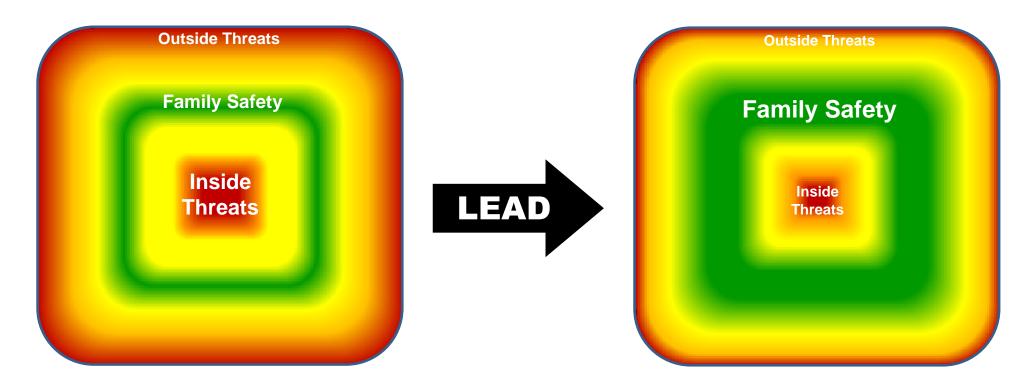
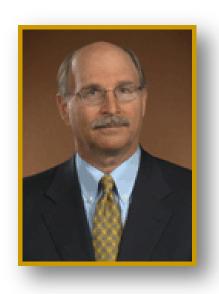


Family Survive & Thrive Guide: Keeping Our Kids Safe



August 03, 2020 CareUniversity Webinar #145

Welcome



Charles Denham, MD

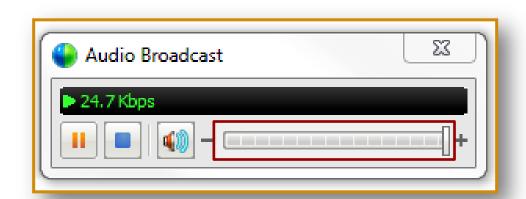
Chairman, TMIT Global Founder Med Tac Bystander Rescue Care

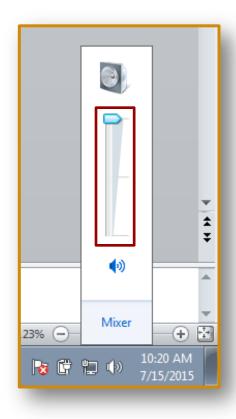
Med Tac Bystander Rescue Care August 06, 2020

CareUniversity Webinar #145



CareUniversity Series





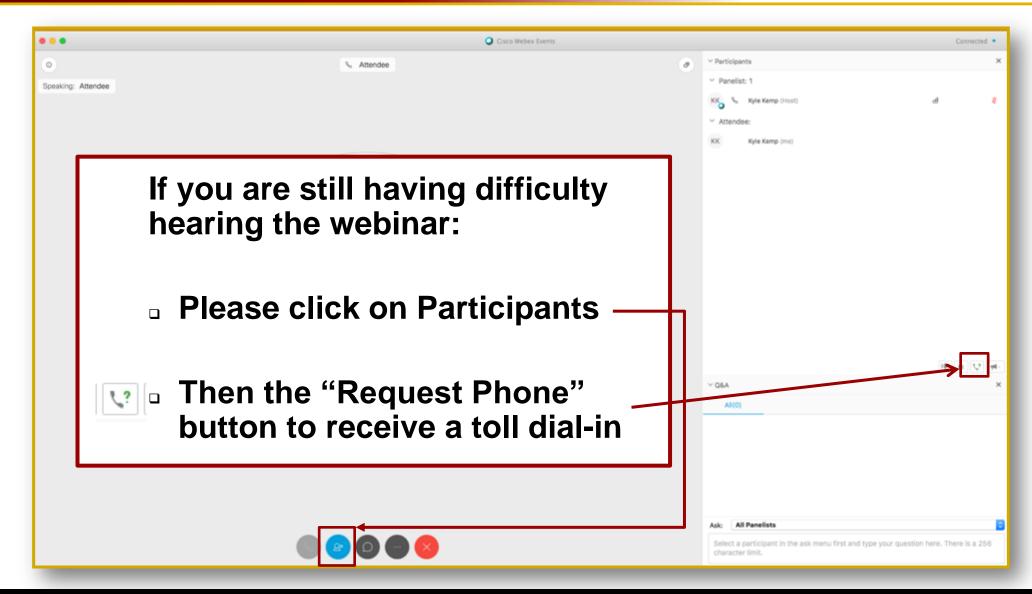


To optimize webinar sound volume, please check:

- WebEx volume
- Computer volume
- **External speaker volume**



Bystander Rescue Care CareUniversity Series



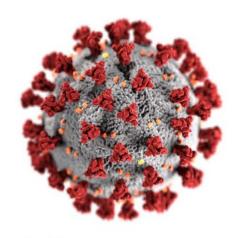


Voice of the Patient



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



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.

EMERGING THREATS
COMMUNITY OF PRACTICE

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.



Bystander Rescue Care CareUniversity Series

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

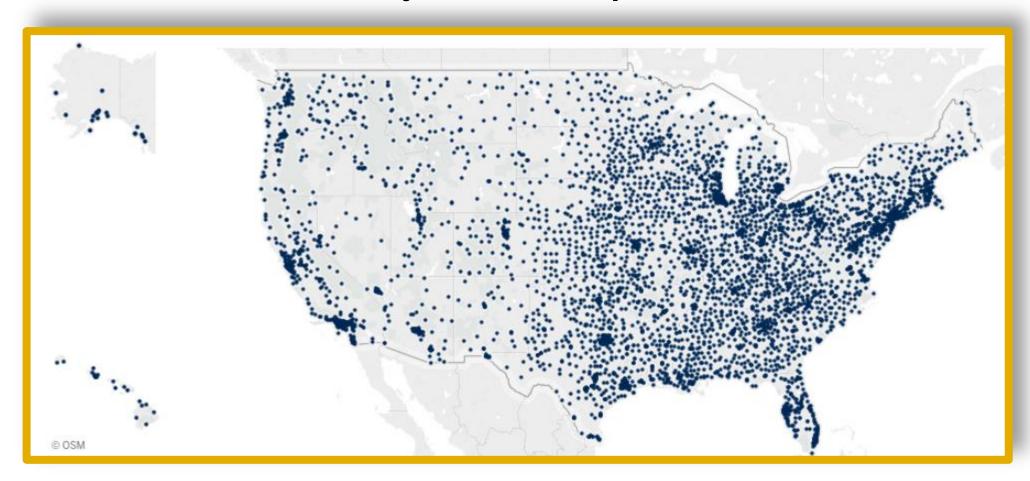
- Gregory H. Botz, MD, FCCM, has nothing to disclose.
- Dr. Christopher Peabody has nothing to disclose.
- Brittany Owns MD has nothing to disclose.
- Randal Styner has nothing to disclose.
- David Beshk has nothing to disclose.
- Preston Head III has nothing to disclose.
- Jennifer Dingman has nothing to disclose.
- Heather Foster has nothing to disclose.
- Perry Bechtle III has nothing to disclose.
- Clair Peck has nothing to disclose.

- · John Tomlinson has nothing to disclose.
- John Little has nothing to disclose.
- · Keith Flitner has nothing to disclose.
- · Randy Styner has nothing to disclose.
- Danny Policichio has nothing to disclose.
- Paul Bhatia has nothing to disclose.
- Charlie Denham III has nothing to disclose.
- · Jacqueline Botz has nothing to disclose.
- Jaime Yrastorza 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 with Senior Care Centers. 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™, the learning management system providing continuing education materials for TMIT Global.

TMIT Global Research Test Bed

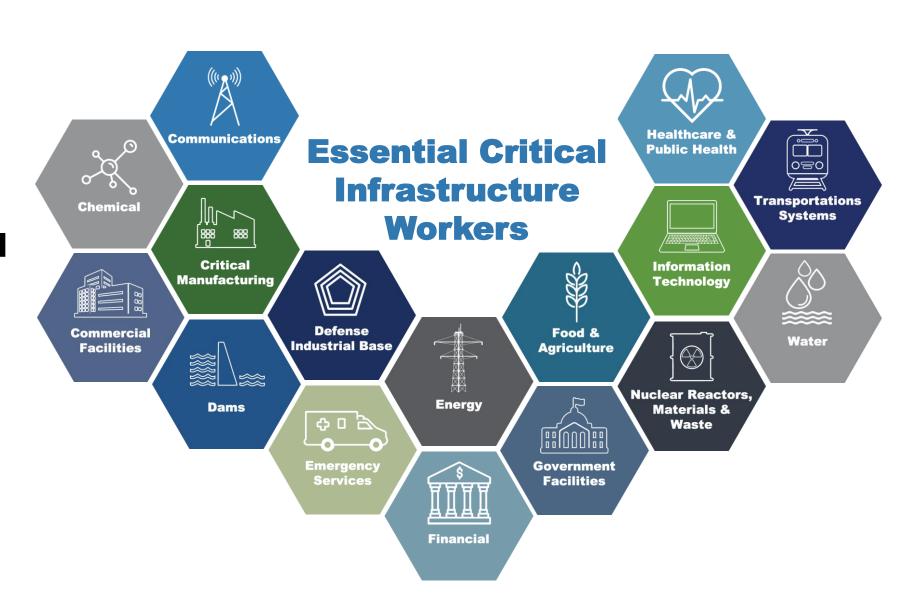
3,100 Hospitals in 3,000 Communities 500 Subject Matter Expert Pool





Educators Declared Essential Critical Infrastructure Workers





The Washington Post

August 21, 2020

The Trump administration declared teachers 'essential workers.' Here's what that means.



The declaration of teachers as "critical infrastructure workers," which came in an Aug. 18 guidance published by the Department of Homeland Security, means that teachers exposed to coronavirus but who show no symptoms can return to classrooms and not quarantine for 14 days as public health agencies recommend. School district leaders have spent the summer preparing safety protocols aimed at preventing the virus's spread when buildings reopen, but many teachers say not enough has been done to allow for safe reentry.

