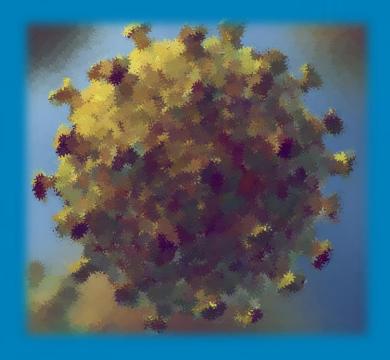
COVID-19: Current State of the Pandemic and Looking Ahead



Circle of Excellence August 21, 2020

Topics

- Overlake's Experience
- Resources & Materials
- Screening & Visitor Management
- Personal Protection: PPE & Distancing
- Evaluation & Testing
- Treatment & Prevention
- Hot Topics

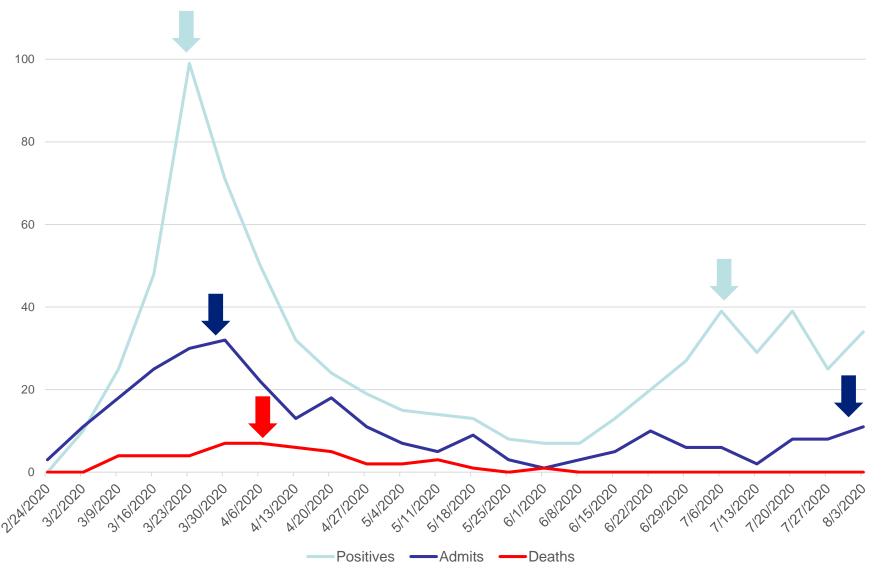


Overlake Testing & Outcomes

Factor (as of 8/18/20)	Result
Tested	16,495 (now about 1,100/week)
Positives (+)	5.7% of those tested are (+)
Male	5.8% of those tested are (+)
Female	5.3% of those tested are (+)
Treated in hospital	252
COVID-19 census	8 - 11 (was 2-5)
Patient deaths	48 (none since May)
ICU mortality once on ventilator	40% (national = 70+%)
COVID-19 positive employees	51 (no deaths, 1 hospitalization)

Overlake Testing & Outcomes

Overlake: New Positives, Admissions, Deaths



COVID-19 Testing

Testing

- PCR: fragments of genetic material (swab)
- Antibody: body's response to virus (blood)
- Culture: live virus infectious (swab)

What does the test mean or tell us?

