

Omicron & Back to Work

Family Survive & Thrive Guide™



Turn Science into Safety™



Coronavirus Care
Community of Practice

Bystander Rescue Care
CareUniversity Series

Welcome



Charles Denham, MD

Chairman, TMIT Global
Founder Med Tac Bystander Rescue Care

Med Tac Bystander Rescue Care
December 2, 2021

CareUniversity Webinar 176

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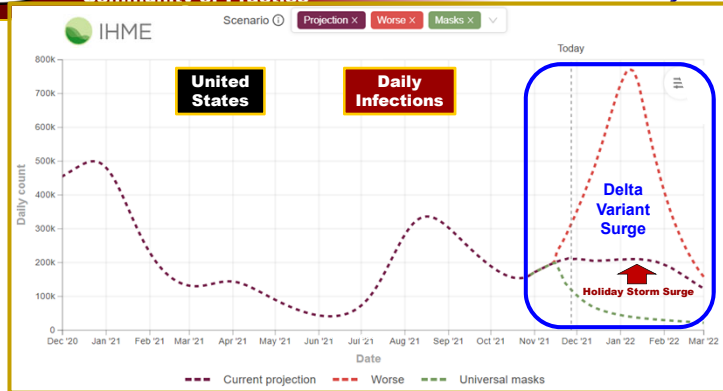
Med Tac Bystander Rescue Care

U.S. COVID Infections



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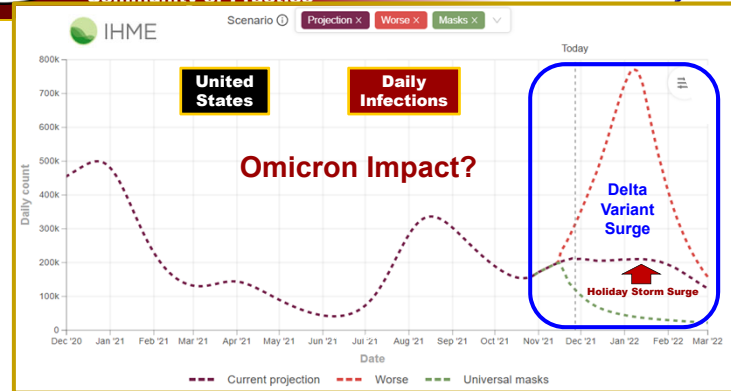
Med Tac Bystander Rescue Care

U.S. COVID Infections



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Omicron & Back to Work

- ❑ How should Omicron impact my plans?
- ❑ How should HR leaders plan for "return to work"?
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Survive & Thrive Guide: Protecting Your Family

What about Omicron?



Source: CNN Town Hall 12-01-21

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Our Purpose, Mission, and Values



Our Purpose:

We will measure our success by how **we protect and enrich the lives of families...patients AND caregivers.**



Our Mission:

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

CAREUNIVERSITY®

Our ICARE Values:

Integrity, Compassion, Accountability, Reliability, and Entrepreneurship.

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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.
- Heather Foster has nothing to disclose.
- Danny Polchicchio has nothing to disclose.
- Sophia McDowell
- Paul Bhatia has nothing to disclose.
- Charlie Denham III has nothing to disclose.

No direct, indirect, or affiliated funding has been provided to support this program from healthcare pharmaceutical or device companies. The program has been funded by private family philanthropy.

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 with Senior Care Centers. HCC is a former contractor for ByoPanel, 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™, the learning management system providing continuing education materials for TMIT Global.

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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






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Pueblo, CO



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Speakers & Reactors

Jennifer Dingman

William Adcox

Paul Bhatia EMT

D Pollicchio

Dr Gregory Botz

Dr Brittany Barto

Charlie Denham III

Sophia McDowell

Randy Styner

Heather Foster

Dr C Denham

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Survive & Thrive Guide

TMIT Global is a 501c3 Non-profit

Medical Research Organization

Founded in 1984

Research Test Bed

3,100 Hospitals in 3,000 Communities

500 Subject Matter Experts

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TMIT Global Research Test Bed

