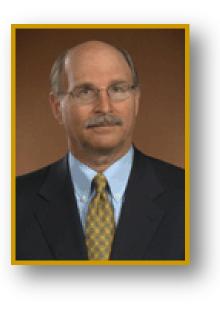


Bystander Rescue Care CareUniversity Series

# Welcome



### **Charles Denham, MD**

Chairman, TMIT Global Founder Med Tac Bystander Rescue Care

Med Tac Bystander Rescue Care February 3, 2022

CareUniversity Webinar 179

- □ VIRAL LOAD why is it important?
- □ What is the RIGHT TEST at the RIGHT TIME?
- **QUARANTINE:** How does testing impact it?
- □ ISOLATION: How does testing impact it?
- □ Can testing make FAMILY GATHERINGS SAFER?
- How does TEST-TO-STAY work?
- □ How do I best TEST-TO-TRAVEL?



### Turn the Science into Safety<sub>m</sub>





# **Variant Evolution**

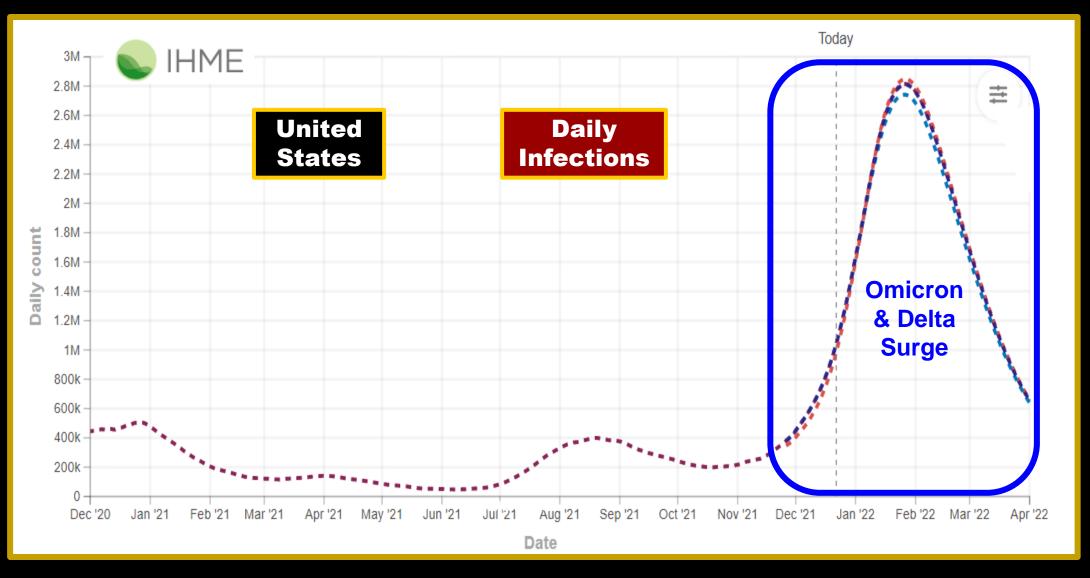
A Rolling & St.

PP-

# Alpha Beta Delta Omicron

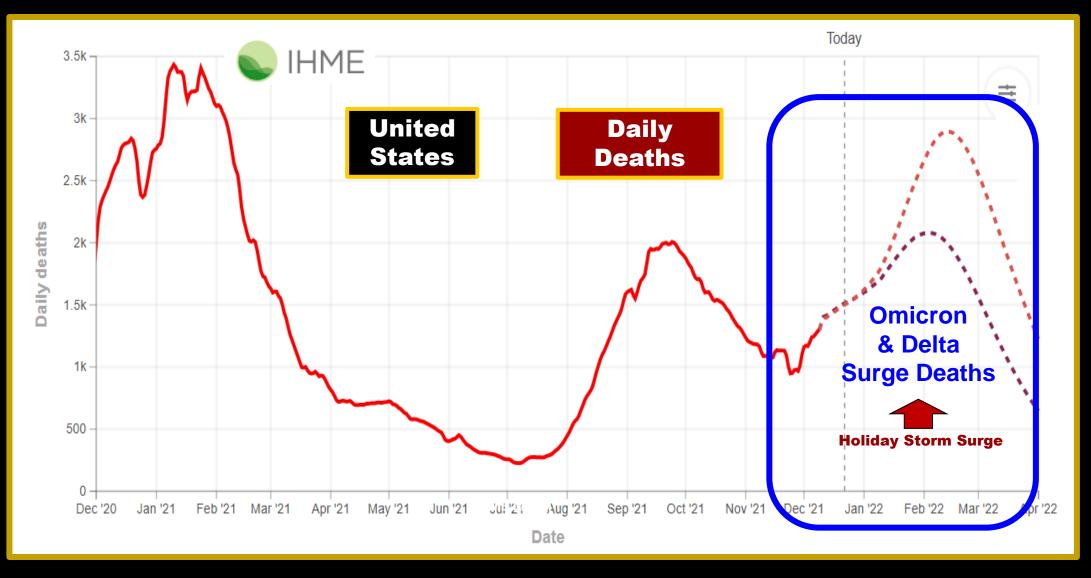
# **Testing to Navigate Care**





12-22-21 IHME Projection

### **U.S. COVID Deaths**



12-22-21 IHME Projection



### **Our Purpose, Mission, and Values**



**Our Purpose:** 

We will measure our success by how we protect and enrich the lives of families...patients <u>AND</u> caregivers.

EMERGING THREATS COMMUNITY OF PRACTICE

### **CAREUNIVERSITY**®

**Our Mission:** 

To accelerate performance solutions that save lives, save money, and create value in the communities we serve and ventures we undertake.

### **Our ICARE Values:**

Integrity, Compassion, Accountability, Reliability, and Entrepreneurship.



### **Disclosure Statement**

The following panelists certify that unless otherwise noted below, each presenter provided full disclosure information; does not intend to discuss an unapproved/investigative use of a commercial product/device; and has no significant financial relationship(s) to disclose. If unapproved uses of products are discussed, presenters are expected to disclose this to participants. None of the participants have any relationship pharmaceutical or device companies discussed in their presentations. The funding of the program is from the Denham Family fund of TMIT Global, a 501c3 Medical Research Organization

- Gregory H. Botz, MD, FCCM, has nothing to disclose.
- William Adcox has nothing to disclose.
- Jennifer Dingman has nothing to disclose.
- Randy Styner has nothing to disclose.
- Heather Foster has nothing to disclose.
- Charlie Denham III has nothing to disclose.

Charles Denham, MD, is the Chairman of TMIT Global; a former TMIT education grantee of CareFusion and AORN with co-production by Discovery Channel for *Chasing Zero* documentary and Toolbox including models; and an education grantee of GE with co-production by Discovery Channel for *Surfing the Healthcare Tsunami* documentary and Toolbox, including models. HCC is a former contractor for GE and CareFusion, and a former contractor with Siemens and Nanosonics, which produces a sterilization device, Trophon. HCC is a former contractor for ByoPlanet, a producer of sanitation devices for multiple industries. He does not currently work with any pharmaceutical or device company. His current area of research is in threat management to institutions including conflict of interest, healthcare fraud, and continuing professional education and consumer education including bystander care. Dr. Denham is the developer and producer of CareUniversity<sup>™</sup>, the learning management system providing continuing education materials for TMIT Global.



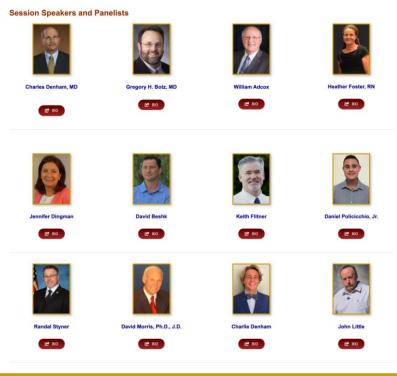
### **Bystander Rescue Care CareUniversity Series**

	Values Coronavirus Recorded out & Team Response Broadcasts	Specialty Student Research & Programs Outreach Development	Learning Objective
	CareUniversity'		Awareness: I     and worship.     Accountabilit     caregivers.
			Ability: Partic     Action: Partic
	onavirus Care	Bystander Rescue Care	To request a Particip
Grobat	unity of Practice	CareUniversity Series	The CAREUniversity webinar. TMIT Globa
February 3, 2022			
	<b>Testing to Navigat</b> Family Survive & Thrive		Session Spe
REGISTER		JOIN EVENT	Charles Den
Session Overview			(d) 80
	t to our "new normal". The CDC tells us the WHAT to DO. We ject matter experts have guided our learning community. Let's		
	What is VIRAL LOAD and what do I need to kn What is the RIGHT TEST at the RIGHT TIME? How do the TESTS OIFFER – PCR vs Antigen? GUARANTINE: HOW does testing impact it? ISOLATION: HOW does testing impact it? Can testing make FAMILY GATHERINGS SAFE How does TEST-TO-STAY work? How do I best TEST-TO-TRAVEL? We will provide a thorough update on how to keep you	R?	Jennifer D
	through future surges.	employees, lamiles, and busiless sale	let a
Go to https://www.medtacglobal Response, Rescue, Recovery, and	.org/coronavirus-response/ for short videos covering the cri Resilience.	ical topics. Join as we focus on family Readiness,	
We offer these online webinars a	at no cost to our participants.		
Webinar Video, and			P.
	within five (5) business days after the webinar.		Randal S
Speaker Slide Set:			
The slides will be posted here before	re the webiner begins.		

#### · Accountability: Participants will understand who can be accountable for prevention of the impact of COVID harm to workers, their families, patients, and caregivers. · Ability: Participants will learn certain concepts, tools, and resources that can be used to optimize prevention of harm due to COVID. · Action: Participants may understand what actions may be immediately to protect workers, their families, patients, and caregivers from the harm of COVID. To request a Participation Document, please click here.

· Awareness: Participants will learn the latest about the impact of COVID variants such as Omicron and emerging threats as they return to work, school, play,

The CAREUniversity Team of TMIT Global, approved by the California Board of Registered Nursing, Provider Number 15996, will be issuing 1.5 contact hours for this webinar. TMIT Global is only providing nursing credit at this time.



### https://www.medtacglobal.org/webinarfebruary2022/



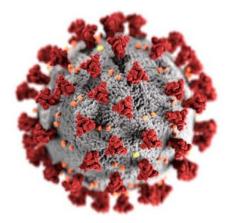
Bystander Rescue Care CareUniversity Series

# **Voice of the Patient**



### **Jennifer Dingman**

Founder, Persons United Limiting Substandard and Errors in Healthcare (PULSE), Colorado Division Co-founder, PULSE American Division TMIT Patient Advocate Team Member Pueblo, CO





Bystander Rescue Care CareUniversity Series

### Speakers & Reactors



Jennifer Dingman



Dr. Gregory Botz



William Adcox



**Charlie Denham III** 



**Randy Styner** 



**Heather Foster RN** 



Dr. C Denham

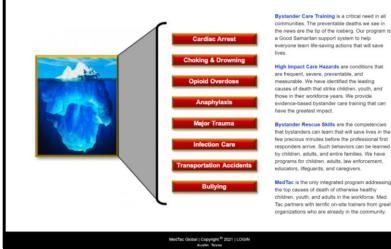


https://www.medtacglobal.org/



#### The Battle Against Failure to Rescue

The Med Tac Program was developed by a team originally focused on active shooter events. When they found that there at least 8 leading causes of preventable death including severe bleeding and that there was no integrated program to teach the public what they can do to save lives and prevent "failure to rescue" before EMS arrives, Med Tac was nor. In many cases bystander rescue care can triple survival if the public knows what to do. The program was funded through 2019 by philanthropy through TMIT Global, a 501c3 medical research organization that teads a global patient safety community of practice found at www.SafetyLeaders.org. With the development of the Coronavirus crisis, our rapid response team has prioritized inflection Care as one of our major focus areas. As of January 1st, 2020 the team has published four articles, and has developed pild programs in five states. **Click here** to download a PDF of the four articles.



# **Cardiac Arrest** Choking & Drowning **Opioid Overdose** Anaphylaxis **Major Trauma** Infection Care **Transportation Accidents** Bullying

**Bystander Care Training** is a critical need in all communities. The preventable deaths we see in the news are the tip of the iceberg. Our program is a Good Samaritan support system to help everyone learn life-saving actions that will save lives.

**High Impact Care Hazards** are conditions that are frequent, severe, preventable, and measurable. We have identified the leading causes of death that strike children, youth, and those in their workforce years. We provide evidence-based bystander care training that can have the greatest impact.

**Bystander Rescue Skills** are the competencies that bystanders can learn that will save lives in the few precious minutes before the professional first responders arrive. Such behaviors can be learned by children, adults, and entire families. We have programs for children, adults, law enforcement, educators, lifeguards, and caregivers.

**MedTac** is the only integrated program addressing the top causes of death of otherwise healthy children, youth, and adults in the workforce. Med Tac partners with terrific on-site trainers from great organizations who are already in the community.

### High Impact Care Hazards to Patients, Students, and Employees



**Opioid Overdose** 



**Major Trauma** 

Infections

**Transportation Accidents** 

Bullying



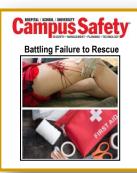
Med Tac

**Story Article** 

Campus Safety

BYSTANDERS

& MEDICAL EMERGENCIES **Rapid Response Teams Article** 



**AED & Bleeding Control Gear Article** 



Gear Placement

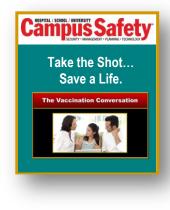




Support today's webinar



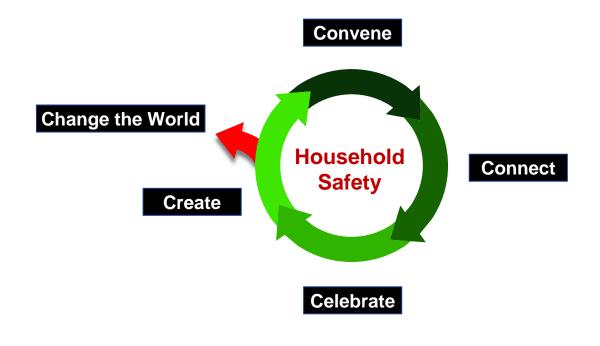
Take the Shot... Save a Life

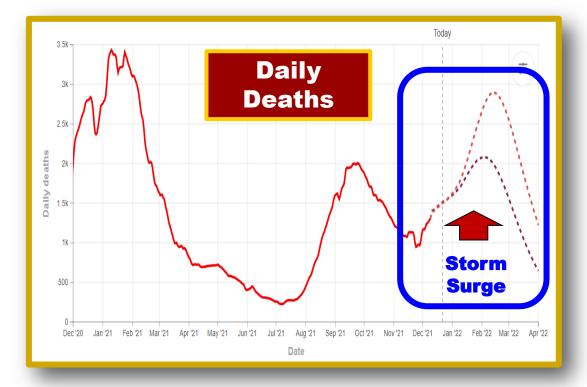


A Medical-Tactical Approach undertaken by clinical and non-clinical people can have enormous impact on los of life and harm from very common hazards:

- High Impact Care Hazards are frequent, severe, preventable, and measurable.
- Lifeline Behaviors undertaken by anyone can save lives.

# February Progress Report









# Masks: Filter, Fit, and Finish

#### Survive and Thrive Guide<sup>™</sup> Courses



The following Survive and Thrive Guide <sup>™</sup> Courses are organized in reverse chronologic orde to allow you to review the latest information first. They have been produced since March of 202 n first. They have been produced since March of 2020



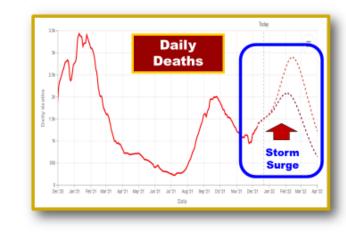
#### The table below provides resource articles that may be downloaded and links to video assets provided to help viewers understand the science behind the COVID Safe Practices.

MedTacGloba	Coronavirus Resources (View Only) i	Disport Abuse Disp	rp.
8000	B Grid View • ⊽filter B €		
	Pr_ Task Name	Notes	
1	Dolta Surge Issues, Boosters, Articles, and Videos	-	P
1	Israel, Widely Vaccinated, Suffers Another COVID-19 Surge Wall Breet Journal 00-12-21 Video https://www.wsi.com/video/series/current/leatures/covid-18-	This article addresses a surge so of the date of the article. This embedded video extitled COVID-18 Booster Shots: When Might You Need Dire and Why? is a tentific overview of the booster issue. Just under 7 minutes, it is a valuable intocome.	
	Comparison of two highly-effective MRNA vaccines for COVID-19 during periods of Alphe and Delta variant exposure posted 08-06-21	This article by leaders at the Mayo Clinic is pre-peer review. It revealed that there may be a reduction in protection from both of the wHRA vaccines from the Defar water). The authors recommend viplemosin in monthorny effectiveness with the COVID-19 waterst.	
4 <b>6</b> 7	Delta is Bod News for Kids, Atlantic 06-10-21	This atticle addresses the explosive growth of COVID-19 and the simultaneous development of RSV. The seriousness of the Delta variant is described.	

