**Coronavirus Care
Community of Practice**


**Bystander Rescue Care
CareUniversity Series**

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**Bystander Rescue Care
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Charles Denham, MD
Chairman, TMIT Global
Founder Med Tac Bystander Rescue Care
Med Tac Bystander Rescue Care
July 02, 2020
CareUniversity Webinar #141

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**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.


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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 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. HOC is a former contractor for GE and CareFusion, and a former contractor with Siemens and Nanosonic, which produces a sterilization device, Trophion. HCC is a former contractor with Senior Care Centers. HCC is a former contractor for BioFlare, 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


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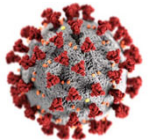
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Voice of the Patient



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



Survive & Thrive Guide: Protecting Your Family

Survive & Thrive Guide Series

Back to Work

Back to School

This program provides the leadership, practice, and technology information that can help across teams return to the beach while making sure to be as safe as possible. We provide the concepts, tools, and resources that the public and professional first responders can use to keep the community safe.

Back to the Pool

The Health Security Plan

This program provides the leadership, practice, and technology information that can help across teams return to the beach while making sure to be as safe as possible. We provide the concepts, tools, and resources that the public and professional first responders can use to keep the community safe.

Back to Worship

Going to the Emergency Department

This program provides the leadership, practice, and technology information that can help across teams return to the beach while making sure to be as safe as possible. We provide the concepts, tools, and resources that the public and professional first responders can use to keep the community safe.

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The 4 P's to Address Emerging Threats

EMERGING THREATS COMMUNITY OF PRACTICE

Global Patient Safety Forum

SAFETYLEADERS®

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

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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 loss 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.

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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

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

Med Tac Story

Med Tac Leadership Team

Adopt a Core Program

8 Rights of Emergency Care

College and Youth Program

Self & Lifeguard Program

2 Minutes & Counting Trainer

Special Overdose Briefing


Med Tac Global Training Programs

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Coronavirus - Protecting You & Your Family: First Responder & Family Briefing

03-18-20



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

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

Family Survive & Thrive Guide: The Latest Best Practices

- Social Distancing
- Use of Masks
- Hand Washing
- Disinfecting Surfaces

Related Resources

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

In the News: Med Tac Updates



Nov/Dec 2018 Issue



STOP THE BLEED


CPR AED
HeartSaver CPR for Non-Medical Professionals

Source: Campus Safety Nov/Dec Issue - <https://www.campus safetymagazine.com/public/med-tac-training-bystanders/>


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Preparing for Care at Home



Dr. Gregory H. Botz



William Adcox, MBA



Heather Foster RN

Essential Critical Infrastructure Workers

40% of Work Force

No Family Training Provided



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Contributions Through Segments of Documentaries

Essential Critical Infrastructure Workers

Survive & Thrive Guide: Keeping Your Family Safe

Leadership


Form Family Team & Health Security Plan


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

Family Health Security Plan™


Survive & Thrive Guide: Protecting Your Family

CDC Guidelines







**Social
Distancing**



**Disinfecting
Surfaces**



**Hand
Washing**




**Use of
Masks**


SOURCE: Centers for Disease Control

CardUniversity Med Tac Bystander Rescue Care


Survive & Thrive Guide: Protecting Your Family

CDC Guidelines







**Social
Distancing**



**Disinfecting
Surfaces**



**Hand
Washing**




**Use of
Masks**

SOURCE: Centers for Disease Control

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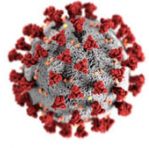
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Family Survive & Thrive Guide: The Latest Best Practices



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



For resource downloads go to: www.MedTacGlobal.org

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Survive & Thrive Guide: Protecting Your Family

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Family Survive & Thrive Guide: The Latest Best Practices



Social
Distancing



Use of
Masks



Hand
Washing



Disinfecting
Surfaces

00:31

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Why Social Distance WORKS

DAY 1: 1 Person
DAY 5: 1.25 People INFECTED
DAY 30: 15 People INFECTED

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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

CDC Guidelines

Social Distancing (6 ft)

Disinfecting Surfaces

Hand Washing

Use of Masks

SOURCE: Centers for Disease Control

Survive & Thrive Guide: Protecting Your Family

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Handwashing & DISINFECTANTS

Survive & Thrive Guide: Protecting Your Family

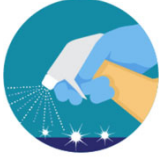
CDC Guidelines






6 ft


**Social
Distancing**



**Disinfecting
Surfaces**



**Hand
Washing**



**Use of
Masks**

SOURCE: Centers for Disease Control

Survive & Thrive Guide: Protecting Your Family

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RISK of High Contact Surfaces