Learning Management System

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John Nance JD

Dr. Gregory Botz

Chief William Adcox

Heather Foster

Dr. Charles Denham

Dr. Casey Clements

Beth Ullem

Dr. McDowell

Dennis Qualid

Preston Head II

Fred Haise

Dr. Steve Swensen

Tyler Sant

Avarie Pettit

Dr. Mary Foley

Bob Chapman

Perry Bechtie II

Becky Martins

Betsy Denham

Charlie Denham II

Dr. C Peabody

Dr. Chris Fox

Randy Styner

Tom Renner

David Beshk

Ann Rhoades

Nancy Conrad

Dr. Chopra

John Little

Debbie Medina

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Matt Horace

John Tomlinson

Dan Ford

Arlene Salamandra

Jennifer Dingman

Bill George

Penny George

Hilary Schmidt PhD

Paul Bhatia EMT

Dr. McDowell

Contributions Through Segments of our Discovery Channel Documentaries

Chasing the Zero
BRINGING THE BOLD TO HEALTHCARE HEROES

Surfing the Healthcare Tsunami
BRING YOUR BEST BOARD

3 Minutes & Counting
Bystanders Care!

Prof Christensen

Jim Collins

C Sullenberger

Charlotte Guglielmi

Dr. Don Berwick

Dr. Howard Koh

Dr. Jim Baglian

Dr. Harvey Fineberg

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Survive & Thrive Guide

**500 Subject
Matter Experts**

Graphic Representation to Protect Expert Privacy

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THE UNIVERSITY OF TEXAS
**MD Anderson
Cancer Center**

**Stanford
University**

UCSF
University of California
San Francisco

UF UNIVERSITY OF
FLORIDA

Family Rescue R&D

The 5 R's of Safety

MAYO CLINIC

**HARVARD
UNIVERSITY**

UCI

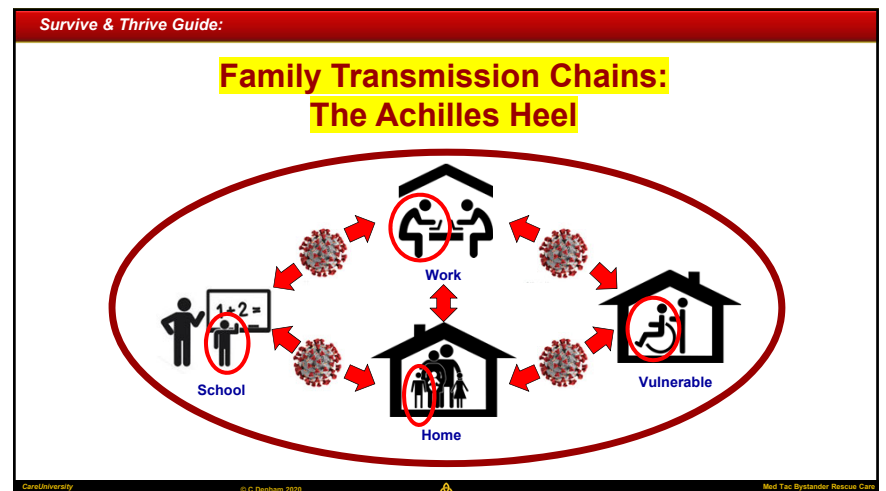
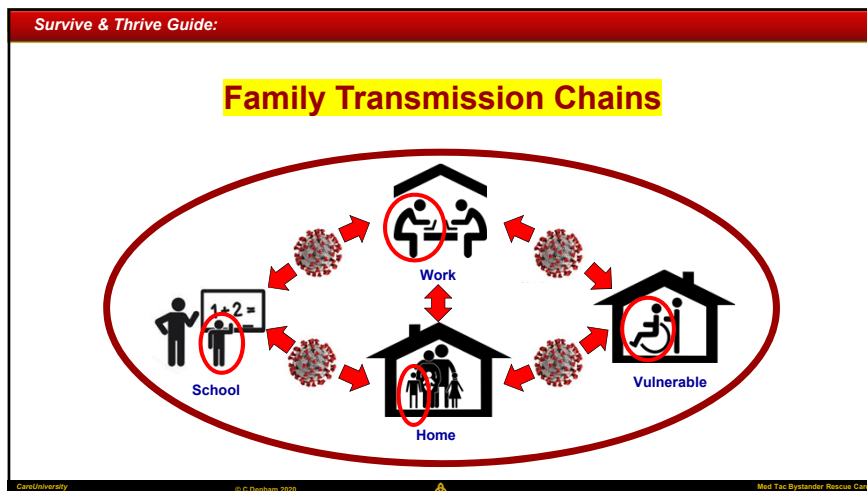
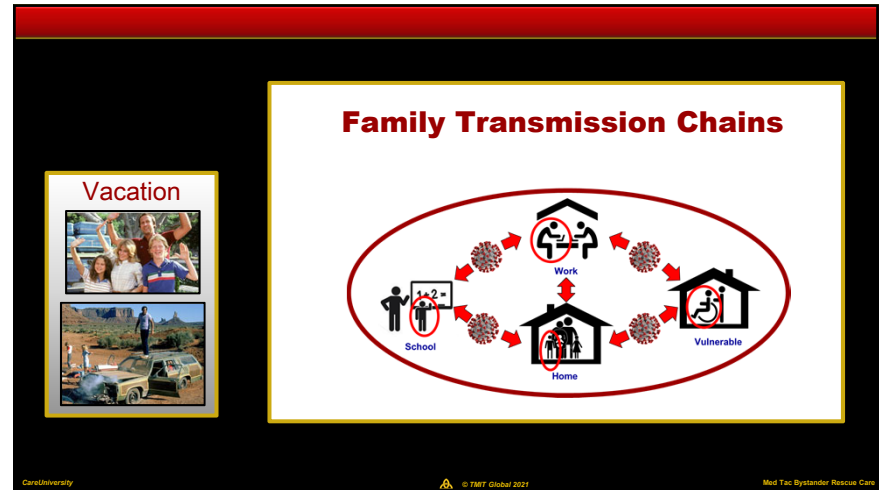
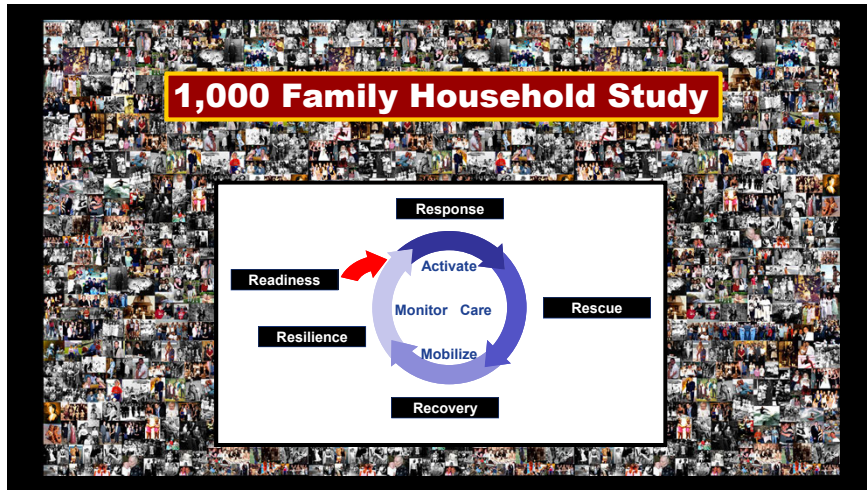
**UT Southwestern
Medical Center**