### **Coronavirus Care Community of Practice**

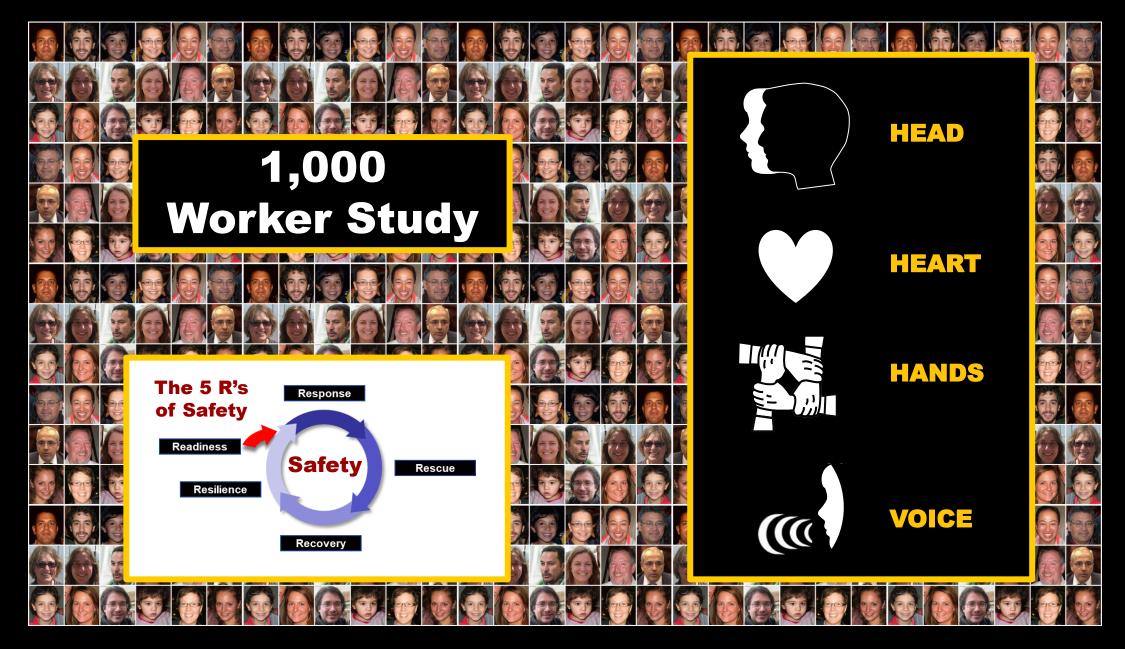


### February Progress Report



#### www.medtacglobal.org/coronavirus-response/

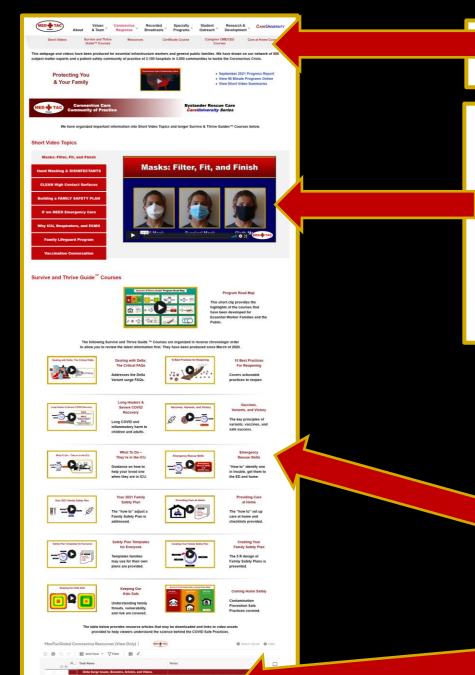
### Survive & Thrive Guide



CareUniversity

### **Coronavirus Care Results 2021 Year End**

- Established National Community of Practice
- Launched Multi-center Family R&D Study 1,000 Polled
- 40 Ninety Minute Broadcasts and Online Programs
- 20 Survive & Thrive Family Training Programs
- Produced a National Campus Safety Summit
- Published Multiple Articles Providing Guidance
- Established Student Led College & Alumni Programs
- Delivered Free Continuing Education for Caregivers
- Short Videos for Mobile Viewing
- Rapid Response to Family Gatherings
- National Vaccine Hesitancy Student Outreach
- Smart Phone Mobile Applications



# Monthly Webinars every first Thursday of the month at 1PM ET (Noon Central and 10AM PT). Free, video, and resources posted.

#### Short Video Topics



**A** 

Ka

Providing Care at Home

Vaccines, Variants, and Victory

4

D Seniors D Core Team D Core Room 1

Related Resources

Resources:

LEAD

Your 2021 Family Safety Plan

ong Haulers & Severe COVID Recovery

MIS-C Multi-restance in California MIS-A

MED + TAC

GLOBAL



Creating Your Family Safety Plan

Emergency Rescue Skills

Safety Plan Templates for Everyone

What To Do - They're in the ICU

The New Normal & The 4 P's

**Care of the At Risk** 

& Seniors at Home

TMITA

Survive & Thrive Guide" Program Road Map

#### SHORT TOPIC:

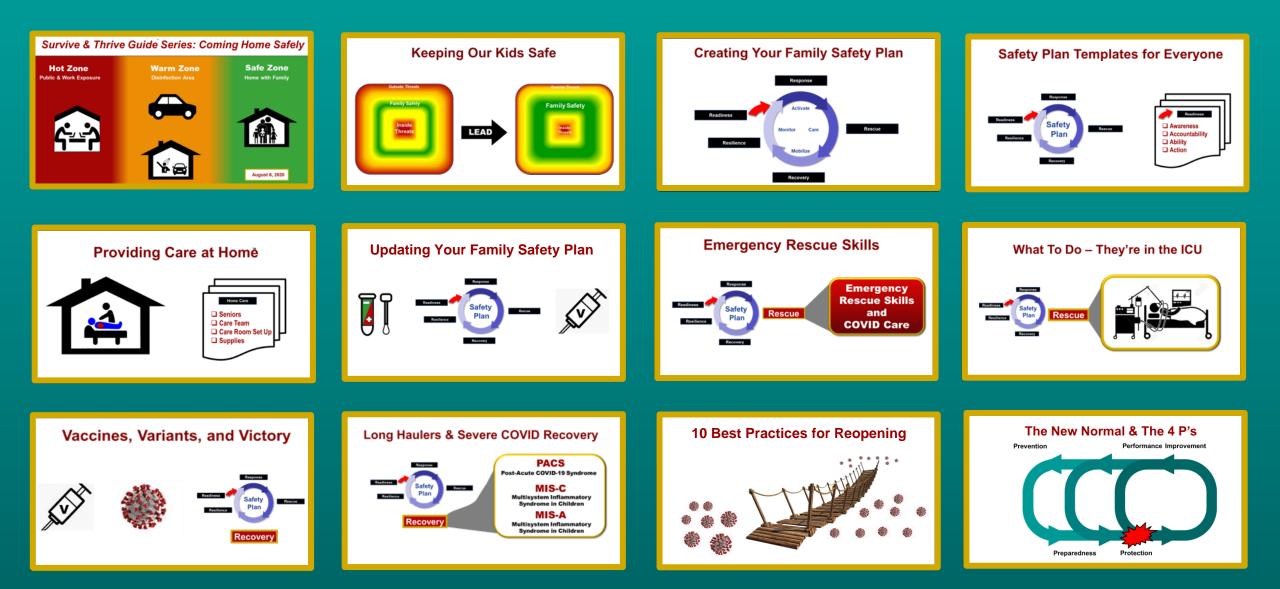
- Short Videos 4-10 min
- Critical Information
- Hits Pillars of Prevention

#### SURVIVE & THRIVE 90 MINUTE COURSES:

- Longer more detailed
- Webinar Recordings
- Technical Information

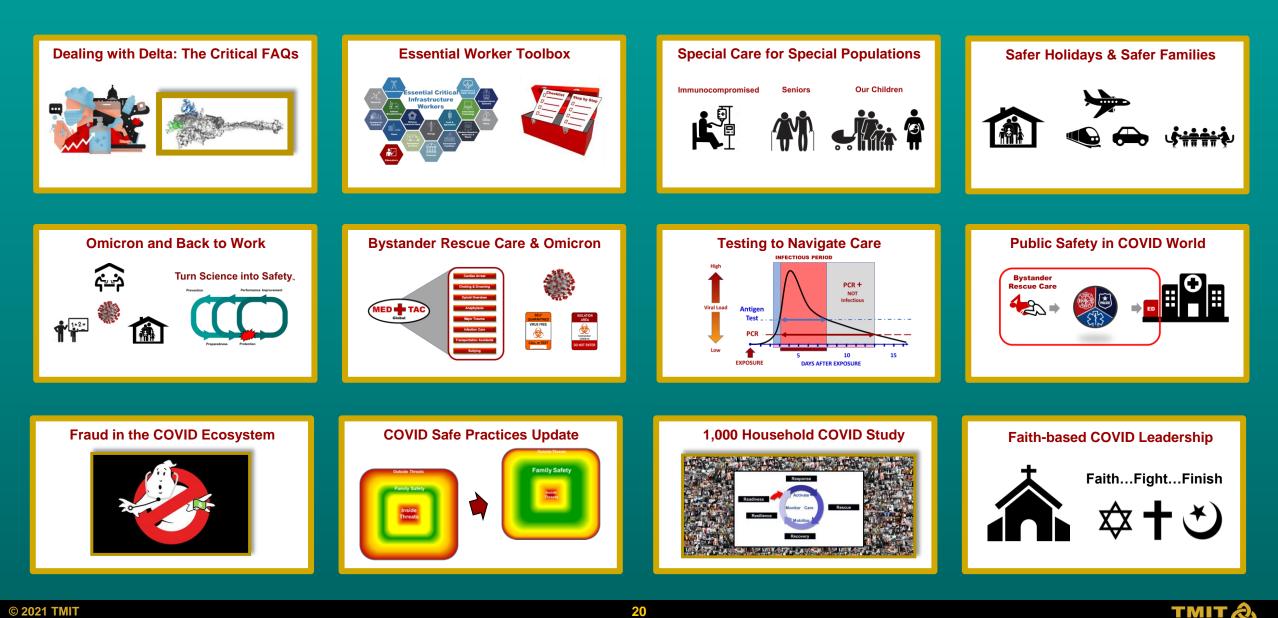
www.medtacglobal.org/coronavirus-response/

# **Survive & Thrive Guide**<sup>™</sup> Program Road Map



TMIT

# **Survive & Thrive Guide**<sup>Th</sup> Program Road Map





### **Bystander Rescue Care CareUniversity Series**

### Youth & Young Adult Team



**D** Contreras EMT Harvard



Ivy Tran EMT Harvard



Nick Scheel

UCSB



Sophia McDowell California Inst. of Arts



Audrey Lam EMT USC



**Jacqueline Botz** Chapman





Luis Licon **UCI** Alum

Melanie Rubalcava UCSD



**Charlie Denham III High School Lead** 



**Charlie Beall Stanford Alum** 



Marcus McDowell U of Cincinnati



Jaime Yrastorza UCSD Pre-med



Paul Bhatia EMT UCI Pre-med



**D** Policichio NYU Film

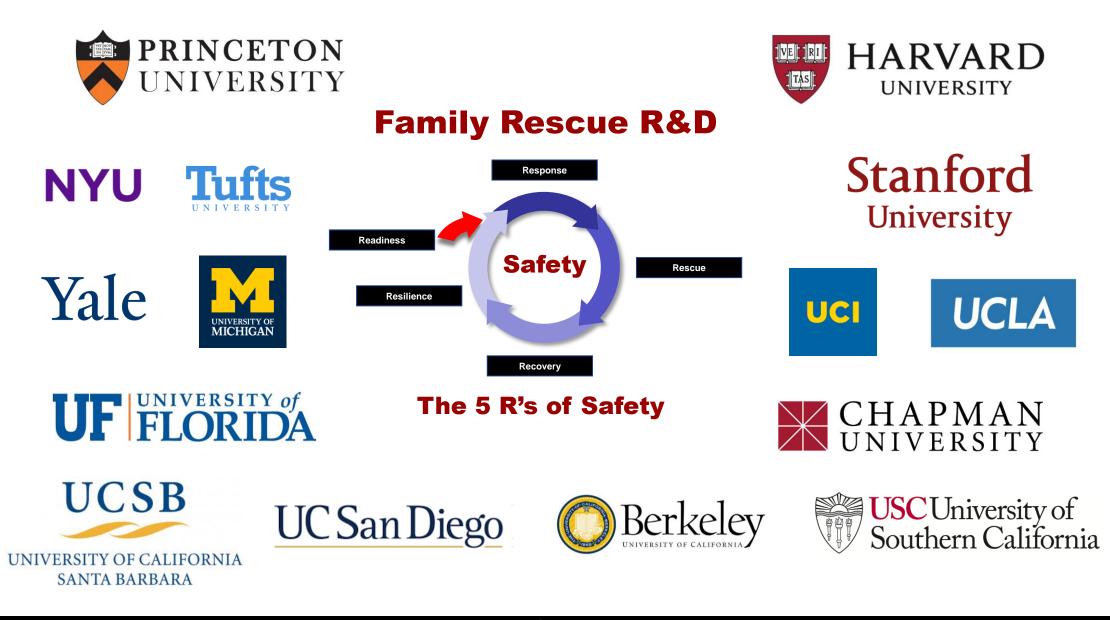


Manue Lopez **Berkeley Alum** 



**Preston Head III** UCLA Alum





### Take the Shot...Save a Life



### **The Vaccination Conversation**



Video Tape: < 14 Minutes

https://www.medtacglobal.org/student-outreach-program/ttsconverstation/

### www.GlobalPatientSafetyForum.org

### **Emerging Threats Community of Practice**



#### **Global Patient Safety Forum**

#### **Global Patient Safety Forum**

#### Global Innovators Network

The GPSF is a convening alliance with a mission to save lives, save money, and build value in the community it serves. The Forum was expressly founded to make available important content that the collaborators want to share more broadly. This website is not intended to compete with any other initiative and will meet its objectives if collaborators and those interested in the topics share the information with their communities. There are no financial requirements of users of the site. Certain communities are private in order to protect those we serve and those who serve. Those we serve are patients and their families. Those who serve are the caregivers, administrators, researchers, educators, and staff in the healthcare industry. We are a global network of leaders from academic NGOs, philanthropy, and faith-based organization best practices in leadership of innovation. Some of finnovators in healthcare and patient satisfies of the multiple sectors with a focus on mentor of the evelo There is no specific commercial purpose of the evelo financial relationship between the construction of the website financial support of any type or communities of practices of the information website is entirely free.

Featured	Global Webinars	Patient Safety	Med Tac Bystander	Emerging Threats	CareUniversity &
Leaders	& Summits	Community Of Practice	Care Program	Community Of Practice	Continuing Education



#### Thomas Zeltner, MD

Expert leader in Public Health Former Special Envoy of the WHO Former Secretary of State for Health Swiss Federal Office of Public Health, Bern, Switzerland

Read bio...

View video clip 📰



The private community of practice addresses a number of sensitive topics and subject matter that should not be made public for security reasons.

- Brand Damage from Outside, Inside, and or Mixed Outside-Inside Threats including cyberterrorism.
- Workplace Violence including physical, verbal, sexual, or emotional harassment, bullying or harm to caregivers, staff, students, or patients.
- Active Shooter, Violent Intruder, and Deadly Force Incidents including events causing physical harm to staff, caregivers, students, or patients.
- Domestic Terrorism such as organized attacks using chemical, biologic, radiologic, nuclear, and explosive weapons. Also weaponization of transportation & vehicles (CBRNET)
- Violent Acts Against Leadership where administrative, clinical, or governance leaders are specifically targeted by insiders or outsiders.
- Intentional Harm of Patients by caregivers who commit harmful acts against patients with or without enablers who do not report such harm.
- Unintentional Patient Harm through errors of omission from systems failures identified by mortality reviews such as diagnostic errors.
- Failure to Rescue in pre-hospital, hospital, and post-hospital continuity of care.
- Hospital Optimization & Flow with overcrowding & boarding/transfer issues.
- Readiness for Epidemics including preparedness for testing and volume surges.
- Sexual Misconduct including sexual harassment, abuse of power, and or harm to caregivers, staff, students, or patients.
- Racial and or Sexual Discrimination against those we serve including patients and their families and or those who serve in the organization.
- Cybersecurity Patient Records Issues including breach, theft, and contamination of medical records leading to patient and caregiver harm.

- Cybersecurity Operation Issues including breach, theft, and contamination of operational records, invasion of data systems, and ransom crimes.
- Theft of Intellectual Property by insiders, outsiders, or nation-states.
- Sabotage of service, information systems, clinical care, and property.
- Employee Fraud including misrepresentation of identity or qualifications, safety related issues such as vaccination and testing status, and attestations of truth.
- Patient Fraud including misrepresentation of identity, safety related issues such as vaccination and testing status, and attestations of truth.
- Nation State Influence through academic espionage, financial conflicts of interest, or other means.
- Drug Diversion by staff including caregivers and pharmacists who divert medications for themselves or others.
- Conflict of Interest of staff including physicians, researchers, and administrators including disclosed and undisclosed financial relationships.
- Conflict of Interest of Governance including undisclosed financial relationships and disclosed financial relationships.
- Academic Fraud including fabrication, falsification, plagiarism, or dishonest grant documentation including applications and reports.
- Defamation or Unfair Press by investigative reporting or false whistleblowers.
- Burn-out of caregivers, leadership, and staff.
- Critical Drug and Supply Shortages such as I.V. fluids, medications, and key supplies.
- Regulatory Compliance Issues including new risk for noncompliance.

### THE UNIVERSITY OF TEXAS MDAnderson Cancer Center

### **Emerging Threats Community of Practice**

The Healthcare Threat Safety Spectrum

Stanford University



**Patient Safety** Workplace Academic Administrative Cyber & I.P. Employee Errors of Fraud Misconduct Theft Omission Bullying **Invisible Threats Invisible Threats** Traditional **Risk Issues** Invisible Invisible Threats Threats



MAYO

**CLINIC** 











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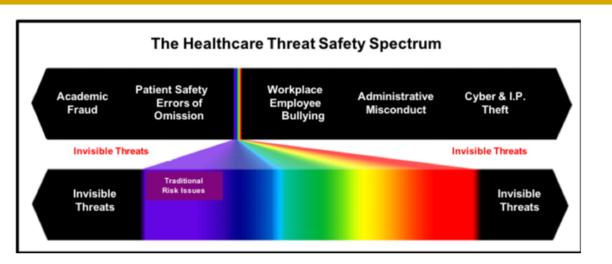
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Readiness for Epidemics including preparedness for testing and

volume surges.

