



CRStar Insights

Enhanced Reporting Module – Released 2/1/2023

This CRStar Insight will outline the features and usage of the new and enhanced CRStar Reporting Module. The reporting module makeover is being done in phases. This CRStar Insight corresponds with the 01/31/2023 CRStar upgrade. Users can access the new reports under the CRStar Reporting tab located in the main menu under the Help tab. The old reports remain available to use for a limited time (TBD). CRStar Insights and Short Take videos will be made available with each phased release.

Note 1: The following reports now reside on the new CRStar platform but no changes to their functionality have been made: Data Exports (State and NCDB) and Report Utilities (Clear Populations)

Note 2: The Request Log has been moved from the CPM reports to the new Admin category. Additionally, Report for a File has been relocated from Ad hoc reports to the new Admin category. The functionality of neither report has changed.

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Select a Population

New Features:

- Select a Population continues to remain as a stand-alone function; however, it is now incorporated into each individual report within the reporting module. This will allow users to either select a previously created population or create a new population on the same screen where the report features are selected. Note: This functionality applies to the reports illustrated in this Insight. Future reports will have the same functionality
- When choosing to Create a Population from each report screen, there is no select button. The population will automatically select when the user clicks Run.
- For multi-facilities, a feature has been added that will include duplicate cases of shared primaries if checked or excluded if not checked. Bubble help has been added to Case Type to alert the user of the criteria used for case selection
- The Hospital Lookup now gives the user the ability to select multiple facilities at once by checking the box beside the hospital name
- Radio buttons have been added for the user to select Dx Date or First Contact date with fields to enter a date range
- Two case types have been added for easy selection: Incomplete Cases Only and Non-Reportable Cases. Bubble help has been added to Case Type to alert the user of the criteria used for case selection
- The + and x to add or delete rows has been replaced with Add and Delete buttons
- The Copy row icon has been replaced with a Copy button
- The Insert icon has been removed and the user may use the insert key on the keyboard to insert a row
- Population labels may now be deleted from the reporting screens

Instructions (Illustration on page 3):

1. Choose to either create a new population label or select an existing population from the drop-down menu
 - a. From all report screens within this module, to create a new population, the box beside Create a Population will need to be checked. Once checked Select a Population options will become available
2. Enter desired Hospital numbers or choose from the drop-down menu and choose to include or exclude duplicates of shared cases.
 - a. If this is NOT selected, the class of case order that is used to determine which shared primary will be selected for the report is:
14,13,12,11,10,22,21,20,00,40,32,31,30,37,35,33,38,43,49,34,36,41,42,99
3. Choose date type/range if applicable and enter dates
4. Choose Abstracts, Suspense cases or All

5. Choose Case Type
 - a. Analytic cases selection will include class of cases: 00,10,11,12,13,14,20,21 or 22
 - b. Complete cases selection will include State Report Flags of cases with: "T, Y, C or F"
 - c. Incomplete cases selection will include State Report Flags of "I"
 - d. Non-Reportable selection will only include cases with State Report Flags of "N"
6. Enter site if applicable
7. Enter any remaining selection criteria as needed
8. Click Select

Select a Population

1 Population Label:

Requested By: **2** Request Date:

Hospitals: Include Duplicates of Shared Patients

New Label:

3 Dx Date 1st Contact Date

4 Abstract/Suspense Cases

Abstract Cases Only **5**

Suspense Cases Only

All Cases

From: To:

Case Type

Analytic Cases Only

Complete Cases Only

Incomplete Cases Only

Non-Reportable State Flag

6

Site Codes	
Site	Site Description
1 <input type="text" value="18"/>	COLON
2 <input type="text" value="19"/>	RECTOSIGMOID JUNCTION
3 <input type="text" value="20"/>	RECTUM

7

Item Nbr	Item Description	Relation	Data Values	Logic	
1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Copy"/>
2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Copy"/>
3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Copy"/>

Start Time: 3:41:42 PM

End Time: 3:41:43 PM

Records Selected: 73

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Canned Reports

Site Distribution

New Features:

- Users can select an existing population or create a population from the report screen
- Population labels may now be deleted from the reporting screens
- Incident and site distribution reports have been combined into one reporting screen
- New variables have been added for analysis of incidence/site distribution: Age, Ethnicity, Insurance and Zip Codes
 - Zip Codes – User can show all codes or choose to include/exclude certain codes
- All chosen variables will be shown on one table when viewed
- User has option to display percentages in addition to the case count
- Note: Class of Case (Analytic vs non-Analytic) is built into the report