USC University of
Southern California

CareUniversity

Med Tac Bystander Rescue Care

1,000 Family Household Study



Survive & Thrive Guide:

Break Family Transmission and Win

The diagram illustrates four interconnected nodes: School, Work, Home, and Vulnerable. Each node is represented by an icon (a person at a blackboard for School, people at desks for Work, a family in a house for Home, and a person in a wheelchair for Vulnerable). Red circles with diagonal slashes are placed on the lines connecting these nodes, indicating where transmission chains can be broken. The entire diagram is enclosed in a large red oval.

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Survive & Thrive Guide:

Survive & Thrive Programs

This slide contains two smaller versions of the content from the first slide. On the left is the 'Breaking Family Transmission Chains' diagram, and on the right is the 'Survive & Thrive Guide Program Road Map' which is a grid of 12 icons representing different program components.

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Survive & Thrive Guide™ Program Road Map

The road map is a 3x4 grid of icons. The first row includes: 'Survive & Thrive Guide Series: Coming Home Safety', 'Keeping Our Kids Safe', 'Creating Your Family Safety Plan', and 'Safety Plan Templates for Everyone'. The second row includes: 'Providing Care at Home', 'Your 2021 Family Safety Plan', 'Emergency Rescue Skills', and 'What To Do - They're in the ICU'. The third row includes: 'Vaccines, Variants, and Victory', 'Long Haulers & Severe COVID Recovery', '10 Best Practices for Reopening', and 'The New Normal & The 4 P's'.

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MED + TAC Global **Coronavirus Care Community of Practice** **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

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Take the Shot – Save a Life.



The Vaccination Conversation

- Why Vaccinate?
- Why You?
- Why Now?

Video Topic < 14 Minutes
<https://www.medrxiv.org/content/10.1101/2021.03.10.21250001v1>

Coronavirus Care Community of Practice

Youth & Young Adult Team



Family Rescue R&D





The 5 R's of Safety





Omicron & Back to Work

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Turn the Science into Safety..

Have the Tools...Do we have the Will?



Advice from Our Medical Center Leaders



Dr. Alicia Kowalski
MD Anderson



Dr. Casey Clements
Mayo Clinic



Dr. Chris Fox
UCI



Dr. Christopher Peabody
UCSF



Safe Practices



**Social
Distancing**



**Use of
Masks**



**Hand
Washing**



**Disinfecting
Surfaces**

SOURCE: Centers for Disease Control

Masks: Filter, Fit, and Finish



N95 Mask



Surgical Mask



Cloth Mask

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.

