



# CRStar Insights

## Creating Subpopulations With “Or” Logic

Using “And” and “Or” logic options within a single **Select a Population** may produce skewed results and include cases that the report writer did not intend. For some report requests, it is necessary to create a population and then use a subpopulation to include the requested “Or” logic. This Insight will show users how to properly use “Or” logic using subpopulations.

In our example, we have a request for all cases diagnosed in 2022 who received chemo and/or radiation. Users may be tempted to use the following logic in their report:

Selection Criteria						
	Item Nbr	Item Description	Relation	Data Values	Logic	
1	3732	Date of Diagnosis - Year	=	2022	And	Copy
2	839	Chemo Code Summary	=	01,02,03	Or	Copy
3	549	Reason No Radiation	=	0	And	Copy
						Add Delete
Start Time: -		End Time: -		Records Selected: 78901		

This logic will produce results; however, it will provide all cases diagnosed in 2022 who received chemo, and all cases receiving radiation, regardless of year of diagnosis. This is not what had been requested.

To capture cases diagnosed in 2022 only, who had chemo or radiation, a subpopulation must be used.

# Create the Original Select a Population

This population show all cases diagnosed in 2022:

Population Label: 2022 cases

Requested By: Jonathan LoginRequest Date: 03/06/2025

Hospitals:

☒ Include All Primaries

☐ Include Unique Primaries from this population criteria

☐ Include Unique Primaries

☒ None

☐ Dx Date

☐ 1st Contact Date

Abstract/Suspense Cases

☒ Abstract Cases Only

☐ Suspense Cases Only

☐ All Cases

Case Type

☐ Analytic Cases Only

☐ Complete Cases Only

☐ Incomplete Cases Only

☐ Non-Reportable State Flag

Site Codes

	Site	Site Description
1		
2		
3		

AddDelete

Selection Criteria

	Item Nbr	Item Description	Relation	Data Values	Logic	
1	3732	Date of Diagnosis - Year	=	2022	And	Copy
2						Copy
3						Copy

AddDelete

Start Time: 8:43:11 AM

End Time: 8:43:13 AM

Records Selected: 5723

# Create the Subpopulation

To create a subpopulation, users will need to:

1. Click **New**.
2. Search for the original population.
3. Enter a new label in the “New Label” field.
4. Adjust the logic in the report to look for chemo and/or radiation treatment for the 2022 diagnosed cases selected in the original report.

Population Label:  New Label:

Requested By:  Request Date:

Hospitals:

☒ Include All Primaries
 ☐ Include Unique Primaries from this population criteria
 ☐ Include Unique Primaries from

☒ None
 ☐ Dx Date
 ☐ 1st Contact Date

Abstract/Suspense Cases:
 ☒ Abstract Cases Only
 ☐ Suspense Cases Only
 ☐ All Cases

Case Type:
 ☐ Analytic Cases Only
 ☐ Complete Cases Only
 ☐ Incomplete Cases Only
 ☐ Non-Reportable State Flag

Site Codes	
Site	Site Description
1	
2	
3	

Add Delete

Selection Criteria					
Item Nb	Item Description	Relation	Data Values	Logic	
1	839 Chemo Code Summary	=	01,02,03	Or	Copy
2	549 Reason No Radiation	=	0	And	Copy
3					Copy

Add Delete

Start Time: 9:29:08 AM End Time: 9:29:09 AM Records Selected: 2802

Please note: In the example above, a new label was entered, the previous logic was removed, and new logic using a line of “Or” logic has been added. Our first population showed 5,723 cases, but our subpopulation shows that 2,802 of those 5,723 cases diagnosed in 2022 received chemo OR RT (patients receiving both are also included).

**IMPORTANT: If Changes to the Subpopulation are Required After the Initial Selection:**

Do **not** use the subpopulation. Using the subpopulation will run the report as a new population that no longer only selects cases from the previous population.

In this situation, users will need to go back to the original population to create a new subpopulation.

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