Using CDC Wonder to Identify ICD-10 based estimates of 'pregnancy-associated' deaths, *as used in Funding Opportunity CDC-RFA-DP24-0053, Preventing Maternal Mortality: Supporting Maternal Mortality Review Committees*

1. Go to the CDC Wonder home page: https://wonder.cdc.gov/

2. Under the Deaths heading, select "Underlying Cause of Death"

3. You will then be taken to page with the heading "All Ages Deaths by Underlying Cause". Select 2018-2021: Underlying Cause of Death by Single-Race Categories"

4. You will then be taken to a page where you need to acknowledge you will abide by the terms of data use. Select "I agree" at the bottom of the page.

5. You will now be on the Data Query page. Under "1. Organize table layout" the default "Group Results By" is "Census Region".

Change "Census Region" to "State"

1. Organize table layout:

Group Results By	State
And By	None
And By	None
And By	None
And By	None

Notes:

• Group Results By "15 Leading Caus corresponding 113 or 130 Cause List.

Measures (**Default measures** always checked and included. Check box to include any others.)

☑ **Deaths**   ☑ **Population**   ☑ **Crude Rate**

For crude rates: ☐ **95% Confidence Interval**   ☐ **Standard Error**

☐ **Age Adjusted Rate**   ☐ **95% Confidence Interval**   ☐ **Standard Error**

☐ **Percent of Total Deaths**

Scroll down to "2. Select location", and click your state (under the "Browse" tab where states are listed).

Once you click on your state, it should appear in the "Currently selected:" box. Here, we selected Alabama.

6. Next, scroll down to "4. Select year and month:". Under the "Browse" tab, in the "Year/Month" box, select years 2019, 2020 and 2021. To do this, click on "2019" and while pressing the "shift" key down,

click on "2021". 2019, 2020, and 2021 should now be in the "Currently selected" box. Note: "All" should not be in the "Currently selected:" box.
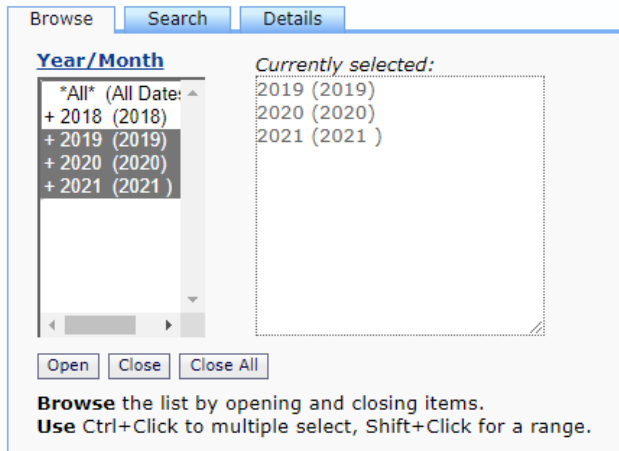
7. Next, scroll down to "6. Select cause of death"

In the "Browse" tab, under the "ICD-10 Codes" box, scroll down and select "+O00-O99 (Pregnancy, childbirth, and the puerperium)" which should now be in the "Currently selected:" box

6. Select cause of death:

Click a button to select ICD codes by Chapters or by Groups.