Instructions (Illustration on pages 5-6):

1. Select or create a population. Instructions for this can be found [here](#)
2. Check box(es) beside any variable(s) desired:
 - a. Stage - Choose stage type "General" or "AJCC"
 - b. Zip – once chosen you can select zip codes to include/exclude. Multiple zip codes can be entered separated by a comma
3. To display percentages in addition to counts, check the box beside "Display Percentages"
4. Chose to include or exclude Ca in-situ cervix, squamous and basal cell skin, and intraepithelial neoplasia cases
5. Choose to send report to: Excel/Screen
6. Click Run

Illustration of Selecting a New Population from the Report Screen

Site Distribution | Treatment Distribution | Survival

Create a Population Label Population Label: 2020 ALL CASES

Requested By: Melanie Login Request Date: 01/16/2023

Hospitals: 01 ERS 2022 HOSPITAL Include Duplicates of Shared

Dx Date 1st Contact Date From: 01/01/2020 To: 12/31/2020

Abstract/Suspense Cases Case Type

Abstract Cases Only Analytic Cases Only

Suspense Cases Only Complete Cases Only

All Cases Incomplete Cases Only

Non-Reportable State Flag

Site Codes	
Site	Site Description
1	
2	
3	

Add Delete

Item Nbr	Item Description	Relation	Data Values	Logic
1				
2				
3				

Delete Label Edit Selection

Site Distribution

Age at Diagnosis

Ethnicity **2**

Insurance **2**

Race

Sex **2a**

Stage **2a** Stage Type: General AJCC

Zip Code Zip Codes: 27103,27104,27106 **2b** Include Exclude

Display Percentages **3**

Ca in-situ cervix, squamous and basal skin cell, and intraepithelial neoplasia cases:

Include

Exclude **4**

Send Report To:

Excel

Screen **5**

6 Start Time: End Time:

Run New

Sample Output for Site Distribution

January 16, 2023		Site Distribution for: 2020 ALL CASES															
Primary Site	Total	Class		Sex		AJCC Stage						Age at Dx					
		A	N/A	M	F	0	I	II	III	IV	Unk	N/A	Under 20	20-29	30-39	40-49	50-59
All Sites	2402	2402	0	1108	1294	139	600	337	250	486	244	346	2	15	62	151	388
Oral Cavity	19	19	0	16	3	0	4	3	3	7	2	0	0	0	2	0	9
- Lip	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- Tongue	6	6	0	4	2	0	0	1	2	2	1	0	0	0	0	0	2
- Oropharynx	3	3	0	3	0	0	1	0	0	2	0	0	0	0	1	0	1
- Hypopharynx	1	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0
- Other	9	9	0	8	1	0	3	2	1	2	1	0	0	0	1	0	6
Digestive System	385	385	0	200	185	1	48	74	71	131	49	11	1	0	11	28	51
- Esophagus	24	24	0	18	6	0	2	5	3	13	1	0	0	0	0	1	4
- Stomach	27	27	0	16	11	0	1	6	2	13	5	0	0	0	0	2	2
- Colon	96	96	0	53	43	1	12	18	26	28	11	0	0	0	3	5	11
- Rectum	35	35	0	21	14	0	3	4	12	8	8	0	0	0	2	4	9
- Anus/Anal Canal	13	13	0	3	10	0	0	5	5	2	1	0	0	0	0	2	4
- Liver	52	52	0	34	18	0	4	4	5	22	13	4	1	0	0	3	4
- Pancreas	104	104	0	42	62	0	22	24	14	39	4	1	0	0	1	8	13
- Other	34	34	0	13	21	0	4	8	4	6	6	6	0	0	5	3	4
Respiratory System	390	390	0	195	195	4	78	37	51	173	29	18	0	0	1	11	51
- Nasal/Sinus	1	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	1
- Larynx	22	22	0	19	3	2	5	6	2	7	0	0	0	0	1	0	6
- Other	6	6	0	3	3	0	1	0	1	2	0	2	0	0	0	0	1
- Lung/Bronc-Small Cell	80	80	0	30	50	0	3	4	8	54	11	0	0	0	0	2	8
- Lung/Bronc-Non Small Cell	258	258	0	127	131	2	64	24	38	98	16	16	0	0	0	9	34
- Other Bronchus & Lung	23	23	0	15	8	0	5	2	2	12	2	0	0	0	0	0	1
Blood & Bone Marrow	173	173	0	111	62	0	0	0	0	28	12	133	0	2	6	6	22
- Leukemia	105	105	0	65	40	0	0	0	0	28	12	65	0	2	5	4	19
- Multiple Myeloma	42	42	0	31	11	0	0	0	0	0	0	42	0	0	0	1	1
- Other	26	26	0	15	11	0	0	0	0	0	0	26	0	0	1	1	2
Bone	1	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0
Connect/Soft Tissue	15	15	0	8	7	0	6	0	7	0	0	2	0	0	1	1	3
Skin	113	113	0	65	48	55	42	8	4	3	0	1	0	0	2	10	15
- Melanoma	109	109	0	62	47	55	42	7	3	2	0	0	0	0	2	9	15