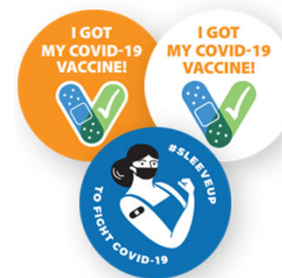
DROPLETS will undergo gravitational settling faster than they evaporate, contaminating high contact surfaces and leading to contact transmission.

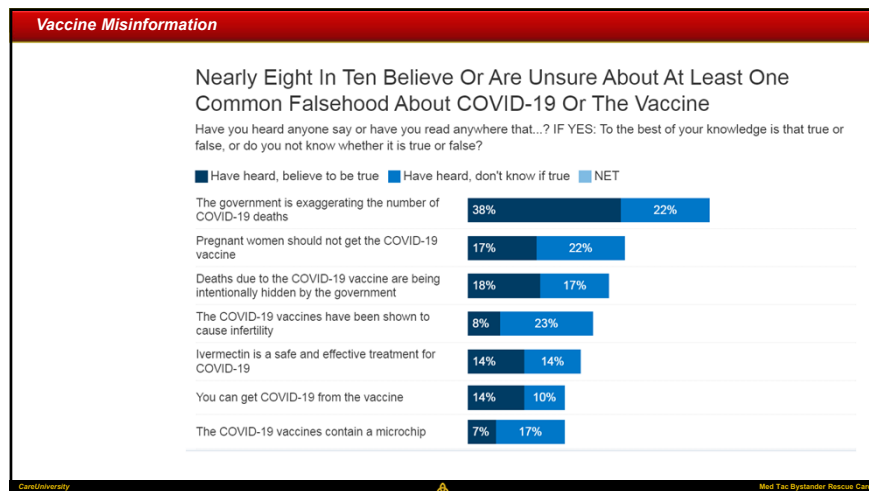
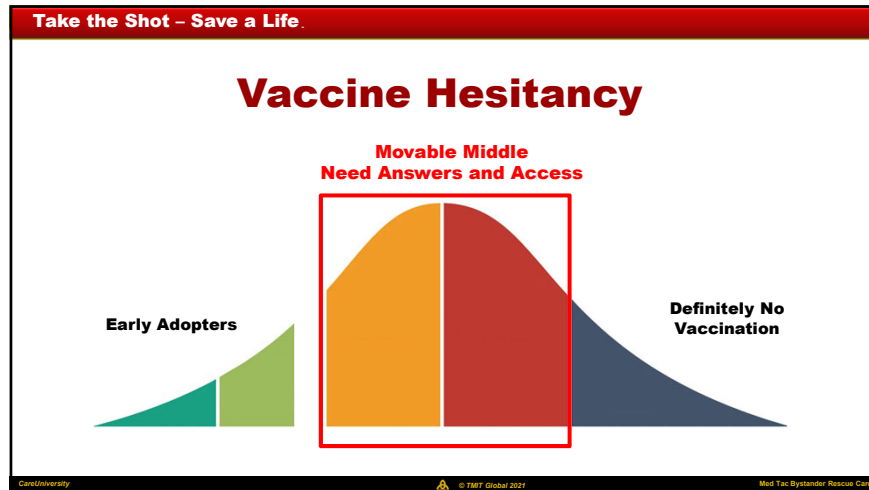
Particle Size μm
100 10 1 0.1

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



Vaccination





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Community of Practice**

**Bystander Rescue Care
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Young Adult Reactors

Paul Bhatia EMT

D Pollicchio

The Vaccination Conversation

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Omicron & Back to Work

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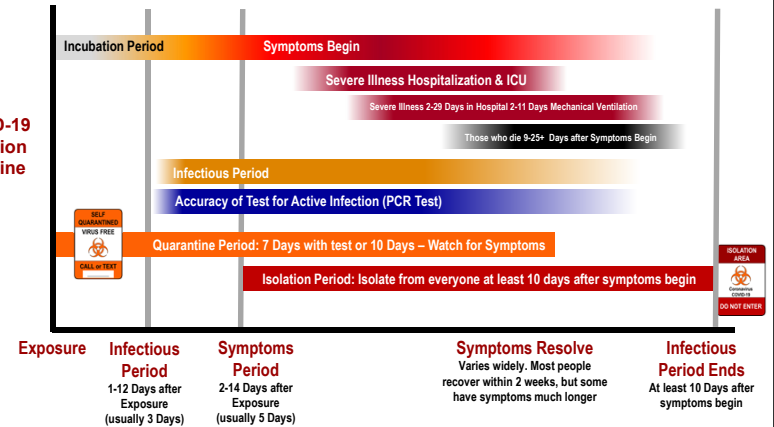


- How do I make an at home hybrid model work?
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Turn the Science into Safety..