- ⦿ **ICD-10 Codes**
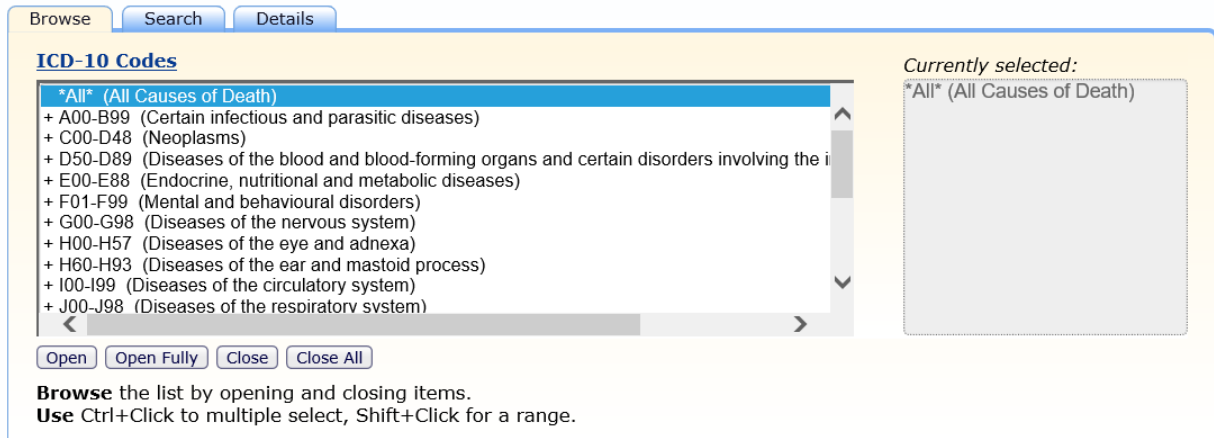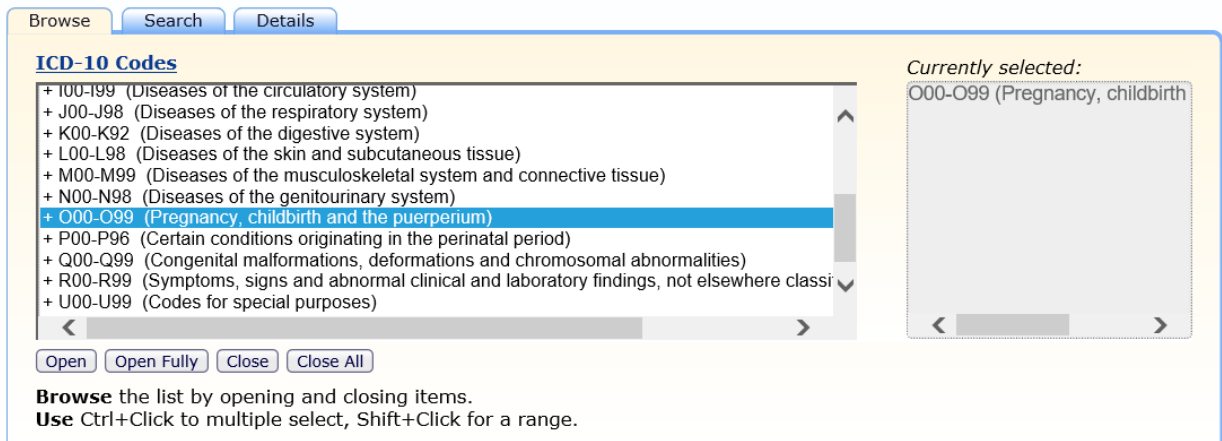- ○ **ICD-10 130 Cause List (Infants)**
- ○ **Drug/Alcohol Induced Causes**
- ○ **ICD-10 113 Cause List**
- ○ **Injury Intent and Mechanism**

Browse or **search** to find items in the ICD-10 Codes Finder Tool, then **highlight** the items to use for this request. (The *Currently selected* box displays all current request items.)

Finder Tool Help   **Advanced Finder Options**

| Browse | Search | Details |

ICD-10 Codes

```
+ I00-I99  (Diseases of the circulatory system)
+ J00-J98  (Diseases of the respiratory system)
+ K00-K92  (Diseases of the digestive system)
+ L00-L98  (Diseases of the skin and subcutaneous tissue)
+ M00-M99  (Diseases of the musculoskeletal system and connective tissue)
+ N00-N98  (Diseases of the genitourinary system)
+ O00-O99  (Pregnancy, childbirth and the puerperium)
+ P00-P96  (Certain conditions originating in the perinatal period)
+ Q00-Q99  (Congenital malformations, deformations and chromosomal abnormalities)
+ R00-R99  (Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classi
+ U00-U99  (Codes for special purposes)
```

Currently selected:
O00-O99 (Pregnancy, childbirth

[Open] [Open Fully] [Close] [Close All]

Browse the list by opening and closing items.
Use Ctrl+Click to multiple select, Shift+Click for a range.

8. Now, Scroll down to "7. Other options:". Show Totals will already be selected for you.

7. Other options:

Export Results ☐	(Check box to download results to a file)
Show Totals ☑	
Show Zero Values ☐	
Show Suppressed Values ☐	
Precision [1 ⌄] decimal places	
Data Access Timeout [10 ⌄] minutes	

In addition, select "Show Zero Values" and "Show Suppressed Values" as shown below.

7. Other options:

Export Results ☐	(Check box to download results to a file)
Show Totals ☑	
Show Zero Values ☑	
Show Suppressed Values ☑	
Precision [1 ⌄] decimal places	
Data Access Timeout [10 ⌄] minutes	

9. Press the "Send" button at the bottom of the page.

[Send]   [Reset]

10. You should receive your output from the query, which should look like the output below.

Underlying Cause of Death, 2018-2021, Single Race Results
Deaths occurring through 2021

Underlying Cause of Death Data   Dataset Documentation   Other Data Access   Help for Results   Printing Tips   Help with Exports   Save | Export | Reset

Quick Options   More Options   Top | Notes Citation Query Criteria

State ⬇	➡ Deaths ⬆⬇	⤨ Population ⬆⬇	⬅ Crude Rate Per 100,000 ⬆⬇
Your State Here	119	14,864,594	0.8
Total	119	14,864,594	0.8

The number of "Deaths" in the second column, between "State" and "Population" is the 3-year total.

To calculate the 3-year average, this total number should be divided by 3. If the 3-year count is 'suppressed' then the 3 year average is categorized as <4 per year.

In the above example, we would divide "119" by 3 to get a 3-year average of "39.67". Rounding to the nearest whole number, the final 3-year average from this example is "40".