



Maryland Emergency Preparedness Network
**COVID-19 & CHRONIC CONDITIONS AT HOME:
Looking Through Two Lenses**

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The information in this presentation is current as of August 12, 2020, unless otherwise noted, and subject to change.

Goals

- ❖ Provide update on COVID-19 epidemiology
- ❖ State activities
 - Testing
 - Contact Tracing
 - Surge Planning
 - Infection Prevention, Outreach
- ❖ Looking at COVID-19 through two lenses

International: COVID-19



Search by Country, Territory, or Area



Covid-19 Response Fund

Donate

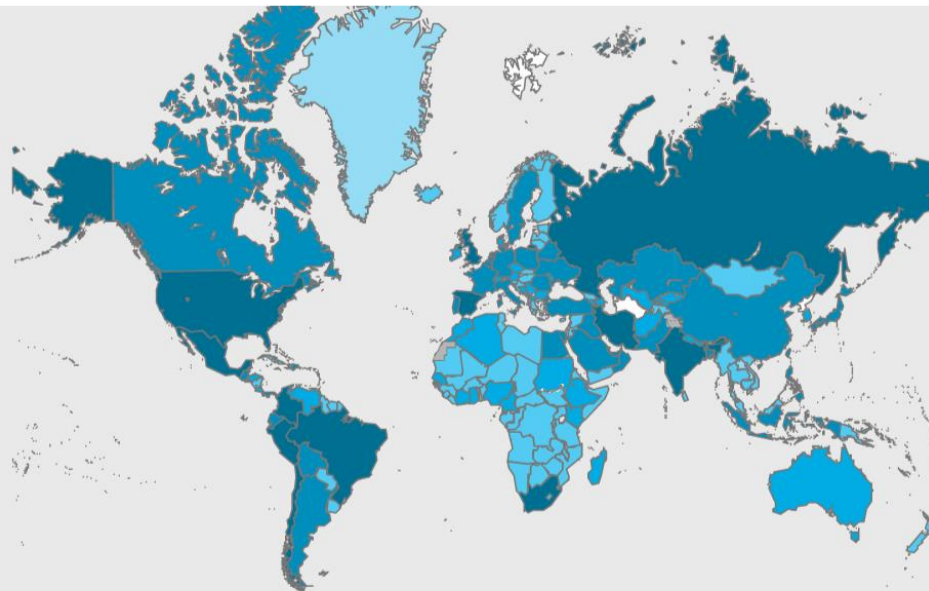
WHO Coronavirus Disease (COVID-19) Dashboard

Data last updated: 2020/8/12, 5:05pm CEST

[Overview](#)

[Data Table](#)

[Explore](#)



Download Map Data

Source: World Health Organization

Globally, as of 5:05pm CEST, 12 August 2020, there have been 20,162,474 confirmed cases of COVID-19, including 737,417 deaths, reported to WHO.