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Treatment Distribution

New Features:

- Users can select an existing population or create a population from the report screen
- Population labels may now be deleted from the reporting screens
- Treatment Combination and Treatment Distribution reports have been combined into one treatment screen
- Treatment by treating facility and by treating physician reports have been added. Note: Both reports are generated by the facility and physician fields in each treatment section and displayed by site
- All reports can be run at the same time or individually
- Users can choose multiple treating hospital(s) to be included on the report by clicking the drop-down and choosing from the lookup. Check boxes have been added to the lookup for easy selection
- The user can choose to display the report generated to the screen to show numbers or percentages
- The user can go between each report by using the radio buttons at the bottom of the screen
- In Excel, the reports have their own tabs when both reports are generated

Instructions (Illustration on pages 8-10):

1. Select or create a population. Instructions for this can be found [here](#)
2. Choose the treating hospital(s) to be included in the report by selecting the checkbox beside the hospital (see illustration on page 8-9) or can manually enter hospital numbers separated by commas. Note: When this field is left blank, the report will include all treating facilities.
3. Select Course of Treatment
4. Choose type of Report you wish to run:
 - a. Treatment by Facility
 - i. Choose the treatment types to include
 - b. Treatment by Physician
 - i. Choose the treatment types to include
 - c. Treatment Combination
 - d. Treatment Distribution
 - i. Select Treatment Type: Surgery, Scope of LN Surgery, Number of LN Examined, Surgery Other/Regional Site, Radiation, Chemo, Hormone Therapy, Immunotherapy, Other Treatment
 - ii. To limit the report to certain treatment values user will type individual treatment values. Ranges can be placed in these spaces as well. See example of limiting Surgery codes to codes 10-99 as shown on page 8

- Choose to run the report to the screen or Excel
- Click Run

Illustration of Treatment Distribution (Treatment Combination Distribution by Facility, Physician and Treatment Type)

1 Create a Population Label

Population Label: 2021 ANALYTIC BREAST CASES

2 Treating Hospital(s): 01,02

3 Course of Treatment: First Course Subsequent All Courses

4 Treatment by Facility: Surgery Chemo Radiation Immuno Include Dx Procedures

Treatment by Physician: Surgery Chemo Radiation Immuno Hormone Other Treatment Include Dx Procedures

