

HHP/HPH COVID-19 Community Webinar Series

Monday, September 14, 2020
5:30pm – 6:30pm



Host/Moderator – 09/14/20

Andy Lee, MD

Medical Director, *Hawai'i Health Partners*

Chief of Staff, *Pali Momi Medical Center*

Hawai'i Pacific Health

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Disclaimer:

- The following is intended as information resource only for HHP/HPH providers, clinicians, administrative and clinical leaders.
- Specific areas may not pertain directly to your clinical practice area and/or may not be applicable to your practice based on your existing workflows, infrastructure, software (e.g. EHR), and communications processes.

Webinar Information

- You have been automatically muted. You cannot unmute yourself.
- You will be able to submit questions via the Q&A section.
 - Due to time constraints, any unanswered questions will be addressed this week and posted on the HHP website
- A recording of the meeting will be available tomorrow on the HHP website and intranet.

How to Claim CME Credit

1. Step 1: Confirm your attendance

- You should have completed a brief questionnaire before joining today's live webinar.

2. Step 2: HPH CME team will email you instructions

- Complete and submit evaluation survey that will be emailed to you within one week of the offering.
- Your CE certificate will be immediately available to you upon completion of your evaluation.
- Questions? Email hphcontinuingeduc@hawaiiipacifichealth.org

CME Accreditation Statement

- In support of improving patient care, Hawai'i Pacific Health is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.
- Hawai'i Pacific Health designates this webinar activity for a maximum of 1.0 AMA PRA Category 1 Credit (s) TM for physicians. This activity is assigned 1.0 contact hour for attendance at the entire CE session.



JOINTLY ACCREDITED PROVIDER TM
INTERPROFESSIONAL CONTINUING EDUCATION

Disclosures

- The planners and presenters of this activity report no relationships with companies whose products or services (may) pertain to the subject matter of this meeting

COVID-19 Updates



Melinda Ashton, MD
Executive Vice President
and Chief Quality Officer
Hawai'i Pacific Health



Douglas Kwock, MD
Vice President of
Medical Staff Affairs



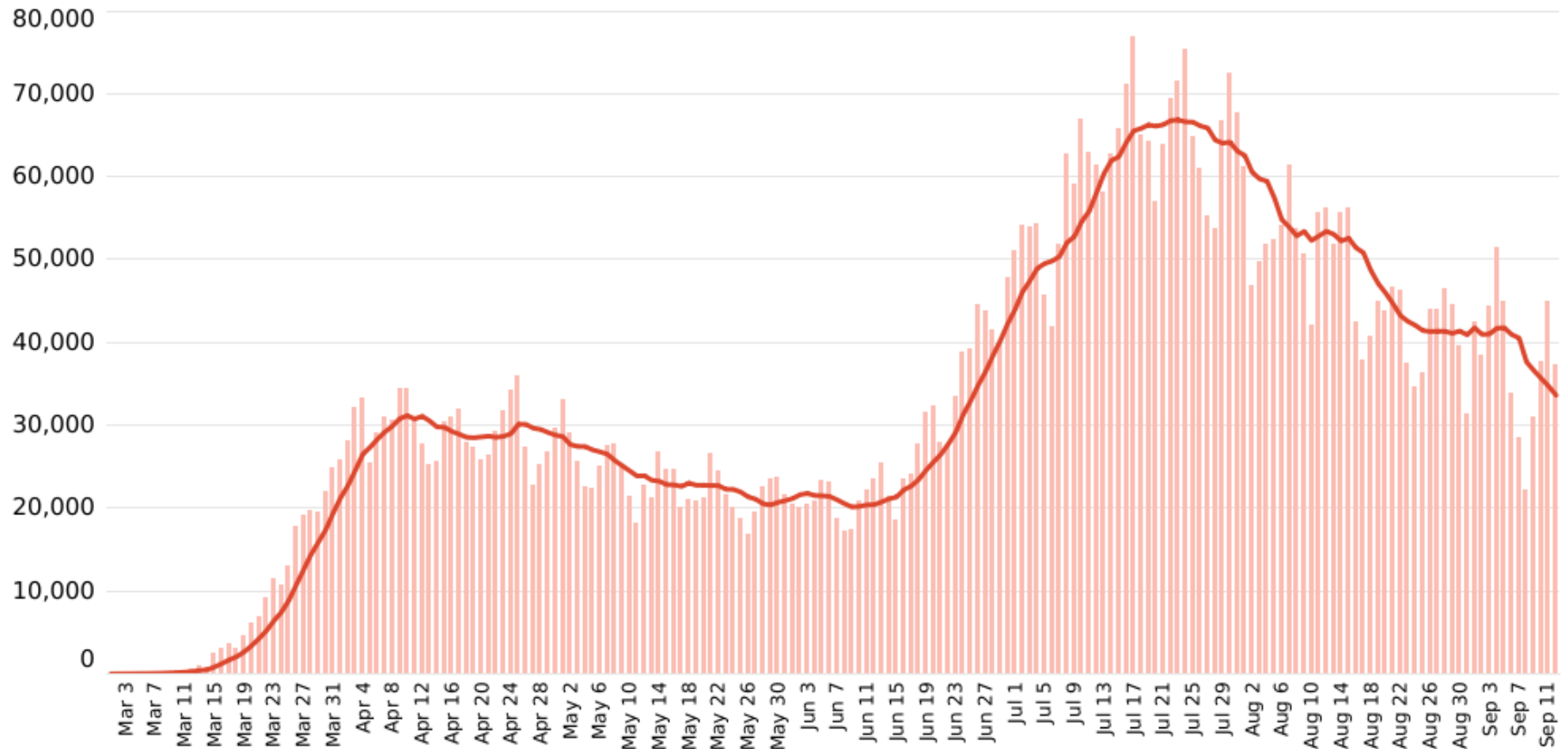
Gerard Livaudais, MD, MPH
Executive Vice President,
Population Health and
Provider Networks
Hawai'i Pacific Health



