

Family Survive & Thrive Guide: The Latest Best Practices

July 02, 2020 CareUniversity Webinar #141

For resource downloads go to:

www.MedTacGlobal.org



Welcome



Charles Denham, MD

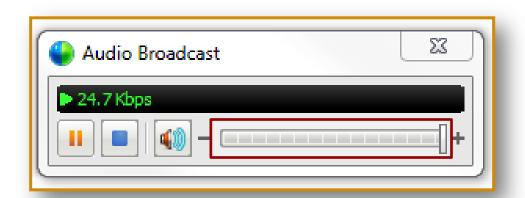
Chairman, TMIT Global Founder Med Tac Bystander Rescue Care

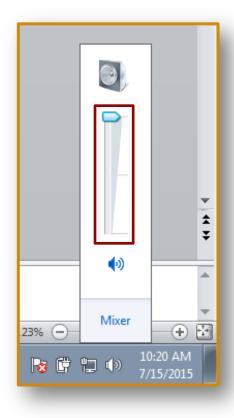
Med Tac Bystander Rescue Care July 02, 2020

CareUniversity Webinar #141



Bystander Rescue Care CareUniversity Series





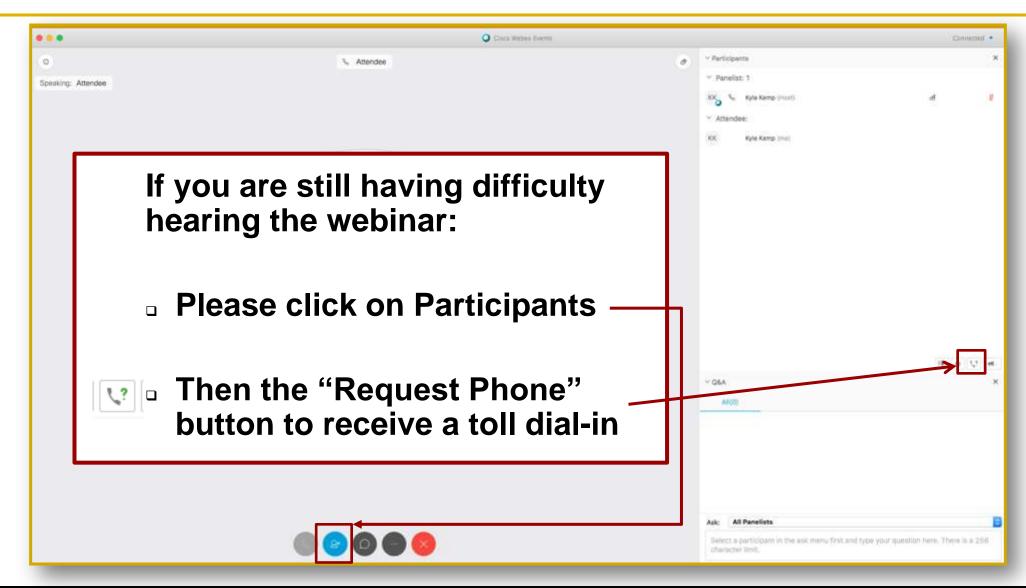


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- WebEx volume
- Computer volume
- **External speaker volume**



CareUniversity Series





EMERGING THREATS
COMMUNITY OF PRACTICE

CAREUNIVERSITY®

Our Purpose Statement

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.



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 medication or device companies discussed in their presentations.

- Casey Clements, MD, PhD, describes himself as a 'recovering researcher' who now works on evidence based practice change and implementation. As Associate Practice Chair of Emergency Medicine at Mayo Clinic, he focuses on multidisciplinary and interdepartmental improvement projects in Rochester and across the Midwest. His first love and academic focus remains sepsis, emergency infection, and critical care. As director of the Mayo Clinic ED Sepsis Program and primary investigator of the Mayo ED Sepsis Biobank, Dr. Clements has led and participated in the last five improvement projects surrounding sepsis at Mayo. Currently, he is working on diffusion and advocacy with national organizations to improve systems surrounding sepsis outcomes and metrics. He has nothing to disclose.
- Gregory H. Botz, MD, FCCM, is a professor in the Department of Critical Care at the UT MD Anderson Cancer Center. He received his medical degree from George Washington University School of Medicine in Washington, DC. He completed an internship in internal medicine at Huntington Memorial Hospital and then completed a residency in anesthesiology and a fellowship in critical care medicine at Stanford University in California. He also completed a medical simulation fellowship at Stanford with Dr. David Gaba and the Laboratory for Human Performance in Healthcare. Dr. Botz is board-certified in anesthesiology and critical care medicine. He is a Fellow of the American College of Critical Care Medicine. He has nothing to disclose.
- Christopher R. Peabody, MD, MPH is a practicing Emergency Physician in California and Clinical Instructor at the University of California, San Francisco. He is also the Director of the UCSF Acute Care Innovation Center, an initiative of the UCSF Department of Emergency Medicine, which develops novel ways to deliver Emergency and Acute Care reliably and safely by developing new technology and validating best practices. He has nothing to disclose.
- David Beshk is an award-winning educator and developer of many powerful and impactful programs in STEM and other areas such as 3D printing and international collaboration of students. He is the lead
 educator in development of the Med Tac After School and Summer School program and a key advisor regarding design of child appropriate training of lifeline behaviors for high impact care hazards. He has led,
 taught, and refined multiple school programs and was responsible for the first life saved through Med Tac before the first class graduated. He has nothing to disclose
- Jennifer Dingman has nothing to disclose.
- Heather Foster has nothing to disclose.
- Charles Denham, MD, is the Chairman of TMIT; 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.