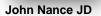


Source: https://www.washingtonpost.com/education/2020/08/21/trump-administration-declared-teachers-essential-workers-heres-what-that-means/#comments-wrapper



CareUniversity Series







Dr. Gregory Botz



Chief William Adcox



Heather Foster



Dr. Charles Denham



Dr. Casey Clements



Beth Ullem



Dr. McDowell



Dennis Quaid Preston Head III



Fred Haise



Dr. Steve Swensen



Tyler Sant



Avarie Pettit



Dr. Mary Foley



Bob Chapman



Perry Bechtle III



Becky Martins



Betsy Denham



Charlie Denham III



Dr. C Peabody



Dr. Chris Fox



Randy Styner



Tom Renner



David Beshk



Ann Rhoades



Nancy Conrad



Dr. Chopra



John Little



Debbie Medina



Bystander Rescue Care CareUniversity Series







John Tomlinson



Dan Ford



Arlene Salamendra



Jennifer Dingman



Bill George



Penny George



Hilary Schmidt PhD



Paul Bhatia EMT



Dr. McDowell

Contributions Through Segments of our *Discovery Channel* Documentaries



Prof Christensen



Jim Collins



C Sullenberger



Charlotte Guglielmi



Dr. Don Berwick



Dr. Howard Koh



Dr. Jim Bagian



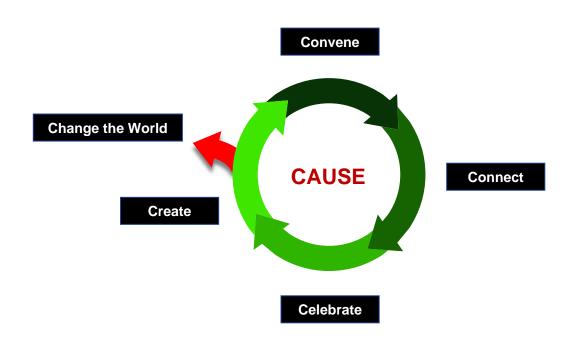
Dr. Harvey Fineberg

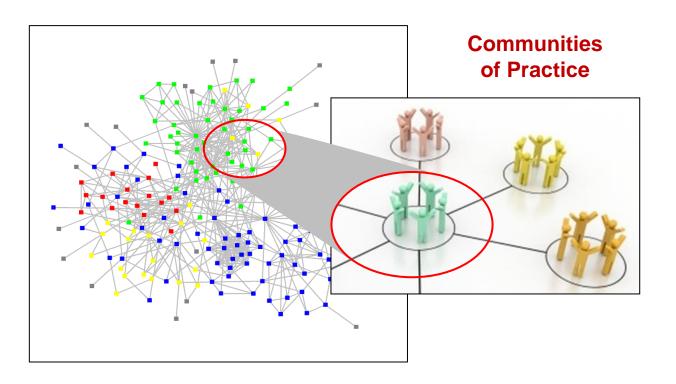






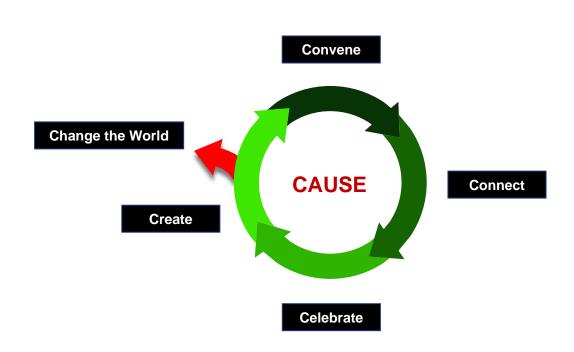
Communities of Practice Model







Bystander Rescue Care CareUniversity Series



Family Centric

- General Public
- Critical Essential Workers
- Professional Caregivers
- First Responders
- All Faiths Volunteers & Staff
- Educators & School Staff
- Scouts, Teams, and Membership Organizations



About

/alues Corona Team Respo Webina Program

This webpage and videos have been produced for essential infrastructure workers and general publi, amilies. We have drawn on our network of 500 subject matter experts and a patient safety community of practice of 3,100 hospitals in 3,000 communities to tackle the Coronavirus Crisis. To join the Coronavirus Coronavirus Crisis. To join the Coronavirus Coronavirus Crisis. To join the Coronavirus Crisis Coronavirus Crisis. To join the Coronavirus Crisis Coronavirus Crisis. To join the Coronavirus Crisis Crisis. The first short video in the Basic Videos library below describes how you can participate, Join our free monthly 90 minute webinars for families of professional caregivers, essential workers, and the public. Click here to registed. Join our Community Intel Video Click Nets.

Coronavirus - Protecting You & Your Family

See the videos, answers to FAQs, and resources below. They will be continuously updated for the communities we serve



Bystander Rescue Care

Masks: The SCIENCE of Success

We have organized the videos below as BASIC VIDEOS to provide critical information quickly. For those who want more detail, view the ADVANCED VIDEOS. The source articles may be downloaded below.

BASIC MODULES

Why Social Distancing WORKS

Masks ARE Critical

Masks: The SCIENCE of Success

Hand Washing & DISINFECT

CLEAN High Contact Surface

The following ADVANCED MODULES address more comprehensive information you may wish to watch.

The medical and scientific articles are provided below the viewer.

ADVANCED MODULES

Preparing for CARE at Home

TELEMEDICINE Works - Try it

Care of Seniors & those AT-RIS

.....

Caraciusts Surf the Next Way

Coming Home Safe Webina



The following table provides resource articles and links to video assets that viewers may use and download to understand the science behind the best practices.



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



BASIC MODULES:

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



Preparing for CARE at Home

TELEMEDICINE Works - Try it

Care of Seniors & those AT-RISK

The Latest Best Practices

Caregivers Surf the Next Wave

Coming Home Safe Webinar

The New Normal Webina

Back to School Safely



ADVANCED MODULES:

- Longer more detailed
- Webinar Recordings
- **Technical Information**

Related Resources



Care of the At Risk & Seniors at Home

www.medtacglobal.org/coronavirus-response/

Survive & Thrive Guide Series: Coming Home Safely



Public & Work Exposure



Warm Zone

Disinfection Area





Safe Zone

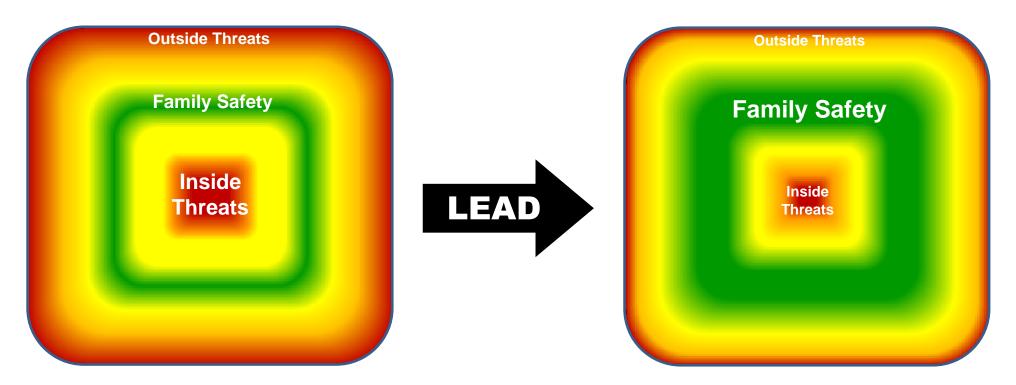
Home with Family



August 6, 2020



Family Survive & Thrive Guide: Keeping Our Kids Safe



August 03, 2020 CareUniversity Webinar #145



CareUniversity Series

Speakers & Reactors



Dr. Gregory Botz



Dr. B Owens



Heather Foster RN



Dr. C Peabody



David Beshk



Perry Bechtle III



Jennifer Dingman



Clair Peck



Jacqueline Botz



D Policichio



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John Little



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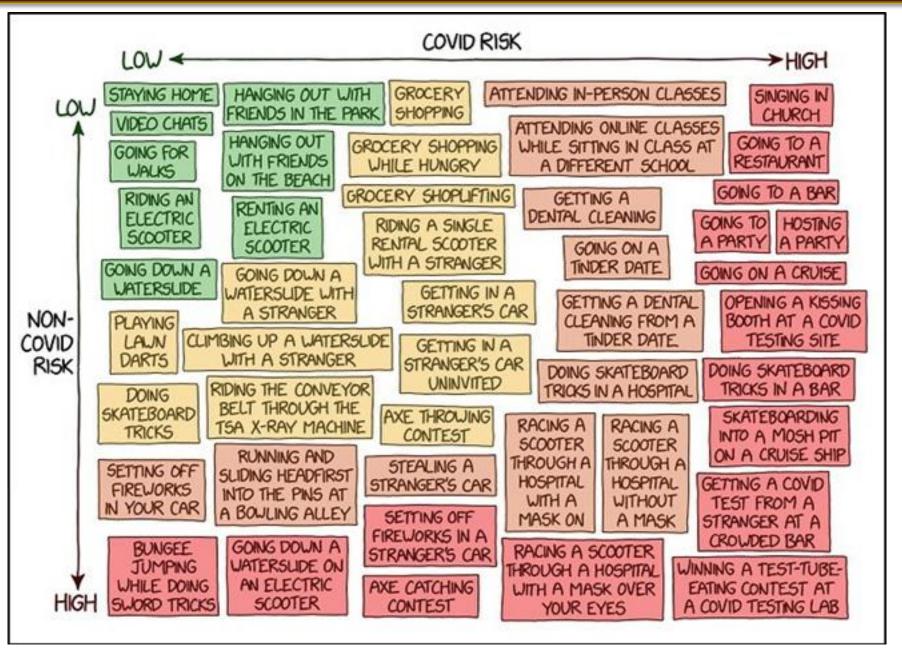