#### organization.

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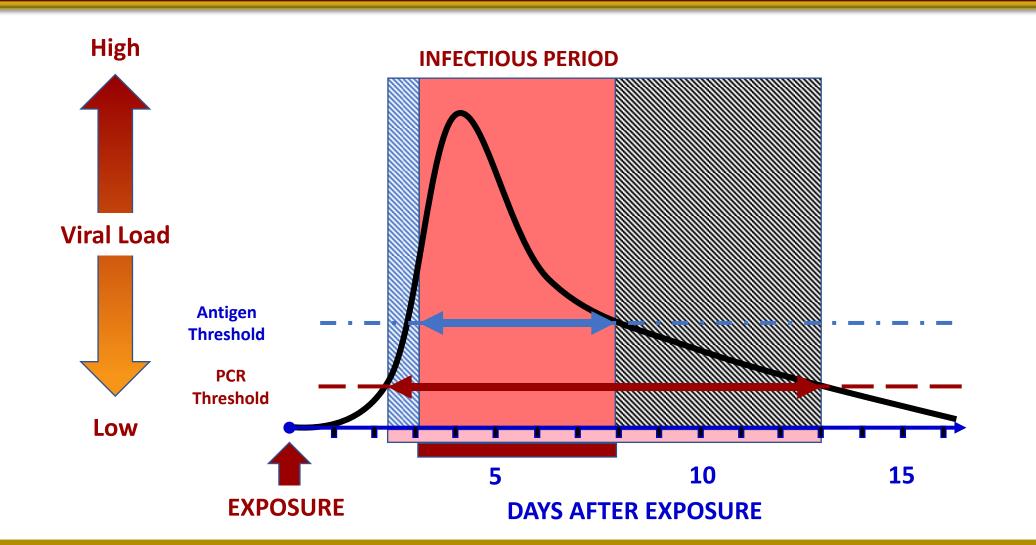
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# **Testing to Navigate Care**





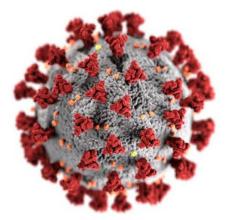
Bystander Rescue Care CareUniversity Series

# An Introduction to COVID Testing



### **Gregory H. Botz, MD, FCCM**

Professor of Anesthesiology and Critical Care UT MD Anderson Cancer Center, Houston, TX Adjunct Clinical Professor, Department of Anesthesiology Stanford University School of Medicine, Stanford, CA



- □ VIRAL LOAD why is it important?
- □ What is the RIGHT TEST at the RIGHT TIME?
- **QUARANTINE:** How does testing impact it?
- □ ISOLATION: How does testing impact it?
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Turn the Science into Safety<sub>m</sub>



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The Right Test at the Right Time





- ✓ VIRAL LOAD why is it important?
- ✓ What is the RIGHT TEST at the RIGHT TIME?
- ✓ **QUARANTINE: How does testing impact it?**
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- ✓ VIRAL LOAD why is it important?
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### **COVID Testing to Navigate Care**

- ✓ VIRAL LOAD why is it important?
- ✓ What is the RIGHT TEST at the RIGHT TIME?
- ✓ QUARANTINE: How does testing impact it?
- ✓ ISOLATION: How does testing impact it?
- ✓ Can testing make FAMILY GATHERINGS SAFER?



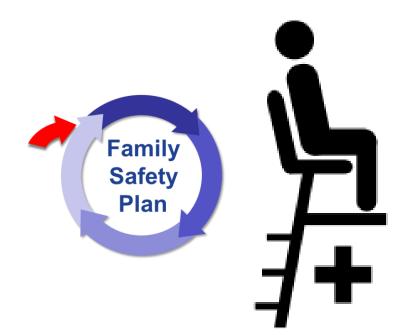
- □ How does TEST-TO-STAY work?
- □ How do I best TEST-TO-TRAVEL?





### What's New for 2022

90% Prevention and 10% Rescue Community Immunity & Aerosol Transmission



#### **Holiday Huddle Checklist**

**The Goal - Prevent Bubble Trouble** Maintain the Four Pillars: Distance. Hand Hygiene, Disinfect Surfaces, and Mask Use **Before Event:** Know Vaccination Status of Guests Know Threat Status of Guests Assign Tasks to Family Members Prepare Separate Family Bubble Portions Set Up Handwashing Stations **Develop a Bathroom Plan** Prepare Bathroom – Optimize Ventilation Maintain Kitchen Hygiene **During Event: Convene Holiday Huddle with Guests Opening Prayer Describe Safe Family Bubbles Review Four Safety Pillars Protect At-risk Guests – Apply the Pillars** Provide Restroom Plan **Describe Eating Plan** □ Summarize Clean Up Plan **After Event:** Glove up to Clean Up - Optional Soak Plates and Cutlery in Soapy Water Wipe down surfaces touched by guests Wipe down bathroom used by guests Meet to de-brief to be safer next time

#### Family Lifeguard



#### **Holiday Huddle Checklist**

The Goal - Prevent Bubble Trouble Maintain the Four Pillars: Distance, Hand Hygiene, Disinfect Surfaces, and Mask Use Before Event: Know Vaccination Status of Guests Know Threat Status of Guests Assign Tasks to Family Members

Prepare Separate Family Bubble Portions

Set Up Handwashing Stations

Develop a Bathroom Plan

Prepare Bathroom – Optimize Ventilation

Maintain Kitchen Hygiene

**During Event:** 

Convene Holiday Huddle with Guests

Opening Prayer

Describe Safe Family Bubbles

Review Four Safety Pillars

Protect At-risk Guests – Apply the Pillars

Provide Restroom Plan

Describe Eating Plan

Summarize Clean Up Plan

#### After Event:

Glove up to Clean Up - Optional

Soak Plates and Cutlery in Soapy Water

Wipe down surfaces touched by guests

Wipe down bathroom used by guests

Meet to de-brief to be safer next time

### **COVID Testing to Navigate Care**

- ✓ VIRAL LOAD why is it important?
- ✓ What is the RIGHT TEST at the RIGHT TIME?
- ✓ QUARANTINE: How does testing impact it?
- ✓ ISOLATION: How does testing impact it?
- ✓ Can testing make FAMILY GATHERINGS SAFER?
- ✓ How does TEST-TO-STAY work?
- □ How do I best TEST-TO-TRAVEL?











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## **COVID Testing Fraud & Scams**

### • Test Site Scams

### • False Results

## Identity Theft

#### **Fraudulent Test Sites**



#### **Defrauding Seniors**



#### **Travelers Buy Negative Test Results**

The second se	VENTION CENTER	
LAB RESULTS SARS-COV-2	Date: 01.03.2020	SAMP CE-PROPER
severe acute r	espiratory syndrome	coronavirus 2
Name: JANE DOE	Test: COVID-19	Patient 181 4800892938488-5
	POCITIVE	COMMENT
EXAMINATION	POSITIVE VNEGATIVE	lear
Body Temp.	36.5°C(97.7°F)	-
Respiratory	-	USA
Nodes	-	TODAT

### **COVID Testing to Navigate Care**

✓ VIRAL LOAD – why is it important?

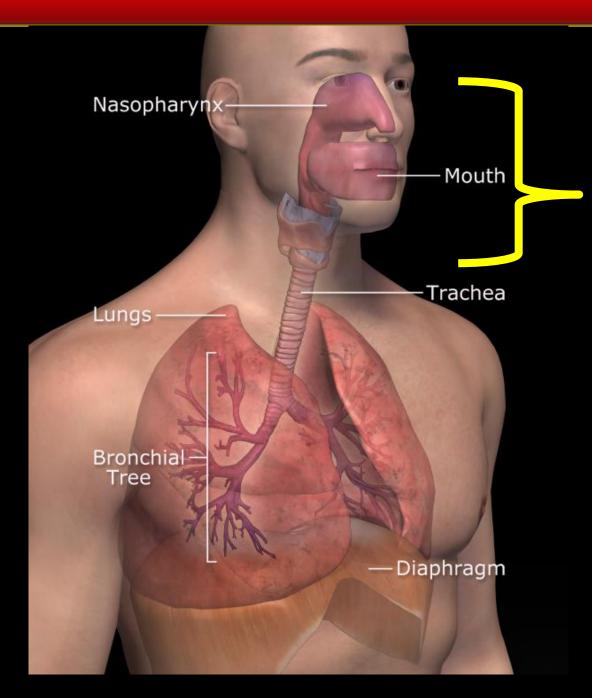
- □ What is the RIGHT TEST at the RIGHT TIME?
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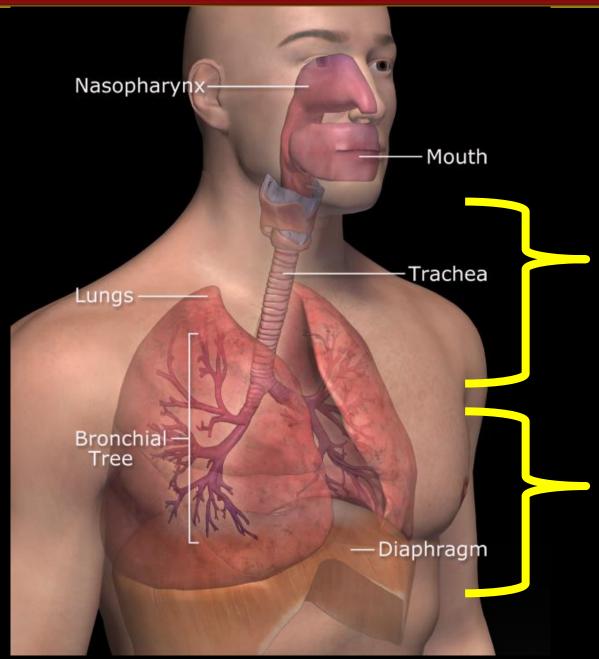








## Delta **1,000 Times** Viral Load In <u>BOTH</u> Vaccinated and Unvaccinated

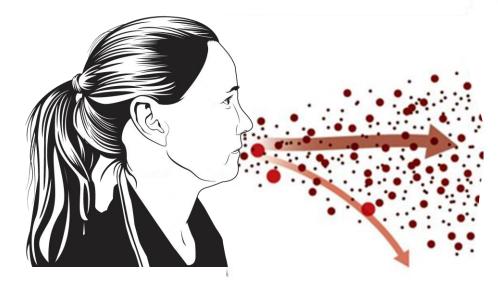


## Omicron Grows 70 Times Faster in Airways

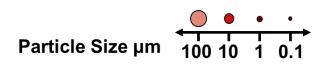
## Omicron Grows 10 Times Slower in Lung Tissue

#### **Mask Reduction of Airborne Transmission**

A competition between droplet size, inertia, gravity, and evaporation determines how far emitted drop-lets and aerosols will travel in air.



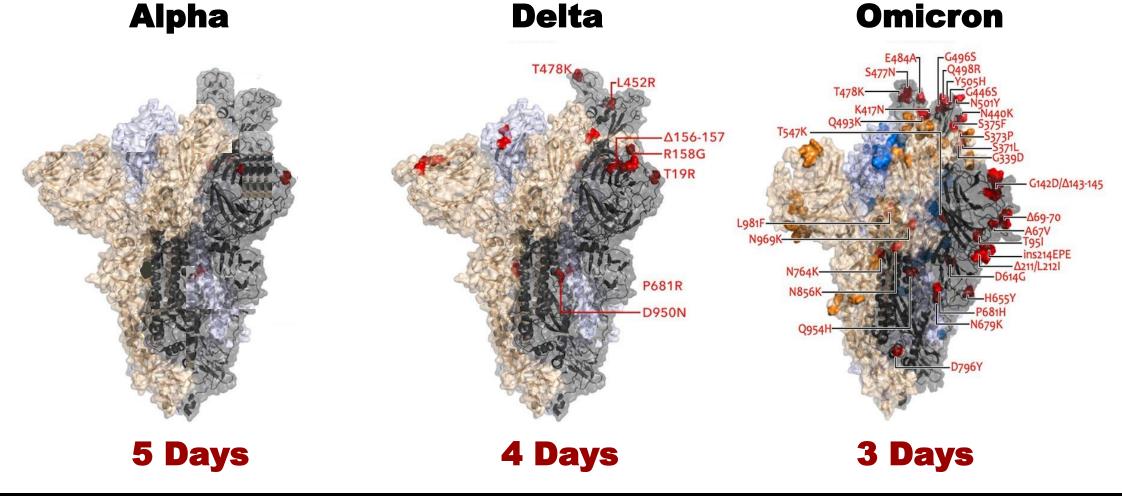
**AEROSOLS** are smaller will evaporate faster than they can settle, are buoyant, and thus can be affected by air currents, which can transport them over longer distances.



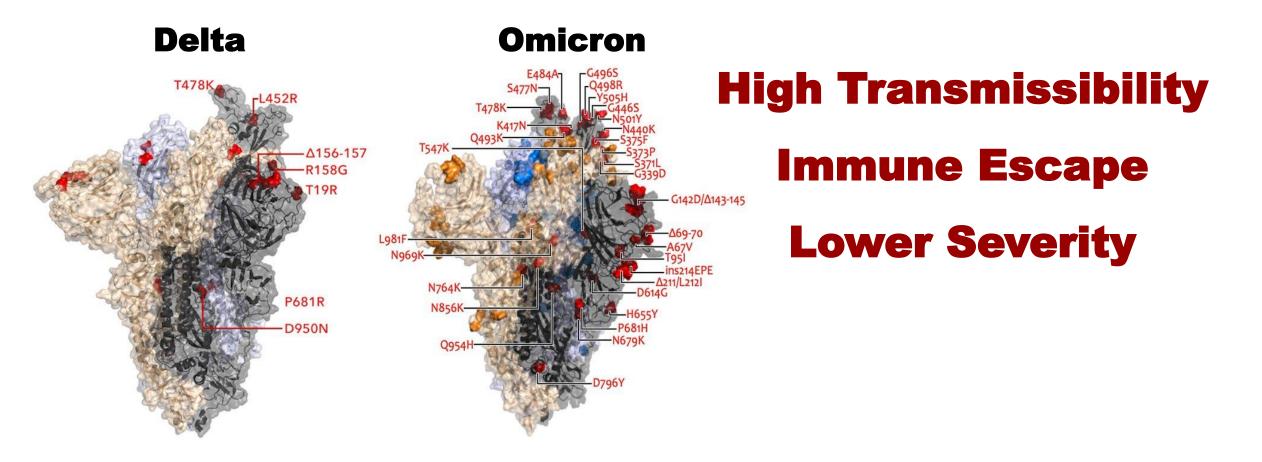
**DROPLETS** will undergo gravitational settling faster than they evaporate, contaminating high contact surfaces and leading to contact transmission.

Source: Cite as: K. A. Prather et al., Science 10.1126/science.abc6197 (2020)

## Incubation Period Alpha vs Delta vs Omicron



### **Delta versus Omicron**



#### **HEALTH AND WELLNESS**

# What to do if you can't get a PCR test — and 2 other doctor-approved Covid test hacks you should know

Published Sun, Jan 23 2022-9:30 AM EST

While the PCR is the gold standard for testing, if you can't get one, two rapid antigen tests spaced 48 hours apart are an acceptable alternative, says Matthew Binnicker, Ph.D., Medical Director of the Clinical Virology Laboratory at the Mayo Clinic in Rochester, Minnesota.



If you have Covid symptoms like fever, cough, sore throat, runny nose or congestion, but test negative, he recommends that you take a second at-home test in 24 to 48 hours.

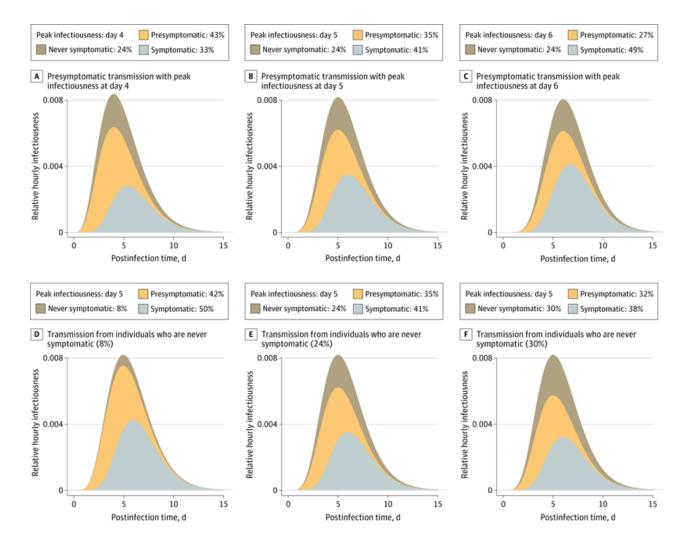
"If both tests are negative and symptoms persist or get worse, seek out PCR testing for both Covid-19 and influenza," he says. If you don't have symptoms, but want to test after you've been exposed, do it on your third and fifth days post-exposure, Binnicker adds.

## **Asymptomatic Spread**

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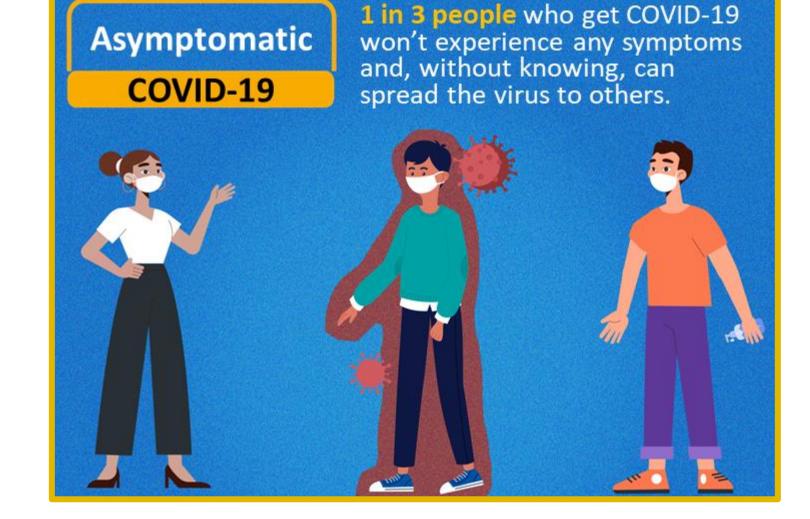
## 50% of Spread







## **Asymptomatic Spread**



#### How to Collect a Nasal Mid-Turbinate Specimen for COVID-19 Testing

COVID-19



Use **only** an authorized specimen collection kit. Get a kit from your healthcare provider or a testing center. Kits are available at a pharmacy or other retail outlet. Follow the instructions included with the specimen collection kit. Use **only** materials provided in the kit to collect and store or mail the specimen unless the kit says to do otherwise. Use these instructions with kits that specify a nasal mid-turbinate swab collection.