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Speakers & Reactors



Dr. Gregory Botz



Casey Clements



Christopher Peabody



Heather Foster RN



David Beshk



Jennifer Dingman



Dr. Charles Denham



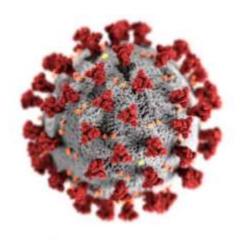


Voice of the Patient



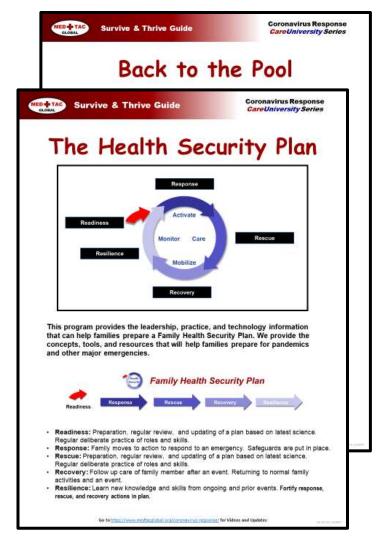
Jennifer Dingman

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



Survive & Thrive Guide Series







The 4 P's to Address Emerging Threats



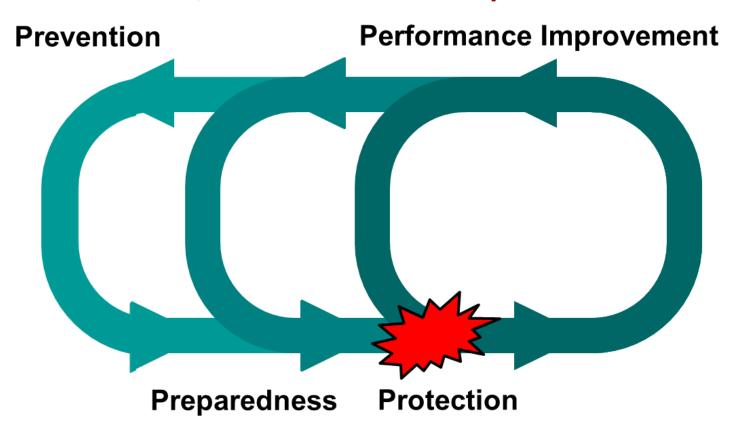
EMERGING THREATS
COMMUNITY OF PRACTICE



SAFETYLEADERS®

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The 4 P's: Prevention, Preparedness, Protection, and Performance Improvement



High Impact Care Hazards to Patients, Students, and Employees



Cardiac Arrest

Choking & Drowning

Opioid Overdose

Anaphylaxis

Major Trauma

Infections

Transportation Accidents

Bullying

Med Tac Story Article



Active Shooter Healthcare Article



Rapid Response Teams Article



AED & Bleeding Control Gear Article



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.

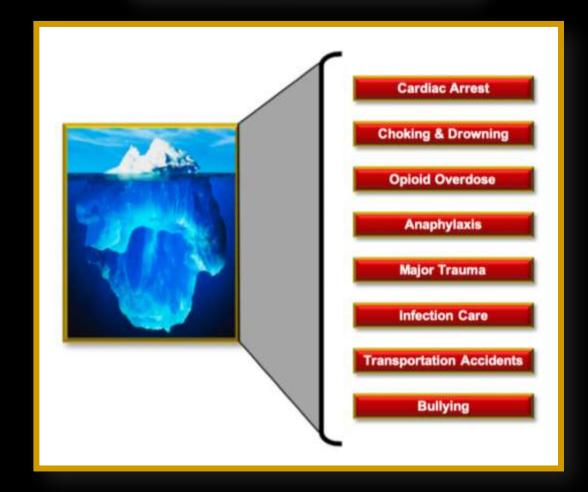
High Impact Care Hazards to Patients, Students, and Employees

Med Tac Bystander Rescue Care Program

- Founded in 2015 in Orange County CA.
- Early Pilots in 5 States with leaders.
- Failure to Rescue is targeted prior to EMS arrival training of the public in evidence-based methods.
- Focus on 8 Leading Causes of Preventable Death
- Collaborate with Leading Medical Centers



www.MedTacGlobal.org





Innexplore Canethevensury

In response to the Coronavirus pandenic our team of experts are producing a series of free o responders, security and medical solutions, and banding deal with the critical issues. We have let by our and a patient safety community of practice of 3.100 hospitals in 3.840 communities to tackle the Communities Crisis. To join the Co Practice and have the option of taking our perification course and earn opiniousing education credits 🚉 🚾 The First shart video in the literary of describes how you can participate. Join our few monthly Milmingto exhibiting of professional carecisers, essential workers, and the public Click here to register. Click here to view video.