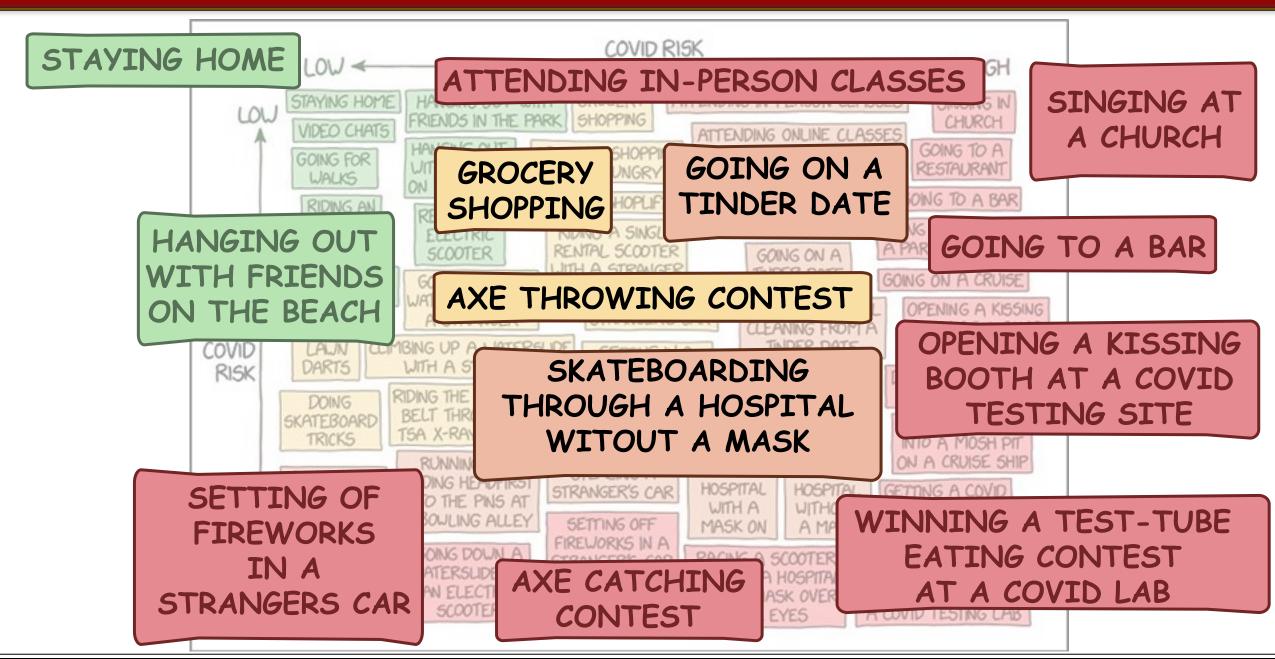
Dr. Charles Denham

Keeping Our Kids Safe

- What is the science behind the risk to your kids?
- Does risk vary for kids under 10, teens, and youth?
- What about our college students and young adults?
- What are the CDC school and college guidelines?
- What are the highest risk environments?
- Why are the indoors riskier than the outdoors?
- Are there best practices for play dates and sports?
- How can we safely return to the beach and pool?
- How do we get teens, those in their 20's, and 30's to take the lead in protecting our families?

Humor the Best Medicine











Our Discovery:

Family Training Works

- Saves Companies
- Saves Money
- Saves Liability
- Saves Capacity

THE UNIVERSITY OF TEXAS

MD Anderson Cancer Center





University of California San Francisco





August 29, 2020

10 Epidemiologists and Infectious Disease Experts On Whether They Are Sending Their Kids Back to School



Dr. Joshua Barocas - Infectious Disease Physician and Assistant Professor of Medicine at Boston University School



Tara Smith - Professor of Epidemiology at Kent State U. College of Public Health



Kimberly Powers - Associate Professor of Epidemiology at University of North Carolina Gillings School of Global Public Health



Dr. Alison Rustagi—resident physician at the UCSF Medical Center who has a Ph.D. in epidemiology



Lisa Bodnar—professor of epidemiology at the University of Pittsburgh



Lisa Bodnar—professor of epidemiology at the University of Pittsburgh



Jamie Lloyd-Smith—professor of ecology and evolutionary biology at the University of California, Los Angeles professor



Sandra Albrecht—assistant professor of epidemiology at Columbia University Mailman School of Public Health



Whitney Robinson—associate professor of epidemiology at University of North Carolina Gillings School of Global Public Health



Eyal Oren—associate professor of infectious disease and social epidemiology at the San Diego State University School of Public Health

Source: https://abcnews.go.com/US/university-notre-dame-battle-planrise-covid-19/story?id=72576408



August 29, 2020

10 Epidemiologists and Infectious Disease Experts On Whether They Are Sending Their Kids Back to School

- Most mentioned that the local community infection positivity rate was a major factor in the decision.
- Ongoing widespread, and sustained community transmission was identified as a major risk factor.
- They recognized the negative aspects of not sending the children to school.
- The importance of physical spacing, enforcing mask wearing, and outdoor education were addressed.
- They emphasized the precautions taken by the schools and the local community being taken.

"In interviews with TIME, 10 experts explained how they're trying to strike a delicate balance: between their children's academic and emotional needs; the risk to their communities; keeping their children and their families safe from the virus; and trying to preserve their own sanity and careers."

Source: Time Magazine August 29, 2020



August 12, 2020

Dr. Sanjay Gupta: Why I am not sending my kids back to school

- Largest Pediatric Study out of China:
 - 90% of children develop mild or moderate symptoms.
 - 4% were entirely asymptomatic.
 - 6% became severely or critically ill.
- 90 children in US Died by first week in August of Covid-19 according to American Academy of Pediatrics and Children's Hospital Association.
- South Korean Spread Study: widely cited showed that kids 10 to 19 were spreading the virus just as much as adults. They had highest rate of Covid-19 among household contacts. Under 10 spread half as much.

- Younger Children may carry larger amount of virus in their noses according to JAMA Pediatrics.
- Infections in children grew 90% in July and August even before schools opened.
- Nearly 25% of teachers at risk for serious disease due to age or underlying conditions.
- For schools to open safely the community new infection rate needs to be dropping and below 100 per 100,000 for 14 days.
- The positivity rate for testing needs to be low enough to indicate low risk for infection.
- MIS-C A Multi-system Inflammatory Syndrome was identified in 570 children in the US. 2/3rds did not have underlying conditions before diagnosis.

Source: CNN

Where are we?



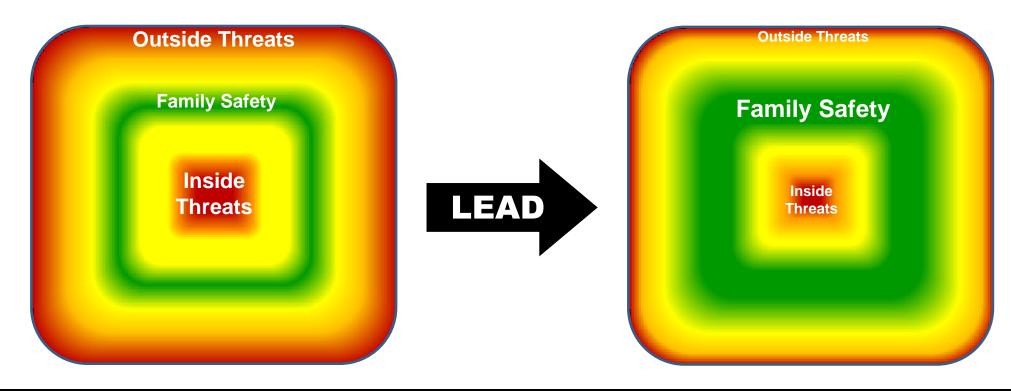
- 1 in 55 Americans have been infected as of Sept 1.
- The average person has less than 1% chance of dying from the virus. It is 6 times more lethal than the flu.
- People 85 years and older are 20 times more likely to die than those in their 50's.
- Over 60% of new infections under the age of 50 years.
- "Long Haulers" include people who have cardiac, neurological, and other organ system impact 60-90 days after infections. Most had no preexisting conditions.
- Children develop Multi-system Inflam. Syndrome MIS-C

- 1 in 3 adults and children who are hospitalized are admitted to the ICU.
- A fast-growing group of those infected are children.
- Those with diabetes are 3 times more likely to be hospitalized.
- Those who are obese are 3-4 times more likely to die than those with normal weight.
- Obesity was 40.0% among young adults 20-39 years, 44.8% among ages 40-59 years, and 42.8% among adults aged 60 and older.

How do we Keep Our Kids Safe?

ONLY POSSIBLE by keeping the "family unit" safe...

We have to BREAK FAMILY TRANSMISSION CHAINS...



Health Security: The Family Unit

PUBLIC HEALTH

FAMILY HEALTH



Versus



Tradeoffs for Population: Cost of Doing Business

You will pay more and do more to spare your family

YOU HAVE TO TAKE CHARGE NOW!

Source: C Denham

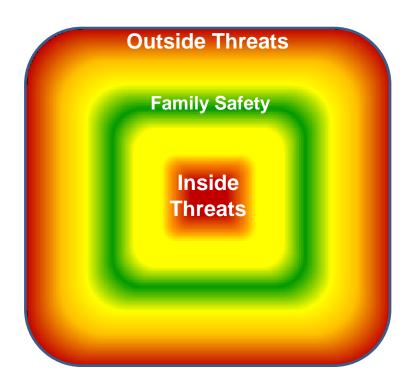
Threats X Vulnerability = Risk to Your Family

Threats:
Likely to
cause HARM.

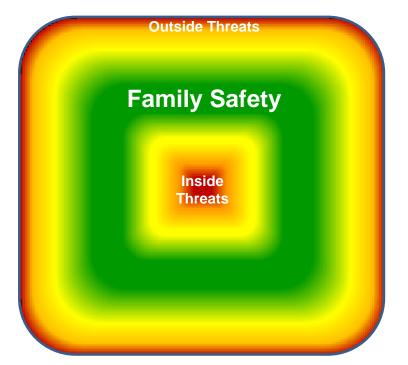
Vulnerability:
Weaknesses that can be
EXPLOITED by threats.

Risk:

PROBABILITY of harm by a threat exploiting vulnerability.