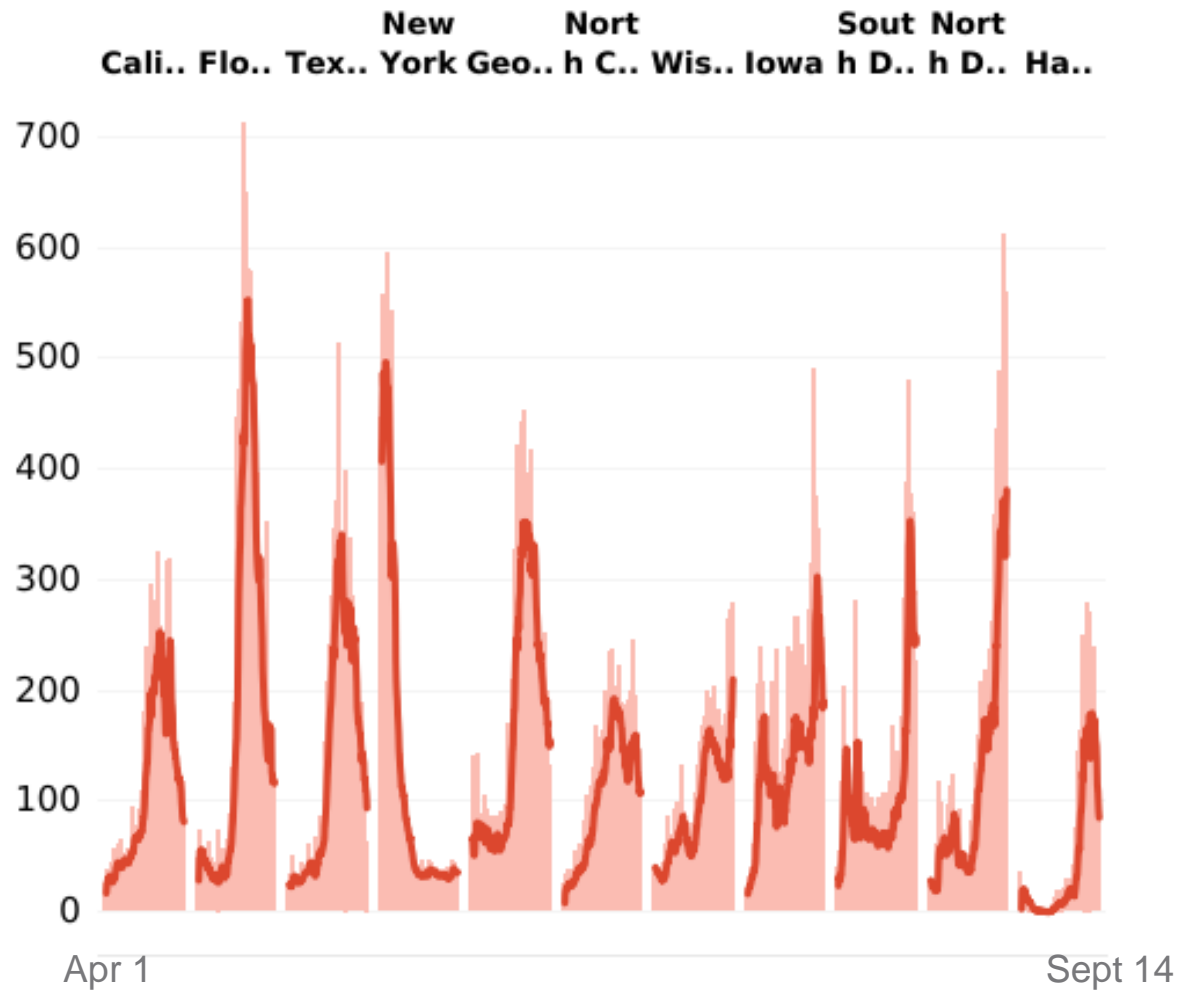
Shilpa Patel, MD
Pediatric Hospitalist,
Kapi'olani Medical Center
Physician Liaison,
Quality & Patient Safety
Hawai'i Pacific Health