5 Send Report To: Excel Screen

6 Run

Start Time: 3:32:33 PM End Time: 3:32:38 PM

Treatment Values:
1 10-99
2
3
4
5
6

Sample Outputs for Treatment Distribution Reports

Treatment by Facility

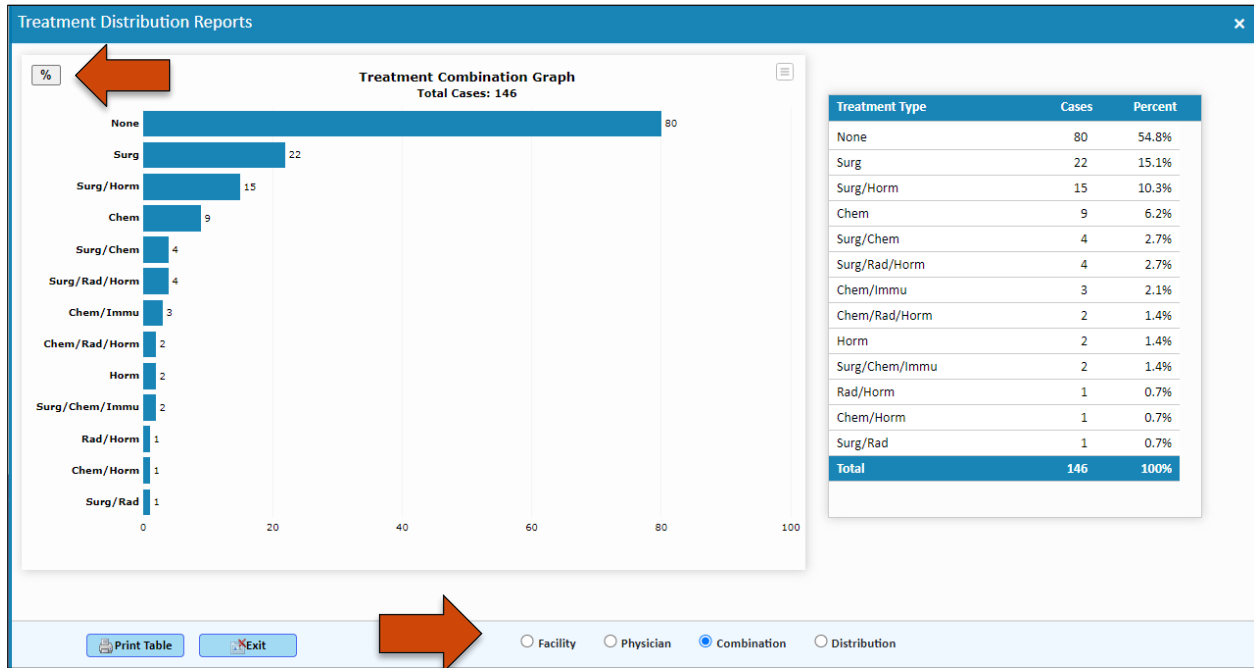
Treatment Distribution Reports				
January 24, 2023		Treatment by Facility for: 2021 BREAST CASES		
Surgery	Treatment Description	Grand Total	Ers 2022 Hospital Erslist01	St Elsewhere Testlist01
Breast	Lumpectomy or excisional biopsy	30	1	29
	Reexcision of the biopsy site for gross or microscopic residual disease	6		6
	Segmental mastectomy (including wedge resection, quadrantectomy, tylectomy)	1		1
	Total (simple) mastectomy WITHOUT removal of uninvolved contralateral breast	5		5
	Total (simple) mastectomy WITH removal of uninvolved contralateral breast	4		4
	Combination of 41 WITH Reconstruction, NOS	1		1
	Combination of 41 WITH Reconstruction, Implant	1	1	
	Combination of 42 WITH Reconstruction, NOS	4	1	3
	Combination of 42 WITH Reconstruction, Tissue	2		2
	Combination of 42 WITH Reconstruction, Implant	3		3
	Grand Total		57	3
Radiation	Treatment Description	Grand Total	Ers 2022 Hospital Erslist01	St Elsewhere Testlist01
	External Beam, Photons	9	9	
	External Beam, Electrons	1	1	