#### Setup

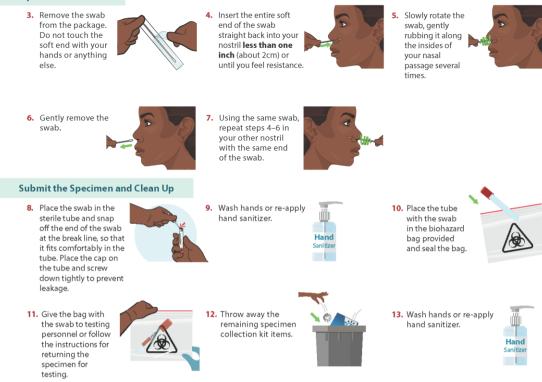
 Disinfect the surface where you will open the collection kit. Remove and lay out contents of kit. Read instructions before starting specimen collection.



Hand

Sanitize

#### **Specimen Collection**



#### USING YOUR SELF-TEST | COVID-19 |



If your results are positive <u>Isolate yourself from others</u>. As much as possible, stay in a specific room and away from other people and pets in your home.

<u>Tell your close contacts</u> that they may have been exposed to COVID-19.





Use the QR code below for more information about self-testing and how-to videos.





Call your health care provider with any questions, including if you have worsening COVID-19 symptoms.

www.cdc.gov/covidtesting

### **COVID Testing to Navigate Care**

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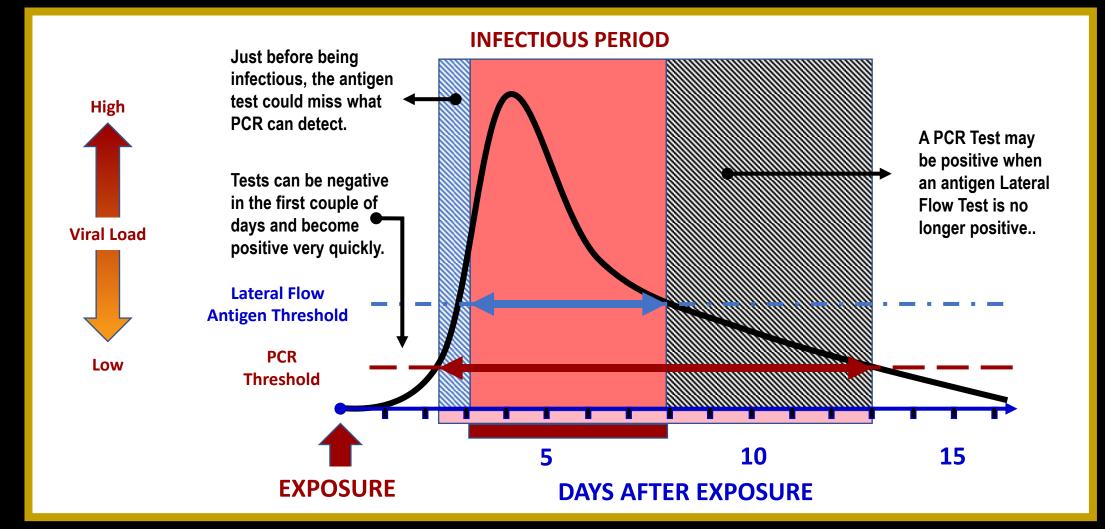


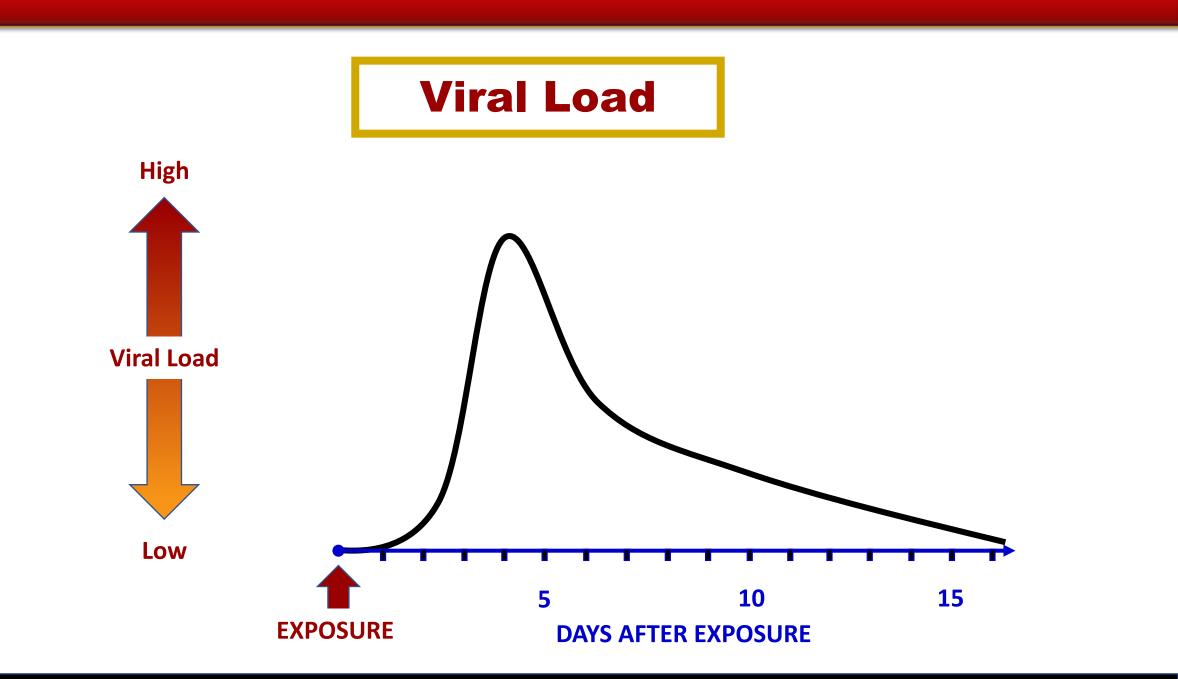
#### Turn the Science into Safety<sub>m</sub>