US DAILY CASES. 7-DAY AVERAGE LINE

Mar 1 to Sep 12



Daily Cases per million with 7 day average



R_t COVID-19

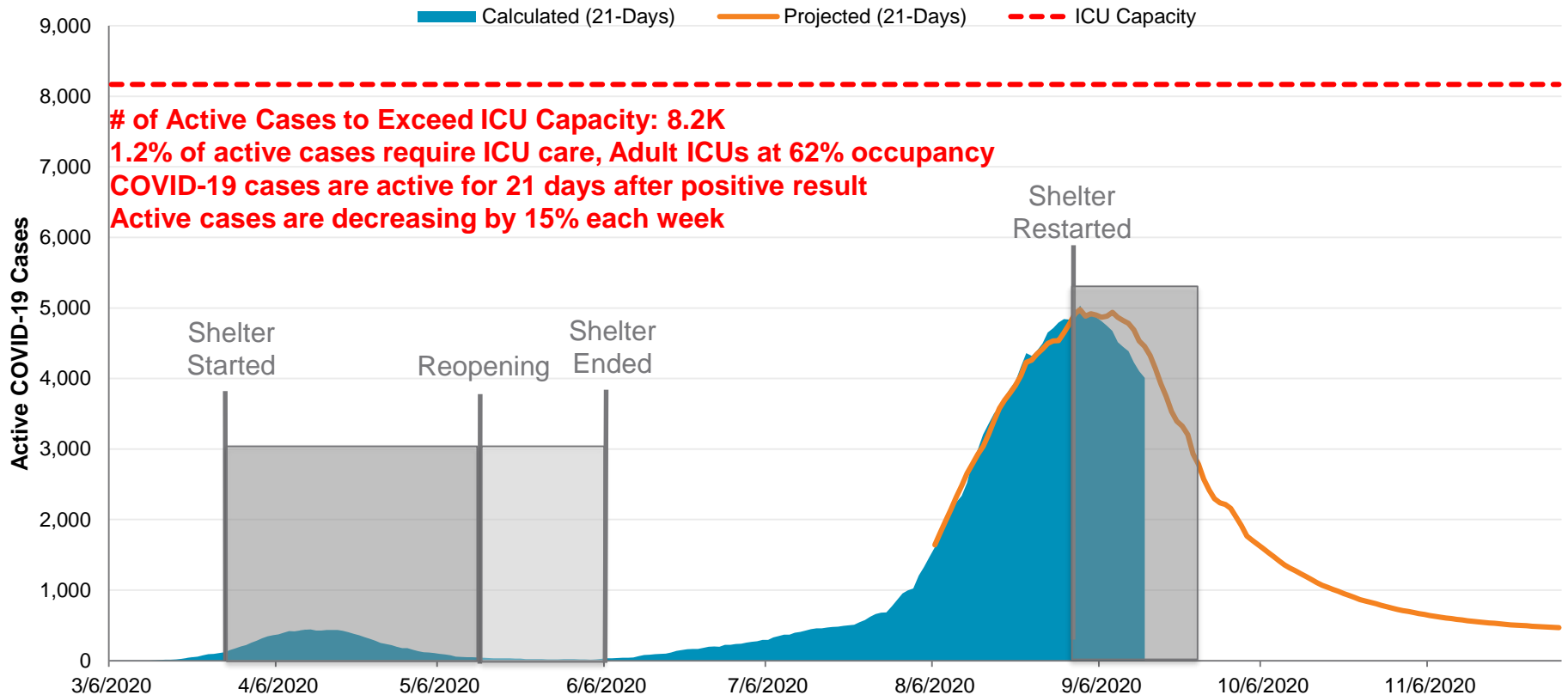
These are up-to-date values for R_t , a key measure of how fast the virus is growing. It's the average number of people who become infected by an infectious person. If R_t is above 1.0, the virus will spread quickly. When R_t is below 1.0, the virus will stop spreading. [Learn More](#).