Coronavirus Lives on Surfaces

Paper and Tissue	3 hours	Stainless Steel*	2-3 days
Copper**	4 hours	Polypropylene Plastic**	3 days
Cardboard*	24 hours	Glass**	4 days
Wood**	2 days	Paper Money**	4 days
Cloth**	2 days	Outside of surgical mask**	7 days

SOURCE: Centers for Disease Control

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Casey Clements



Christopher Peabody



Heather Foster RN



David Beshk




Jennifer Dingman




Dr. Charles Denham

Survive & Thrive Guide: Protecting Your Family


CDC Guidelines





6 ft

**Social
Distancing**



**Disinfecting
Surfaces**



**Hand
Washing**



**Use of
Masks**

SOURCE: Centers for Disease Control

Survive & Thrive Guide: Protecting Your Family

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Masks ARE Critical

"I protect you; you protect me"

09:34

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CardUniversity Med Tac Bystander Rescue Care

TMIT Global: Effectiveness of Masks

15 minutes within 6 feet = High Risk

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

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

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

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

CardUniversity Med Tac Bystander Rescue Care

TMIT Global: Effectiveness of Masks

No Mask – Extreme Risk

15 minutes within 6 feet = High Risk

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

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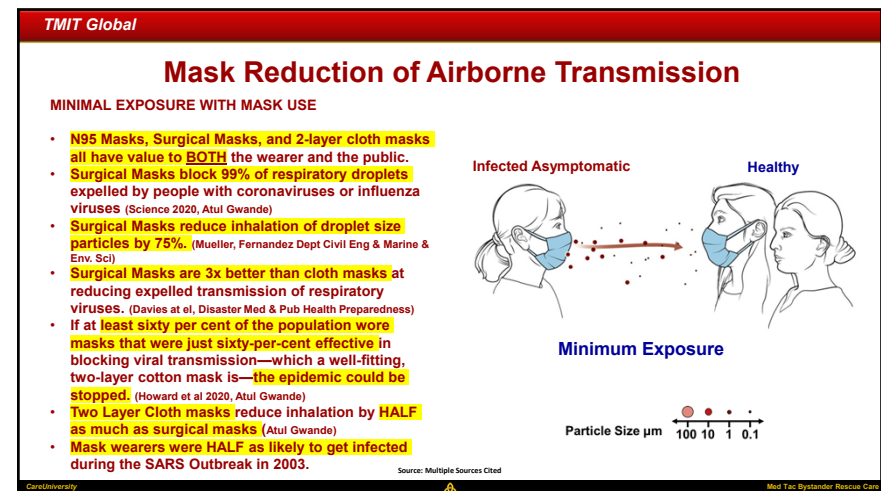
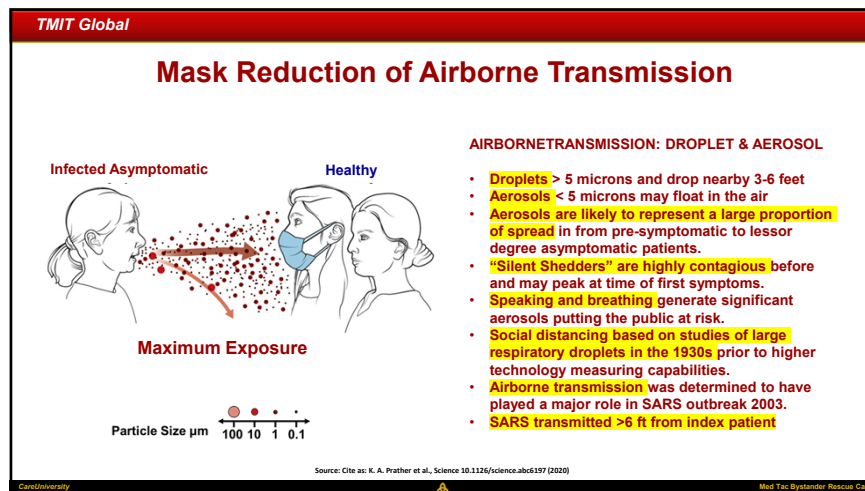
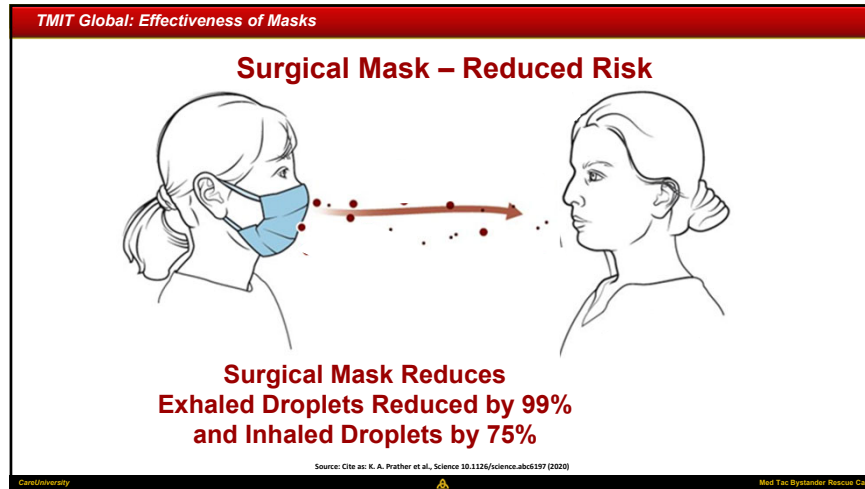
TMIT Global: Effectiveness of Masks