Coronavirus - Protecting You & Your Family

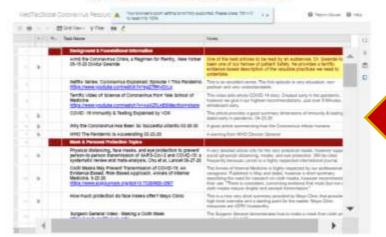
See the visions, answers to FAGs, and recognise below. They will be continuously updated for the communities we serve.



Video Library



The resources in the table before are excluded for deserted. This are the copier of a refer to have process to the fine. They include presentation slide sets from webinary, useful articles, and sheet lists.



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

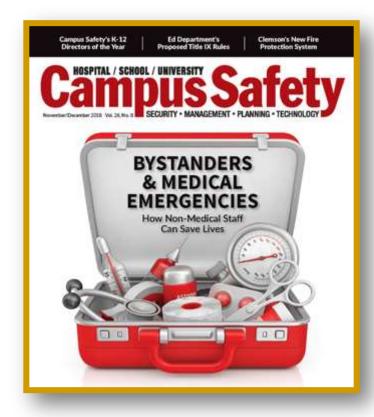


Related Resources



Care of the At Risk & Seniors at Home **Coronavirus Response** CareUniversity Series

In the News: Med Tac Updates



Nov/Dec 2018 Issue



Supply kits/care packs like the ones pictured here confinue to be developed for any bystander care emergency, in addition to packs for specific use in the lifeguard-surf, divers, aviation and health ministries specialty programs. Med Tac is even developing modified golf carts with AEDs and emergency response gear orbitant.

to enable delivery of lifesaving by stander case within 3 minutes of an event and until professional first responders arrive in 8-10 minutes.

- Video Stories: Our learning management approach uses the power of stories to communicate concepts, flustrate tools and describe resources. We are continuously capturing stories and adding them to our multimedia curriculum.
- Immersive Simulation Scenarios: The many stories used in our online training allow us to develop simulation scenarios, putting students in real-life situations that apply and reinforce key concepts. We use techniques pioneered in ariation and other industries to drive retention and competency impact.

START A MED TAC PROGRAM OF YOUR OWN

Although the Med Tac Team won the 2018 Pete Conrad Global Pattent Safety Award for its work, we believe any community, inspired by the "all teach — all learn" mantra, can easily start a program like ours. We challenge others to start similar initiatives or join us in this cause.

We believe the CPR/AED/First Aid pro-

grams of the American Heart Association are excellent. Instructors of those programs are ideally suited to engage with campus programs. Earther, the Stop-the-Bieed program sponsored by the American College of Surgeons is also excellent when it is taught as designed. The combination of these two programs can dramstically improve the



The University of Texas Police Department serving the UT MD Anderson Cancer Center and the UT Health Science Center at Houston are pioneering a Med Tac program to specifically address the needs of major medical centers and healthcare institutions. Chief William Adcox and the security team at MD Anderson are pioneering the new study domain of inside and outside threats to the caregivers who serve, the patients they serve and the property they need to deliver their care.

frequency and effectiveness of bystander responses to emergencies.

Becent studies have shown that bystander skills degrade over time, so try to assure "competency-currency." Begular, repeated training, with deliberate practice of bystander care skills, complemented by readily accessible emergency care supplies, is the winning combination for a campus team to help serve those entrusted in their care.

Bemember, odds are that a medical emergency will happen on your campus and your students, clinicians, public safety officers, teachers, staff members and administrators will be the immediate responders until professional help can arrive. Med Tac can provide them with the skills they need to respond appropriately and one lives.

For more information about Med Tac visit med-tac.org or email info@medtac.org. CS

WELLIAM ADCOX is the chief security officer for the UT MD Anderson Cancer Center and UT-Health Chief of Police, Dr. GREGORY BOTZ is a professor of anesthesiology and onto all care and UT MD Anderson Cancer Center. CHARLES DENHAM Is in a Jurior Med Tac instructor. Dr. CHARLES DENHAM Is she chairman of the Teas Medical Institute of Technology.







Preparing for Care at Home



Dr. Gregory H. Botz



William Adcox, MBA



Heather Foster RN

40% of Work Force

No Family Training Provided





Emerging Threats Community of Practice

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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