[See details about the spread in Hawaii](#) [Data Last Updated: 9/14 at 4:43AM](#)



Projected Active COVID-19 Cases

Hawaii Actual v. Projected Active COVID Cases Updated 9/14/2020



As of 09/14/20	Total Census	ICU beds occupied	# Ventilators in use	# New Admissions w/ COVID-19 screening	# New Admissions w/ positive COVID-19	# Patients currently hospitalized w/ suspect or confirmed COVID-19	# Patients currently on a ventilator w/ suspect or confirmed COVID-19	# Patients currently in ICU w/ suspect or confirmed COVID-19
KMCWC	161	AICU: 2 NICU: 77 PICU: 5	AICU: 0 NICU: 18 PICU: 3 Wilcox: 0	0	0	S: 0 C: 2 adults	S: 0 C: 0	S: 0 C: 1 adult
PMMC	100	14	10	3	0	S: 2 C: 13	S: 0 C: 7	S: 0 C: 7
SMC	120	15	12	8	0	S: 3 C: 34	S: 0 C: 7	S: 0 C: 8
WMC	49	4	0	1	0	S: 1 C: 0	S: 0 C: 0	S: 0 C: 0

S = Suspected; C= Confirmed

Classification 1

Front window

Door

Classification 2

Row 1



NC

NC



Row 1

Table. COVID-19 Risk Assessment of Different Sections of the Exposed Bus and Between the Exposed Bus and Unexposed Controls^a

Characteristic	Total	No. with COVID-19	% (95% CI) Attack rate	Risk difference		Relative risk (95% CI)	P value	Relative risk (95% CI)	P value
Exposed bus and other attendees of the worship event, excluding the index patient									
Bus 1	60	0	0 (0 to 6.0)	0 [Reference]	NA	1 [Reference]		NA	
All individuals except bus 2	232	7	3.0 (1.3 to 6.2)	NA	0 [Reference]	NA	NA	1 [Reference]	NA
Bus 2	67	23	34.3 (24.1 to 46.3)	34.3 (23.0 to 45.7)	31.3 (19.7 to 42.9)	42.2 (2.6 to 679.3)	<.01	11.4 (5.1 to 25.4)	<.01
Overall	299	30	10.0 (7.1 to 14.0)	NA					
Different sections of the exposed bus, excluding the index patient									
Classification 1 ¹⁷									
Low-risk zones (rows 1-4, 12-15)	34	9	26.5 (14.4 to 43.3)	0 [Reference]	NA	1 [Reference]	NA	NA	NA
High-risk zone (rows 5-11)	33	14	42.4 (27.2 to 59.2)	16.0 (-6.5 to 38.4)		1.6 (0.8 to 3.2)	.17		
Classification 2 ¹⁸									
Low-risk zones (rows 1-5, 11-15)	44	12	27.3 (16.2 to 42.0)	0 [Reference]	NA	1 [Reference]	NA	NA	NA
High-risk zone (rows 6-10)	23	11	47.8 (29.2 to 67.0)	20.6 (-3.7 to 44.8)		1.8 (0.9 to 3.3)	.09		

Abbreviations: COVID-19, coronavirus disease 2019; NA, not applicable.

^a For exposure-disease categories with 0 counts, we added a value of 0.5 to all cells to calculate risk ratio.<https://>

Noncase



Asymptomatic case



Mild case



Moderate case

The index patient
(a moderate case)# No. of tertiary
cases infected

Air vents (warm air)