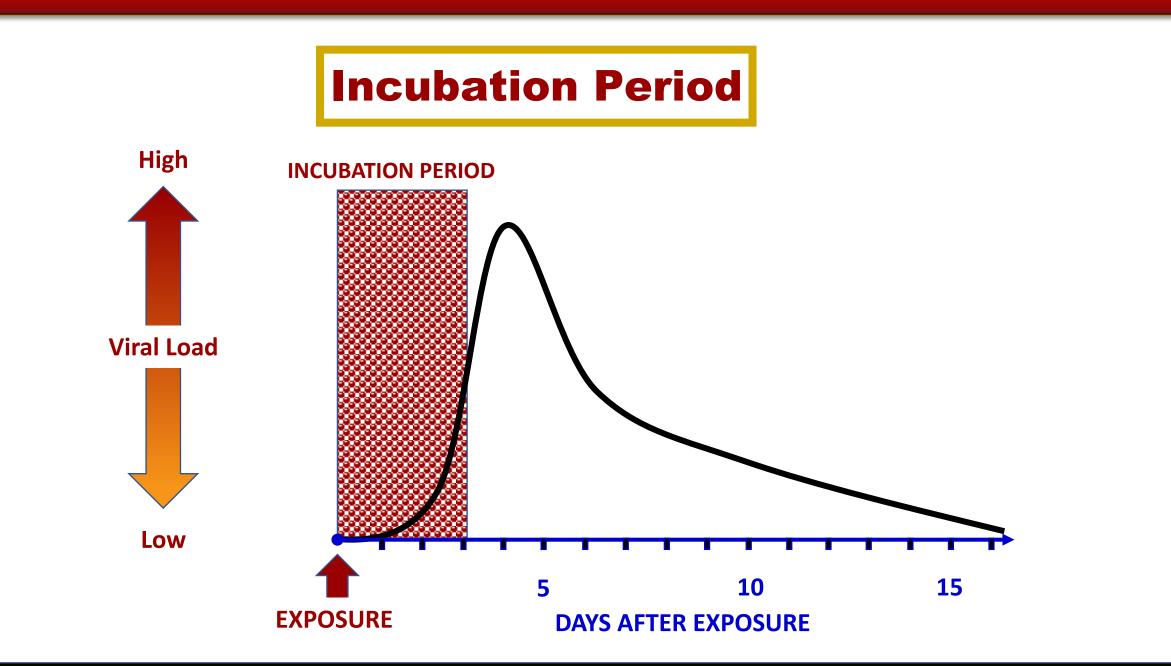




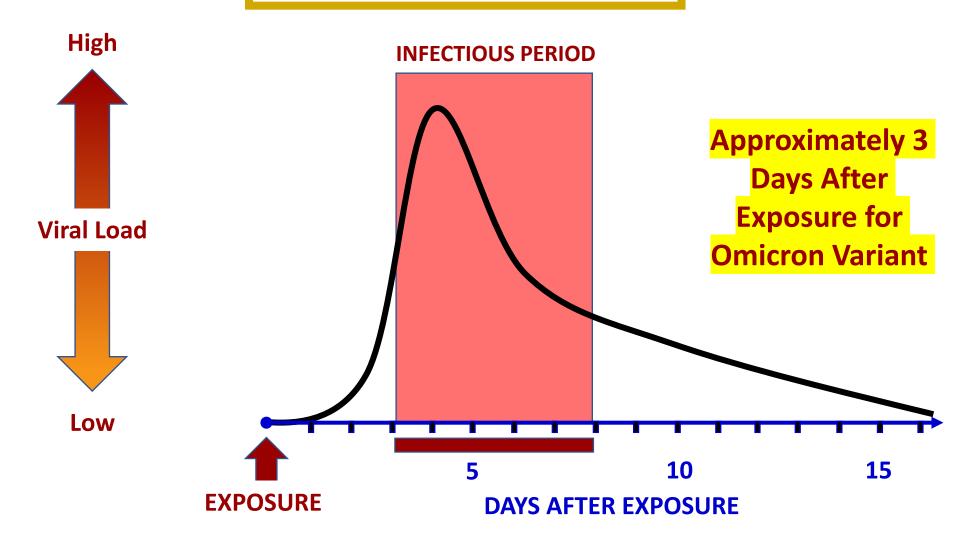




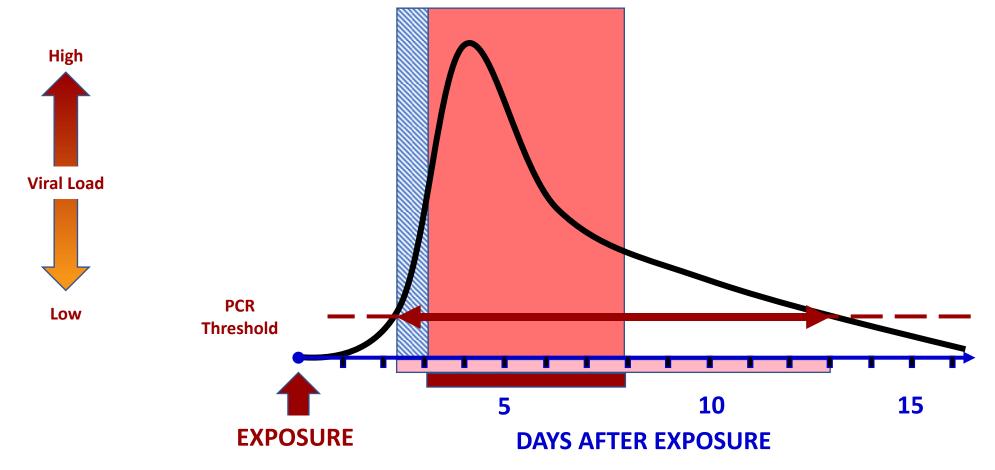


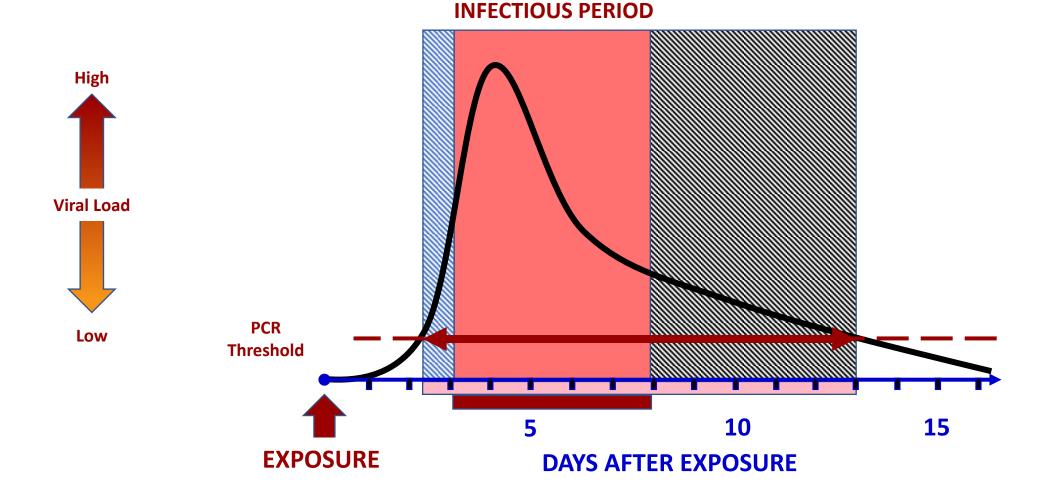


### **Infectious Period**

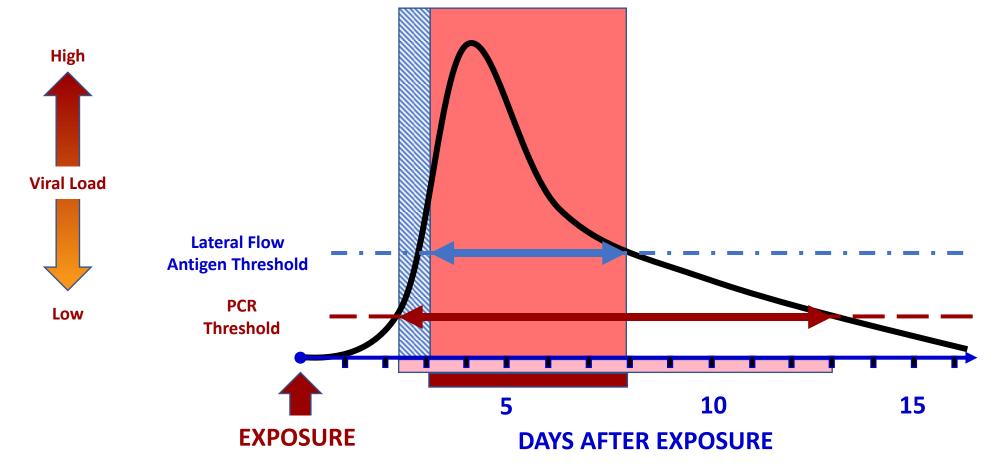


#### **INFECTIOUS PERIOD**

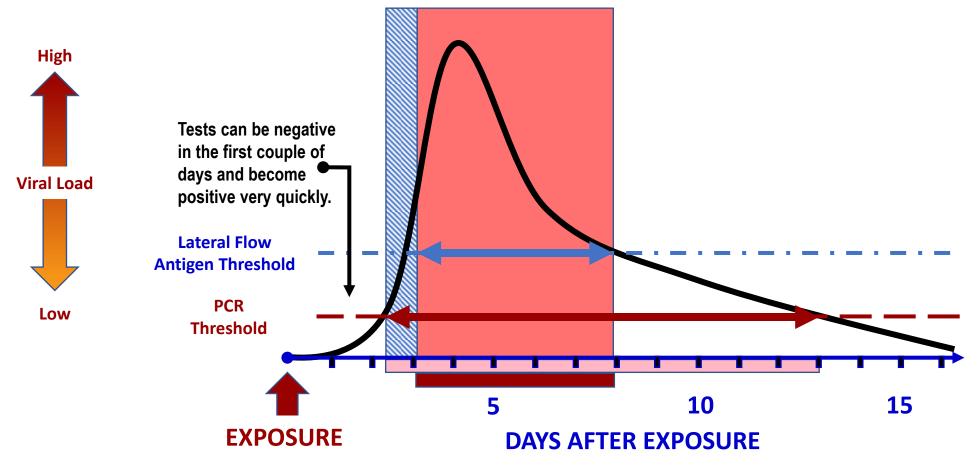


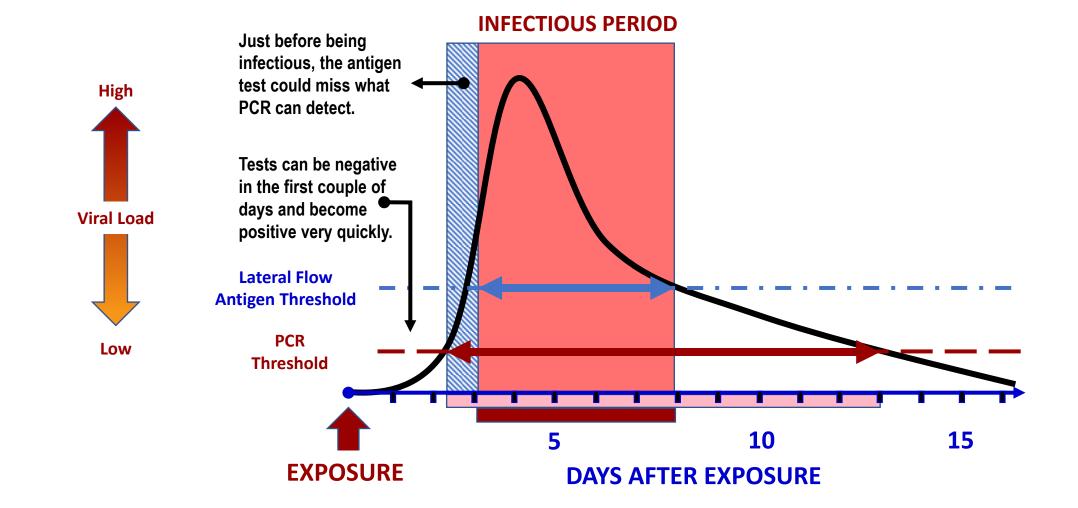


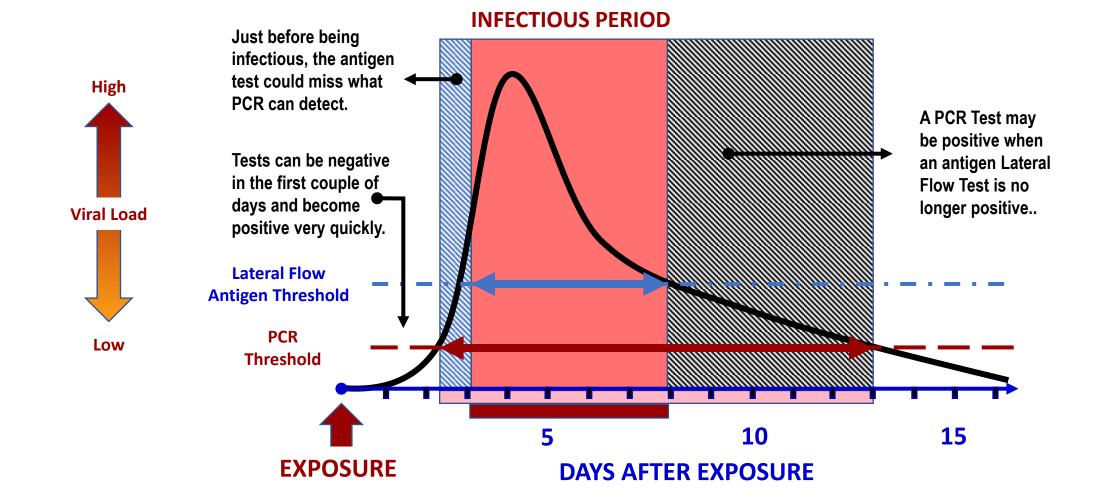
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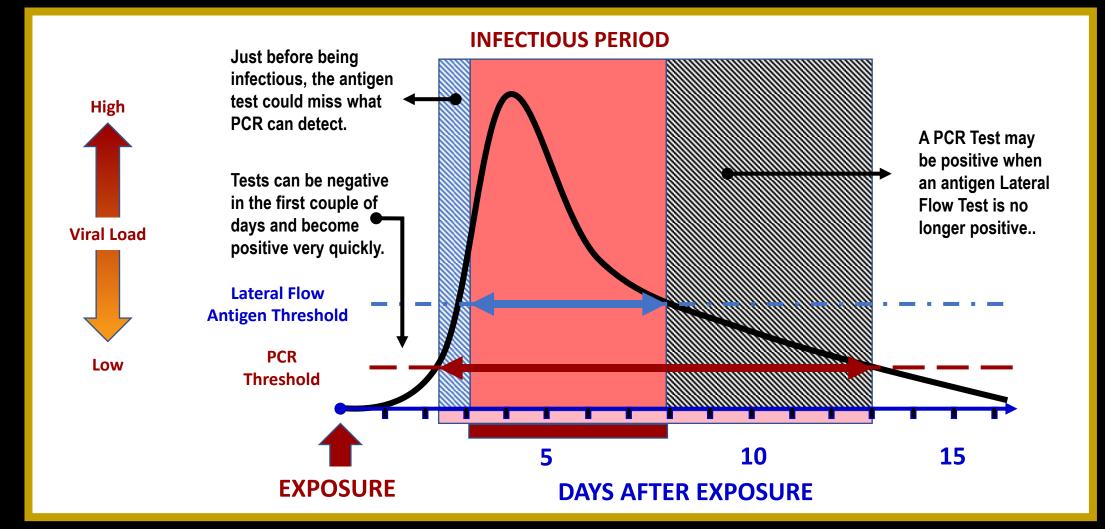


#### **INFECTIOUS PERIOD**









#### **Most Important Tests: PCR & Rapid Antigen**

#### **RT-PCR**

#### **Rapid Antigen**





#### **Pros and Cons of Tests**

#### PCR



- Gold Standard for Diagnosis
- Detects Virus Before Infectious
- Detects Virus Debris after Infectious
- Tie Breaker if Antigen Tests Unclear

### Rapid Antigen



- Inexpensive
- Can be done At Home
- Positive when Infectious
- Risk of False Negative Result

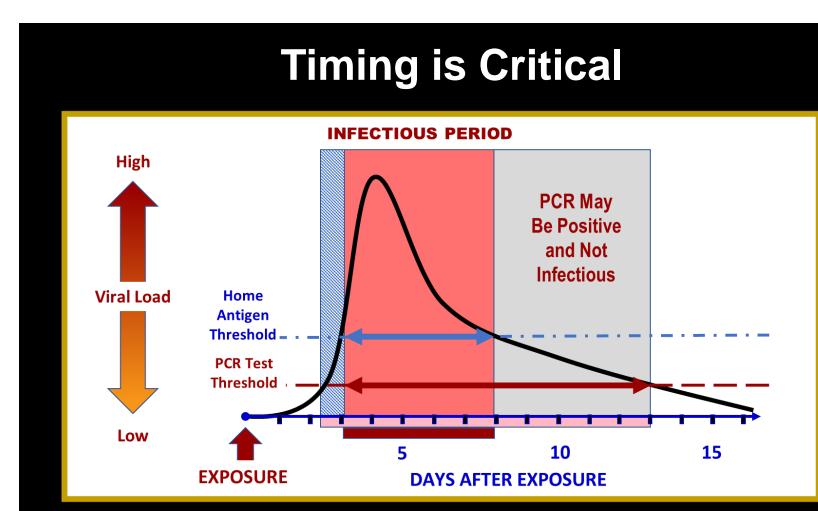
## **Timing of Tests is Critical**

Rapid Antigen

Home NAAT

Antibody

• PCR





- Rapid Antigen
- Home NAAT
- Antibody



### • PCR

- Rapid Antigen
- Home NAAT
- Antibody

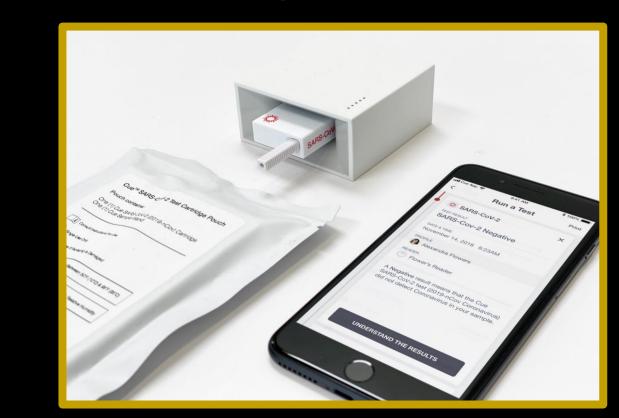


## • PCR

## Rapid Antigen

## • Home NAAT

• Antibody

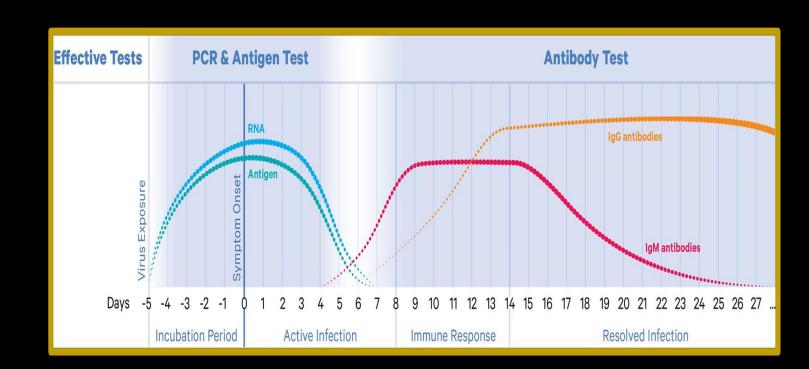


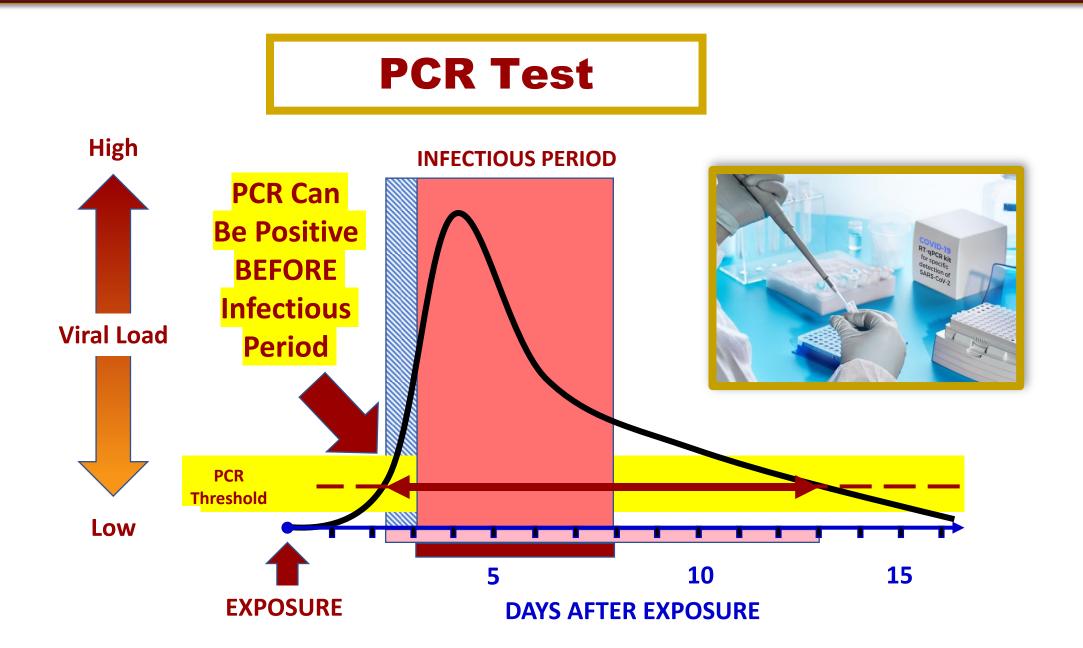
• PCR

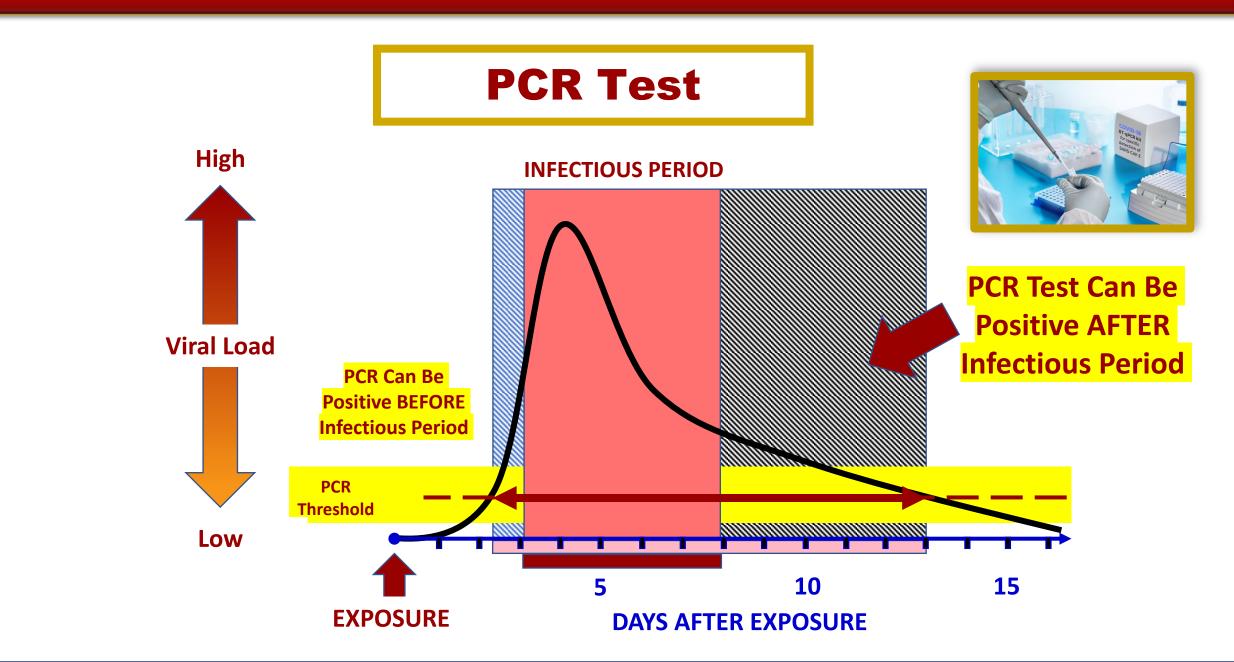
Rapid Antigen

Home NAAT

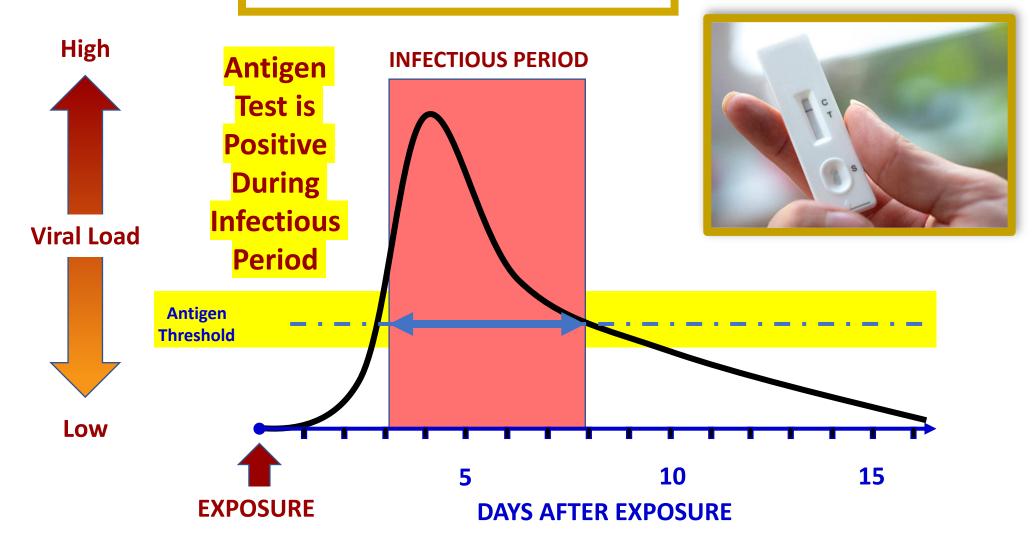
Antibody







## **Antigen Test**





#### Antibody Tests

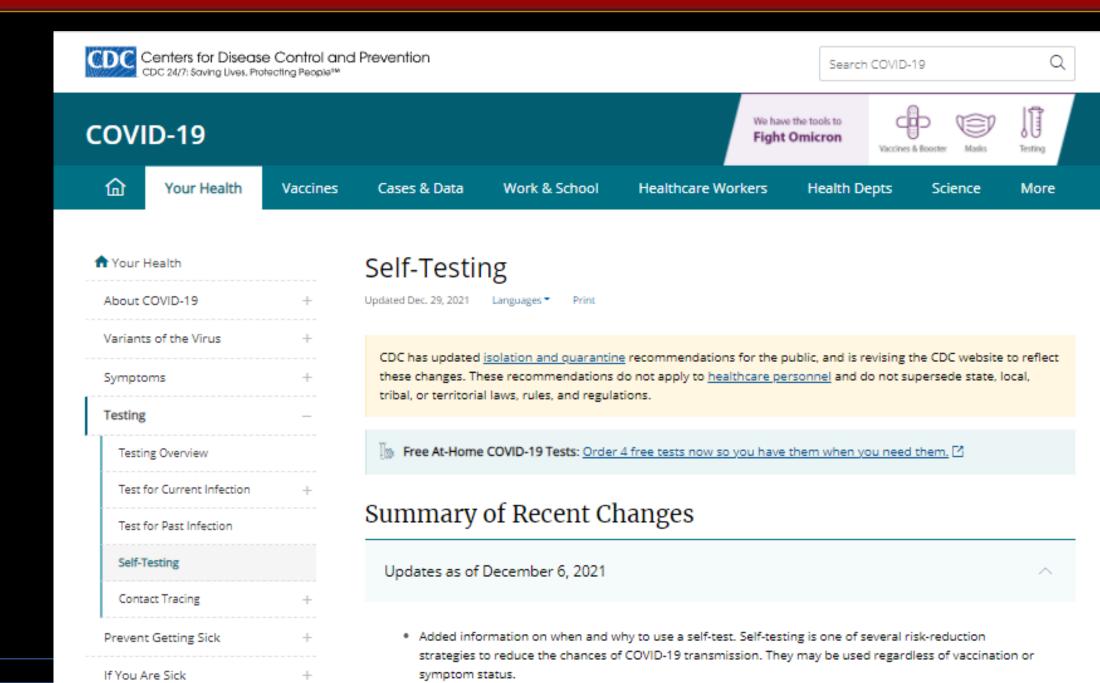
An <u>antibody test</u> (also known as a serology test) can detect antibodies to SARS-CoV-2 in your blood. **Antibodies** are proteins that your immune system makes to help fight infection and protect you from getting sick in the future.

Antibody tests should not be used to diagnose a current infection, but may indicate if you had a past infection. Antibody tests help scientists learn about how human immune systems defend against the virus, as well as learn about population-level protection.

Antibody testing is <u>not currently recommended</u> to determine:

- If you have a current infection.
- If you have immunity to SARS-CoV-2 following COVID-19 vaccination.
- Whether you need to get vaccinated if you are not fully vaccinated.
- Whether you need to quarantine after a known or suspected exposure to COVID-19.

You should always discuss your test results with your healthcare provider.



## Self-testing



#### Key Points

- COVID-19 self-tests (also referred to as home tests or over-the-counter (OTC) tests) are one of many risk-reduction measures, along with <u>vaccination</u>, <u>masking</u>, and physical distancing, that <u>protect you and others</u> by reducing the chances of spreading SARS-CoV-2, the virus that causes COVID-19.
- Self-tests can be taken at home or anywhere, are easy to use, and produce rapid results.
- You can use self-tests, regardless of vaccination status, or whether or not you have symptoms.
- · Follow all of the manufacturer's instructions for performing the test.
- A negative self-test result means that the test did not detect the virus and you may not have an infection, but it does not rule out infection. Repeating the test within a few days, with at least 24 hours between tests, will increase the confidence that you are not infected.

