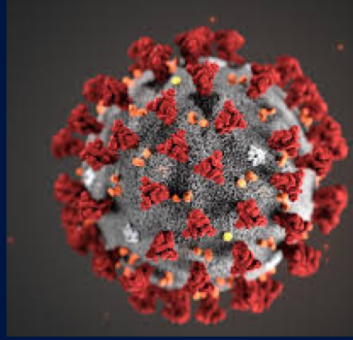




University of Maine System COVID-19 Testing Strategies



- Dannel Malloy, Chancellor, The University of Maine System
- Joan Ferrini-Mundy, PhD, President of University of Maine and University of Maine at Machias
- Melissa Maginnis, PhD, Associate Professor, Virologist, University of Maine



University of Maine System

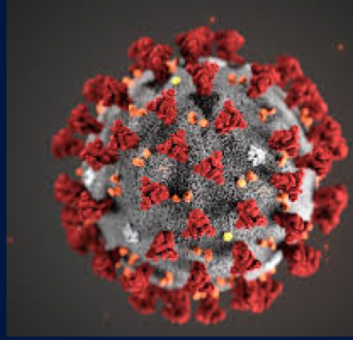
- UMS comprises Maine's public universities and only law school
 - Appx 30,000 students across 7 campuses, numerous outreach centers, and online
 - UMaine = flagship research land/sea/space grant
- Maine - largest state in New England, lowest COVID prevalence in the nation currently
- Just under half (45%) of students have in-person courses this fall



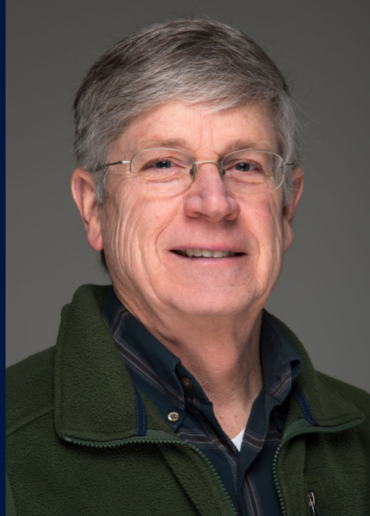
University of Maine System

- Led Pandemic Collaboration and Safe Return Planning across Maine's \$4.5 Billion Higher Education Sector
- Partnered with Maine Emergency Management to Help Lead State's COVID-19 Response
- A Commitment to Science, Student Success, and Community Safety