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Dan Ford

Arlene Salamendra

Jennifer Dingman

Bill George

Penny George

Hilary Schmidt PhD

Paul Bhatia EMT

Contributions Through Segments of Documentaries







Jim Collins



C Sullenberger



Charlotte Guglielmi



Dr. Don Berwick



Dr. Howard Koh



Dr. Jim Bagian



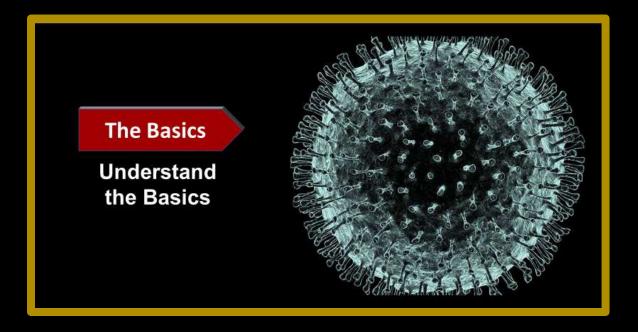
Dr. Harvey Fineberg







Essential Critical Infrastructure Workers





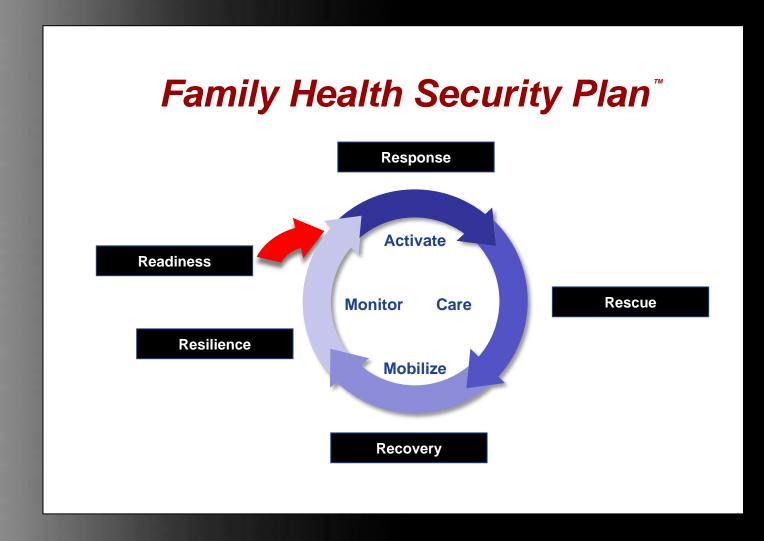




Leadership

Form Family Team & Health Security Plan

- Family Health Security Plan
- The Family CFO
- Engaging Family: Head, Heart, Hands, & Voice





CDC Guidelines



Social Distancing



Disinfecting Surfaces



Hand Washing



Use of Masks

SOURCE: Centers for Disease Control



CDC Guidelines



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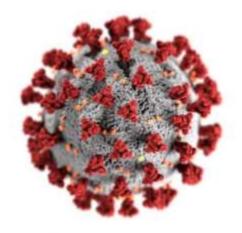


Family Survive & Thrive Guide: The Latest Best Practices



Gregory H. Botz, MD, FCCM

Professor of Anesthesiology and Critical Care
UT – MD Anderson Cancer Center
Adjunct Clinical Associate Professor,
Department Anesthesiology
Stanford University Medical School



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Bystander Rescue Care CareUniversity Series

Video Library

Join Us our Community of Practice

Why Social Distancing WORKS

Masks ARE Critical

Masks: The SCIENCE of Success

Hand Washing & DISINFECTANTS

CLEAN High Contact Surfaces

Why ICU Care & Respirators





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Why Social Distancing WORKS

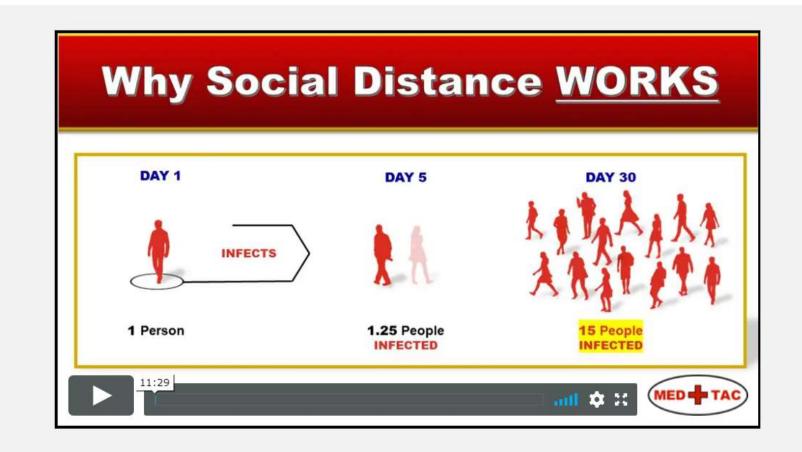
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Speakers & Reactors



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Casey Clements



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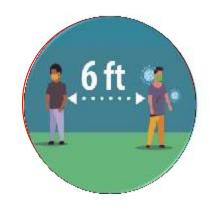
Jennifer Dingman



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Use of Masks

SOURCE: Centers for Disease Control



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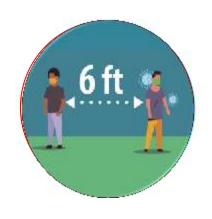
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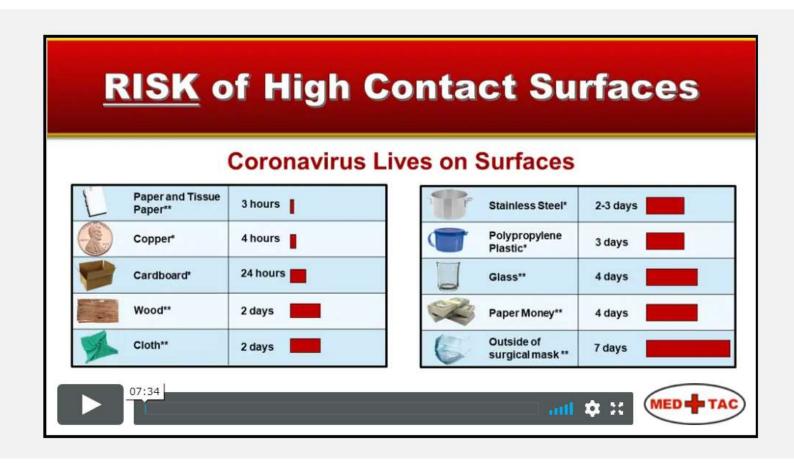
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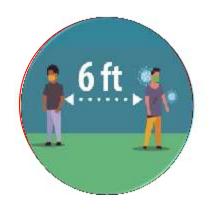
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CDC Guidelines