## **Testing and Isolation**



## Ending isolation for people who had COVID-19 and had symptoms

If you had COVID-19 and had <u>symptoms</u>, isolate for at least 5 days. To calculate your 5-day isolation period, day 0 is your first day of symptoms. Day 1 is the first full day after your symptoms developed. You can leave isolation after 5 full days.

Ending isolation for people who tested positive for COVID-19 but had no symptoms

If you test positive for COVID-19 and never develop <u>symptoms</u>, isolate for at least 5 days. Day 0 is the day of your positive viral test (based on the date you were tested) and day 1 is the first full day after the specimen was collected for your positive test. You can leave isolation after 5 full days.

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# Ending Isolation for people who tested positive for COVID-19 but HAD NO SYMPTOMS

If an individual has access to a test and wants to test, the best approach is to use an <u>antigen test<sup>1</sup></u> towards the end of the 5-day isolation period. If your test result is positive, you should continue to isolate until day 10. If your test result is negative, you can end isolation, but continue to wear a <u>wellfitting mask</u> around others at home and in public until day 10. Follow additional recommendations for masking and restricting travel described above.

Note that these recommendations on ending isolation **do not** apply to people with moderate or severe COVID-19 or with weakened immune systems (immunocompromised). See section below for recommendations for when to end isolation for these groups.

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<sup>1</sup>As noted presumpt

*or patient twice over* 

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## **Testing and Isolation**



Ending isolation for people who had COVID-19 and had

Ending isolation for people who tested positive for COVID-10 but had

# Ending Isolation for people who have HAD COVID-19 and HAD SYMPTOMS

If an individual has access to a test and wants to test, the best approach is to use an <u>antigen test<sup>1</sup></u> towards the end of the 5-day isolation period. Collect the test sample only if you are fever-free for 24 hours without the use of fever-reducing medication and your other symptoms have improved (loss of taste and smell may persist for weeks or months after recovery and need not delay the end of isolation). If your test result is positive, you should continue to isolate until day 10. If your test result is negative, you can end isolation, but continue to wear a <u>well-fitting mask</u> around others at home and in public until day 10. Follow additional recommendations for masking and restricting travel as described above.

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## **Testing and Isolation**

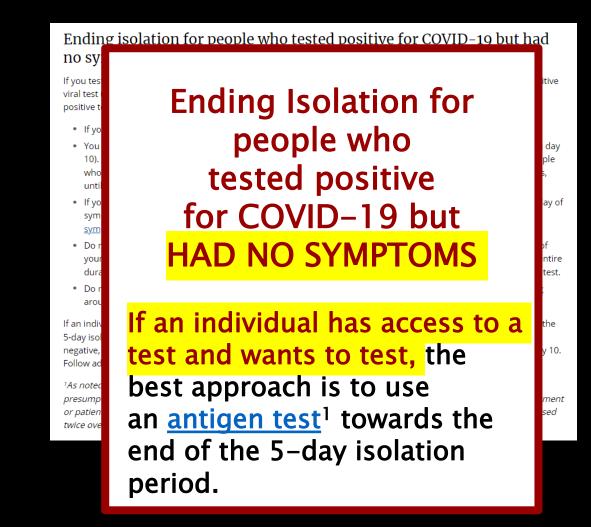


Ending isolation for people who had COVID-19 and had symptoms

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Note that these recommendations on ending isolation **do not** apply to people with moderate or severe COVID-19 or with weakened immune systems (immunocompromised). See section below for recommendations for when to end isolation for these groups.





# CDC Updates and Shortens Recommended Isolation and Quarantine Period for General Population

For Immediate Release: Monday, December 27, 2021

The change is motivated by science demonstrating that the majority of SARS-CoV-2 transmission occurs early in the course of illness, generally in the 1-2 days prior to onset of symptoms and the 2-3 days after.

symptoms and the 2-3 days after.



# CDC Updates and Shortens Recommended Isolation and Quarantine Period for General Population

For Immediate Release: Monday, December 27, 2021

People with COVID-19 should isolate for 5 days and if they are asymptomatic or their symptoms are resolving (without fever for 24 hours), follow that by 5 days of wearing a mask when around others to minimize the risk of infecting people they encounter.



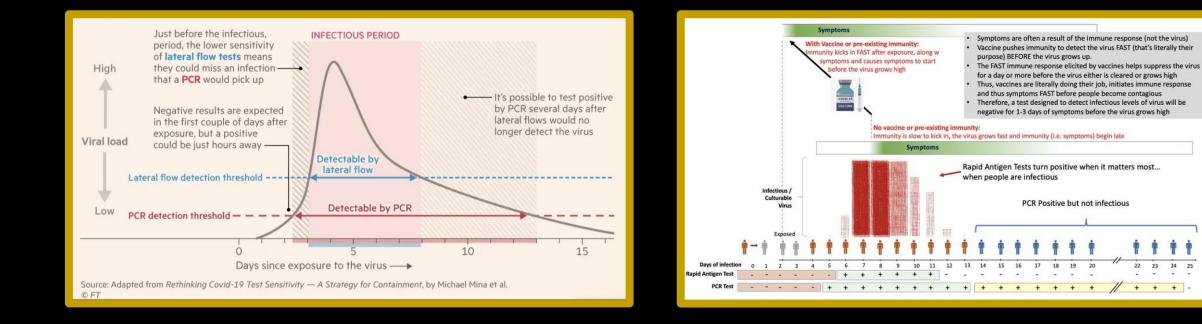
### Episode 85: Smart Testing in the Omicron Surge



The False Negative Test:
2/3rds of True Positive with no symptoms had False Negative Test.

- PCR & Rapid Antigen Test agree 50% of time.
- Antigen Tests "less sensitive" to Omicron according to FDA.

## The WHO, WHAT, WHEN, and HOW to TEST

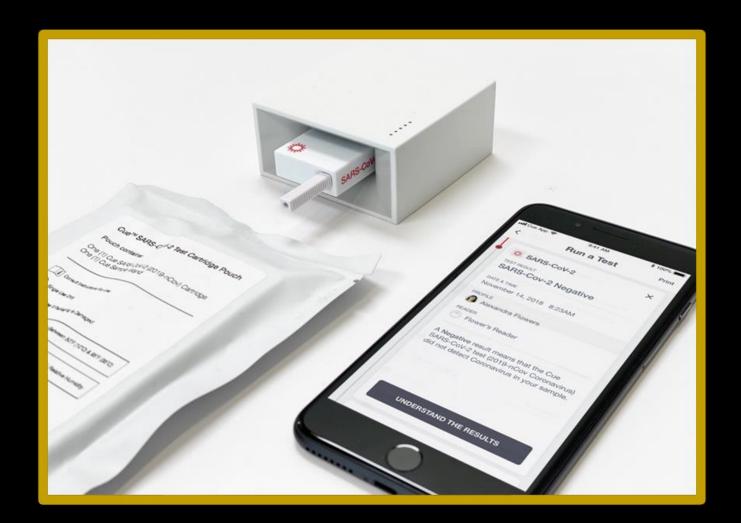


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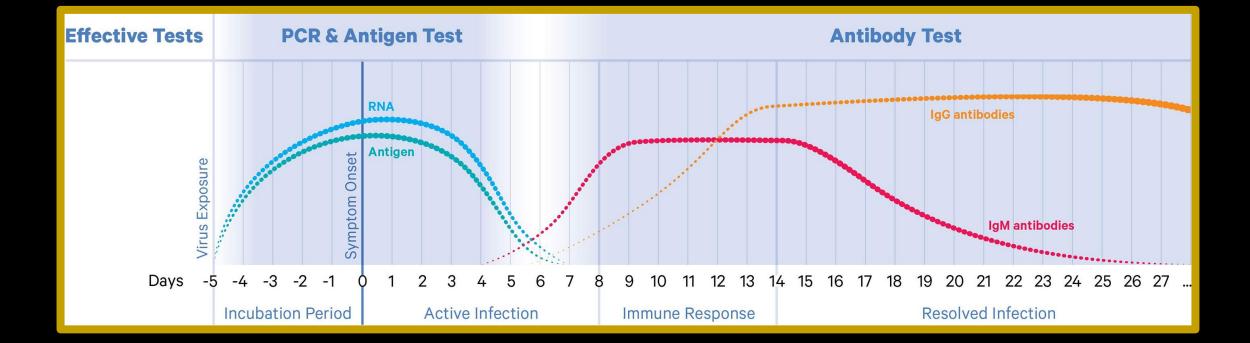
## The WHO, WHAT, WHEN, and HOW to TEST



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## **COVID Testing to Navigate Care**

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#### Turn the Science into Safety<sub>m</sub>





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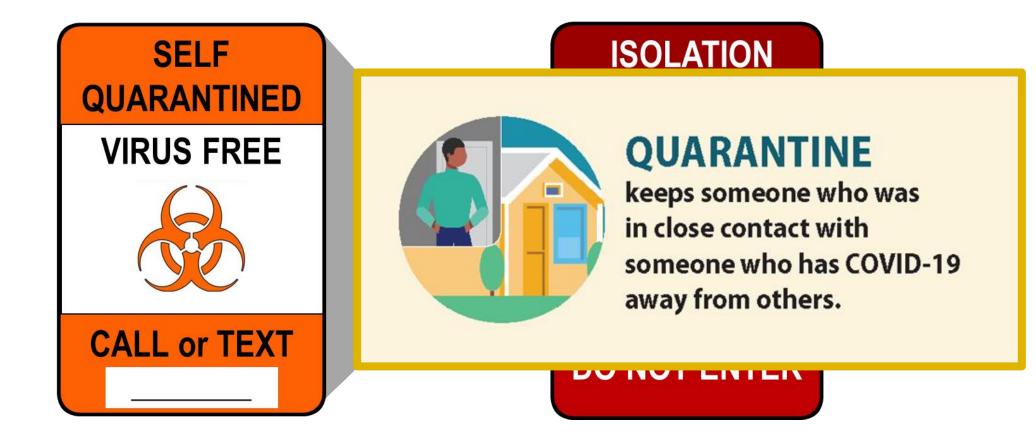








## **Quarantine versus Isolation**



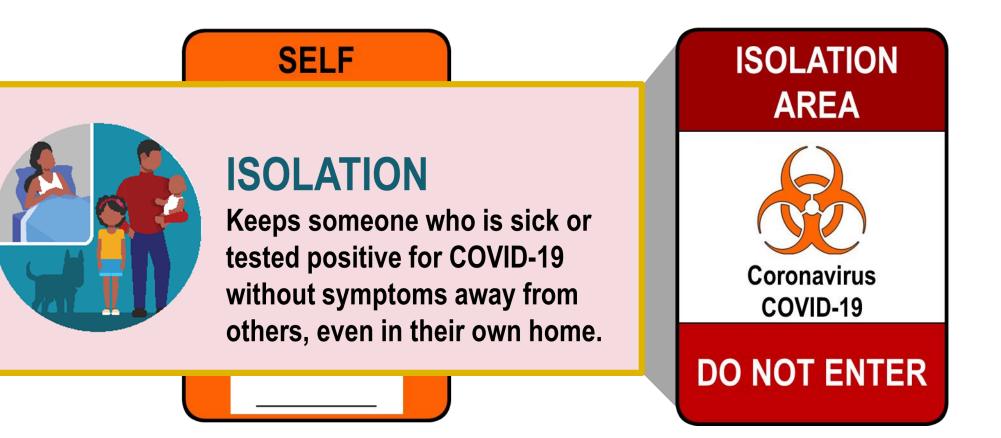


## QUARANTINE

Keeps someone who was in close contact with someone who has COVID-19 away from others.

Quarantine if you have been in close contact with someone who has COVID-19, unless you have been fully vaccinated and had the booster.

## **Quarantine versus Isolation**



Source: Adapted from CDC Guidelines 12-27-21

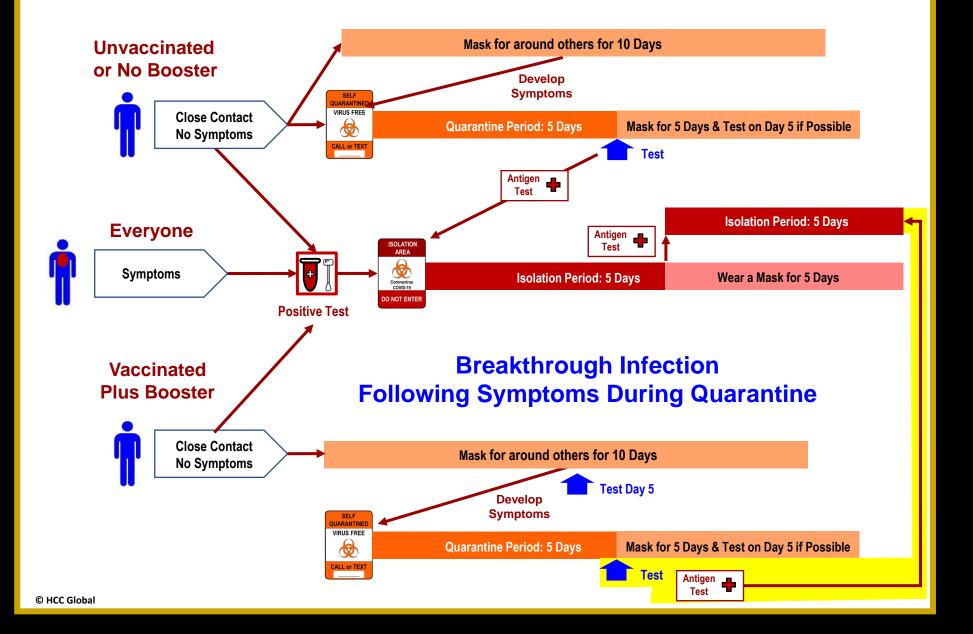


# **ISOLATION**

Keeps someone who is sick or tested positive for COVID-19 without symptoms away from others, even in their own home.

People who are in isolation should stay home and stay in a specific "sick room" or area and use a separate bathroom (if available).





## **COVID Testing to Navigate Care**

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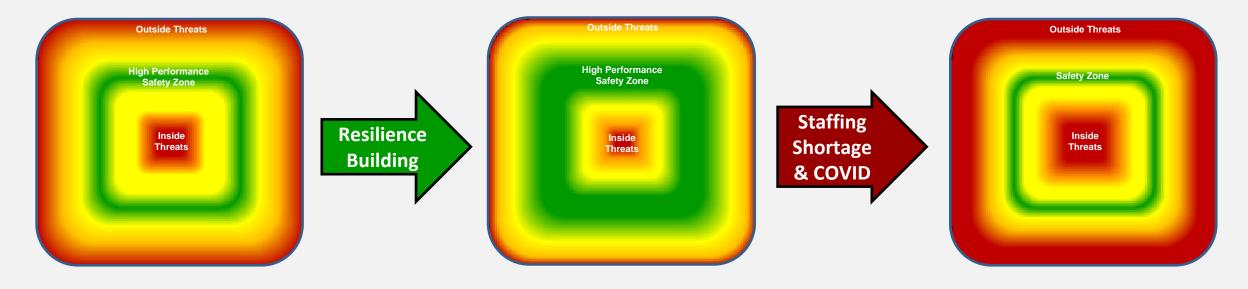
#### Turn the Science into Safety<sub>m</sub>

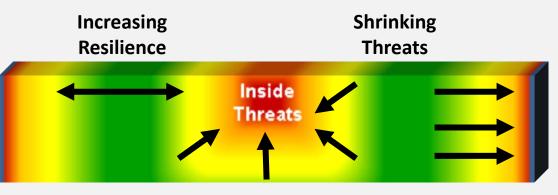
## Safer Gatherings



- Focus on SAFER not Safe
- Understand Threats, Vulnerabilities, and Risk
- The Goal: Reduce Vulnerabilities to Threats

## Inside & Outside Threats and Resilience Building

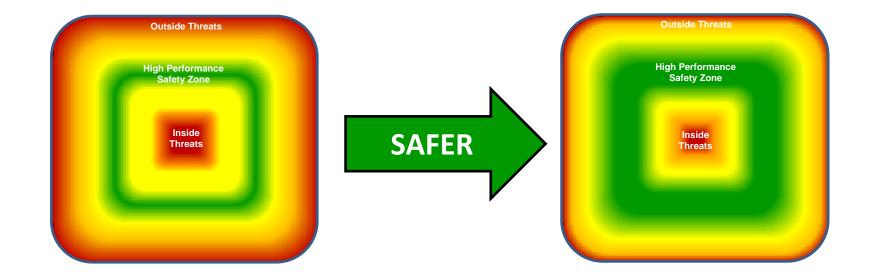




© Denham

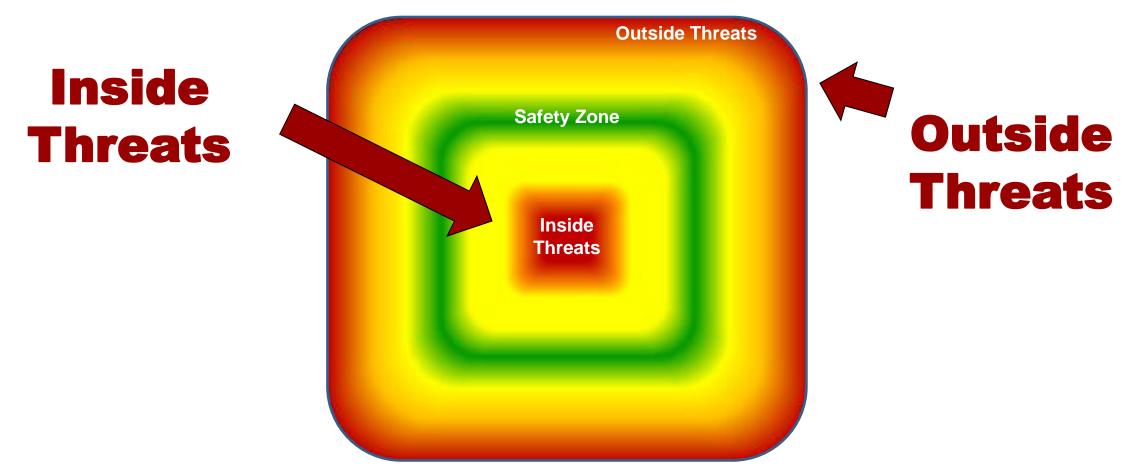
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## **Threats x Vulnerabilities = Risk**



## Reduce Vulnerabilities to Threats Reduces Risk

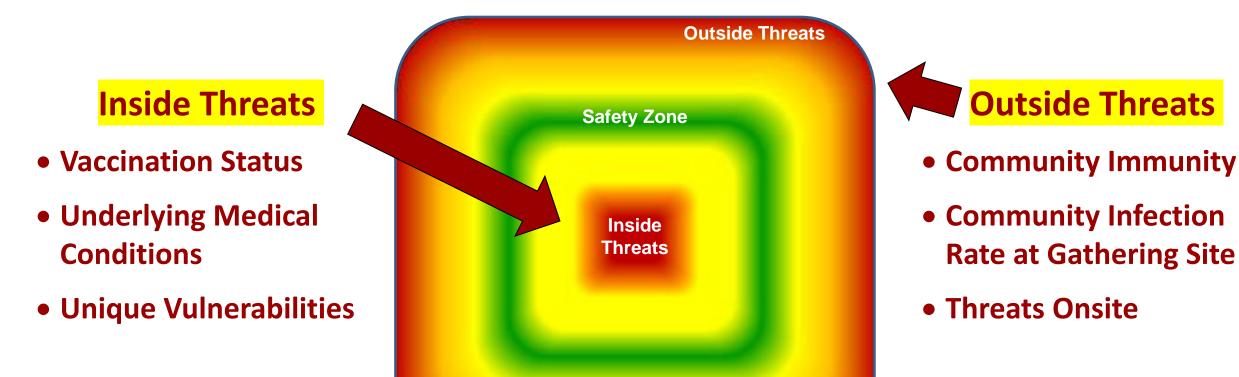
## **Inside Threats & Outside Threats**



© Denham

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## **Inside Threats & Outside Threats**



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# Safer Gatherings

- Consider Rapid Antigen Testing
- Design Seating to Reduce Risk
- Separate unvaccinated or travelers from At – Risk people

- Pick best ventilated venues
- Maintain COVID Safe Practices
- Distance, Masks, Hand Washing, and Disinfection Surfaces.