- Sensitivity (false negative)
- Timing
- Immunity



COVID-19 Resources & Materials

Supplies & Equipment

- Masks/respirators
- Gloves & gowns
- Testing supplies
- Ventilators



Human Resources

- Providers
- Nurses

Cohorting



Screening & Visitor Management

Screening

- Symptoms
- Temperature



Visitors

- Screening process
- Numbers
- Children

Others

Vendors, deliveries

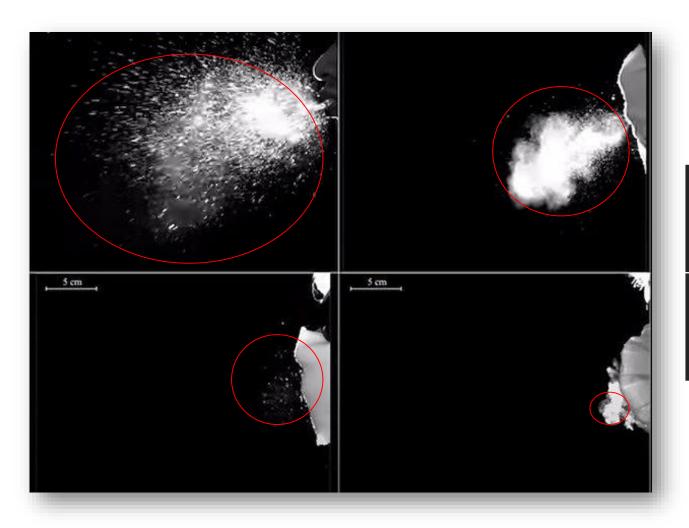
Exceptions

- Actively dying
- Caregivers
- Patient benefit



Protecting Patients, Visitors and Staff

Why do we mask?