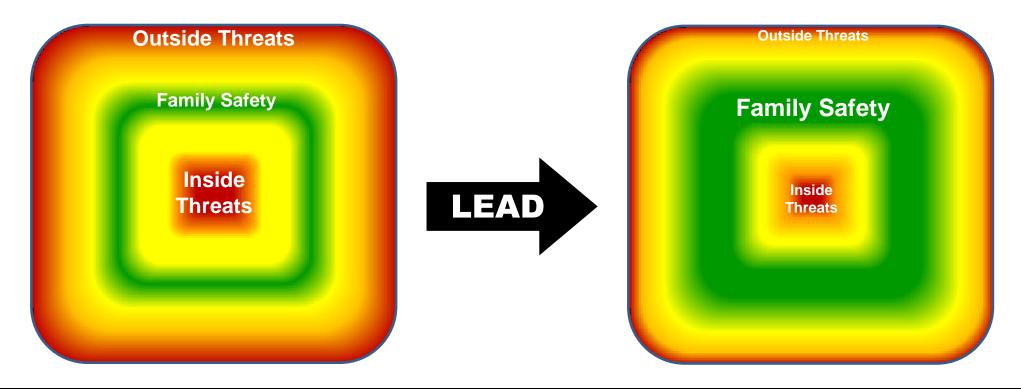






Threats X Vulnerability = Risk to Your Family

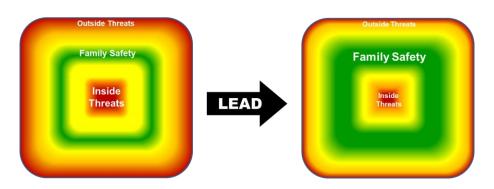
Our Goal: Reduce Risk of Family Harm by Reducing Vulnerability to Threats



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 Coronvirus 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

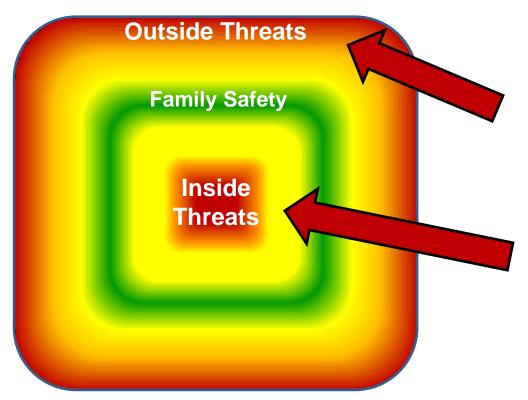
 A leader or leaders of the family act as the CFO – Chief Family Officer who drives the plan: Readiness, Response, Rescue, Recovery, and Resilience.

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.

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.

STEP 1: Identify Each Family Member Threat Profile













Pregnant Under 2 Years Moms

2 to 10 Years

10 to 30 Years

30 to 50 Years

50 to 65 Years

Over 65

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.

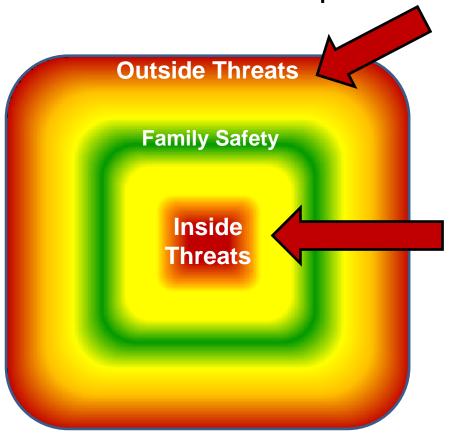
STEP 2: Identify and Follow Local Coronvirus Threats

OutsideThreats:

Inside versus 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.

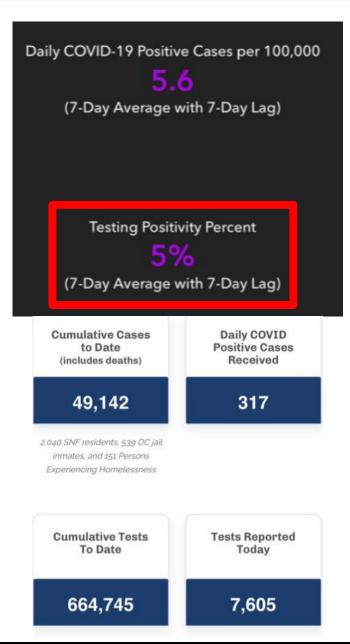
- Lack of Mask Use by all exposed to family.
- Community without adequate public health services including Test, Trace, Treat, Isolate, and Quarantine Programs.
- Critical Essential Infrastructure Worker Exposure bringing virus home to family.

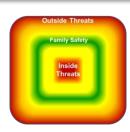


Inside Threats:

- 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.

Survive & Thrive Guide: Protecting Your Family





Example Family Threat Profile Orange County CA



Male over 65 years of age.



• Female in mid 50's with history of pulmonary infections & bronchitis.



 Mid-teen youth with recent cardiac surgery and hospitalizations for hyperimmune reactions to viral infections.



 Grandmother at 99 years of age in assisted living with history of lung disease.

STEP 3: Develop a Family Safety Plan

Reduce Vulnerability

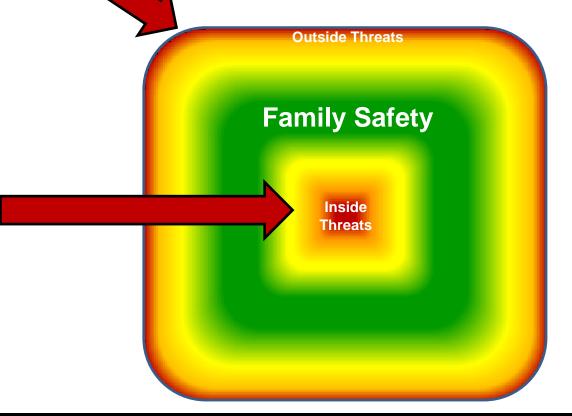
- Adjust behaviors depending on Background Community Infection and local infection trends.
- Base school decisions n Test, Trace,
 Treat, Isolate, and Quarantine Programs.
- Avoid Group Activities and Sports without Proper Social Distancing.

nerability to OutsideThreats:

- Assure Mask Use by all exposed to family
- Monitor public health services including Test, Trace, Treat, Isolate, and Quarantine Programs and adjust behavior to it.
- Assure Critical Essential Infrastructure Workers reduce bringing virus home.

Reduce Vulnerability to OutsideThreats:

- Produce a Medical Care Emergency Plan for the Children and Adults (5 Rights of Emergency Care).
- Safely see Pediatricians to maintain Vaccines.
- Combat depression in Children with activities
- Protect Immune Compromised Children .
- Protect Adults with underlying at-risk illnesses.
- Protect Seniors over 65 years of age.
- Safely Pursue Regular Screening for Adults.
- Weigh Risks for Elective Medical Procedures.
- Assure Nutrition for children and adults in isolation.
- Pursue Regular Exercise during isolation/quarantine.
- Inadequate Disinfection of Hi Contact Surfaces.



STEP 3:

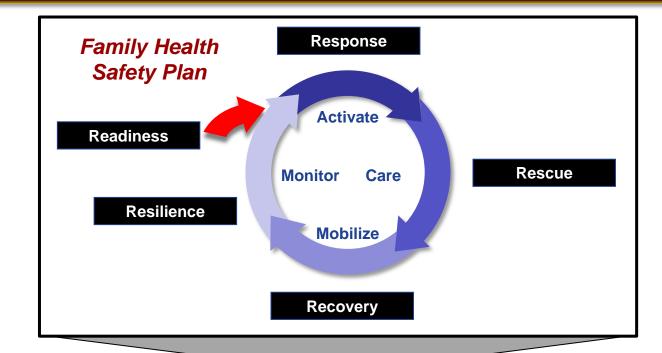
Develop a Family Safety Plan

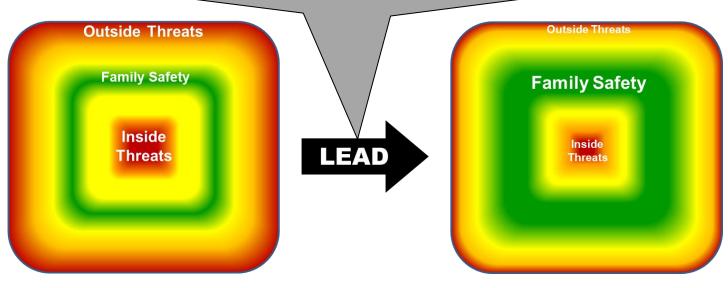
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Plan the Flight and Fly the Plan

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Coronavirus Care Community of Practice

Bystander Rescue Care CareUniversity Series

Caregiver and Educator Panel



Dr. Gregory Botz



Dr. B Owens



Heather Foster RN



Dr. C Peabody



David Beshk



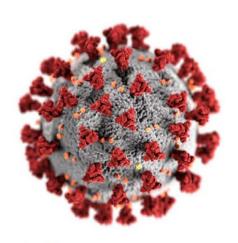
Dr. Charles Denham **Moderator**





Gregory Botz MD

Critical Care Physician
Professor University of Texas
Professor Stanford Medical
College

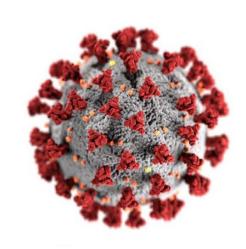






Dr. Brittany Owens

Community Pediatrician Practicing in Philadelphia

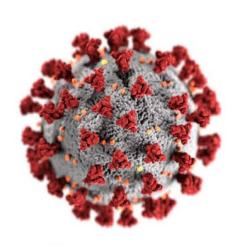






Heather Foster, RN

Practicing Nurse Infection Preventionist Patient Safety Expert



Why Social Distancing WORKS

Masks ARE Critical

Masks: The SCIENCE of Success

Hand Washing & DISINFECTANTS

CLEAN High Contact Surfaces

Building a FAMILY SAFETY PLAN

If we NEED Emergency Care

Why ICU, Respirators, and ECMO

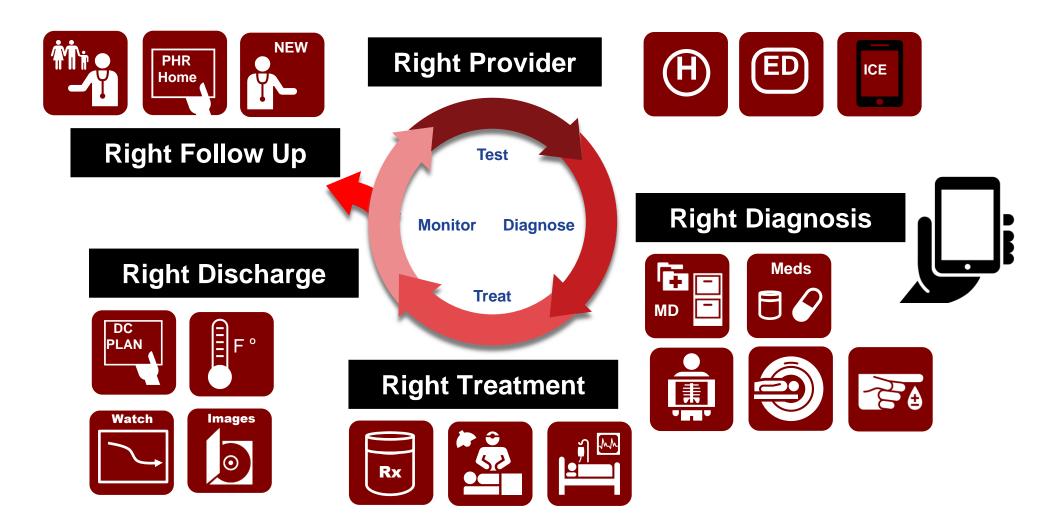


Dr. Christopher Peabody

Discusses the new challenges when bringing a loved one to the Emergency Department



The 5 Rights of Emergency Care®

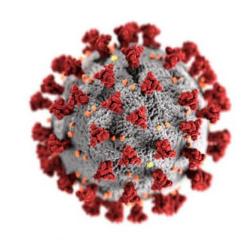






David Beshk

Award Winning Educator
Med Tac School
Program Leader
Scout Program Mentor
San Juan Capistrano, CA



The Family Plan: Learning as a Family





Who is the CFO?