"Don't Dare Share Air!"

### **False Negative Test Result**



- Riskiest Issue is the "False Negative"
- Test depends on amount if virus present
- A Negative Result is NOT a Guarantee



**Coronavirus Care Community of Practice**  Bystander Rescue Care CareUniversity Series

## Family Lifeguard Update for 2022



#### **David Beshk**

Award Winning Educator Med Tac Master Instructor Eagle Scout Advisor Merit Badge Counselor



#### **Charles R. Denham III**

High School Student Co-founder Med Tac Bystander Rescue Care Program Co-lead Lifeguard Surf Program Junior Med Tac Instructor Certified Lifeguard

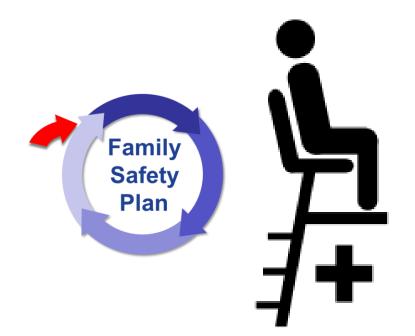




Family Lifeguard

## **Be Your Family Lifeguard**

90% Prevention and 10% Rescue



#### **Family Huddle Checklist**

#### The Goal - Prevent Bubble Trouble

Maintain the Four Pillars: Distance, Mask Use, Hand Hygiene, and Disinfect Surfaces. **Before Event:** 

Consider Rapid Antigen Testing

Identify how to Optimize Ventilation 

**Determine how to protect At-Risk Members** 

Assign Tasks to Family Members 

Prepare Separate Family Bubble Portions 

Set Up Handwashing Stations 

Develop a Bathroom Plan 

Prepare Bathroom – Optimize Ventilation 

Maintain Kitchen Hygiene 

#### **During Event:**

**Convene Holiday Huddle with Guests** 

**Opening Prayer** 

**Describe Safe Family Bubbles** 

**Review Four Safety Pillars** 

Provide Restroom Plan 

Describe Eating Plan 

□ Summarize Clean Up Plan

#### **After Event:**

Glove up to Clean Up

Soak Plates and Cutlery in Soapy Water 

Wipe down surfaces touched by guests 

Wipe down bathroom used by guests 

Meet to de-brief to be safer next time







## Social Distancing



## Use of Masks







## Disinfecting Surfaces

SOURCE: Centers for Disease Control

## Holidays, Spring Break, Ski Week, and Vacations



#### **Family Huddle Checklist**

**The Goal - Prevent Bubble Trouble** Maintain the Four Pillars: Distance, Mask Use, Hand Hygiene, and Disinfect Surfaces. **Before Event:** 

- Consider Rapid Antigen Testing
- Identify how to Optimize Ventilation
- Determine how to protect At-Risk Members
- Assign Tasks to Family Members
- Prepare Separate Family Bubble Portions
- Set Up Handwashing Stations
- Develop a Bathroom Plan
- Prepare Bathroom Optimize Ventilation
- Maintain Kitchen Hygiene

#### **During Event:**

- **Convene Holiday Huddle with Guests**
- Opening Prayer
- Describe Safe Family Bubbles
- Review Four Safety Pillars
- Provide Restroom Plan
- Describe Eating Plan
- Summarize Clean Up Plan

#### **After Event:**

- Glove up to Clean Up
- Soak Plates and Cutlery in Soapy Water
- □ Wipe down surfaces touched by guests
- U Wipe down bathroom used by guests
- Meet to de-brief to be safer next time



## **COVID Testing to Navigate Care**

- ✓ VIRAL LOAD why is it important?
- ✓ What is the RIGHT TEST at the RIGHT TIME?
- ✓ QUARANTINE: How does testing impact it?
- ✓ ISOLATION: How does testing impact it?
- ✓ Can testing make FAMILY GATHERINGS SAFER?



- ✓ How does TEST-TO-STAY work?
- □ How do I best TEST-TO-TRAVEL?





#### Turn the Science into Safety<sub>™</sub>



- Employer Guidelines
- Employer Recommendations
- Employer Rules
- Evaluate Testing Options
- Employee Attestations of Home Test

- Proctored Home Rapid Antigen Tests
- Proctored Home PCR Sampling
- Onsite Rapid Antigen Testing
- Onsite NAAT Testing
- Onsite Sampling for PCR Lab Test

#### Save the Family...and You Save the Worker



- Employer Guidelines
- Employer Recommendations
- Employer Rules

#### **Employer Guidelines**

- Recommendations: Suggestions of safe behaviors.
- Rules: Required behaviors of employment.



- Employer Guidelines
- Employer Recommendations
- Employer Rules

**Employers Must Address** 

- Unvaccinated
- Not "up to date" on Boosters
- Medical Exemptions
- Religious Exemptions



- Employer Guidelines
- Employer Recommendations
- Employer Rules
- Evaluate Testing Options









- Self Attested Tests
- Tele-Proctor Tests
- On-site Rapid Tests
- On-site Sampling Laboratory PCR Tests

### Self Attested Rapid Antigen Test



- Self Attested Tests
- Tele-Proctor Tests
- On-site Rapid Tests
- On-site Sampling Laboratory PCR Tests

#### **Remote Telemedicine Proctoring**



- Self Attested Tests
- Tele-Proctor Tests
- On-site Rapid Tests
- On-site Sampling Laboratory PCR Tests

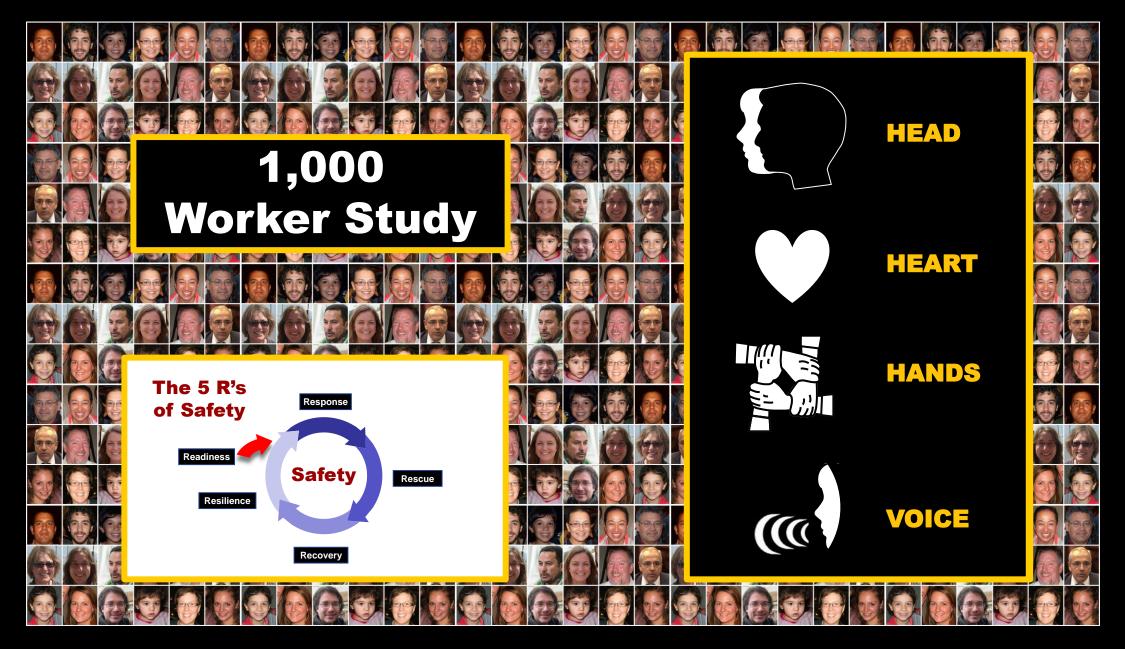
### **Onsite Testing with Observer**



- Self Attested Tests
- Tele-Proctor Tests
- On-site Rapid Tests
- On-site Sampling
   Laboratory PCR Tests

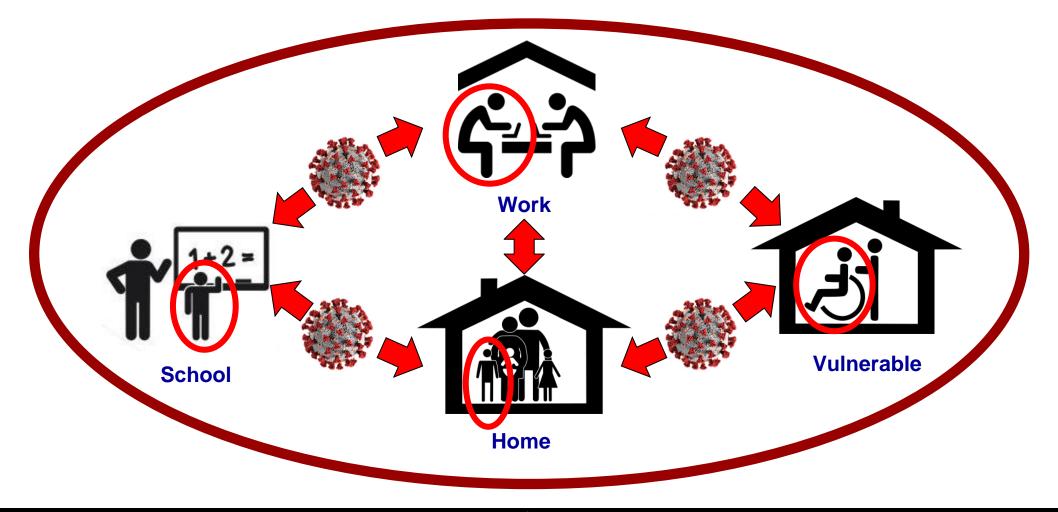
### **Onsite Sample for PCR Lab Test**





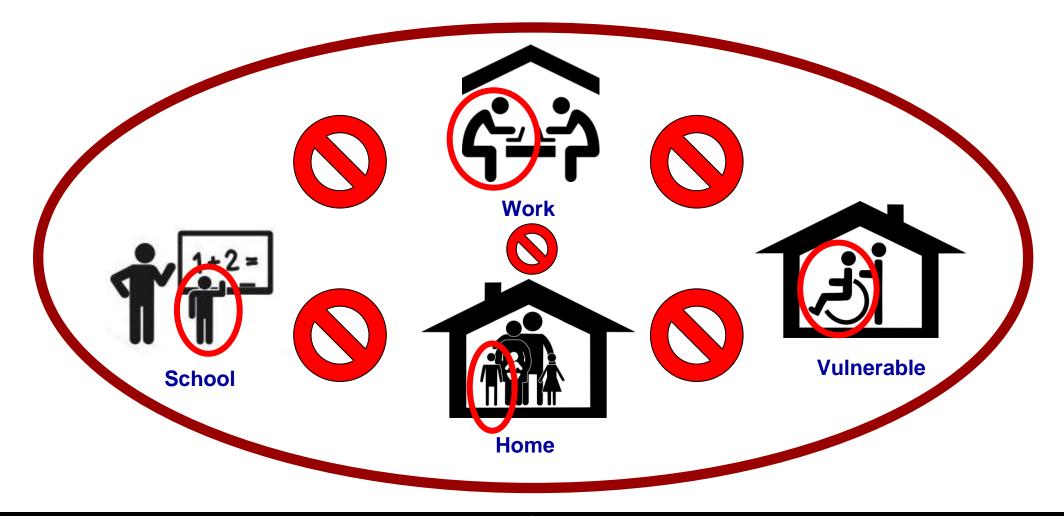
Survive & Thrive Guide:

## Household Transmission Chains: The Achilles Heel

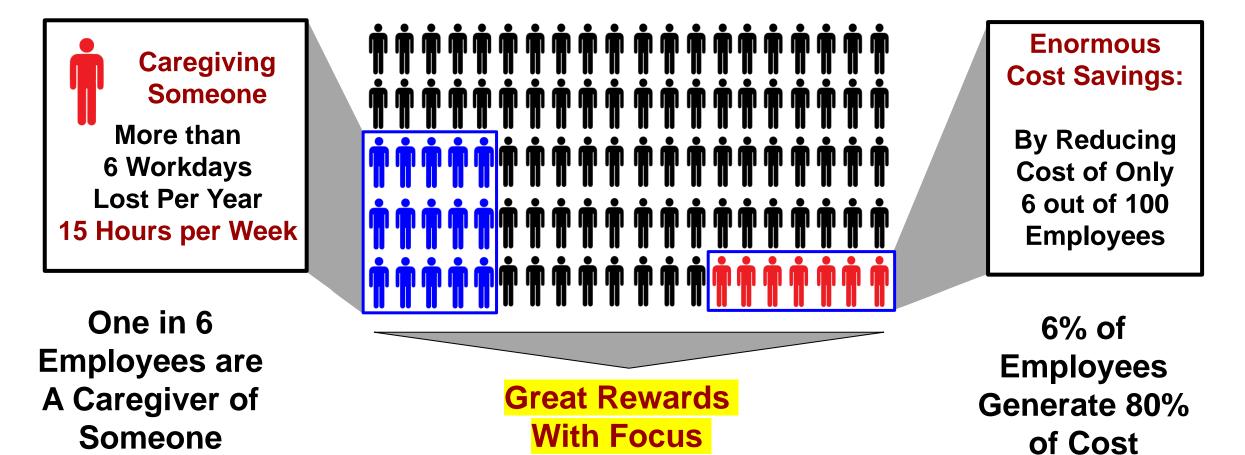


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## Break Household Transmission Chains Save the Worker



## **Care Burden of Employees** Great Rewards with At Risk Care



## Turn Science into Safety

- Business Disruption
- Absenteeism
- Presenteeism
- Cost of Turnover
- Healthcare Costs
- Liability

- Employee Retention
- Employee Engagement
- Rapid Rebound
- Customer Safety
- Customer Satisfaction
- Competitive Advantage

## The Value of Testing

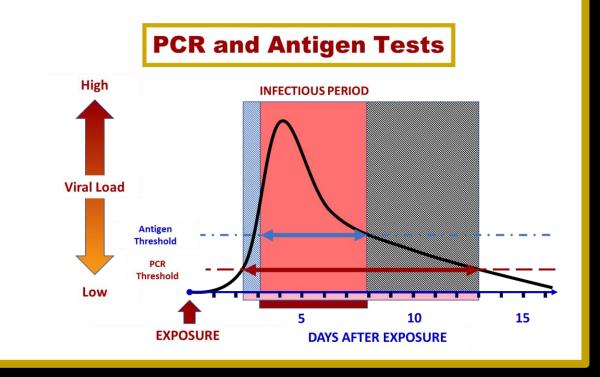




#### **Single Test = Only a Snapshot in Time**







## Four Issues:

- Performance Accuracy
- Serial Antigen Tests
- Availability of Tests
- Delay of Test Results



#### Episode 85: Smart Testing in the Omicron Surge



#### **Serial Rapid Antigen Tests INCREASE Value**



- Serial Rapid Antigen Tests Increase Value
- Perform per Manufacturers Recommendations
- Tests performed 24-48 hours apart
- Use PCR Laboratory Test as "Tie Breaker"

#### **Unavailability of Testing Disruptive**



- Surges cause a "run on retail home test availability".
- Access to proctored telemedicine appointment delays.
- Delays in healthcare provider PCR appointments.
- Unavailability of testing increases risk to population.

#### **Delay in PCR Test Results**



- Surges delay laboratory PCR test results.
- Exposure to virus can occur to Test Negative people while awaiting results.
- Test Positive people can infect others while awaiting test results.
- Value of PCR tests drop precipitously with delay in test results.

#### **Employer Recommendations**

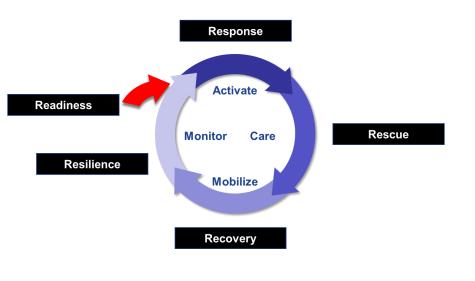


## **Aerosol Risk**





## Family Health Safety & Organization Security Plans<sup>®</sup>



#### The Family CFO: Chief Family Officer



**Thoughts for Families with Young Children:** 

- Review other Readiness Checklists. Use FEMA Emergency Preparedness Checklist (we use when we teach Med Tac Bystander Rescue Program).
- Make sure you have Personal Protective Equipment for everyone.
- Make sure you have a copy of everyone's Medical Records including lists of allergies and meds.