Facility
 Physician
 Combination
 Distribution

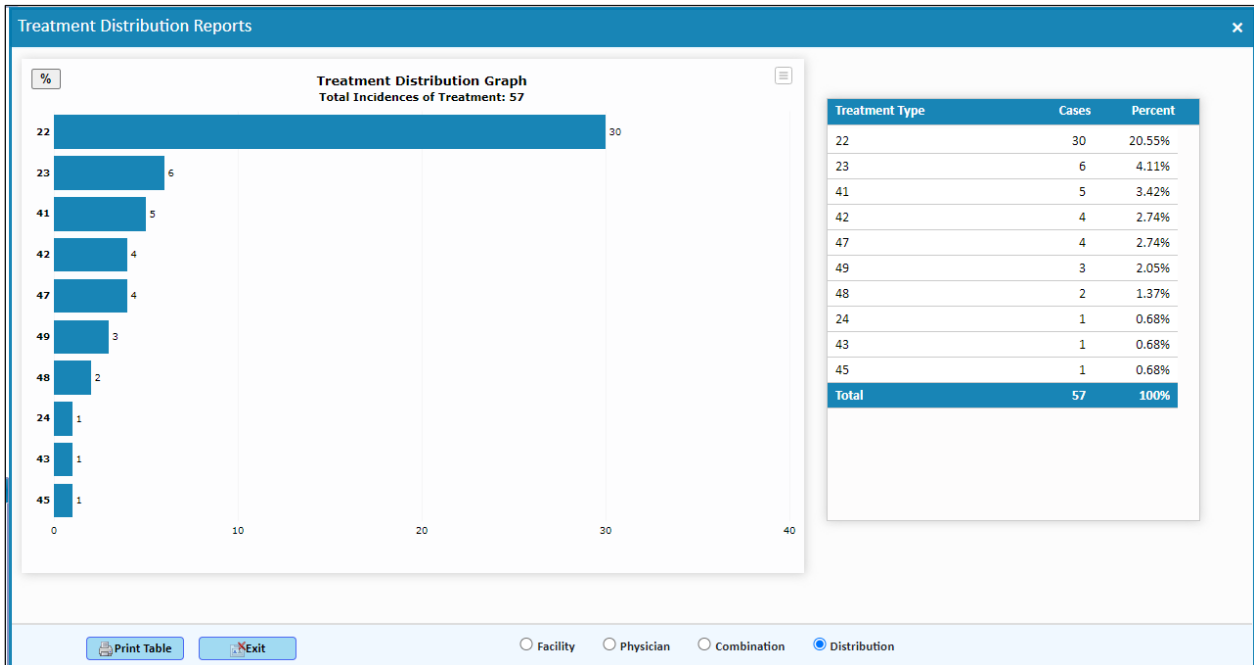
Treatment by Physician

Treatment Distribution Reports									
January 24, 2023		Treatment by Physician for: 2021 ANALYTIC BREAST CASES							
Surgery	Treatment Description	Grand Total	Ronald Y Myers	Jan Thompson	Judith Sears	Jennifer Lee	Janet Hines	Donald Baker	Matthew B Garrett
Breast	Modified radical mastectomy, NOS	2						2	
	Grand Total	2	0	0	0	0	0	2	0
Radiation	Treatment Description	Grand Total	Ronald Y Myers	Jan Thompson	Judith Sears	Jennifer Lee	Janet Hines	Donald Baker	Matthew B Garrett
	External Beam, Photons	2	1		1				
	Grand Total	2	1	0	1	0	0	0	0
Chemo	Treatment Description	Grand Total	Ronald Y Myers	Jan Thompson	Judith Sears	Jennifer Lee	Janet Hines	Donald Baker	Matthew B Garrett
	None, Not Part of First Course of Rx	1					1		
	Chemotherapy Multiple Agents As First Course Rx	3		1		1			1
	Chemotherapy Not Recommended, Contraindicated Due to Risk Factors	1					1		
	Grand Total	5	0	1	0	1	2	0	1
Hormone	Treatment Description	Grand Total	Ronald Y Myers	Jan Thompson	Judith Sears	Jennifer Lee	Janet Hines	Donald Baker	Matthew B Garrett
	None, Not Part of First Course of Rx	1					1		
	Hormone Therapy As First Course Rx	1		1					

Treatment Combination



Treatment Distribution



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Survival

New Features:

- Users can select an existing population or create a population from report screen
- Population labels may now be deleted from the reporting screens

Instructions (Illustration below):

1. Select or create a population. Instructions for this can be found [here](#)
2. Choose survival method: Observed Survival, Observed (Kaplan Meier Method), Adjusted Survival or Relative Survival
3. Choose Stage type: General or AJCC
4. Choose Start Date: Diagnosis or Treatment
5. Choose End Date: Last Contact or Recurrence
6. Choose to send the report to Excel or the screen
7. Enter Number of years desired if different from 5 (5 is the default)
8. Click Run

The screenshot shows the 'Survival' configuration screen. At the top, there are three tabs: 'Site Distribution', 'Treatment Distribution', and 'Survival'. Below the tabs, there is a checkbox for 'Create a Population Label' (callout 1) and a 'Population Label' dropdown menu set to 'BREAST SURVIVAL'. Below this is a blue bar with 'Delete Label' and 'Edit Selection' buttons. The main configuration area includes: 'Survival Method' with radio buttons for 'Observed Survival' (callout 2), 'Observed (Kaplan Meier Method)', 'Adjusted Survival', and 'Relative Survival'; 'Stage Type' with radio buttons for 'General' (callout 3) and 'AJCC'; 'Start Date' with radio buttons for 'Diagnosis' (callout 4) and 'Treatment'; 'End Date' with radio buttons for 'Last Contact' (callout 5) and 'Recurrence'; 'Send Report To' with radio buttons for 'Excel' (callout 6) and 'Screen'; and a 'Number of Years' input field set to '5' (callout 7). At the bottom, there is a 'Start Time: -' and 'End Time: -' section, and a 'Records Selected: 2179' indicator. A final blue bar at the bottom contains 'Run' (callout 8), 'New', and 'Exit' buttons.