The Family CFO: The Chief Family Officer

RUTH

What do you want them to **KNOW**?

The Science of Spread and Safety.



HEAD

RUST

What do you want them to **FEEL**?

The Fight for Life for your loved ones.



HEART

EAMWORK

What do you want them to DO?

Plan the Work & Work the Plan



HANDS

RAINING

What do you want them to SAY?

All Teach All Learn



VOICE

Why Social Distancing WORKS

Masks ARE Critical

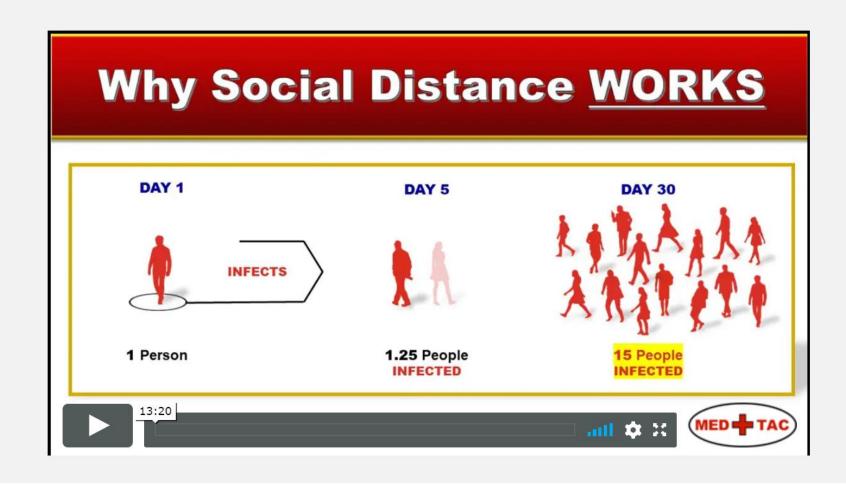
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Why Social Distancing WORKS

Masks ARE Critical

Masks: The SCIENCE of Success

Hand Washing & DISINFECTANTS

CLEAN High Contact Surfaces

Building a FAMILY SAFETY PLAN

If we NEED Emergency Care



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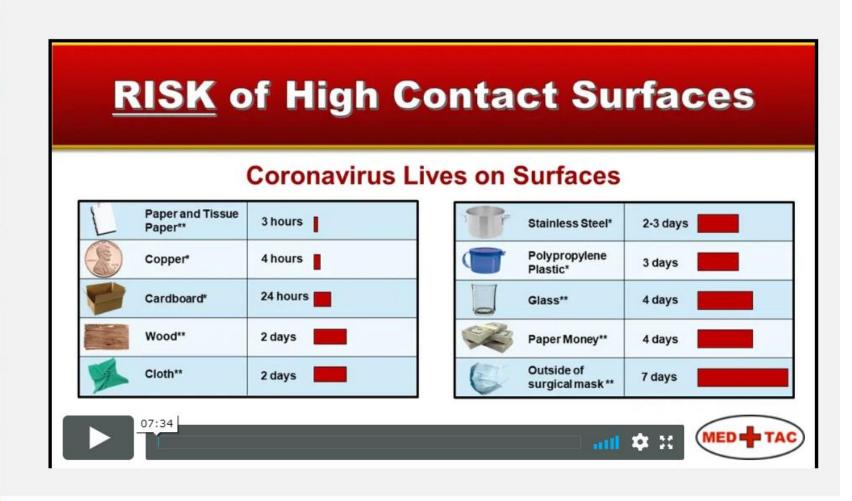
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August 19, 2020

Here's what happened when students went to school during the 1918 pandemic



While the vast majority of cities closed their schools, three opted to keep them open --New York, Chicago and New Haven, according to historians. Research showed that cities who implemented quarantining and isolation, school closures and bans on public gatherings fared the best, he said. "The cities that did more than one" of these measures "did better. School closures were part of that contribution,

Source: https://www.cnn.com/2020/08/19/us/schools-flu-pandemic-1918-trnd/i

theguardian



August 11, 2020

Dying young: the healthcare workers in their 20s killed by Covid-19



While the vast majority of cities closed their schools, three opted to keep them open -- New York, Chicago and New Haven, according to historians. Research showed that cities who implemented quarantining and isolation, school closures and bans on public gatherings fared the best, he said.

"The cities that did more than one" of these measures "did better. School closures were part of

that contribution," Markel said.



September 3, 2020

Colleges Ask Students to Leave Campus amid COVID-19 Outbreaks, but Experts Advise the Opposite





Source: ABC News Sept 3, 2020



Coronavirus Care Community of Practice Bystander Rescue Care CareUniversity Series

Survive & Thrive Guide Masks: The SCIENCE of Success

Charles Denham II MD

This article is a narrative summary of the short film entitled Masks: The SCIENCE of Success posted on the Med Tac Global website that provides access to free films and resources to families of the Essential Critical Infrastructure Workers of sixteen industry sectors and the general public.1







N95 Mask

Surgical Mask

Cloth Mask

"It is critical that we all take the personal responsibility to slow the transmission of COVID-19 and embrace the universal use of face coverings"

Dr. Robert Redfield, CDC Director

"There is no doubt that wearing masts protects you and gets you to be protected"

Dr. Anthony Fauci, National Institute of Allergy and Infectious Diseases Director

"We need to support mask wearing when I'm not in uniform I wear them their white they were very effective, and I think there are a great investment for the American people"

Admiral Brett Giroir, Assistant Secretary Health and Human Services

"It is not an inconvenience it is not a suppression of your freedom"

Dr. Jerome Adams U.S. Surgeon General "When you're outside and not have the capability of maintaining distance, you should wear a mask at all times"

> Dr. Anthony Fauci, National institute of Allergy and Infectious Diseases Director

This face covering actually is an instrument of freedom for Americans if we all use it.

> Dr. Jerome Adams U.S. Surgeon General

"Wear facial coverings were social distancing is not possible."

Dr. Alex Azar Secretary Health and Human Services

"Please... please... please... wear a face covering when you go out in public"

Dr. Jerome Adams U.S. Surgeon General

Mask Facts & Fiction

TRUE or FALSE?

· Scientists are NOT in Agreement on Mask Use

· Masks ONLY protect the public and not the Wearer

· The Mask FIT impacts mask protection

Masks can HARM the wearer
 ALL masks with good fit have equal protection

Denhare, CR Caretitiversity Series, 07-18-30

1 of

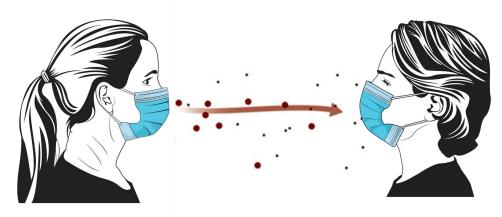
Survive & Thrive Guide: Masks: The SCIENCE of Success

Mask Facts & Fiction

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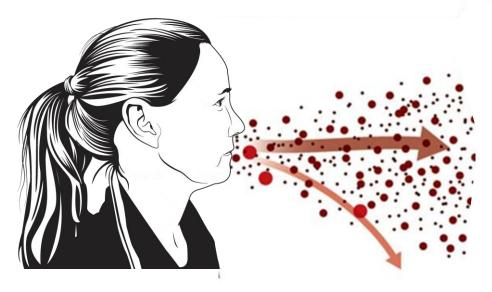
Dramatically Reduced Risk



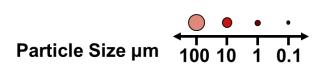
Best Solution – All Wear Masks N95 for Caregivers, Surgical Best for Consumers. Next Best Cloth – All are of Value

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.



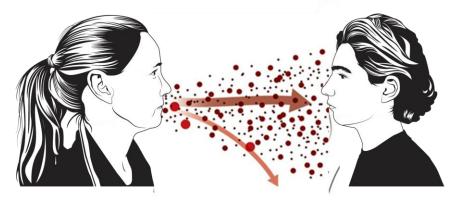
AEROSOLS are smaller will evaporate faster than they can settle, are buoyant, and thus can be affected by air currents, which can transport them over longer distances.



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

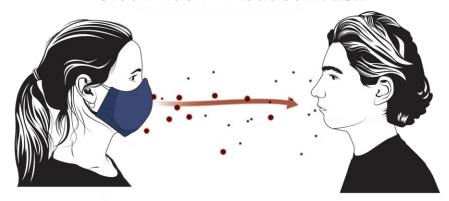
TMIT Global: Effectiveness of Masks

No Mask – Extreme Risk



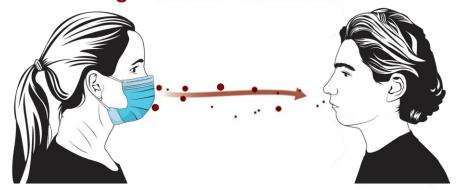
15 minutes within 6 feet = "High Risk"

Cloth Mask - Reduced Risk



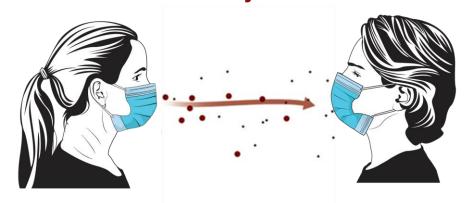
2 Layer Cloth Mask Reduces Exhaled and Inhaled Droplets by 60%

Surgical Mask – Reduced Risk



Surgical Mask Reduces
Exhaled Droplets Reduced by 99%
and Inhaled Droplets by 75%

Dramatically Reduced Risk



Best Solution – All Wear Masks N95 for Caregivers, Surgical Best for Consumers. Next Best Cloth – All are of Value

Multiple Articles on Inflammation of the **Heart in College Athletes: Questions**



Earliest articles quoted Penn State leaders: "When we looked at our COVID-positive athletes, whether they were symptomatic or not, 30 to roughly 35 percent of their heart muscles are inflamed ... and we really just don't know what to do with it right now. It's still very early in the infection. Some of that has led to the Pac-12 and the Big Ten's decision to sort of put a hiatus on what's happening".