- Review the 5 Rights of Emergency Care video to be prepared for a new experience.
- □ Use Icons in your plan to make plan family friendly.
- Create plan sections for adults and children
- **Create an "All Teach All Learn" Environment**
- Play Date Simulations for being prepared.
- Gamify Readiness we use FEMA as an example

## The Value of Testing







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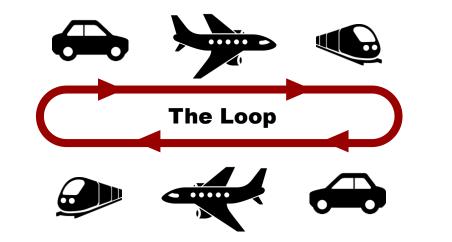


#### Turn the Science into Safety<sub>m</sub>











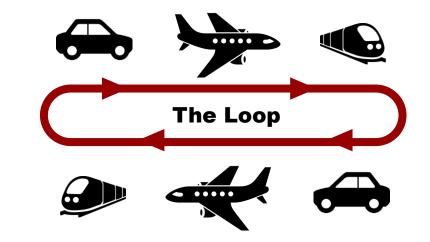


- Test Before Departure
- Maintain Safe Practices in Cars
- Practice Airport & Boarding Safety
- Practice Enroute Safety

- Repeat Airport Safety Practices
- Repeat Safe Practices in Cars
- Test Before Meeting
- Repeat Processes Going Home
- Test Upon Return Home

#### Save the Family...and You Save the Worker















# Test to Image: Comparison of the loop Travel Safer Image: Comparison of the loop Image: Compa

#### **Pre-trip Recommendations: Rapid Antigen or PCR Test**



#### **Reduce Vulnerabilities Along the Travel Loop**

#### **At Airport**



Boarding

#### **On Plane**



#### At Meeting

Home



#### Travel to Meeting

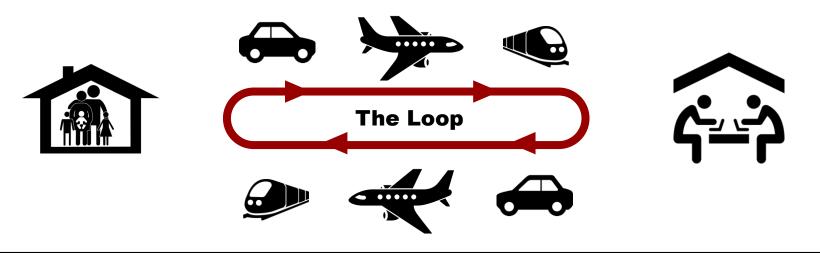


#### At Airport



#### Deplaning





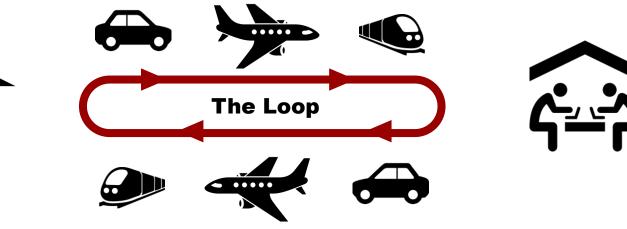


"There is one population which is clearly the highest risk for spreading the virus and those are people who are known to be infected".

Michael Mina MD PhD







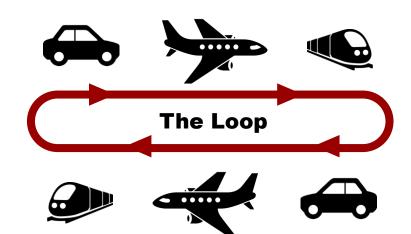


"A test will not protect you from getting infected. A test will protect you from from infecting other people".

Michael Mina MD PhD

**New York Times** 









Q MENU >

#### COVID-19 Testing Requirement for International Travel to the United States

CDC amended its October 25, 2021 <u>Order</u>, titled, "*Requirement for Proof of Negative COVID-19 Test or Recovery from COVID-19 for All Air Passengers Arriving in the United States.*" This amendment updates COVID-19 testing requirements for air passengers 2 years or older boarding a flight to the United States.

All air passengers 2 years or older with a flight departing to the US from a foreign country at or after **12:01am EST (5:01am GMT) on December 6, 2021,** are required show a negative COVID-19 viral test result taken no more than 1 day before travel, or documentation of having recovered from COVID-19 in the past 90 days, before they board their flight.

• Air passengers will also be required to confirm in the form of an attestation that the information they present is true.

For the full list of requirements and exemptions, please review the language in the Order.

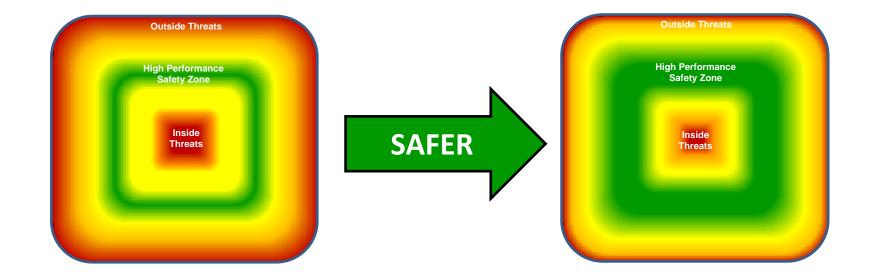
International travel poses additional risks and even fully vaccinated travelers are at increased risk for getting and possibly spreading new COVID-19 variants.

CDC recommends delaying international travel until you are fully vaccinated.

- <u>Requirement for Proof of COVID-19 Vaccination For Air Passengers</u>
- <u>Travel Assessment</u>
- International Travel Information for U.S. Citizens, U.S. Nationals, Lawful Permanent Residents and
   Immigrants
- Non-U.S. citizen, Non-U.S. immigrants: Air Travel to the United States

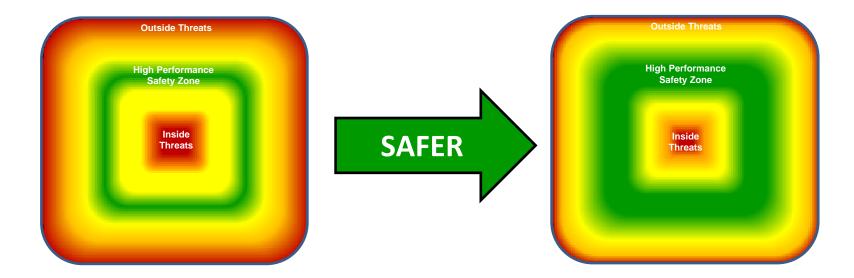
CareUniversity

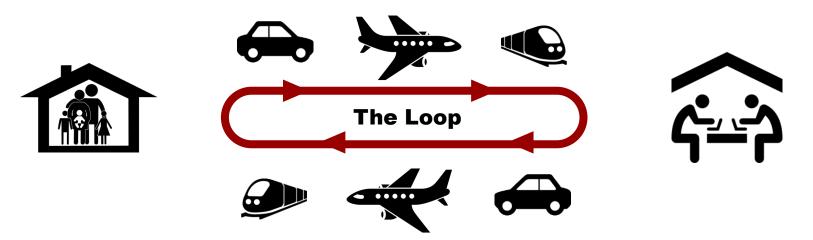
## **Threats x Vulnerabilities = Risk**



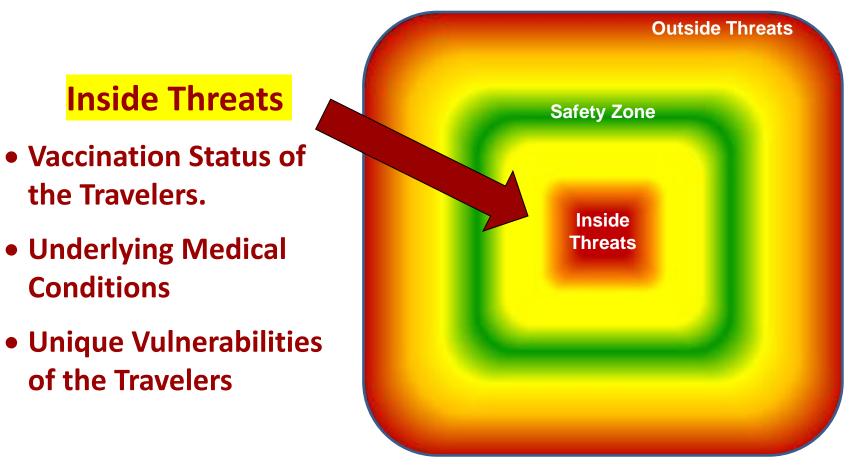
# Reduce Vulnerabilities to Threats Reduces Risk

#### **Reduce Vulnerabilities Along the Travel Loop**





## **Inside Threats & Outside Threats on Trip**



© Denham

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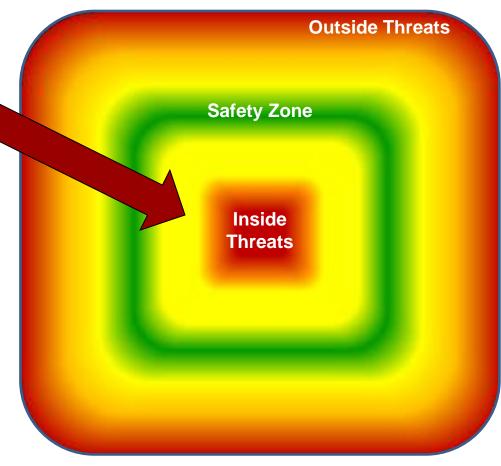
the Travelers.

**Conditions** 

## **Inside Threats & Outside Threats on Trip**

**Inside Threats** 

- Vaccination Status of the Travelers.
- Underlying Medical Conditions
- Unique Vulnerabilities of the Travelers



**Outside Threats** 

- Community Immunity in along Travel Route
- Community Infection Rate along Travel Route
- Threats Onsite Meeting or Work Site
- Safe Practices being practiced at the site.

# **Masks: Filter, Fit, and Finish**







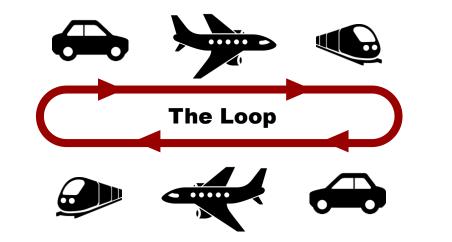
**Cloth Mask** 

#### N95 Mask

### **Surgical Mask**

# Test to Travel Safer









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- Practice Enroute Safety

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#### Save the Family...and You Save the Worker

## • Test Site Scams

## • False Results

## Identity Theft

#### **Fraudulent Test Sites**



#### **Defrauding Seniors**



#### **Travelers Buy Negative Test Results**

The second se	VENTION CENTER	
LAB RESULTS SARS-COV-2	Date: 01.03.2020	SAMP LE-PRIME
severe acute r	espiratory syndrome	coronavirus 2
Name: JANE DOE	Test: COVID-19	Patient 181 4800892938488-5
	POCITIVE	COMMENT
EXAMINATION	POSITIVE VNEGATIVE	lear
Body Temp.	36.5°C(97.7°F)	-
Respiratory	-	USA
Nodes	-	TODAT

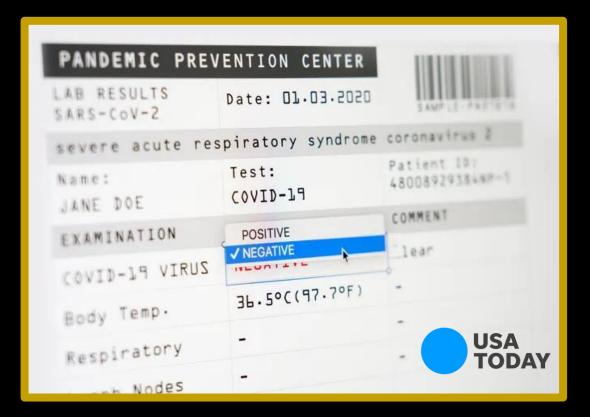
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## **Defrauding Seniors**





Home > Fraud > Consumer Alerts > Fraud Alert: COVID-19 Scams

#### Fraud Alert: COVID-19 Scams

OVID-19 fraud is rapidly evolving. This page is frequently updated.						
Last updated: January 4, 2022						
5	f	y	$\geq$	<b>♣</b> 1.1K		

The U.S. Department of Health and Human Services Office of Inspector General is alerting the public about fraud schemes related to the novel coronavirus (COVID-19).



Report the Scam HHS OIG Hotline TIPS.HHS.GOV 1-800-447-8477 TTY: <u>1-800-377-4950</u> Federal Trade Commission

<u>1-877-FTC-HELP</u>

#### **Related Information**

- <u>Coronavirus.gov</u>
- <u>CDC.gov/coronavirus</u>
- <u>USA.gov/coronavirus</u>
- DOJ: Report COVID-19 Fraud
- Senior Medicare Patrol Information on <u>COVID-19 Fraud</u>
- HHS-OIG COVID-19 Portal

## Alert from Health & Human Services

• Fraudulent Tests

HHS Grants

• Medicare Prescription Cards

### • Identity Theft

• Fraudulently Bill Medicare



Home > Fraud > Consumer Alerts > Fraud Alert: COVID-19 Scams

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A Martine from this order and and the

<u>HHS-OIG COVID-19 Portal</u>

## Scammers are out there preying on COVID-19 fears.



Scammers can cause harm. They can fraudulently bill federal health care programs or commit identify theft.



**COVID-19 fraud is rapidly evolving. Be cautious of unsolicited requests for personal information.** 

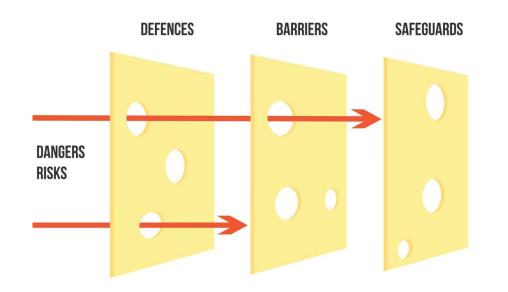


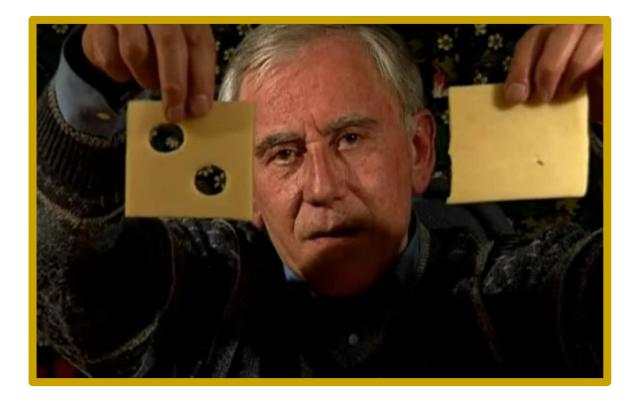
Talk to your doctor to get COVID-19 testing or treatments.



If you suspect fraud, take action.

# SWISS Cheese Model

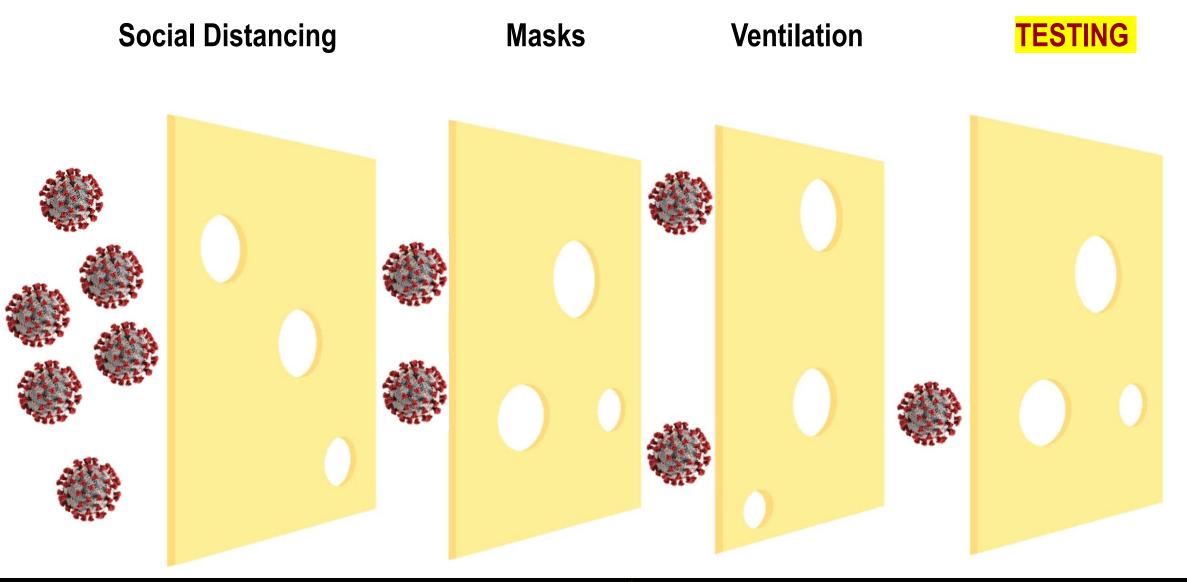




#### **Professor James Reason**

Source: https://www.youtube.com/watch?v=KND5py-z8yl

## **COVID Defense Strategies**





**Coronavirus Care Community of Practice**  Bystander Rescue Care CareUniversity Series

### Speakers & Reactors



Jennifer Dingman



Dr. Gregory Botz



William Adcox



**Charlie Denham III** 



**Randy Styner** 



Heather Foster RN



Dr. C Denham





**Coronavirus Care Community of Practice**  Bystander Rescue Care CareUniversity Series

# **Voice of the Patient**



### **Jennifer Dingman**

Founder, Persons United Limiting Substandard and Errors in Healthcare (PULSE), Colorado Division Co-founder, PULSE American Division TMIT Patient Advocate Team Member Pueblo, CO