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Disinfecting Surfaces



Hand Washing



Use of Masks

SOURCE: Centers for



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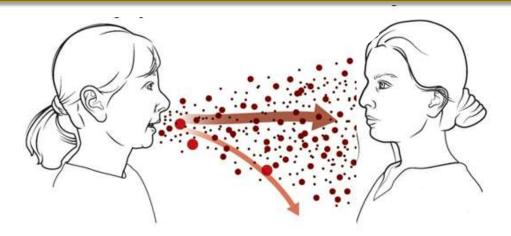
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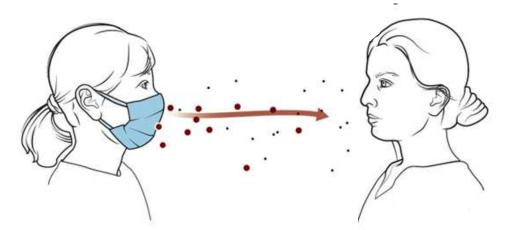
Preparing for CARE at Home



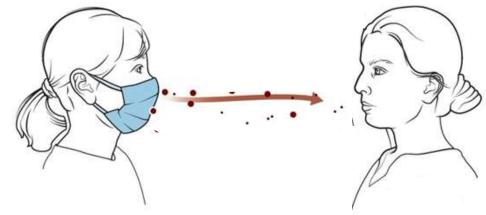
TMIT Global: Effectiveness of Masks



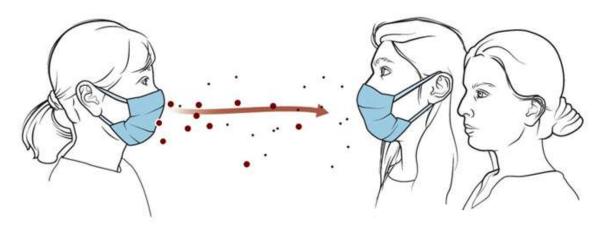
15 minutes within 6 feet = High Risk



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

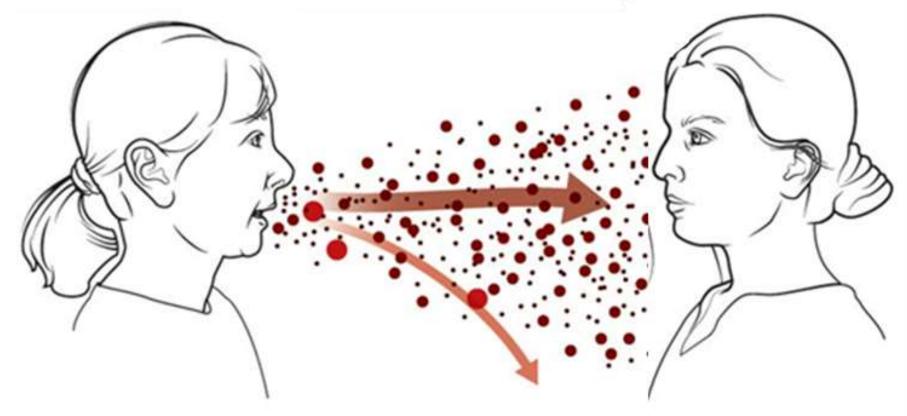


Surgical Mask Reduces Exhaled Droplets Reduced by 99% and Inhaled Droplets by 75%



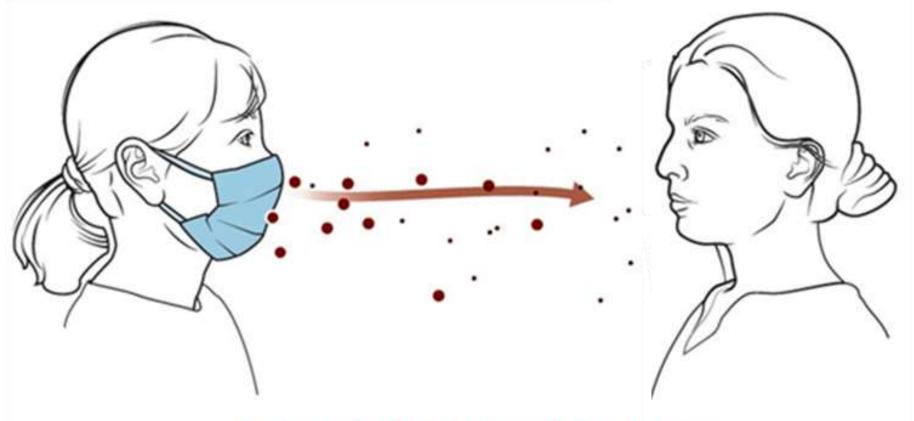
Best Solution – All Wear Masks N95 Best, Surgical, then Cloth – All of Value