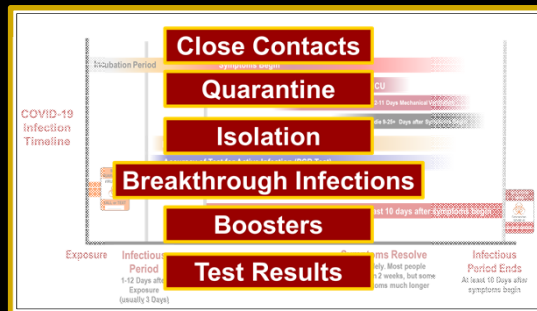
COVID-19 Infection Timeline



HR Leaders:

- Situation
- Tasks
- Actions
- Results

HR New Tasks



'This Wasn't in the Job Description' HR Departments Are Navigating Confusing COVID-19 Religious Exemption Requests

TIME

11-30-21

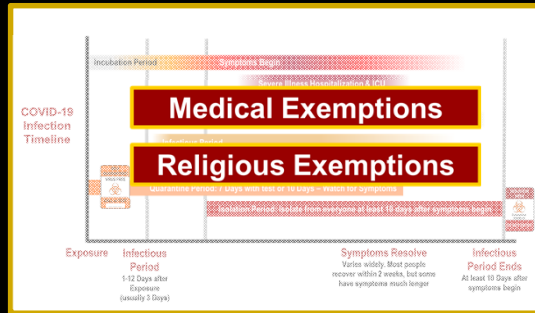
...some employees are claiming religious exemptions to avoid getting vaccinated—putting human resources departments on the frontlines of a fraught political issue that has already proven fertile ground for lawsuits.



HR Leaders:

- Situation
- Tasks
- Actions
- Results

HR New Tasks



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Turn the Science into Safety.

Create a Safety Bubble at Home

Reduce Vulnerability: Weaknesses that can be **EXPLOITED** by threats.

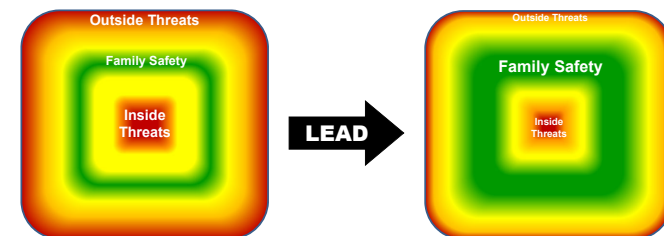


Turn the Science into Safety.

Survive & Thrive Guide: Protecting Your Family

Threats X Vulnerability = Risk to Your Family

Threats: Likely to cause **HARM**.
Vulnerability: Weaknesses that can be **EXPLOITED** by threats.
Risk: **PROBABILITY** of harm by a threat exploiting vulnerability.



Keeping Our Kids Safe: Steps 1-4

Keeping Our Kids Safe...by Keeping the Unit Family Safe



Reduce Family Vulnerability



STEP 1: Identify Each Family Member's Threat Profile

- Family living together and those in direct contact.
- Identify threats due to age, underlying conditions, and outside threats related to region and living conditions.

STEP 2: Identify and Follow Local Coronavirus Threats

- Local Community infection factors, trends, and public health guidelines will drive your behaviors and plans.
- Understand the public health processes in place where the family members will work, learn, play, and pray.

STEP 3: Develop a Family Safety Plan

- A leader or leaders of the family act as the CFO – Chief Family Officer who drives the plan: Readiness, Response, Rescue, Recovery, and Resilience.

STEP 4: Plan the Flight and Fly the Plan


- The novel Coronavirus virus science, threats, vulnerabilities, and therefore the family risk changes continuously. Every airplane flight plan is modified along the route – so will your family safety plan.

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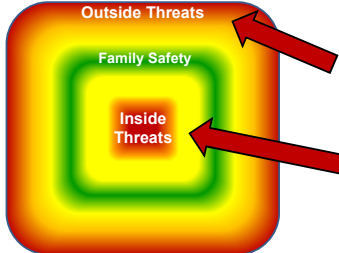
Survive & Thrive Guide: Protecting Your Family

STEP 1: Identify Each Family Member Threat Profile

Understanding the Threats, Vulnerability, and Risk of Harm to our Children



Family Unit Threat Profile:



Outside Threats from Community

- Threats, Vulnerability, and Risk from the outside environment for each individual family member for being infected, harmed, and death.
- Threats, Vulnerability, and Risk of current behaviors.


Inside Threats to Family – Home and Conditions

- Threats, Vulnerability, and Risk for each family member unique to them for being infected, harmed, and death.
- Threats, Vulnerability, and Risk of current behaviors within the home and living spaces.

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Survive & Thrive Guide: Protecting Your Family

STEP 1: Identify Each Family Member Threat Profile



Pregnant Moms

- Have been found to have certain higher risks for severe COVID illness due to pregnancy – an “inside risk” (CDC)

Under 2 Years

- Watch evolving science in this area for “inside risks”.