Droplets versus Aerosols

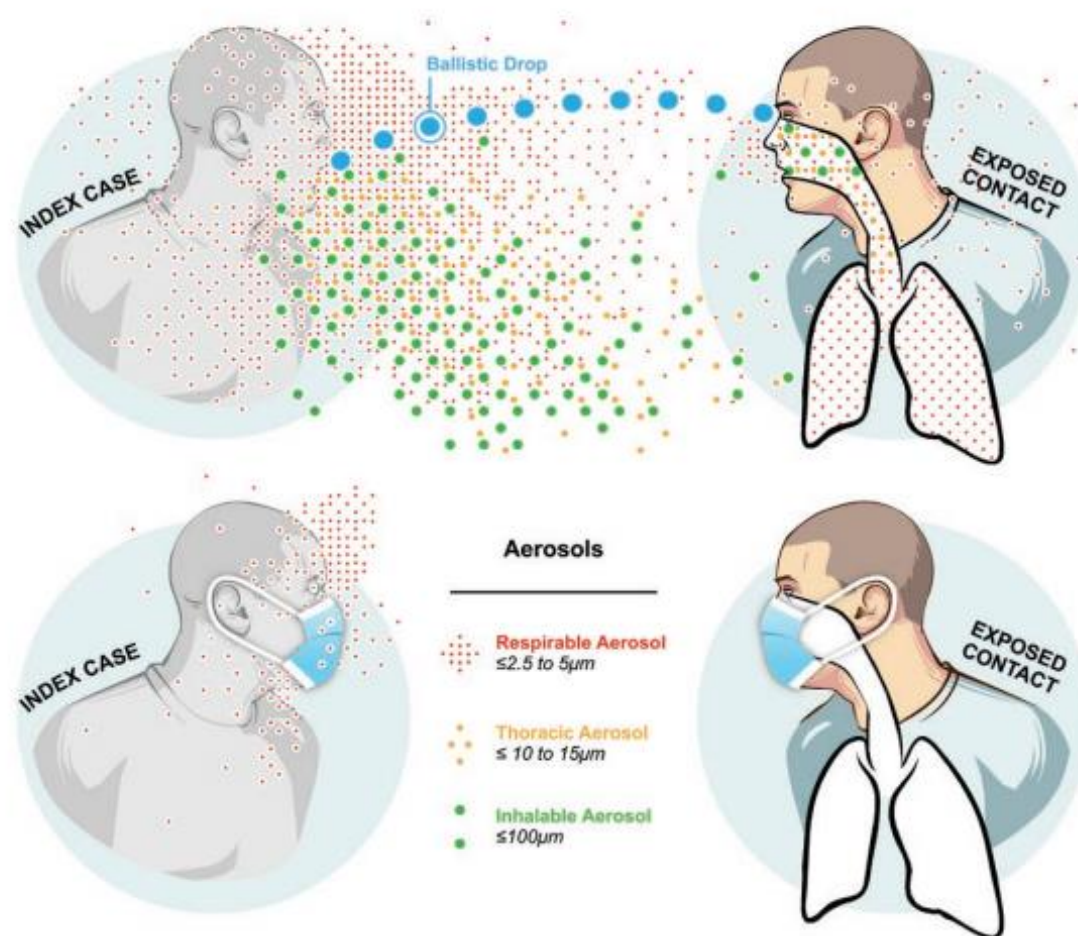
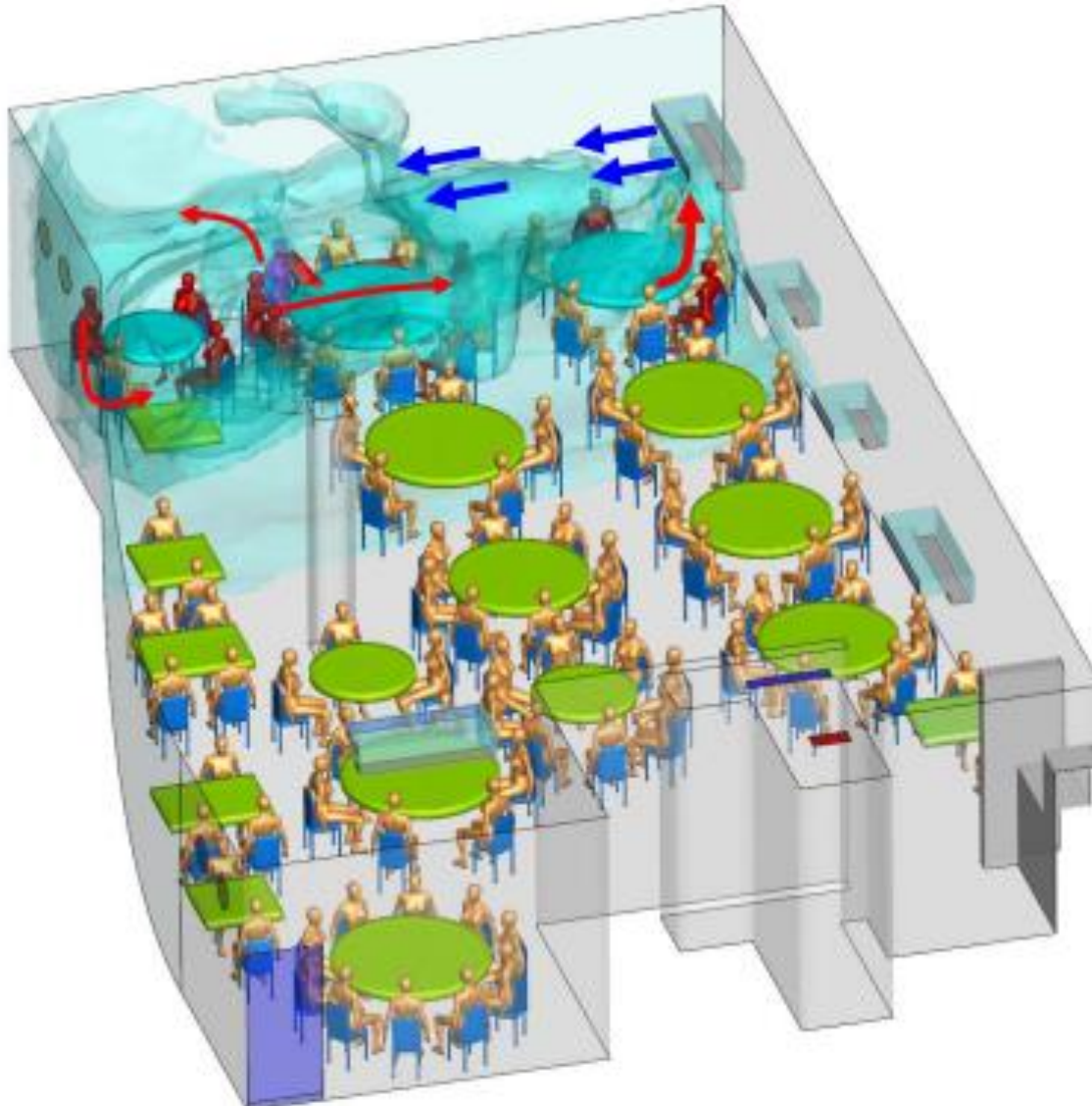


Figure 1. Short-range transmission potential of ballistic drops and droplet aerosols in the inhalable, thoracic, and respiratory aerosol size ranges and the impact of face masks as source control.