No Mask – Extreme Risk



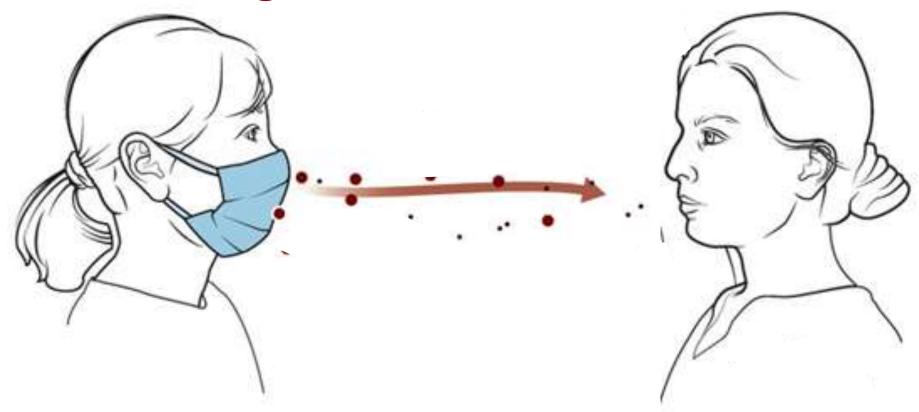
15 minutes within 6 feet = High Risk

Cloth Mask – Reduced Risk



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

Surgical Mask – Reduced Risk



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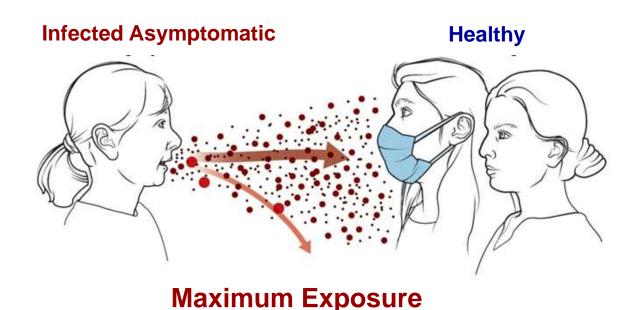
Source: Cite as: K. A. Prather et al., Science 10.1126/science.abc6197 (2020)

Dramatically Reduced Risk



Best Solution – All Wear Masks N95 Best, Surgical, then Cloth – All of Value

Mask Reduction of Airborne Transmission



Particle Size µm 100 10 1 0.1

AIRBORNETRANSMISSION: DROPLET & AEROSOL

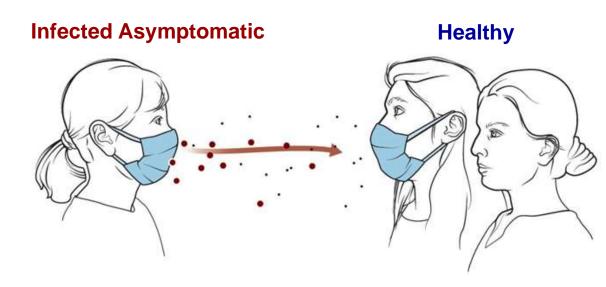
- Droplets > 5 microns and drop nearby 3-6 feet
- Aerosols < 5 microns may float in the air
- Aerosols are likely to represent a large proportion of spread in from pre-symptomatic to lessor degree asymptomatic patients.
- "Silent Shedders" are highly contagious before and may peak at time of first symptoms.
- Speaking and breathing generate significant aerosols putting the public at risk.
- Social distancing based on studies of large respiratory droplets in the 1930s prior to higher technology measuring capabilities.
- Airborne transmission was determined to have played a major role in SARS outbreak 2003.
- SARS transmitted >6 ft from index patient

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

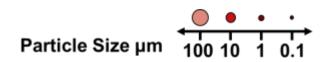
Mask Reduction of Airborne Transmission

MINIMAL EXPOSURE WITH MASK USE

- N95 Masks, Surgical Masks, and 2-layer cloth masks all have value to BOTH the wearer and the public.
- Surgical Masks block 99% of respiratory droplets expelled by people with coronaviruses or influenza viruses (Science 2020, Atul Gwande)
- Surgical Masks reduce inhalation of droplet size particles by 75%. (Mueller, Fernandez Dept Civil Eng & Marine & Env. Sci)
- Surgical Masks are 3x better than cloth masks at reducing expelled transmission of respiratory Viruses. (Davies at el, Disaster Med & Pub Health Preparedness)
- If at least sixty per cent of the population wore masks that were just sixty-per-cent effective in blocking viral transmission—which a well-fitting, two-layer cotton mask is—the epidemic could be stopped. (Howard et al 2020, Atul Gwande)
- Two Layer Cloth masks reduce inhalation by HALF as much as surgical masks (Atul Gwande)
- Mask wearers were HALF as likely to get infected during the SARS Outbreak in 2003.