2 to 10 Years

- May have more virus in their nasopharynx than adults.
- Half as likely to get infected as over 10 years old.
- A rise in infection rate seen with school attendance.
- May develop MIS-C – Multisystem Inflammatory Syndrome in Children. <21 years old, lab evidence of inflammation, >2 organ involvement. SEE CDC Case Description on CDC website.

10 to 30 Years

- Fastest growing infection group – more than 50%
- Super Spreaders due to social interaction.
- Over 30% of COVID positive Big 10 players have cardiac inflammation on cardiac MRI. SEE Evolving CNN Reports

30 to 50 Years

- Rapidly growing group of infections in later surge stage. Underlying conditions including obesity a factor.

50 to 65 Years

- Have higher incidence in underlying conditions putting them at higher risk for infections and harm.

Over 65 Years

- Age is a risk factor independent of underlying conditions and have them. Highest death rate.

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Survive & Thrive Guide: Protecting Your Family

STEP 2: Identify and Follow Local Coronavirus Threats


Inside versus Outside Threats

Outside Threats:

- High Background Community Infection or trending with more infections.
- Schools without proper Test, Trace, Treat, Isolate, and Quarantine Programs.
- Group Activities and Sports without Proper Prevention - Social Distancing etc.
- Lack of Mask Use by all exposed to family.
- Community without adequate public health services including Test, Trace, Treat, Isolate, and Quarantine Programs.
- Critical Essential Infrastructure Worker Exposure bringing virus home to family.

Inside Threats:

- Delayed Emergency Medical Care for of Children due to fear.
- Delayed Vaccines for Children due to fear.
- Depression in Children isolated at home.
- Threats to Immune Compromised Children.
- Inadequate Nutrition of Children.
- Lack of Exercise of Children and Adults.
- Adults with underlying at-risk illnesses.
- Seniors over 65 years of age at risk due to age.
- Delayed Emergency Medical Care for Adults due to Fear.
- Delayed or absent Screening for Adults and Seniors.
- Delayed Elective Medical Procedures for adults.
- Inadequate Disinfection of Hi Contact Surfaces.



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Omicron & Back to Work

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Turn the Science into Safety.

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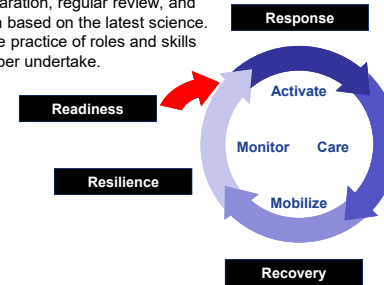
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Be Ready to Respond and Rescue

Readiness: Preparation, regular review, and updating of a plan based on the latest science. Regular deliberate practice of roles and skills each family member undertake.

Response: Family moves to action to respond to an emergency. Safeguards are put in place. The family may respond to a member being infected or exposed to someone infected.

Rescue: Regular deliberate practice of roles and skills to take a loved one to the Emergency Department if they have severe symptoms. This means having records and medications ready go with the patient.



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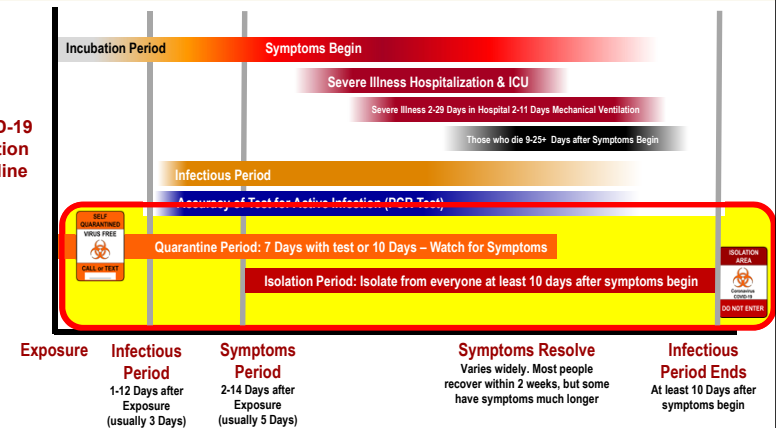
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Survive & Thrive Guide for Unvaccinated

COVID-19 Infection Timeline



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Omicron & Back to Work

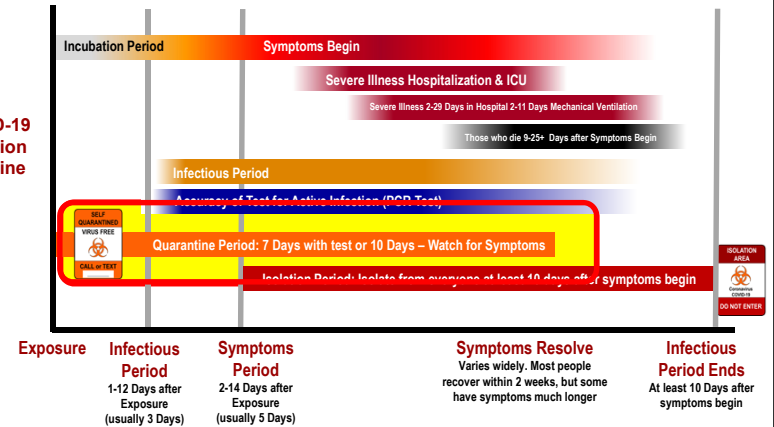
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Turn the Science into Safety.