Back to the Restaurant in Guangzhou

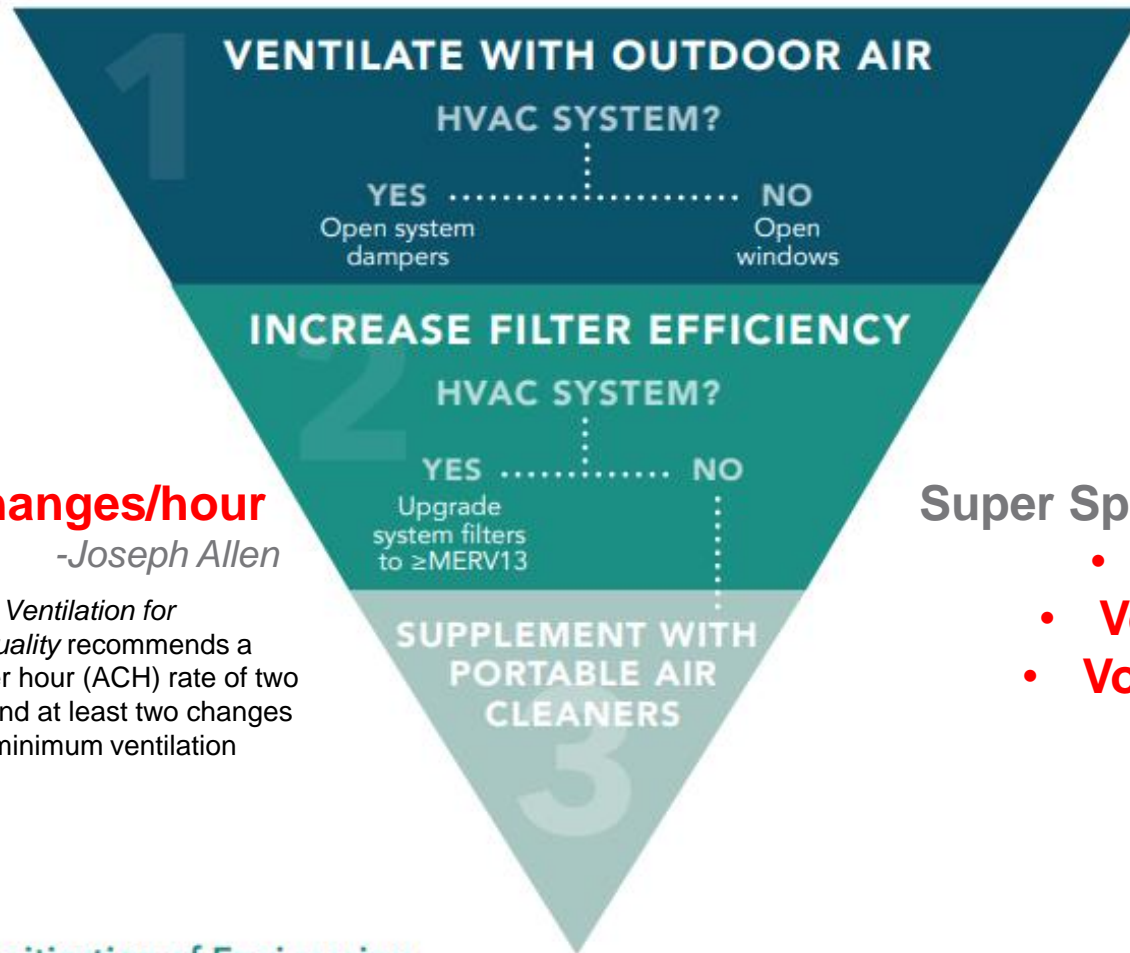


Tracer gas measurements and computational fluid dynamics (CFD) simulations were used to predict the spread of fine droplets exhaled by the index patient and the detailed airflow pattern in the restaurant.

The results of two tracer gas decay experiments show that the air exchange rate was only 0.77 air changes per hour (ACH) at 16:00–17:00 and 0.56 ACH at 18:00–19:30

<https://www.medrxiv.org/content/10.1101/2020.04.16.20067728v1.full.pdf> accessed 09.13.20

Ventilation versus “Hygiene Theater”



Goal: 6 air changes/hour

-Joseph Allen

ASHRAE Standard 62.1 Ventilation for Acceptable Indoor Air Quality recommends a minimum air changes per hour (ACH) rate of two changes of outdoor air and at least two changes of total air as a general minimum ventilation requirement.