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Admin (Updated Category Name)

Acc Register/MPI

New Features:

- Accession Register and MPI Listing have been combined into one report and moved to a new category called Admin. Note: The Request Log and the Report for a File reports have also been moved to the admin category
- User can choose multiple hospitals to run at once
- Check boxes have been added to the hospital lookup for easy selection

Instructions (Illustration below):

1. Choose hospital(s)
 - a. To select multiple hospitals, choose the dropdown icon and check the boxes beside the hospitals to be included in the report or enter hospital numbers separated by commas
2. Choose accession year(s). If selecting multiple years, type the years separated by a comma
3. Choose to sort by Accession Number or Name
4. Choose to send the report to Excel or the screen
5. Click Run

The screenshot shows the 'Acc Register/MPI' report generation interface. At the top, there are three tabs: 'Acc Register/MPI' (selected), 'Request Log', and 'Report File'. Below the tabs, there are several input fields and options:

- 1**: A dropdown menu for 'Hospital Code' with the value '01,02,03,04' and a dropdown arrow icon.
- 2**: A text input field for 'Years' with the value '2021,2021'.
- 3**: 'Sort By' options: 'Accession Number' (selected with a radio button) and 'Name' (unselected).
- 4**: 'Send Report To' options: 'Excel' (unselected) and 'Screen' (selected with a radio button).
- 5**: A 'Run' button at the bottom left.

An inset 'Hospital Lookup' dialog box is shown on the right, displaying a table of hospitals with checkboxes for selection:

Hosp Nbr	Hosp Name
<input checked="" type="checkbox"/>	01 ERS 2022 HOSPITAL
<input checked="" type="checkbox"/>	02 ST ELSEWHERE
<input checked="" type="checkbox"/>	03 SUNSHINE HOSPITAL
<input checked="" type="checkbox"/>	04 Who Knew Hospital
<input type="checkbox"/>	05 Hollywood Hospital
<input type="checkbox"/>	06 JOLLY MEDICAL CENTER
<input type="checkbox"/>	07 GULF SAND MEDICAL CENTER
<input type="checkbox"/>	08 SUNSET WEST HOSPITAL
<input type="checkbox"/>	09 ARIAL MEDICAL CENTER
<input type="checkbox"/>	10 BUCK ROGERS HOSPITAL
<input type="checkbox"/>	11 WOODY HOSPITAL
<input type="checkbox"/>	12 LUCA MEDICAL CENTER
<input type="checkbox"/>	13 CORAL MEDICAL CENTER
<input type="checkbox"/>	14 SUNDAY MEDICAL CENTER
<input type="checkbox"/>	15 NORTH STAR MEDICAL CENTER
<input type="checkbox"/>	16 SMOKEY HALLOW MEDICAL CENTER
<input type="checkbox"/>	17 SUNRISE FACILITY

At the bottom of the main interface, there are 'Start Time:' and 'End Time:' labels, and a 'New' button next to the 'Run' button.

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Ad hoc Reports

List for a Population

New Features:

- Users can select an existing population or create a population from the report screen
- Users can delete population labels from the reporting screen
- Users may type in a reporting item number and a list will appear to select the item vs clicking on the drop down to search
- Add and Delete buttons have replaced the “+” and “x” buttons to add rows

Instructions (Illustration on page 14):

1. Select or create a population. Instructions for this can be found [here](#)
2. Type in the name of the report or select one from the drop-down menu for Label if a report already exists
3. Choose item number(s) as desired by typing the number or typing in an item description.
4. Chose B/S/L (Break, Sort, List) as applicable
5. Choose C/D (Code/Description) as desired
6. Choose Display Length if display length other than 20 is desired
7. Choose to limit values as applicable by entering values. Multiple values can be entered using a comma between each value. Entering values here will result in only those values being included in the report
8. Rows can be added and deleted using the “Add” and “Delete” button in the bottom right
9. Choose a Heading and File Name as desired
10. Choose the reporting device: Excel, File Delimited, File Fixed-Width, Screen, Xml
11. Enter a file name if one of the first 3 report devices are selected
12. Click Run