Survive & Thrive Guide for Unvaccinated

COVID-19 Infection Timeline



Omicron & Back to Work

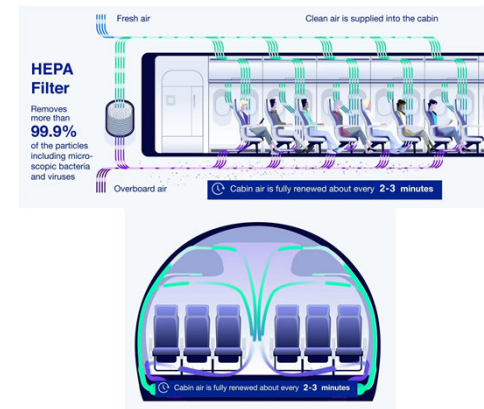
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Turn the Science into Safety.



Planes, Trains, and Automobiles

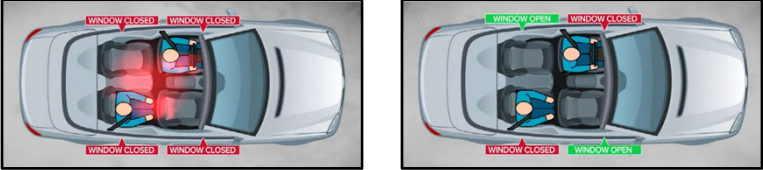
Air Flow Science Commercial Airplanes



Planes, Trains, and Automobiles

ScienceAdvances
01-01-21

Airflows inside passenger cars and implications for airborne disease transmission



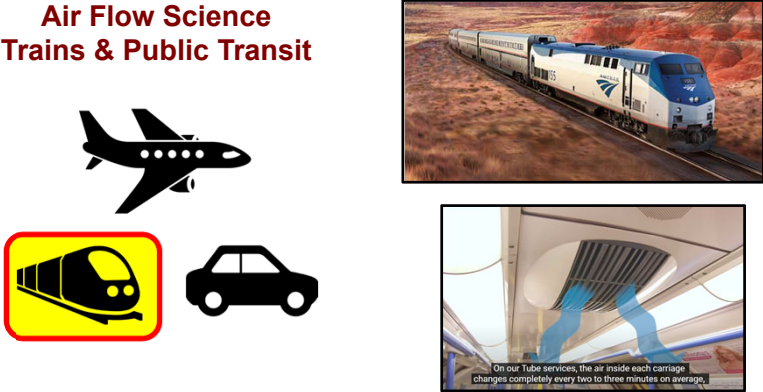
The simulations showed that opening windows — **the more windows the better** — created airflow patterns that dramatically reduced the concentration of airborne particles exchanged between a driver and a single passenger. **Driving around with the windows up and the air conditioning or heat on is definitely the worst scenario, according to our computer simulations.**

“Perhaps most unexpected is that an intuitive option—of opening the windows adjacent to each occupant (is effective but not always the best among the partial ventilation options. **A configuration in which the two windows farthest from the occupants are open, appears to give better protection to the passenger.**

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Planes, Trains, and Automobiles

**Air Flow Science
Trains & Public Transit**

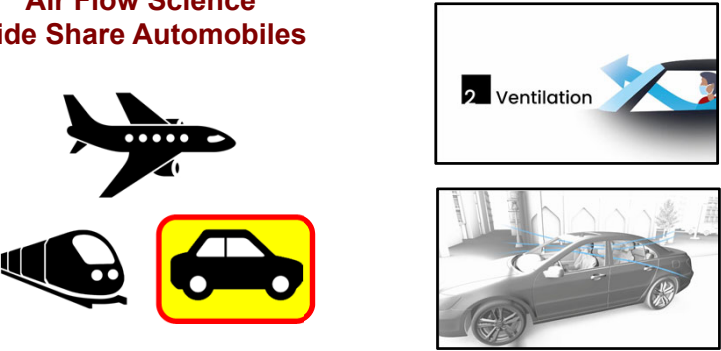


On our Tube services, the air inside each carriage changes completely every two to three minutes on average.