Nothing	Single layer cloth
Double layer cloth	Surgical

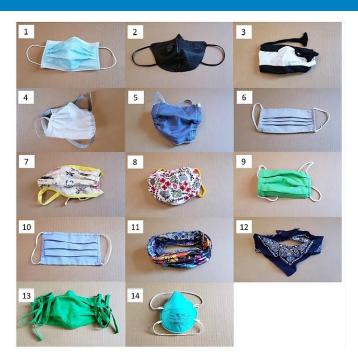
Protecting Patients, Visitors and Staff

Personal protection is for everyone's benefit

- Masking
- Eye protection
- Socially distancing
- Avoiding crowds

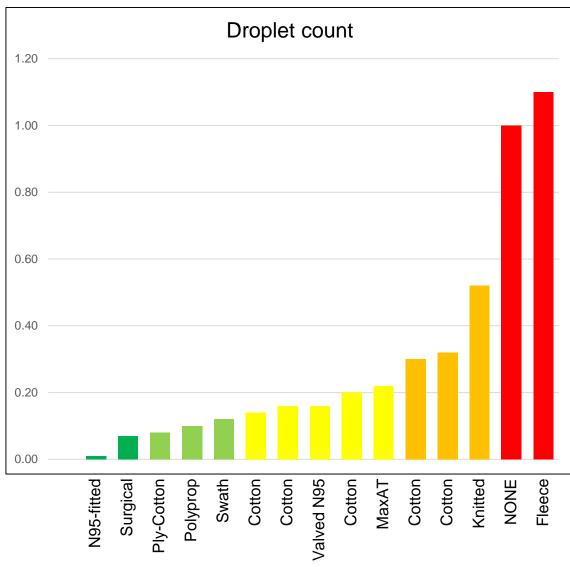


Protecting Patients, Visitors and Staff



NO MASK

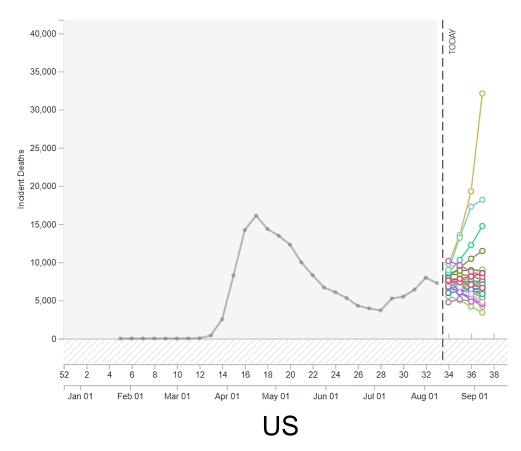




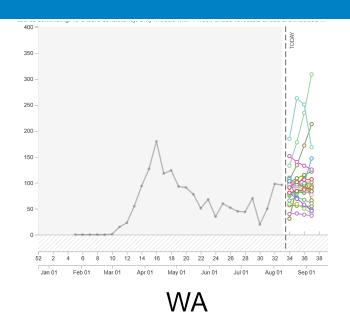


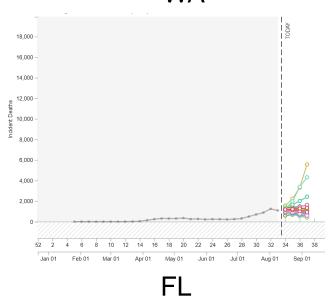
Forecasting Models

Ensemble forecasts - new deaths



Models make assumptions







Travel

Travel

- Risk assessment (prevalence, models, exposure)
- Risk tolerance
- Risk mitigation



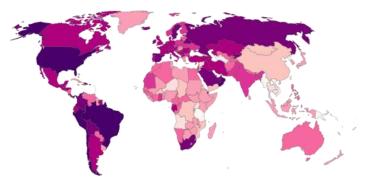


Travel

What is your risk tolerance?

International

- Where do you want to go?
- Who will allow you in?



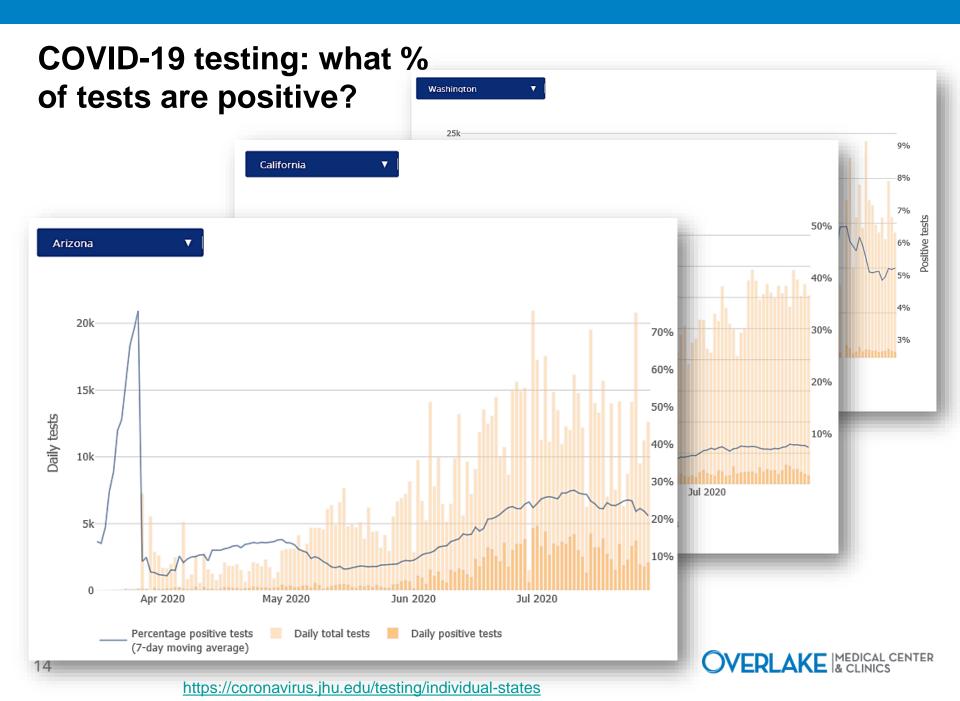
America

- Assessing risk: prevention vs new cases vs mortality
- Testing: pre and post flight
- Quarantines

