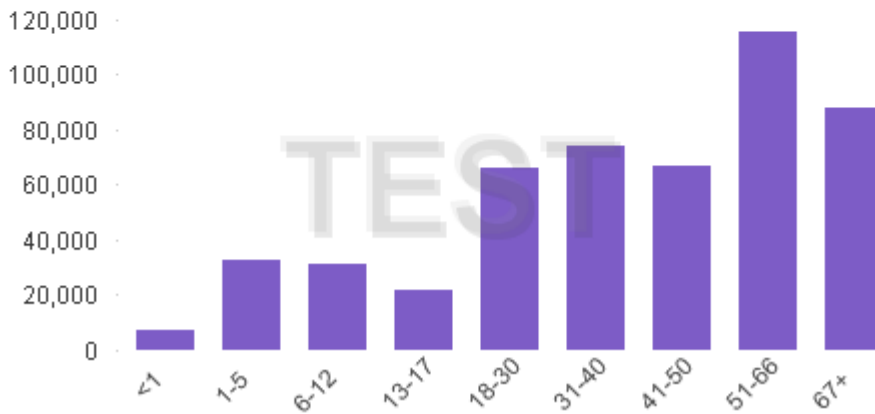
In various dashboard tabs, you now have the opportunity to toggle between a ?top view? display (which represents the graphs of the top five most viewed data sets) and a ?full view? display (which represents graphs of all of the data sets). Additionally, users now have the ability to switch to a table view to more easily read the complete names of each category.

Patient Data Tab, Full View:

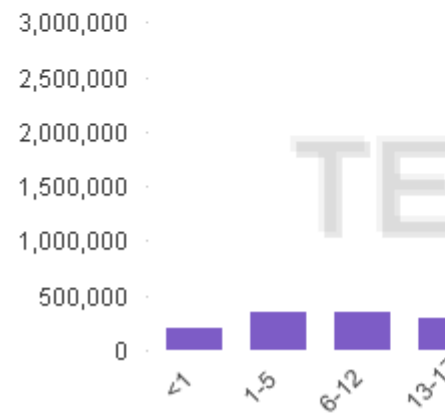
Patients 504,567 (100.0%)

Full View Top View

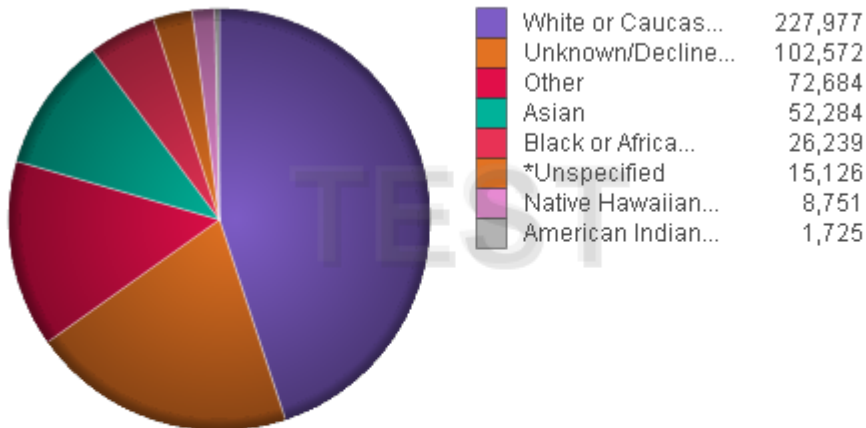
All 5 Age Groups (current age)



All Age Groups (as of encounter, ...)