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Planes, Trains, and Automobiles

**Air Flow Science
Ride Share Automobiles**



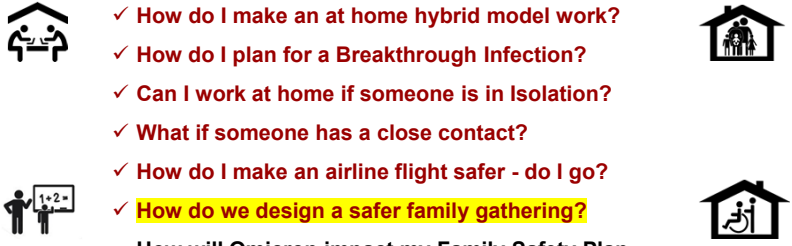
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Survive & Thrive Guide: Protecting Your Family

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Turn the Science into Safety.



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Holiday Safe Practices

Planes, Trains, and Automobiles

The Science of Airflow



Safer Gatherings Safer Families



Holiday Huddle Checklist

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

Before Event:

- 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



Family Lifeguard

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
- 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

Holiday Lifeguard Program



Charlie Denham III

Co-founder Med Tac
High School Student
Chairman Med Tac Student
Outreach R&D Team

Med Tac Rescue Stations




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Community of Practice**

**Bystander Rescue Care
CareUniversity Series**

Med Tac Student Outreach R&D Team

Danny Policicchio Jr.

NYU Film Student
Med Tac Associate Producer
Soaring Eagle Life Saving
Award Winner
Med Tac Student Outreach
R&D Team Media Specialist

Survive & Thrive Guide: Protecting Your Family

Omicron & Back to Work

- ✓ How should Omicron impact my plans?
- ✓ How should HR leaders plan for "return to work"?
- ✓ How do I make an at home hybrid model work?
- ✓ How do I plan for a Breakthrough Infection?
- ✓ Can I work at home if someone is in Isolation?
- ✓ What if someone has a close contact?
- ✓ How do I make an airline flight safer - do I go?
- ✓ How do we design a safer family gathering?
- ✓ **How will Omicron impact my Family Safety Plan**

Turn the Science into Safety..

Survive & Thrive Guide: Protecting Your Family

Family Health Safety Plans

Readiness: Preparation, regular review, and updating of a plan based on the latest science. Regular deliberate practice of roles and skills each family member undertake.

Response: Family moves to action to respond to an emergency. Safeguards are put in place. The family may respond to a member being infected or exposed to someone infected.

Rescue: Regular deliberate practice of roles and skills to take a loved one to the Emergency Department if they have severe symptoms. This means having records and medications ready go with the patient.

Recovery: Follow up care of the family member after an event. Returning to normal family activities after a family member is infected and isolated, hospitalized, or under quarantine."

Resilience: Fortify response, rescue, and recovery actions in plan. In law enforcement and healthcare, we call this "target hardening".

TMIT Global

Washington Post Video

Infrared video shows the risks of airborne coronavirus spread

<https://www.youtube.com/watch?v=xEp-Sdgl9AU>

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The Family Safety Plan

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

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The 5 Rights of Emergency Care™

Right Provider: Patients and families need to choose the best emergency care provider they will use prior to experiencing an emergency.

Right Diagnosis: The right diagnosis depends on information – make sure to help the emergency care providers with all of the information you have to help them.

Right Treatment: It is important to understand both the short-term implications of emergency care as well as the long-term implications. An emergency medicine visit is a snapshot in time.

Right Discharge: A critical area for safety is the discharge from the Emergency Department. The information shared with the patient and family will have a major impact on the outcome of care. We need to understand why we may need to come back for care.

Right Follow-up: The continuity of care after an Emergency Medicine visit is very important to the long-term outcome of the care received. The breakdown in follow up is often an area of safety risk.

Source: Denham, CR

Family Lifeguard

Emergency Rescue Skills: After Discharge & Transport Home

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Professional First Responders

Chief William Adcox

Paul Bhatia EMT

Randy Styner

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“Left of Boom”

William Adcox
Chief Security Officer
MD Anderson Cancer Center
Chief of Police
University of Texas Houston

Prevention

Performance Improvement

Preparedness

Protection

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Emergency Preparedness

Randal Styner
Director of Emergency Management
University of California Irvine
Community Leader

The Light of the Moon
Life, Death and the Birth of Advanced Trauma Life Support
Randy Styner

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Med Tac Student Outreach R&D Team

Paul Bhatia EMT
Pre-Med Student
Prior President UCI EMT Organization
Med Tac Master Instructor
College EMT Team Outreach

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Speakers & Reactors

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William Adcox

Paul Bhatia EMT

D Pollicchio

Dr Gregory Botz

Dr Brittany Barto

Charlie Denham III

Sophia McDowell

Randy Styner

Heather Foster

Dr C Denham

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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

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