Follow Up Articles report the incidence as a lower percentage. The community is awaiting more answers to the question of cardiac inflammation. It will be important to wait for

Source: CNN being ft be peer-reviewed medical articles in

Coronavirus Care Community of Practice

CareUniversity Series

Youth & Young Adult Panel



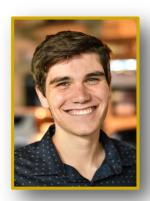
Perry Bechtle III
Moderator



Clair Peck



Jacqueline Botz



Jaime Yrastorza



Paul Bhatia EMT



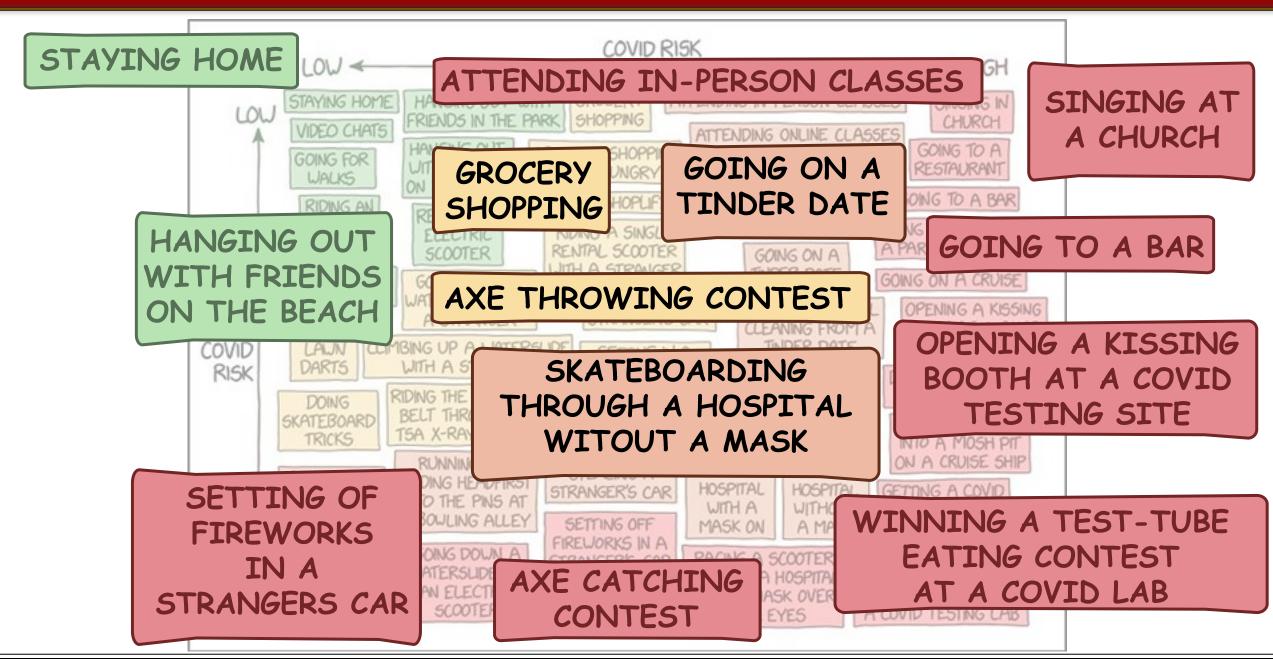
D Policichio



Charlie Denham III



Preston Head III



The 4 A's of Innovation Questions

 Awareness: Being aware of being part of the problem as super spreaders and being aware that they could be part of the solution.

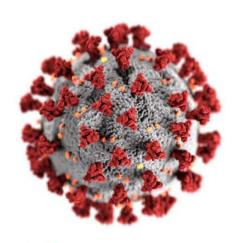
- Accountability: Personal accountability for becoming part of the solution
 is there a leadership opportunity for youth and young adults?
- Ability: Being able to have impact rests on the concepts, tools, and resources. Is there an opportunity for storytelling, film, and media?
- Action: What line of sight actions young adults can take to help solve the problem and address their role in the spread of the virus.





Perry Bechtle III

University of Florida Senior
Pre-Med Student
Med Tac Master Instructor
Eagle Scout and Eagle Team Lead

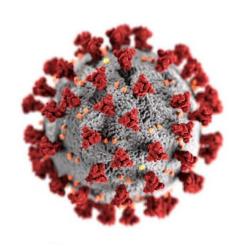






Clair Peck

NYU Sophomore
Film Student
Med Tac Production
Team Member

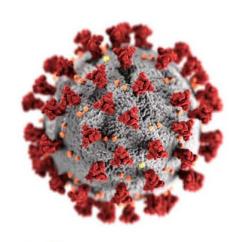




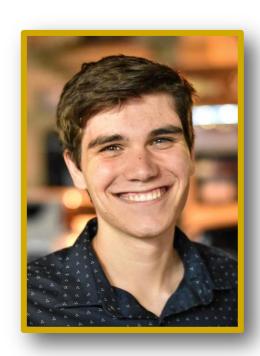


Jacqueline Botz

Chapman University
Sophomore
Theatrical Arts Student
Med Tac Program Intern

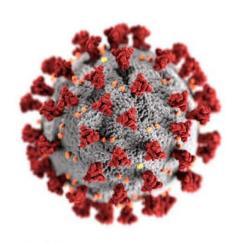






Jaime Yrastorza

Graduate UCSD Pre-Med Student Med Tac College Team

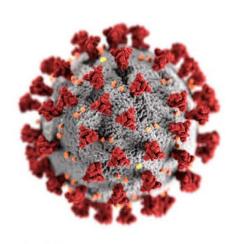




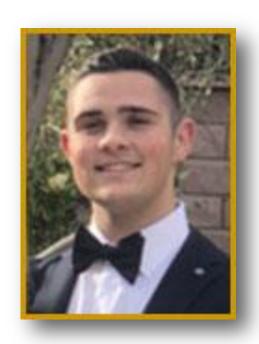


Paul Bhatia, EMT

UCI Pre-Med Student
EMT
President UCI EMT Association
Med Tac Instructor

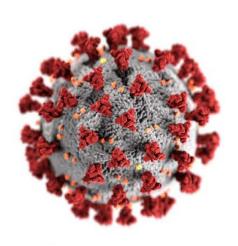






Danny Policichio

NYU Film Student Producer Med Tac Bystander Rescue Program Films

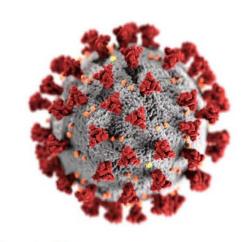






Charles R Denham III

Co-founder Med Tac Bystander Rescue Program Junior Med Tac Instructor Co-lead Med Tac Surf & Lifeguard Program

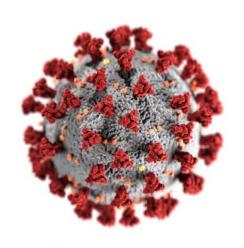




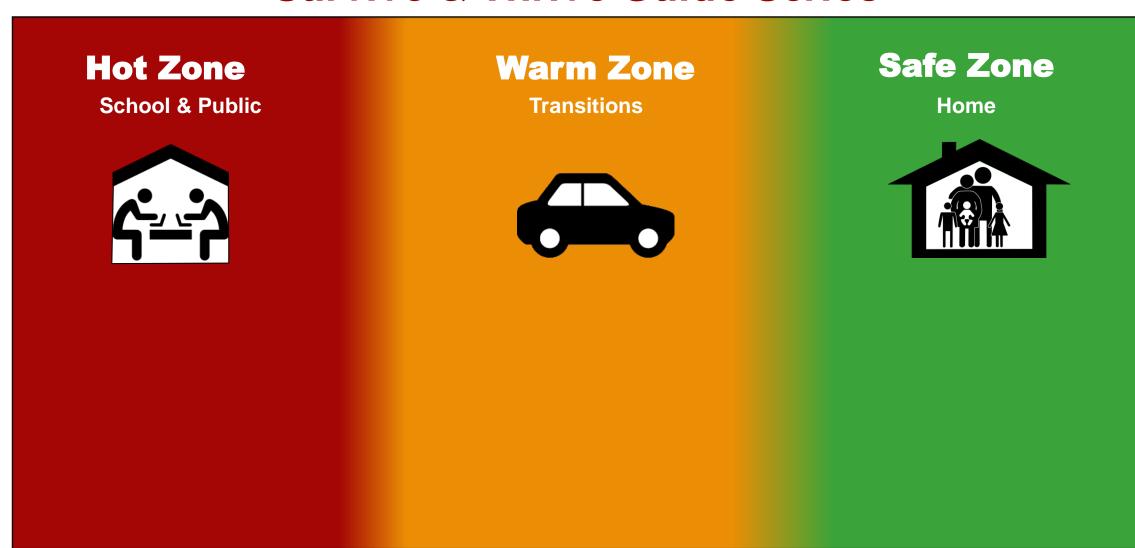


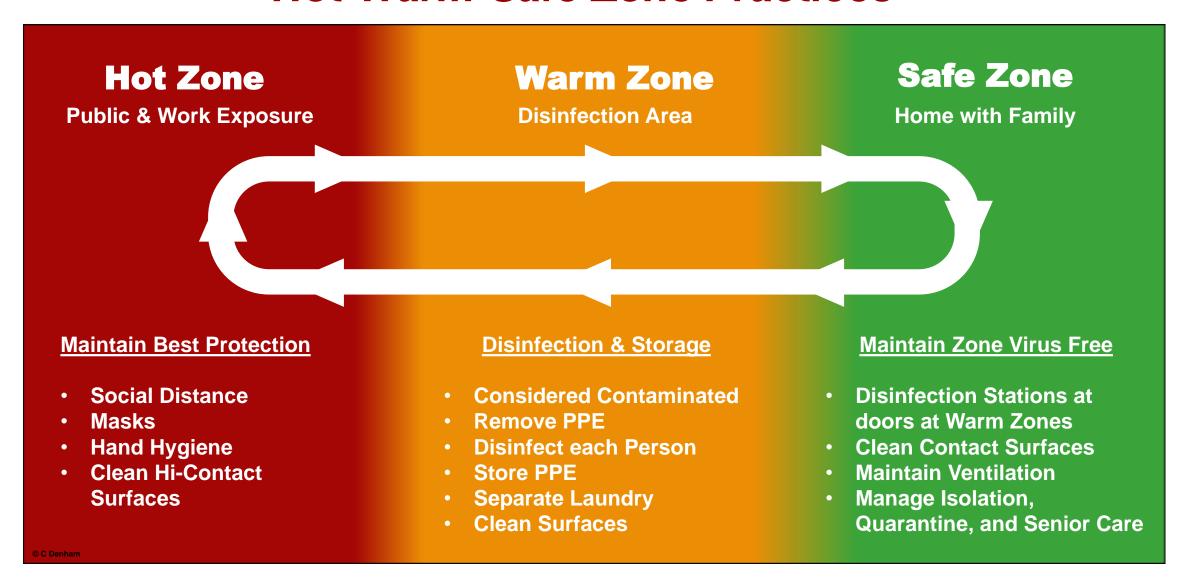
Preston Head III

Master Med Tac Instructor Co-founder Med Tac Surf & Lifeguard Program



Survive & Thrive Guide Series





Hot Zone Public & Work Exposure Maintain Best Protection Social Distance Masks **Hand Hygiene** Clean Hi-Contact Surfaces