Super Spreader Events:

- **Venue**
- **Ventilation**
- **Vocalization**

-Zeynep Tufekci

Prioritization of Engineering Controls to Reduce Long-Range Airborne Transmission

<https://schools.forhealth.org/wp-content/uploads/sites/19/2020/06/Harvard-Healthy-Buildings-Program-Schools-For-Health-Reopening-Covid19-June2020.pdf> accessed 09.13.20



FREQUENTLY ASKED QUESTIONS

[View All](#)

What do we know about aerosol transmission?

Some medical procedures can produce very small droplets (called aerosolized droplet nuclei or aerosols) that are able to stay suspended in the air for longer periods of time. When such medical procedures are conducted on people infected with COVID-19 in health facilities, these aerosols can contain the COVID-19 virus. These aerosols may potentially be inhaled by others if they are not wearing appropriate personal protective equipment. Therefore, it is essential that all health workers performing these medical procedures take specific airborne protection measures, including using appropriate personal protective equipment. Visitors should not be permitted in areas where such medical procedures are being performed.

There have been reported outbreaks of COVID-19 in some closed settings, such as restaurants, nightclubs, places of worship or places of work where people may be shouting, talking, or singing. In these outbreaks, aerosol transmission, particularly in these indoor locations where there are crowded and inadequately ventilated spaces where infected persons spend long periods of time with others, cannot be ruled out. More studies are urgently needed to investigate such instances and assess their significance for transmission of COVID-19.



COVID-19 Is Airborne: Here Is What You Can **Avoid**



COVID-19 **Avoid**



What Does This Mean?

- "Aerosol" (aka as "airborne") transmission is similar to droplet transmission (that we can see)
- But the bits of fluid are tiny
- And they can linger in the air for minutes to hours

Think of smoke to help your risk assessment & risk reduction strategies. Just imagine that others you encounter are all smoking: the goal is to breathe as little smoke as possible, and avoid those "smoke filled areas."

Full article: www.time.com/5883081/covid-19-transmitted-aerosols



COVID-19 Is Airborne: Here Is What You Can **Do**



COVID-19 **Do**



Do as many activities outdoors as possible, but outside is not magic!



Do wear masks - they are essential, even when we are able to maintain social distance - make sure they fit snugly!



Do think about ventilation and air cleaning by filtration!

We should continue doing what has already been recommended: wash hands, keep six feet apart, etc.

But that is not enough - follow @jjcolorado on  for more

Source: www.time.com/5883081/covid-19-transmitted-aerosols





Hawaii Pacific Health
Hawaii Health Partners
Community Webinar Series

Hawai'i State Department of Health
Disease Outbreak Control Division
COVID-19 Case Investigation & Contact Tracing

September 14, 2020



Sarah Kemble, MD
Acting State Epidemiologist



Emily K. Roberson, PhD, MPH
Disease Investigation Branch Chief

Contact Tracing Partnership with FQHCs and CHCs

- Streamlined case reporting
 - Current: Case Report Form
 - <https://health.hawaii.gov/docd/files/2020/01/Hawaii-PUI-Form-nCoV-2019.pdf>
 - Revised: Case & Contact Short Form

Contact Tracing Partnership with FQHCs and CHCs

- Web-based information submission (developed with City & County of Honolulu)
- System created, tested week of 9/8
- Piloting with contact tracers week of 9/14
- Shorten information processing times, decrease workloads of DOH, FQHC staff

Contact Tracing Partnership with FQHCs and CHCs

- Working with Hawaii Primary Care Association on MOUs/MOAs
- Full time Nurse Surveyor as lead, DOH liaison (9/11/20 start date)

COVID-19 First Contact Callers Process Flow

Lab Test
Performed



ELR enters
MAVEN System



Assigned out to
COVID-19 First
Contact Callers



First Contact Calls screen cases via COVID-19 Short Form for priority assignment, provide brief health education messages and resources, answer patient questions, assess referral needs, and offer isolation release letters

Screening via COVID-19 Short Form

No priority flags

Mahalo & close

Healthcare
Associated
Infections
(Jed S)

High Risk
& Severe
Cases
(AV)

Special
Projects &
Gov Liaison
(EL)

Gyms,
Spas,
Salons
(JS)

Correctional
(LU)

Homeless &
other BHA
(AC & JH)

Schools
(CW & LNK)

Bars &
Restaurants
(KK)

Hawaii Public
Housing Authority
(NF & ER)

Each specialized
investigation group
establishes case
investigation & contact
tracing best practices,
protocols, and
guidelines for that
priority area