Illustration of List for a Population

List Pop Graph Pop
1

Create a Population Label
 Population Label: 2021 ANALYTIC COLORECTAL CASES

Delete Label
Edit Selection

2
Report Label: PATIENT DIAGNOSTIC INFO
4
5
By: [User Login]
6
Requested On: 01/16/2023

Choose the Items for Your Report

Item Nbr	Item Description	B/S/L	C/D	Display Length	Limiting Values
132	Accession Nbr	L	C	20	
1	Last Name	S	C	20	
20	First Name			0	
150	Date of Diagnosis			0	
117	Site Code			0	
118	Seq of Primary	3730	Date of Diagnosis - Month	0	
133	Topography Code	3731	Date of Diagnosis - Day	0	
153	Histology	3731	Date of Diagnosis - Year	0	
568	Summary Ajcc Stage Group	3732		0	2

date of diag
 Item Nbr Item Description
150 Date of Diagnosis
 3730 Date of Diagnosis - Month
 3731 Date of Diagnosis - Day
 3732 Date of Diagnosis - Year

7

8
Add Delete

9

Heading: PT DX info for 2021 Colorectal cases

File Name: 11

Include Column Headers

Reporting Device

Excel

File Delimited

File Fixed-Width

Screen

Xml

10

Start Time: - End Time: -

12
Run
New
Delete
Save

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Graph for a Population

New Features:

- Users can select an existing population or create a population from the report screen
- Population labels can now be deleted from the report screen
- Users now have the ability to run multiple graphs at once
 - When running multiple graphs, they will each appear on their own tab (screen and Excel)
- Different graph types can be chosen for each separate graph item.
 - Example: If a user chooses to graph site and sex, the user can choose for site to be viewed as a bar graph and sex as a pie chart

