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"

D	eaths
	All Ages
	Underlying Cause of Death
	Multiple Cause of Death (Provisional)
	Multiple Cause of Death (Final)

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"

Underlying Cause of Death

2018-2021: Underlying Cause of Death by Single-Race Categories

1999-2020: Underlying Cause of Death by Bridged-Race Categories

1968-2016: Compressed Mortality

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.

By clicking the "I Agree" button **I signify that I will abide by the terms of data use stated above** and understand the sanctions and legal penalties for violation of these terms of use.

I Agree

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 tabl	e layout:		
Group Results By	State V Notes:		
And By	None • Group Results By "15 Leading Caus		
And By	None corresponding 113 or 130 Cause List.		
And By	None		
And By	None		
Measures (Default measures always checked and included. Check box to include any other			
	🗹 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.

+ 11 (District of Columbia) + 12 (Florida)	*All* (The United States) + 01 (Alabama) + 02 (Alaska) + 04 (Arizona) + 05 (Arkansas) + 06 (Colorado) + 08 (Colorado) + 09 (Connecticut) + 09 (Connecticut)	01 (Alabama)
	+ 11 (District of Columbia) ✓ + 12 (Florida)	

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.

Browse Search	Details
Year/Month *All* (All Date: ~ + 2018 (2018) + 2019 (2019) + 2020 (2020) + 2021 (2021)	<i>Currently selected:</i> 2019 (2019) 2020 (2020) 2021 (2021)
Open Close Close	All
Browse the list by o Use Ctrl+Click to m	opening and closing items. ultiple select, Shift+Click for a range.

7. Next, scroll down to "6. Select cause of death"

5. 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) • ICD-10 113 Cause List • Injury Intent and Mechanism • O Drug/Alcohol Induced Causes • O Drug/Alcohol	
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 Currently selected: *All* (All Causes of Death) * A00-B99 (Certain infectious and parasitic diseases) + C00-D48 (Neoplasms) * Object and blood-forming organs and certain disorders involving the i + E00-E88 (Endocrine, nutritional and metabolic diseases) * All* (All Causes of Death) + F01-F99 (Mental and behavioural disorders) * Hoo-H93 (Diseases of the nervous system) + H00-H57 (Diseases of the eye and adnexa) * H60-H93 (Diseases of the ear and mastoid process) + 100-J99 (Diseases of the respiratory system) * Joo-J98 (Diseases of the respiratory system)	th)
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.	

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

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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	\checkmark
Show Zero Values	
Show Suppressed Values	
Precision	1 🔽 decimal places
Data Access Timeout	10 v minutes

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



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



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

Request Form Results Map	Chart About				
Underlying Cause of Death Data	Dataset Documentation Other Data Access	Help for Results Printing Tips Help with Exports	Save Export Reset		
Quick Options More Opt	Quick Options Top Notes Citation Query Crites				
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".