Minimum Exposure



Source: Multiple Sources Cited



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CareUniversity Series

Speakers & Reactors



Dr. Gregory Botz



Casey Clements



Christopher Peabody



Heather Foster RN



David Beshk



Jennifer Dingman



Dr. Charles Denham

Survive & Thrive Guide: Protecting Your Family

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NEW Emergency Department Issues



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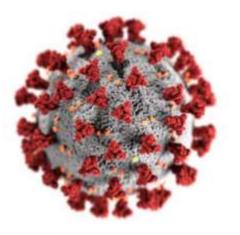
Dr. Charles Denham





Casey Clements, MD, PhD

Emergency Medicine Physician Mayo Clinic Rochester, MN



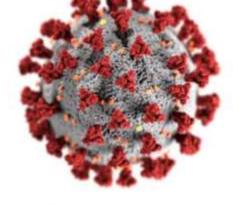
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Christopher R. Peabody, MD, MPH

Emergency Physician
Director, UCSF Acute Care Innovation
Center, UCSF
Clinical Instructor, UCSF
San Francisco, CA

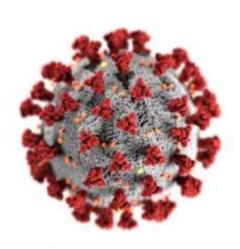






Heather Foster RN

Infection Prevention Nurse ICU Nurse Patient Safety Advocate Cortez Colorado

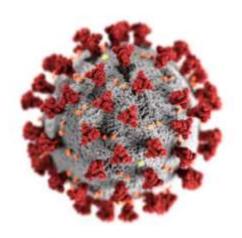






David Beshk

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

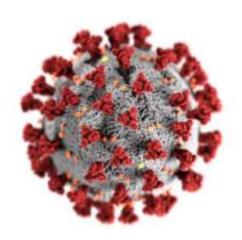






Jennifer Dingman

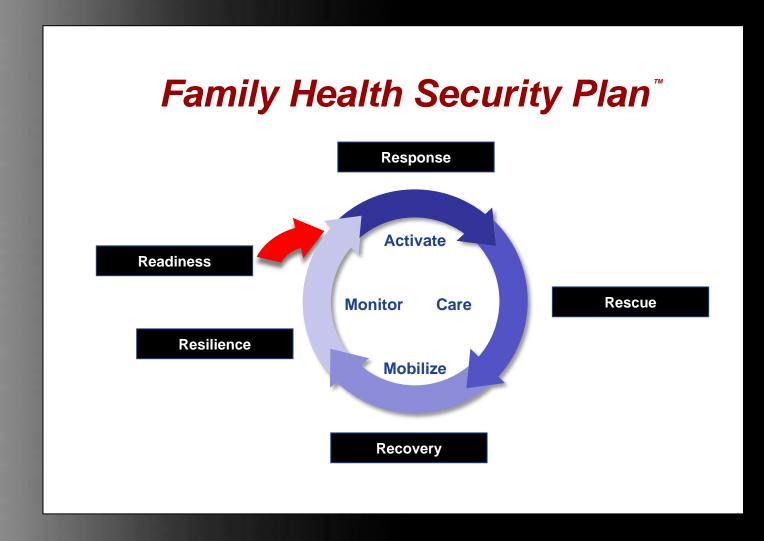
Founder, Persons United Limiting Substandard and Errors in Healthcare (PULSE), Colorado Division Co-founder, PULSE American Division TMIT Patient Advocate Team Member Pueblo, CO



Leadership

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- Engaging Family: Head, Heart, Hands, & Voice



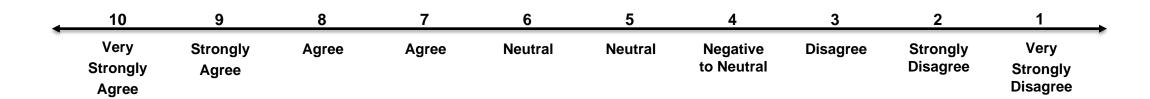


Family Health Safety & Organization Security Plans



National Survey Questions

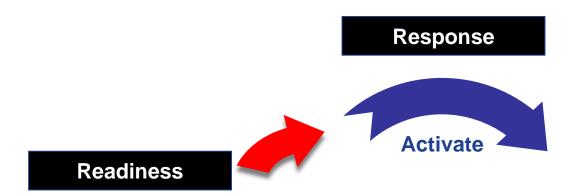
My family is ready to take care of a loved one with Coronavirus in our home



What readiness information would you like to have?

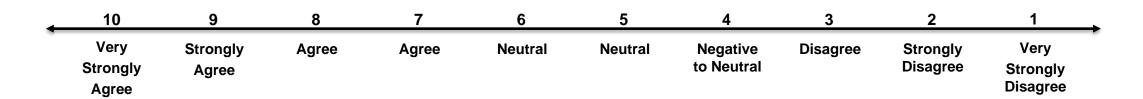


Family Health Safety & Organization Security Plans



National Survey Questions

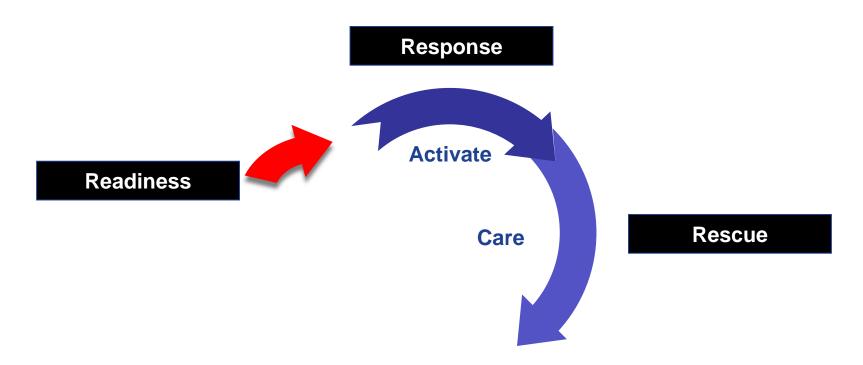
My family knows what actions to take if a loved one becomes infected with Coronavirus.