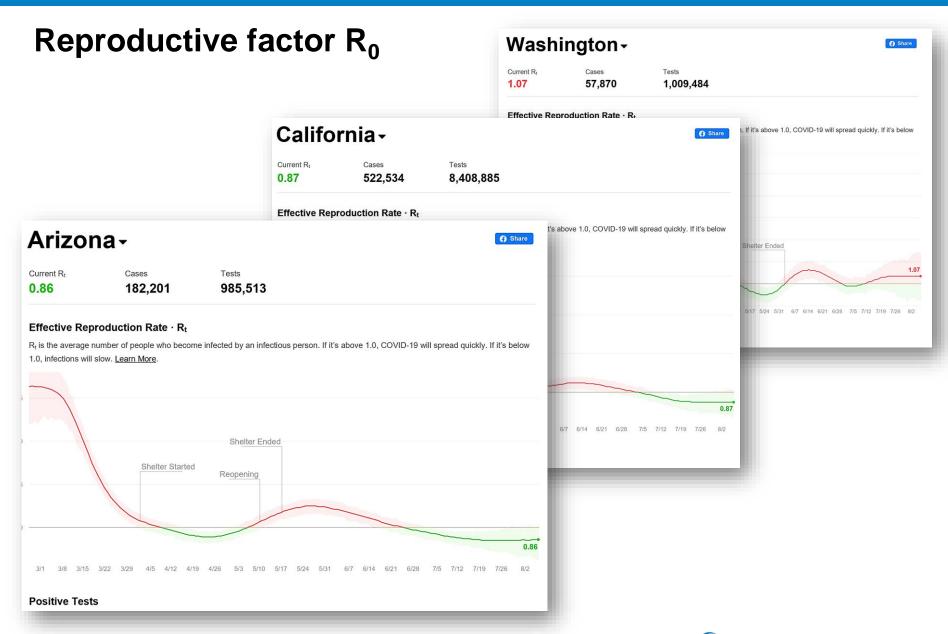




Travel - Risk Assessment



Travel - Risk Assessment



Travel – Risk Mitigation

What you touch:

- Hand washing/sanitizer
- Eyes/mouth/nose
- Seats/trays
- Seat cleaning
- Eating/drinking

What you breath:

- Masking
- Ventilation systems
- Middle seat
- Passenger with no mask

Evaluation & Testing

PCR test – nasal swab

- Get tested if symptomatic
- Get tested 6 days after an exposure
- Testing is accurate as of that moment only
- False negatives





Therapeutics

Treatment

- Antivirals
- Antibodies
- Immune system modulators
- Blood thinners
- Non-medication

Prevention

- Vaccines
- Medications
- Convalescent sera (blood plasma from survivors)



Treatment

Options

- Remdesivir
- Steroids (dexamethasone/Decadron)
- Convalescent sera (blood plasma from survivors)

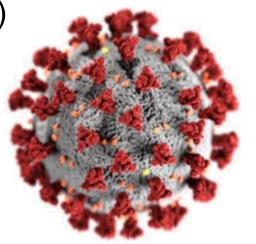
Non-medication

Positioning and ventilatory support

Prevention

Vaccines

- More than 100 vaccines with dozens in trials
- About 4 are closer than the rest (moving to Phase III)
 - ✓ Oxford/AstraZeneca (spike proteins)
 - √ CanSino (viral vector)
 - ✓ Moderna (mRNA vaccine)
 - ✓ CoronaVac (dead/inactivated virus)
- Manufacturing
- Cost



Hot Topic: Pediatric COVID-19

Pediatric COVID-19

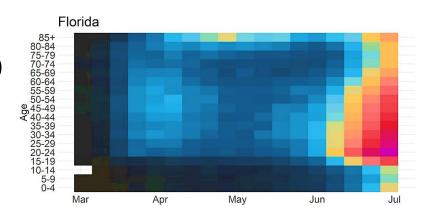
- Over 100,000 children positive in first 2 weeks of August
- Children are contagious
- Pediatric hospitalizations are rising quickly
- One third are admitted to the ICU
- COVID-19 is a vascular disease: MIS-C

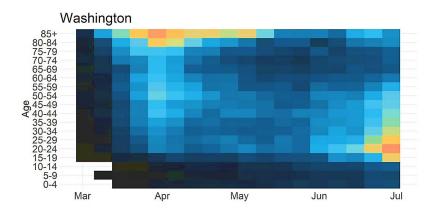


Pediatric COVID-19

Transmission

- Children and teens do get COVID-19
- They are infectious!
- Spread occurs via family, work, etc.







QUESTION & ANSWER