Cloth Mask – Reduced Risk

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

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

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Why Social Distancing WORKS

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CLEAN High Contact Surfaces

Why ICU Care & Respirators

Preparing for CARE at Home

Care of Seniors & those AT-RISK

NEW Emergency Dept. Issues

NEW Emergency Dept. Issues

The 5 Rights of Emergency Care

- Right Provider
- Right Follow Up
- Right Discharge
- Right Diagnosis
- Right Treatment

Emergency Department and COVID Care

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TELEMEDICINE Works - Try It

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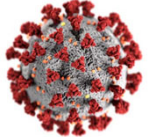

Dr. Charles Denham

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**Family Survive & Thrive Guide™:
The Latest Best Practices**


Casey Clements, MD, PhD
Emergency Medicine Physician
Mayo Clinic
Rochester, MN




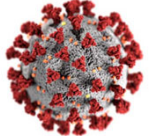
For resource downloads go to: www.MedTacGlobal.org

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**Family Survive & Thrive Guide™:
The Latest Best Practices**



Christopher R. Peabody, MD, MPH
Emergency Physician
Director, UCSF Acute Care Innovation
Center, UCSF
Clinical Instructor, UCSF
San Francisco, CA

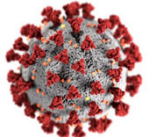


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**Family Survive & Thrive Guide™:
The Latest Best Practices**


Heather Foster RN
Infection Prevention Nurse
ICU Nurse
Patient Safety Advocate
Cortez Colorado




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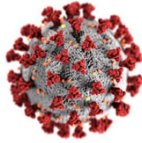
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Family Survive & Thrive Guide™: The Latest Best Practices




David Beshk

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





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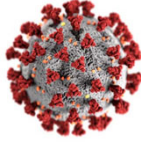
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Family Survive & Thrive Guide™: The Latest Best Practices



Jennifer Dingman

Founder, Persons United Limiting
Substandard and Errors in Healthcare
(PULSE), Colorado Division
Co-founder, PULSE American Division
TMIT Patient Advocate Team Member
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Survive & Thrive Guide: Keeping Your Family Safe



Leadership

**Form Family Team &
Health Security Plan**

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

Family Health Security Plan™




Med Tac Bystander Rescue Care

Survive & Thrive Guide: Protecting Your Family



**Family Health Safety &
Organization Security Plans**

Readiness




Med Tac Bystander Rescue Care

National Survey Questions

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

10 9 8 7 6 5 4 3 2 1
 Very Strongly Agree Strongly Agree Agree Agree Neutral Neutral Negative to Neutral Disagree Strongly Disagree Very Strongly Disagree

What readiness information would you like to have?

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National Survey Questions

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

10 9 8 7 6 5 4 3 2 1
 Very Strongly Agree Strongly Agree Agree Agree Neutral Neutral Negative to Neutral Disagree Strongly Disagree Very Strongly Disagree

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.

10 9 8 7 6 5 4 3 2 1
 Very Strongly Agree Strongly Agree Agree Agree Neutral Neutral Negative to Neutral Disagree Strongly Disagree Very Strongly Disagree

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

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National Survey Questions

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

10 9 8 7 6 5 4 3 2 1
 Very Strongly Agree Strongly Agree Agree Agree Neutral Neutral Negative to Neutral Disagree Strongly Disagree Very Strongly Disagree

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

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National Survey Questions

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

← 10 9 8 7 6 5 4 3 2 1 →

Very Strongly Agree Strongly Agree Agree Agree Neutral Neutral Negative to Neutral Disagree Strongly Disagree Very Strongly Disagree

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

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