Source: <https://covid19.who.int/>



U.S.: COVID-19

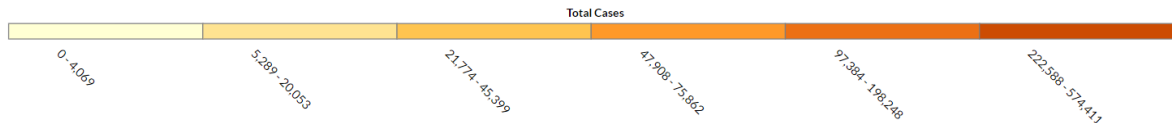
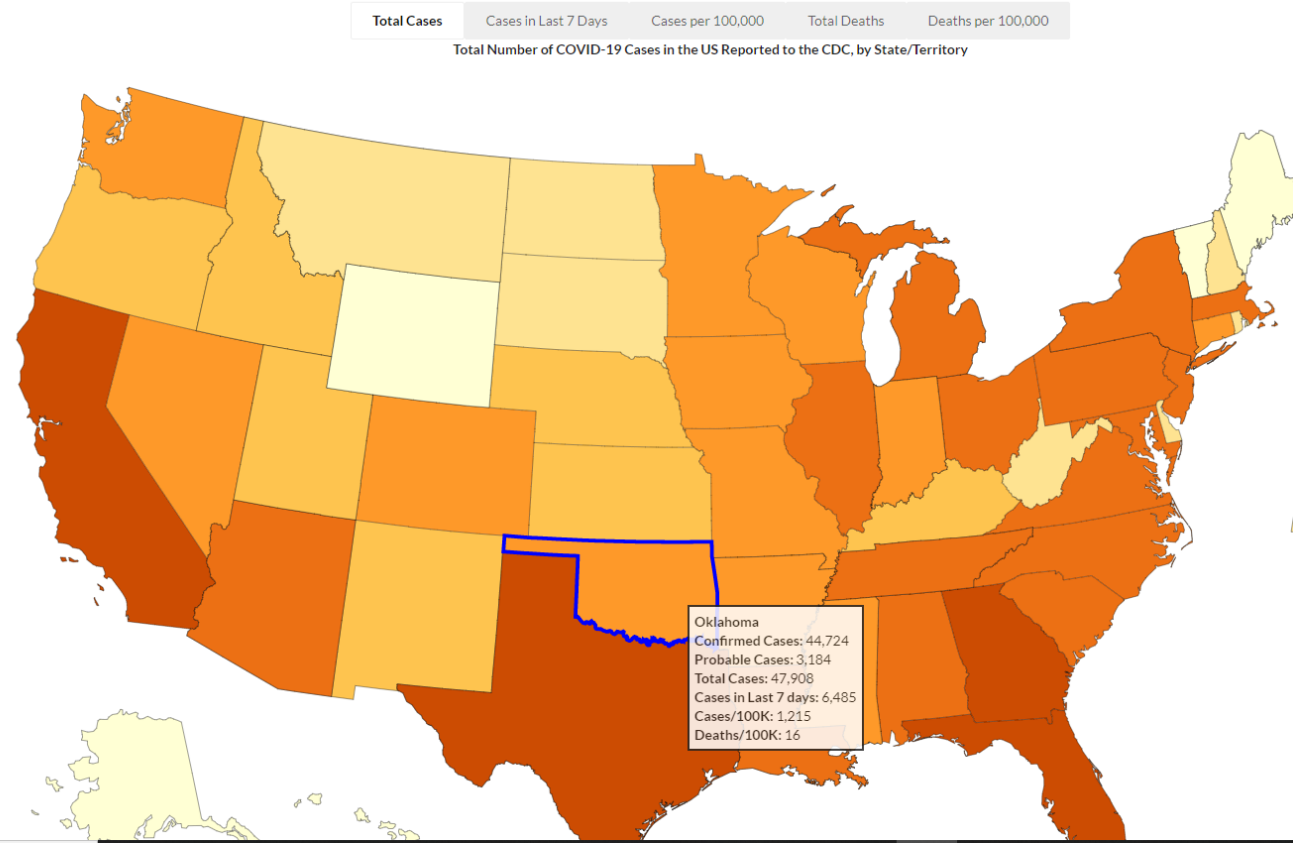
USA
5,119,711
 TOTAL CASES
CDC | Updated: Aug 12 2020 12:49PM