HOT ZONE PRACTICES

- Social Distance 6 Feet is a MINIMUM
- Handwashing is poor even in caregivers 20 sec
- Avoid Poorly Ventilated Spaces
- Don't Touch Face Masks or the Face
- Be gracious but firm when others invade your space
- It is critical to know how to put on and take off Personal Protective Equipment (PPE). Called "Don and Doff" in healthcare jargon.
- Whenever in doubt, wash your hands.
- Know the process for reporting outbreaks.
- "Exposure to Infected" is being within 6 FEET OF INFECTED FOR LONGER THAN 15 MINUTES.

WARM ZONE Leaving Hot Zone Practices

- Disinfect before getting in car.
- Contain Contaminated Materials
- Wipe Down Car Door Handles and contact surfaces if car is warm zone.
- If Car is WARM ZONE: It must be considered contaminated.
- Be ready to store contaminated gear in your car if you must.

WARM ZONE Joining Hot Zone Practices

- Assure your mask has good fit.
- Practice no mask or face touching
- If contaminated wash hands.
- Know the rules of the workplace or public venue.

© C Denham

Warm Zone Disinfection Area

WARM ZONE Coming Home Practices

- Designate WARM ZONE room or space for disinfecting,
- Assemble & Maintain Disinfection Station with cleaning supplies.
- Keep the family out of WARM ZONE
- Increase precautions if someone is in quarantine or isolation.

WARM ZONE Leaving Home Practices

- New or Cleaned masks, gloves, face shields and coverings.
- Bring disinfectants in your car or your gear.
- Bring extra masks if you have them.

SAFE ZONE PRACTICES

- Establish and maintain disinfection stations at doors.
- Regularly clean high contact surfaces.
- Prevent people or parcels from bringing the virus home.
- If possible, keep rooms well ventilated.

Care of Someone At Home

- Getting your "MacGyver On" Use what you have.
- Whether the flu or Coronavirus use same processes.
- Isolation is for all those who are infected or sick.
- The infected NEED to wear masks. Social distance and hand hygiene are important. Surfaces ARE a risk.
- Quarantine is for who may be infected assume infected until end of quarantine period or test negative.

Safe Zone Home with Family Maintain Zone Virus Free Disinfection Stations at doors at Warm Zones **Clean Contact Surfaces** Maintain Ventilation Manage Isolation, Quarantine, and Senior Care



Coronavirus Care Community of Practice

CareUniversity Series

Speakers & Reactors



John Tomlinson



Perry Bechtle III



Randal Styner



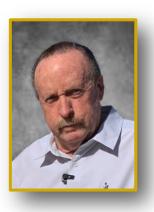
David Beshk



Keith Flitner



Heather Foster RN



John Little



Dr. Charles Denham

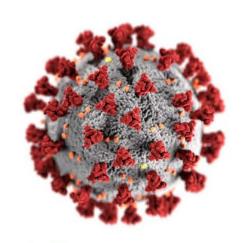


Keeping our Kids Safe Family Survive & Thrive GuideThe state of the state of



John Tomlinson JD MBA

Scout Troop Committee Chair Med Tac Adopt a Cove Program Partner Community Leader



Tomlinson Home Isolation Chamber









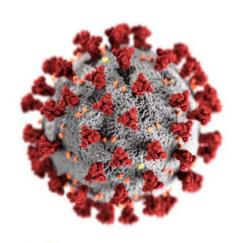


Keeping our Kids Safe Family Survive & Thrive GuideThe state of the state of



Randy Styner

Emergency Management Director UCI Police Department Assistant Scout Master

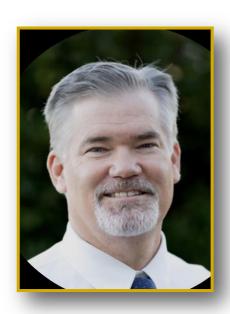


Return to Scouting Safely



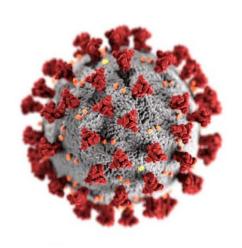


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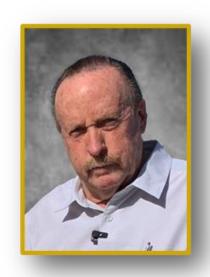
Keith Flitner

Aerospace Engineer Scout Leader Eagle Scout



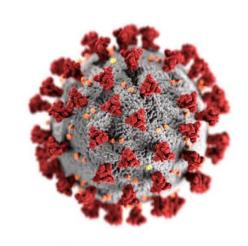


Keeping our Kids Safe Family Survive & Thrive GuideThe state of the state of



John Little

Paramedic
Faith-based Security and
Medical Leader
Med Tac Master Instructor





New Interactive Database by KFF's Kaiser Health News and Guardian US Reveals More Than 900 Health Care Workers Have Died in the Fight Against COVID-19 in the U.S.

Many Were Unable to Access Adequate Personal Protective Equipment, and People of Color Account for a Disproportionate Share of Deaths Among Those Profiled So Far

Key themes have emerged from the lives and deaths of the 167 workers whose profiles are in the database so far, including:

- At least 52 (31%) had inadequate personal protective equipment (PPE).
- At least 103 (62%) were identified as people of color.
- Sixty-four (38%) were nurses, the largest single group, but the total also includes physicians, pharmacists, first responders and hospital technicians, among others.

- Ages ranged from 20 to 80, with 21 people (13%) under 40, including eight (5%) under 30. Seventy-seven people or 46% were 60 or older.
- At least 53 workers (32%) were born outside the U.S., including 25 (15%) from the Philippines.

Exclusive stories by the project reporters have revealed that many health care workers are using surgical masks that are far less effective and have put them in jeopardy.

Source: https://www.kff.org/coronavirus-covid-19/press-release/new-interactive-database-by-kffs-kaiser-health-news-and-guardian-us-reveals-more-than-900-health-care-workers-have-died-in-the-fight-against-covid-19-in-the-u-s/



Healthcare Worker Deaths from COVID-19



theguardian



Source: https://www.theguardian.com/us-news/ng-interactive/2020/aug/11/lost-on-the-frontline-covid-19-coronavirus-us-healthcare-workers-deaths-database



Healthcare Worker Deaths from COVID-19

OUT KEY FINDINGS OUR REPORTING METHODOLOGY SUBMIT A NAME





US healthcare worker deaths are under investigation by the Guardian and KHN.

Did they have to die?















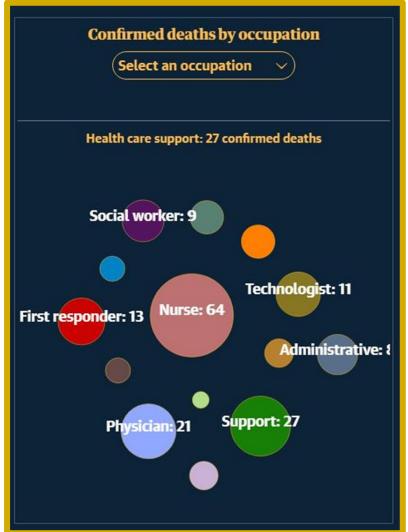


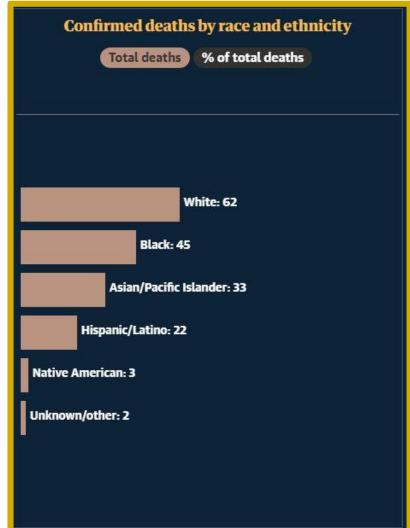
As of 11 August, our journalists have profiled **167** health workers and included them in our database. Read their stories below.

Source: https://www.theguardian.com/us-news/ng-interactive/2020/aug/11/lost-on-the-frontline-covid-19-coronavirus-us-healthcare-workers-deaths-database



Healthcare Worker Death Breakdown







Source: **INSERT**



August 11, 2020

American Academy of Pediatrics



There has been a 90% increase in Covid-19 cases in US children in the last four weeks, report says

There has been a 90% increase in the number of Covid-19 cases among children in the United States over the last four weeks, according to a new analysis by the American Academy of Pediatrics and the Children's Hospital Association that will be updated weekly. Dr. Sean O'Leary, vice-chair of the American Academy of Pediatrics Committee on Infectious Diseases, told CNN's Anderson Cooper on Monday that coronavirus cases in children should be taken seriously.

"It's not fair to say that this virus is completely benign in children," said O'Leary. "We've had 90 deaths in children in the US already, in just a few months. Every year we worry about influenza in children, and there are roughly around 100 deaths in children from influenza every year."

Testing, Isolation, and Quarantine for Children



Coronavirus Disease 2019 (COVID-19)

August 19, 2020

Prioritization for Testing: Close Contact with SARS-CoV-2 confirmed infection

Accessed 08-30-20

Testing, Isolation, and Quarantine for School-Aged Children

As children return to school and other in-person activities, pediatric healthcare providers should be prepared to answer questions from families about testing and when it is safe to return to school or be with people outside the household. Review CDC's information for school administrators on <u>symptom screening</u> and <u>testing</u> for children in school as well as CDC's <u>Community Mitigation framework</u>.