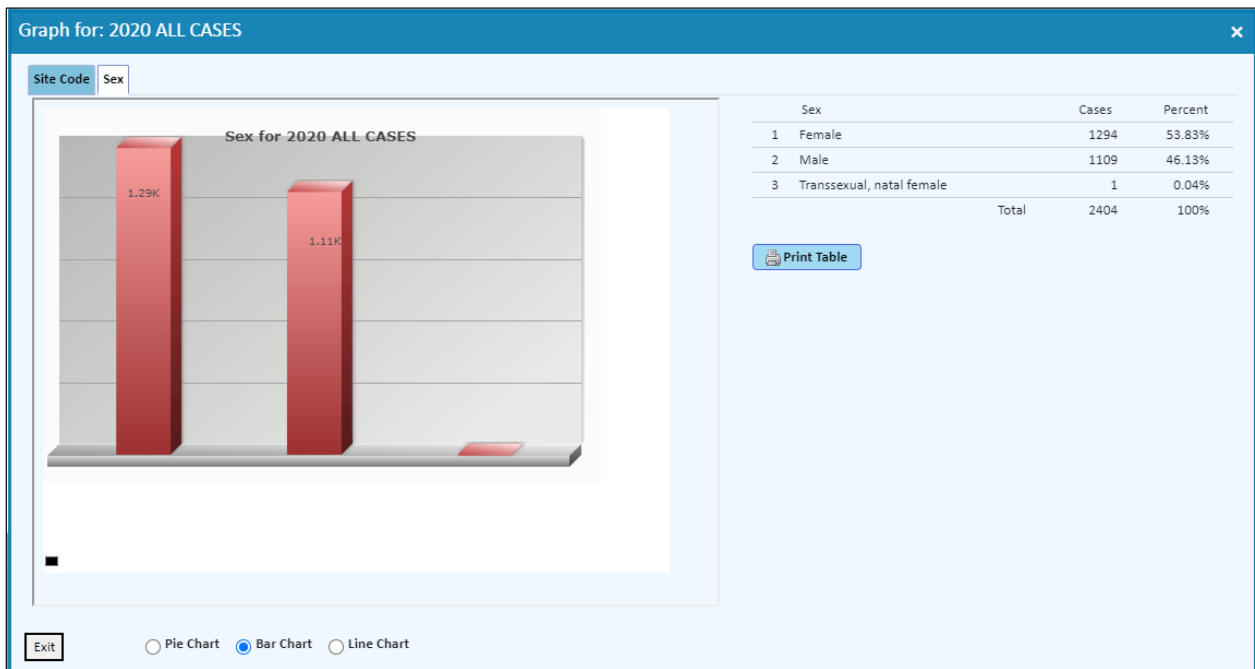
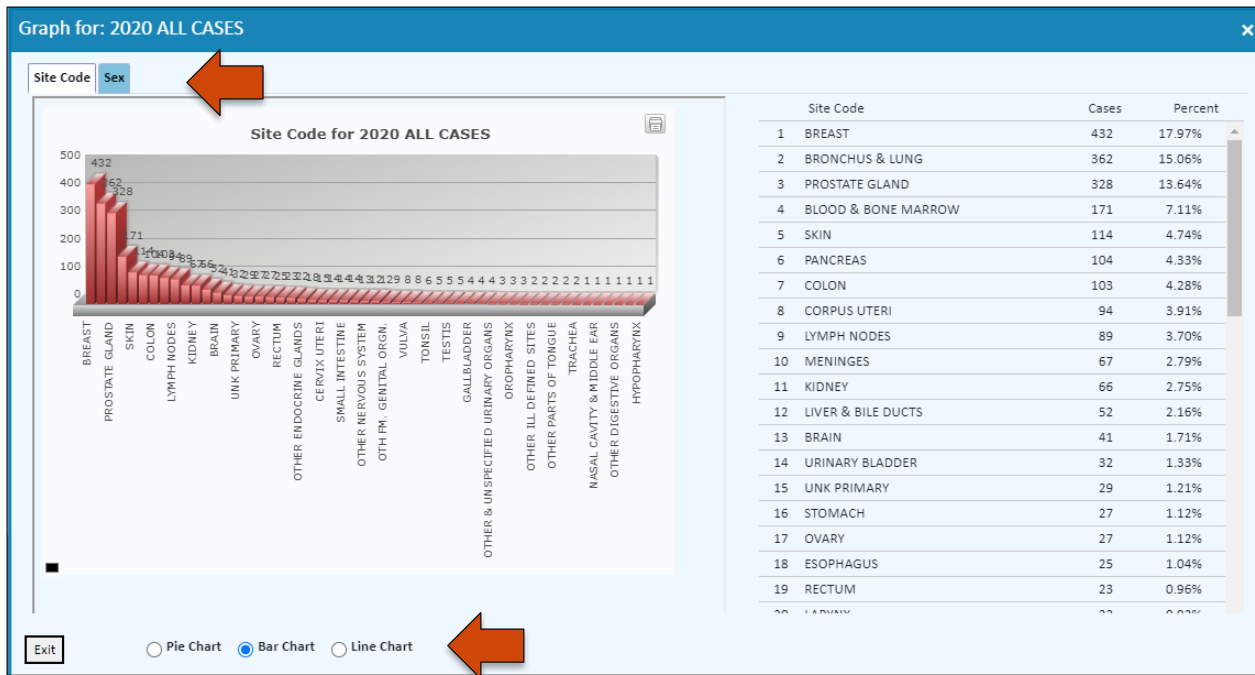
Instructions (Illustrations below and on page 16)

1. Select or create a population. Instructions for this can be found [here](#)
2. Under "Report Elements" choose item numbers for report by manually entering, selecting from the dropdown or typing in the description
3. Choose to display in Codes or Descriptions
4. Select graph type
5. If more than four reports are needed, the user can click the Add button to add another graph row.
6. Choose to send report to Excel or the Screen
 - a. If screen is selected, user will have the option to choose the color of the bar/line graph
 - b. Screen - Each graph will display within its own tab on the screen. The style of graph can be changed by choosing one of the chart styles at the bottom of the screen
7. Click Run

The screenshot shows the 'Graph Pop' interface with the following elements highlighted by numbered callouts:

- 1**: The 'Graph Pop' tab and the 'Population Label' dropdown menu.
- 2**: The 'Item Number' dropdown menu in the first 'Report Elements' row.
- 3**: The 'Description/Title' dropdown menu in the first 'Report Elements' row.
- 4**: The 'Graph Type' radio buttons in the first 'Report Elements' row.
- 5**: The 'Send Report To' radio buttons (Excel and Screen).
- 6**: The 'Bar & Line Color Selection' dropdown menu in the first 'Report Elements' row.
- 7**: The 'Run' button at the bottom of the interface.

Illustration of Graph for a Population Output



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