UMS Scientific Advisory Board



Melissa Maginnis, PhD,
Virology, UMaine, Lead



Bill Halteman, PhD,
Statistical Consultant,
UMaine



Joan Ferrini-Mundy, PhD,
President UMaine & UMM, Chair



Rob Wheeler, PhD,
Immunology, UMaine



Sara Huston, PhD,
Epidemiology, USM

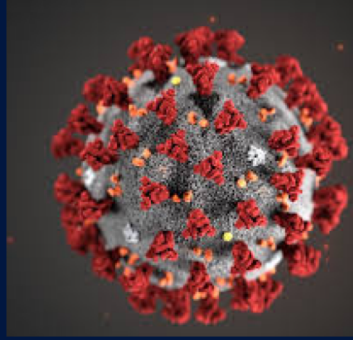


Kristy Townsend, PhD,
Adjunct Faculty, Biomedical Sciences,
UMaine



Caitlin Howell, PhD,
Biomedical Engineering,
UMaine

UMS Testing Strategy Management



Safe Planning
Team

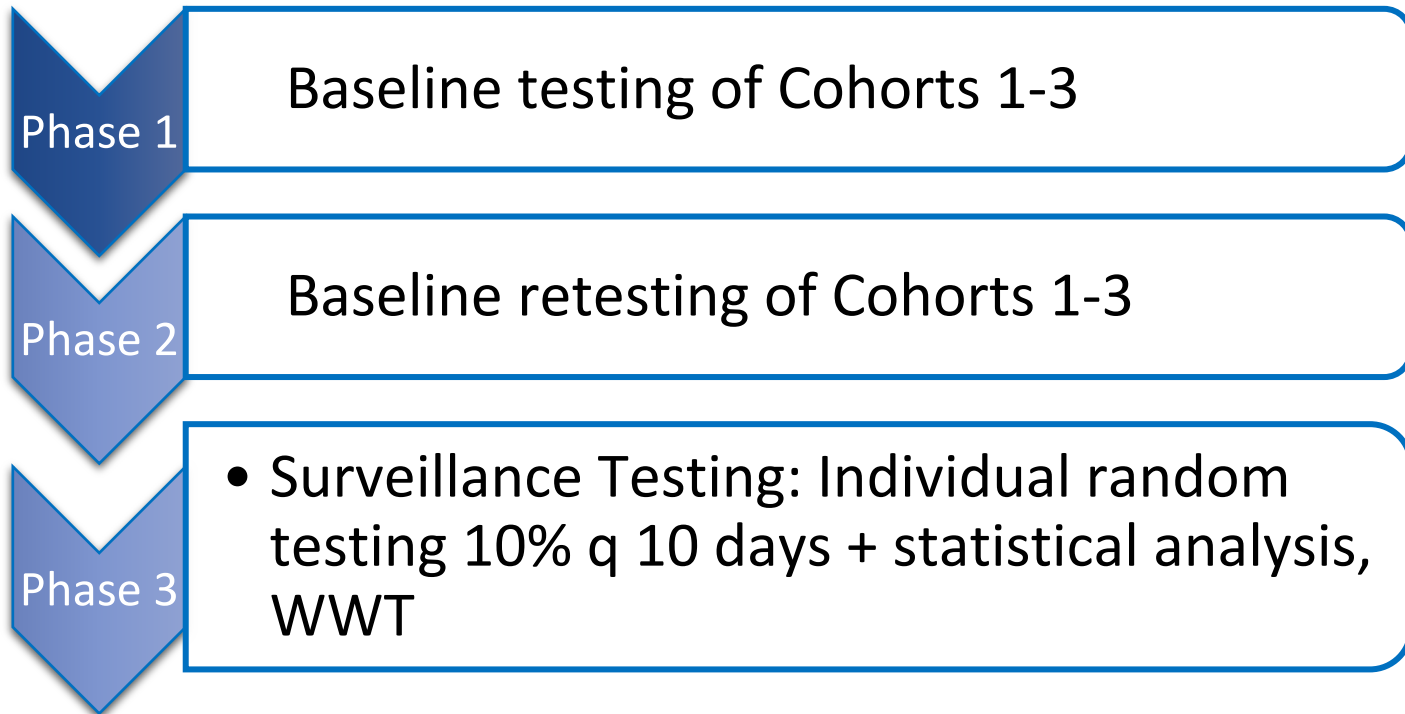
Scientific
Advisory
Board

Asymptomatic
Testing Team





UMS COVID-19 Testing Strategy



- **Phase 1 and 2 Results:** prevalence rate = 0.09% (14:14,869 tests)
- **Phase 3 Results:** prevalence rate = ~0.11% (2:3,755 tests)



Public Health Measures in Response to COVID-19 Cases

Test



Trace



Isolate



Rapid, high-throughput diagnostic testing



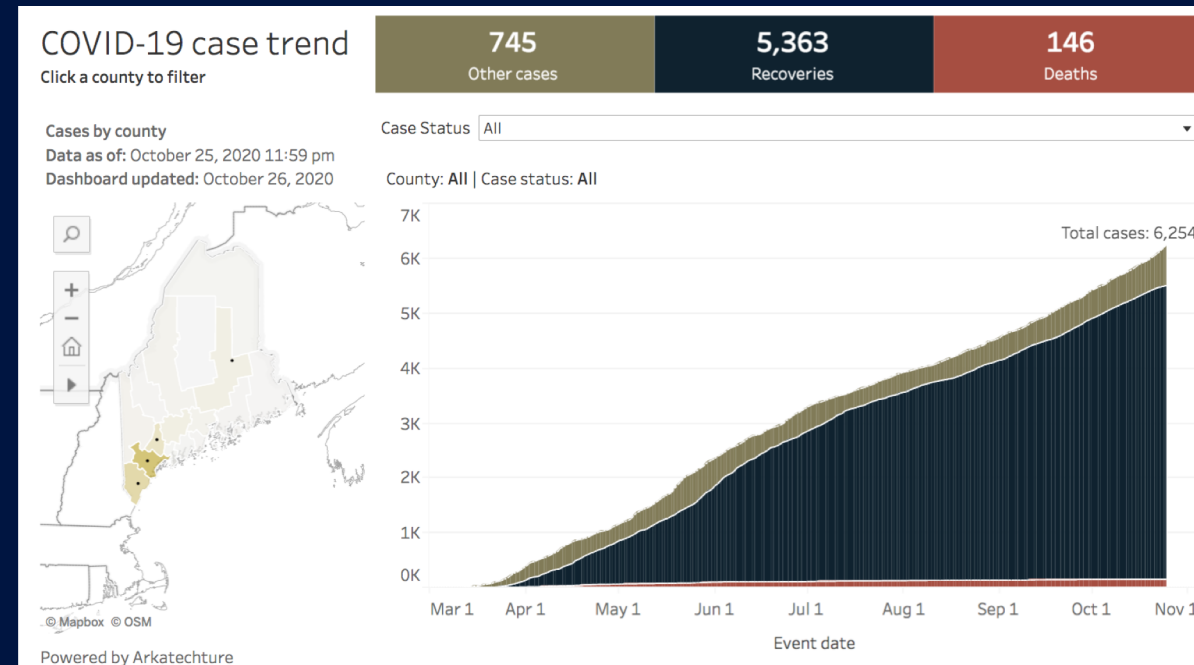
Contact tracing of COVID-19+ (contacts within <6ft for >15 min are quarantined)