USA
163,651
 TOTAL DEATHS
CDC | Updated: Aug 12 2020 12:49PM

USA
1,562
 Cases per 100,000
 People
CDC | Updated: Aug 12 2020 12:49PM

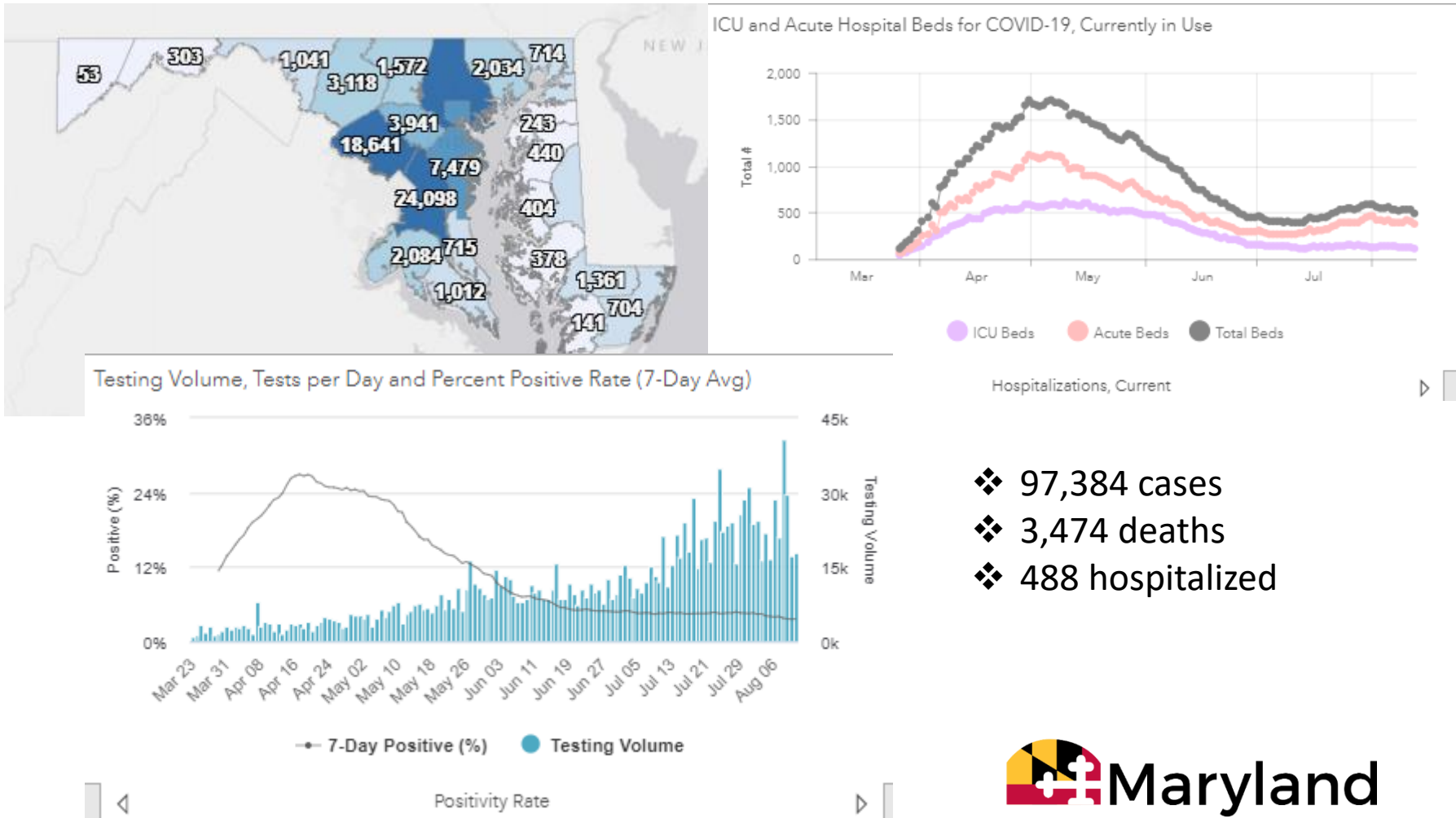
Total Cases by State/Territory

State/Territory	Total Cases	Confirmed	Probable
California	574,411	N/A	N/A
Florida	536,981	N/A	N/A
Texas	500,620	N/A	N/A
New York City*	229,927	225,284	4,643
Georgia	222,588	N/A	N/A
Illinois	198,248	196,948	1,300
New York*	193,660	N/A	N/A
Arizona	188,737	187,362	1,375



Data updated August 12, 2020

Maryland: COVID-19



- ❖ 97,384 cases
- ❖ 3,474 deaths
- ❖ 488 hospitalized



Trends

- ❖ Younger cases
- ❖ More from Central Maryland
- ❖ Disparities by Race/Ethnicity

State Activities

- ❖ Testing
- ❖ Contact Tracing
- ❖ Surge Planning
- ❖ Infection Prevention, Outreach

Looking at COVID-19 Through Two Lenses

Symptoms

❖ Symptoms from the CDC

- Fever
- Chills
- Rigors
- Myalgia
- Headache
- Sore throat
- Nausea or vomiting
- Diarrhea
- Fatigue
- Congestion or runny nose

Two Lenses for COVID-19

- ❖ Infectious Disease
- ❖ Occupational Medicine

Looking at COVID-19 through 2 lenses...

Considering COVID-19 in Complex Chronic Diagnoses

- Coronary artery disease (CAD)
- Diabetes
- COPD

Coronary Artery Disease

- ❖ Elevated risk of death for people with CAD (OR 3.8; 95% CI 2.1-6.9; $P < 0.00001$) [Tian et al., 2020]
- ❖ Hypertension an independent risk factor

Diabetes

- ❖ What is known about diabetes and COVID-19?
 - Glucose control?
 - Inflammatory response?
 - Potential mechanism of damage to pancreas in healthy individuals leading to increased risk of T2DM?
 - Optimal glycemic control, use of short-acting agents versus longer acting agents, use of metformin?
 - Indicators of increased risk among all people with diabetes?
 - Diabetes in children?
- ❖ Elevated risk of mortality with dx of diabetes (OR 2.0; 95% CI 1.7-2.3; $P < 0.00001$) [Tian et al., 2020]

COPD

- ❖ COPD a risk factor for more severe disease (OR 4.38; 95% CI 2.34-8.20)[Zhao et al., 2020]
- ❖ Mortality rate observed to be high (38.5%)

References

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Questions?