School-aged children should be prioritized for viral testing if they have:

- Signs or symptoms of COVID-19 and
 - <u>close contact</u> (within 6 feet of someone for a total of 15 minutes or more) with a person with laboratory confirmed or probable SARS-CoV-2 infection **or**
 - increased likelihood for exposure (which includes living in or traveling to a community with <u>substantial</u> <u>transmission</u> as defined by the local public health department and described in CDC's <u>Community</u> <u>Mitigation framework</u>)
- No symptoms but have had <u>close contact</u> (within 6 feet of someone for a total of 15 minutes or more) with a person with laboratory confirmed or probable SARS-CoV-2 infection.

Children with symptoms of an infectious disease should not attend school, but the length of time the child should stay home depends on the most likely etiology of illness (COVID-19 or not). Return to school policies for children with COVID-19 should be based on CDC's recommendation for <u>discontinuation of home isolation</u>. A negative test or doctor's note should **not** be required for return to school upon completion of the 10 days of isolation with improvement of symptoms.

Source: www.cdc.gov/coronavirus/2019-ncov/hcp/pediatric-hcp.html

Testing, Isolation, and Quarantine for Children



Coronavirus Disease 2019 (COVID-19)

August 19, 2020

- Hospitalization is 8.0 per 100,000 for children, however increasing.
- Adults 164.5 per 100,000.
- 1 in 3 children admitted to ICU same as adults.
- Severe illness includes multi-organ system failure.
- MIS-C is multisystem inflammatory syndrome: cardiac, renal, respiratory, hematologic, GI, derm. or neurological. (2 or more)

Accessed 08-30-20

Severity of Illness in Children

While children infected with SARS-CoV-2 are less likely to develop severe illness compared with adults, children are still at risk of developing severe illness and complications from COVID-19. Recent COVID-19 hospitalization surveillance data shows that the rate of hospitalization among children is low (8.0 per 100,000 population) compared with that in adults (164.5 per 100,000 population), but hospitalization rates in children are increasing. While children have lower rates of mechanical ventilation and death than adults, 1 in 3 children hospitalized with COVID-19 in the United States were admitted to the intensive care unit, which is the same in adults.

Current evidence suggests that children with certain underlying medical conditions and infants (age <1 year) might be at increased risk for severe illness from SARS-CoV-2 infection. Of the children who have developed severe illness from COVID-19, most have had underlying medical conditions.

- There is <u>limited evidence</u> about which <u>underlying medical conditions</u> in children might increase the risk for severe illness. Current evidence suggests that children with medical complexity, with genetic, neurologic, metabolic conditions, or with congenital heart disease might be at increased risk for severe illness from COVID-19. Similar to adults, children with obesity, diabetes, asthma and chronic lung disease, sickle cell disease, or immunosuppression might also be at increased risk for severe illness from COVID-19.
- While healthcare providers should maintain a high index of suspicion for SARS-CoV-2 infection in these populations and monitor the progression of illness closely, it appears that most infants¹⁸ and children with certain underlying conditions such as cancer¹⁹ who are infected with SARS-CoV-2 do not usually develop severe illness.
- Hospitalization rates in the United States are higher among Hispanic/Latino children and black, non-Hispanic children and non-Hispanic black children compared with white children, which may be related to the higher rates of obesity and other underlying conditions among these populations.⁵

Similar to adults, children with severe COVID-19 may develop respiratory failure, myocarditis, shock, acute renal failure, coagulopathy, and multi-organ system failure. Some children with COVID-19 have developed other serious problems like intussusception or diabetic ketoacidosis. ^{10,14, 20,21} Children infected with SARS-CoV-2 are also at risk for developing multisystem inflammatory syndrome in children (MIS-C). ²² For the case definition, recommended evaluation, and current data on MIS-C cases in the United States, visit MIS-C Information for Healthcare Providers.

Source: www.cdc.gov/coronavirus/2019-ncov/hcp/pediatric-hcp.html

TEST, TRACE, TREAT, QUARANTINE, and ISOLATE







TEST for COVID & AB

TRACE Contacts

TREAT Infected Early

ISOLATE the Infected

QUARANTINE those At Risk

Keeping Our Kids Safe

- What is the science behind the risk to your kids?
- Does risk vary for kids under 10, teens, and youth?
- What about our college students and young adults?
- What are the CDC school and college guidelines?
- What are the highest risk environments?
- Why are the indoors riskier than the outdoors?
- Are there best practices for play dates and sports?
- How can we safely return to the beach and pool?
- How do we get teens, those in their 20's, and 30's to take the lead in protecting our families?



Coronavirus Care Community of Practice

CareUniversity Series

Speakers & Reactors



Dr. Gregory Botz



Dr. B Owens



Heather Foster RN



Dr. C Peabody



David Beshk



Perry Bechtle III



Jennifer Dingman



Clair Peck



Jacqueline Botz



D Policichio



Jaime Yrastorza



Paul Bhatia EMT



Charlie Denham III



Preston Head III



Randal Styner



Keith Flitner



John Little



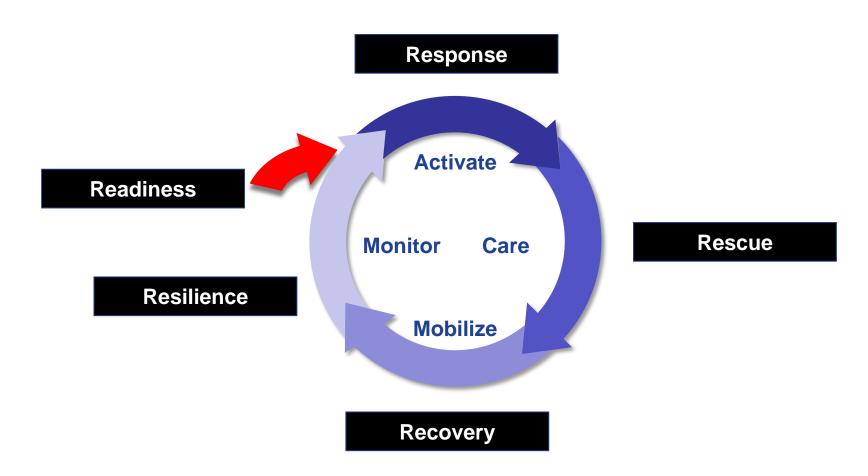
John Tomlinson



Dr. Charles Denham



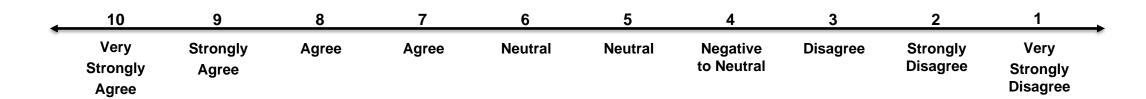
Family Health Safety & Organization Security Plans[™]



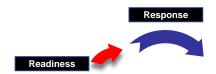


READINESS

My family is ready to take care of a loved one with Coronavirus in our home.

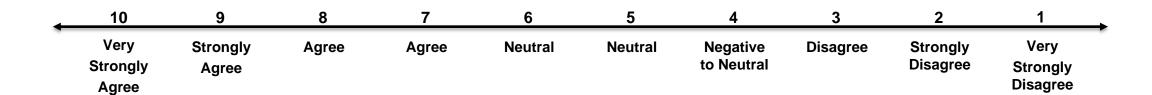


What readiness information would you like to have?

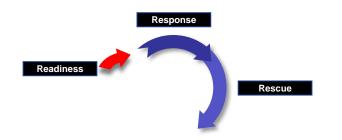


RESPONSE

My family knows what actions to take if a loved one becomes infected with Coronavirus.

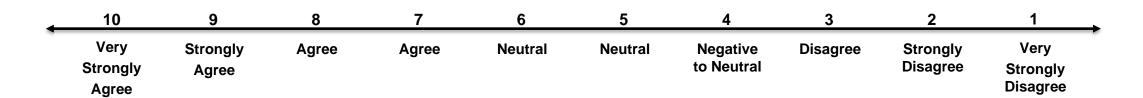


What information would help you respond when a loved one becomes infected?

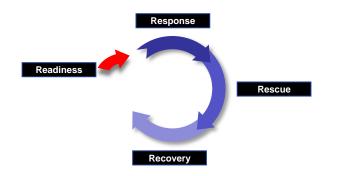


RESCUE

My family knows what do when someone develops severe COVID-19 symptoms.

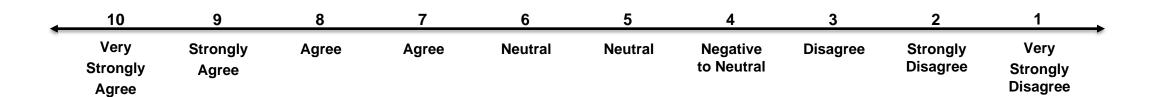


What information would help your family react if someone develops severe symptoms?



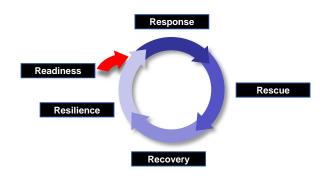
RECOVERY

My family has a safety plan to return to work and play when the Coronavirus social restrictions are relaxed.

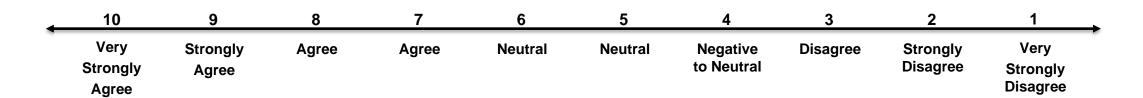


What information would help your family return to the new normal?

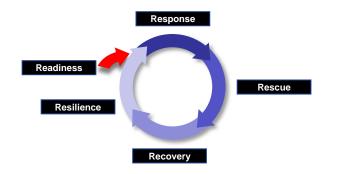




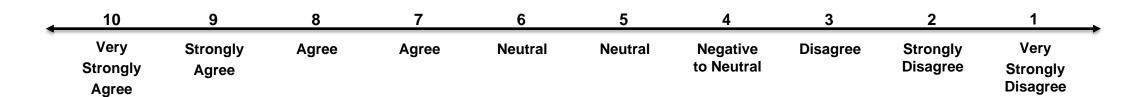
My family has a plan to make them less vulnerable to epidemics in the future.



What information would help you become more resilient in the future?



Changing behaviors of teens and young adults is key to beating the Coronavirus Crisis.



My suggestions to help making teens and young adults leaders in becoming part of the solution are:



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