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

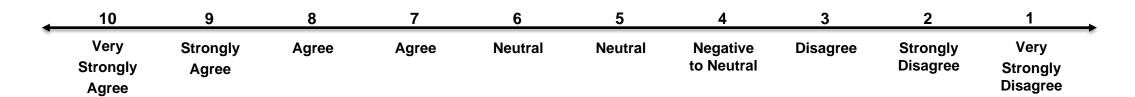


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National Survey Questions

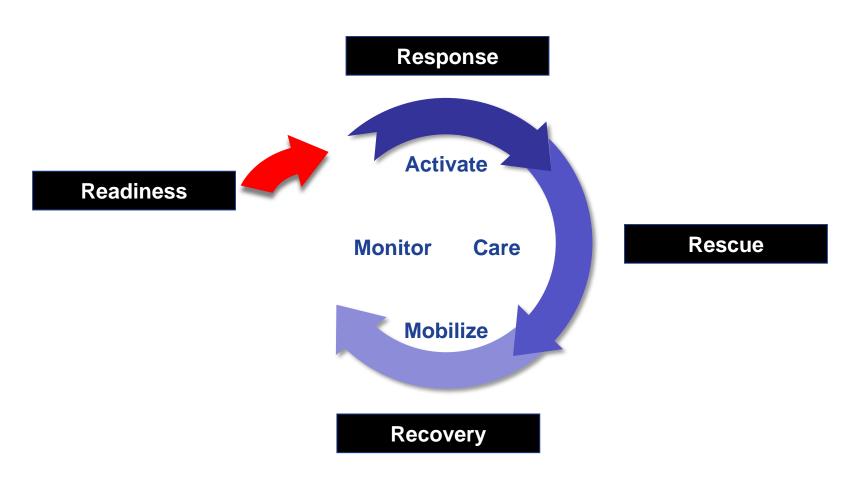
My family knows what do when someone develops severe COVID-19 symptoms.



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

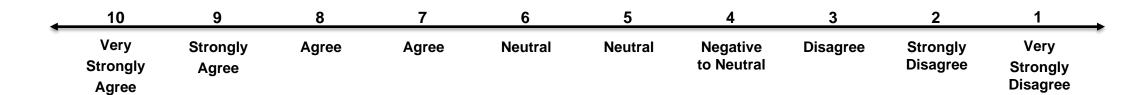


Family Health Safety & Organization Security Plans



National Survey Questions

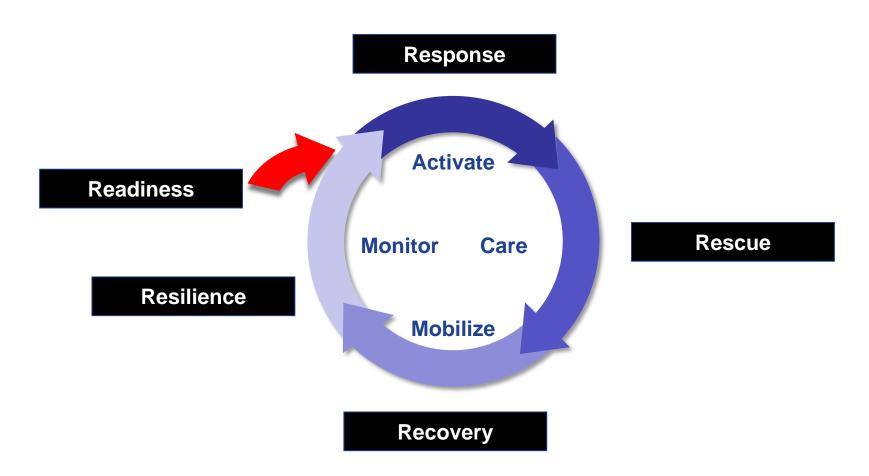
My family has a safety plan to return to work and play when the Coronavirus social restrictions are relaxed



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

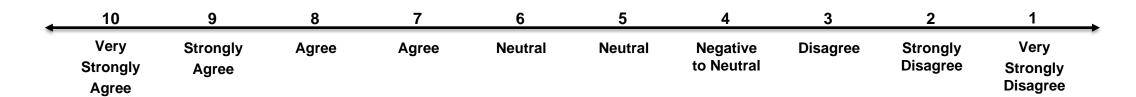


Family Health Safety & Organization Security Plans[™]



National Survey Questions

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?



Coronavirus Care Community of Practice

Bystander Rescue Care CareUniversity Series

Speakers & Reactors



Dr. Gregory Botz



Casey Clements



Christopher Peabody



Heather Foster RN



David Beshk



Jennifer Dingman



Dr. Charles Denham



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