Isolation of COVID-19+ patients until healthy to return

Important Measures for UMS Monitoring COVID-19

- Background COVID-19 disease rate in the state of Maine
 - Campus location specific
- Prevalence rate on particular campuses
- Wastewater testing
- Campus isolation and quarantine capacity
- Local hospital capacity



Complementary Strategy: UMS Wastewater Testing

Wastewater surveillance on campuses:
UMaine, USM, and UMFK



Partnership for collection and Dr. Rob Wheeler's lab testing:

- Sampling wastewater 1x/week
- Measure viral RNA levels via IDEXX qPCR test (student involvement)
- Coordination with facilities and campus EOCs



UMaine, WW testing



IDEXX
LABORATORIES

Robert Wheeler, PhD
Caitlin Howell, PhD
Jean MacRae, PhD
Ryan Ward
Jeremy Sales
Jake Ward

Complementary Strategy: Public Health Campaign



Chancellor Malloy's "Keep it Up" Tour

<https://www.maine.edu/together/>

Complementary Strategy: Partnership with State and Local Officials

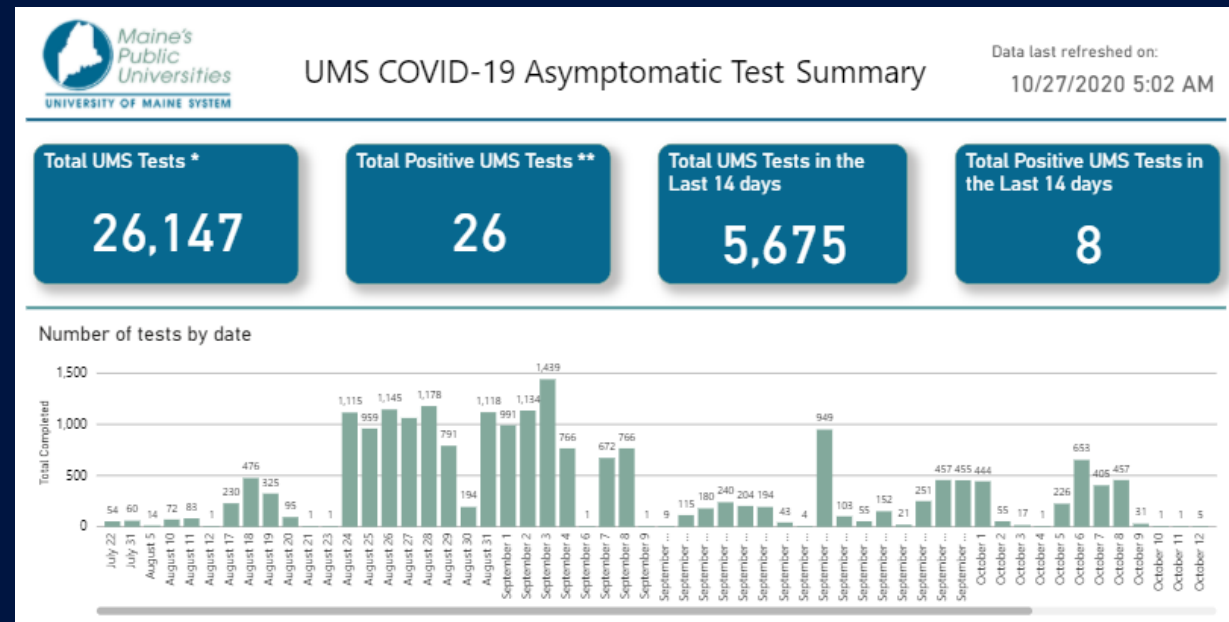


STATE OF MAINE

Department of

Health and Human Services

- Epidemiological Investigations
- Statewide Media Briefings
- Dashboards and Transparency





Questions and Discussion

Contact and Resources:

UMS Together for Maine:

<https://www.maine.edu/together/>

UMS COVID-19 Scientific Advisory Board:

<https://umaine.edu/president/science-advisory-board/>