Race

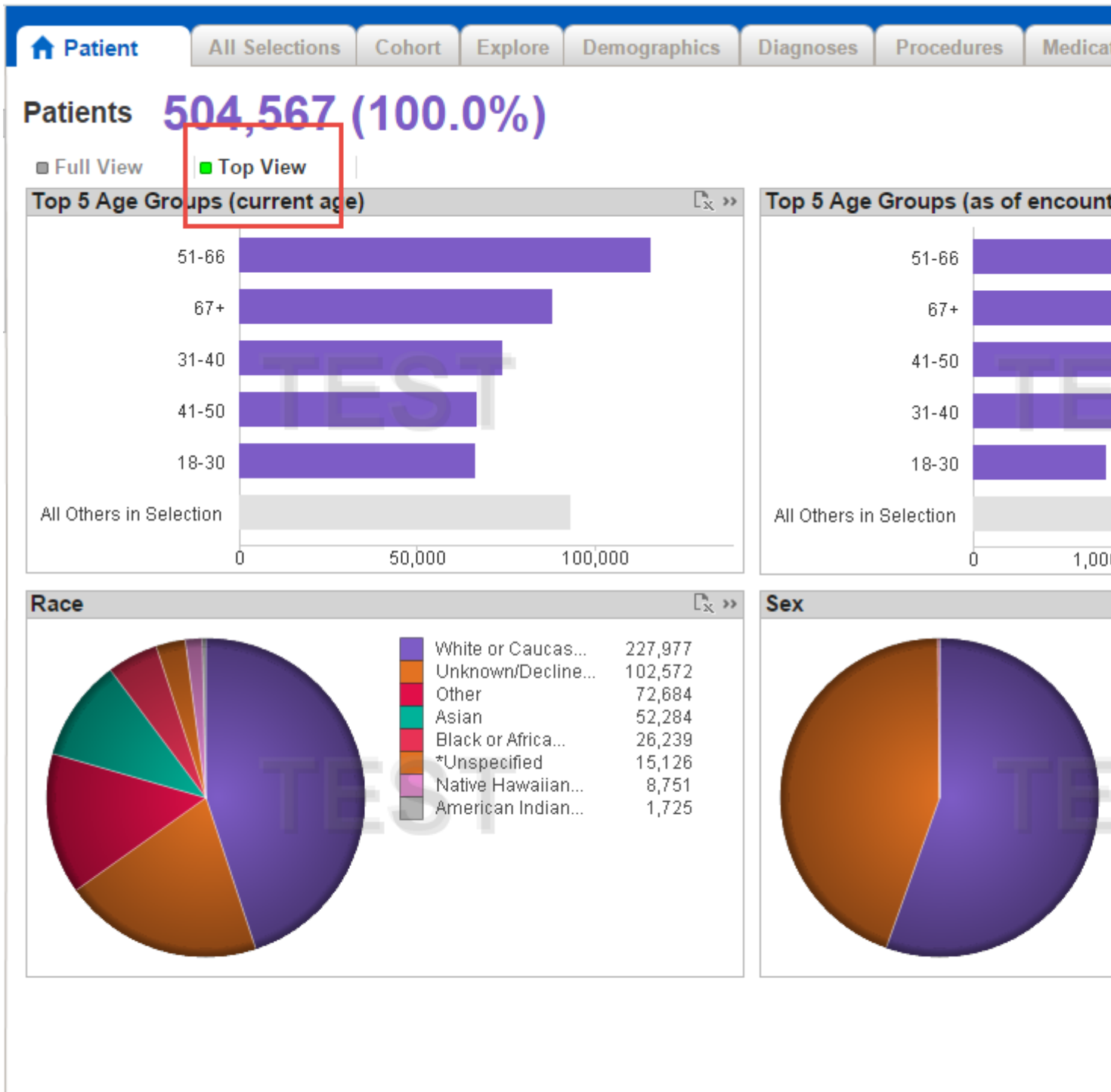


Sex



Refreshed as of: 11/14/2014

Patient Data Tab, Top View



Refreshed as of: 11/14/2014

Additionally, you can toggle between a graphic and table result display by clicking the **>>** button located in the top right hand corner of each quadrant.

Distribution By Date Charts Removed

All bar charts displaying **Date** distribution are removed. These charts were confusing because

the de-identified dates were randomly offset by 0-365 days.

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