Behavioral Health & Homelessness Statewide Unified Response Group

— BHHSURG.HAWAII.GOV —

September 14, 2020



Presentation to the Hawaii Health Partners and Hawaii Pacific
Health on COVID-19

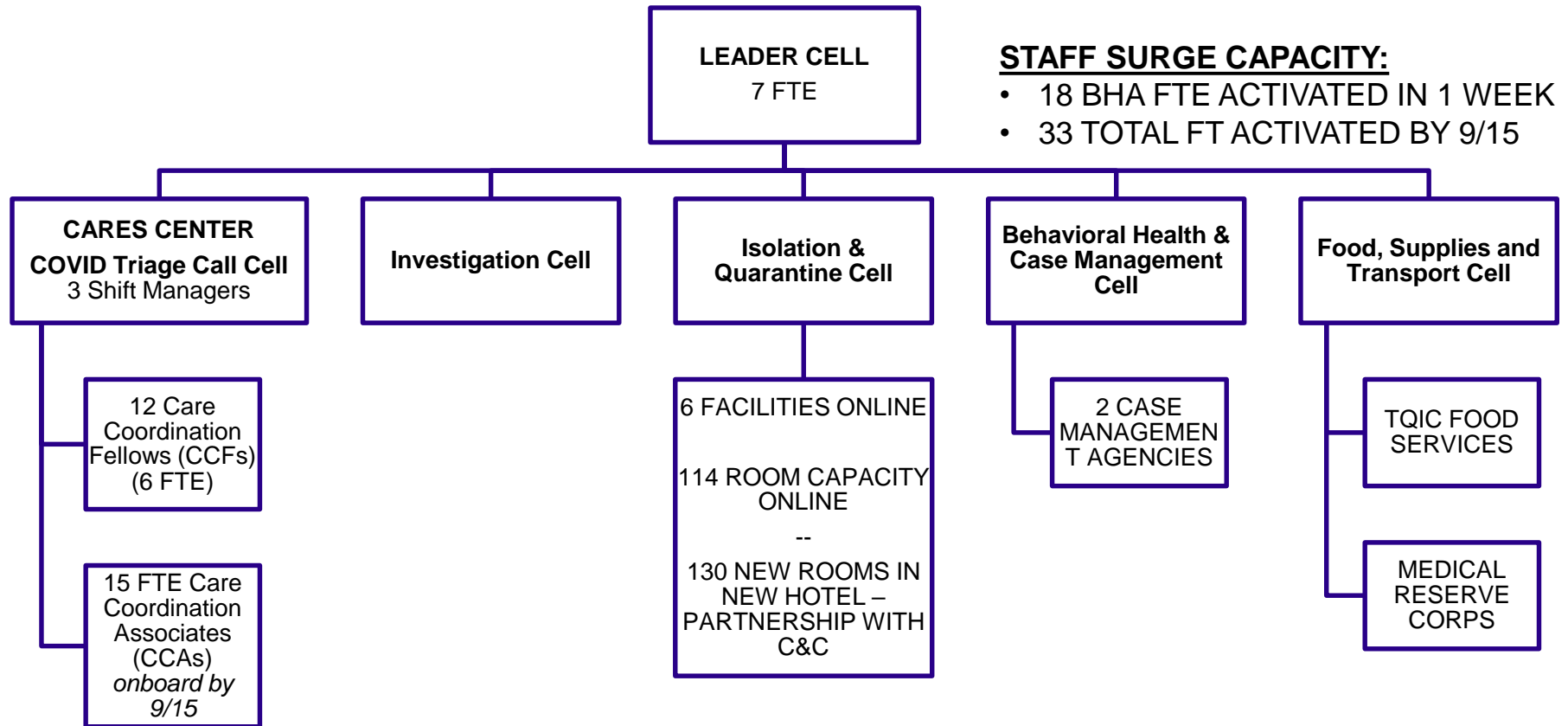
BHHSURG ISOLATION & QUARANTINE UNIT



Edward Mersereau, LCSW, CSAC
Deputy Director, Behavioral Health
Administration
Department of Health

BHHSURG ISOLATION & QUARANTINE UNIT

ORGANIZATION STRUCTURE **SINCE MON 8/10**



BHHSURG ISOLATION & QUARANTINE UNIT

[UPDATE 9/13
10:30pm]

OVERALL ISO-QUAR COP SINCE MON 8/10

TQIC KAAAH

- TODAY: 12 IN FACILITY (11 Positive)
- TODAY: 0 ADMISSION / 0 DISCHARGE
- TO DATE: 191

CARES ISO-QUAR PLACEMENTS

- INQUIRIES SINCE 8/10: ~2200
CALLS/EMAILS (average 230 per day)
- HOTELS:
 - TODAY ADMITTED: 8
 - TODAY DISCHARGED: 13
 - SINCE MON 8/10: 359 PLACED
 - 179 NEW UNITS SINCE 8/10
(EXCLUDING IHS SUMNER)
- NH/PI PLACED IN HOTELS & TQIC
 - 157 TO DATE

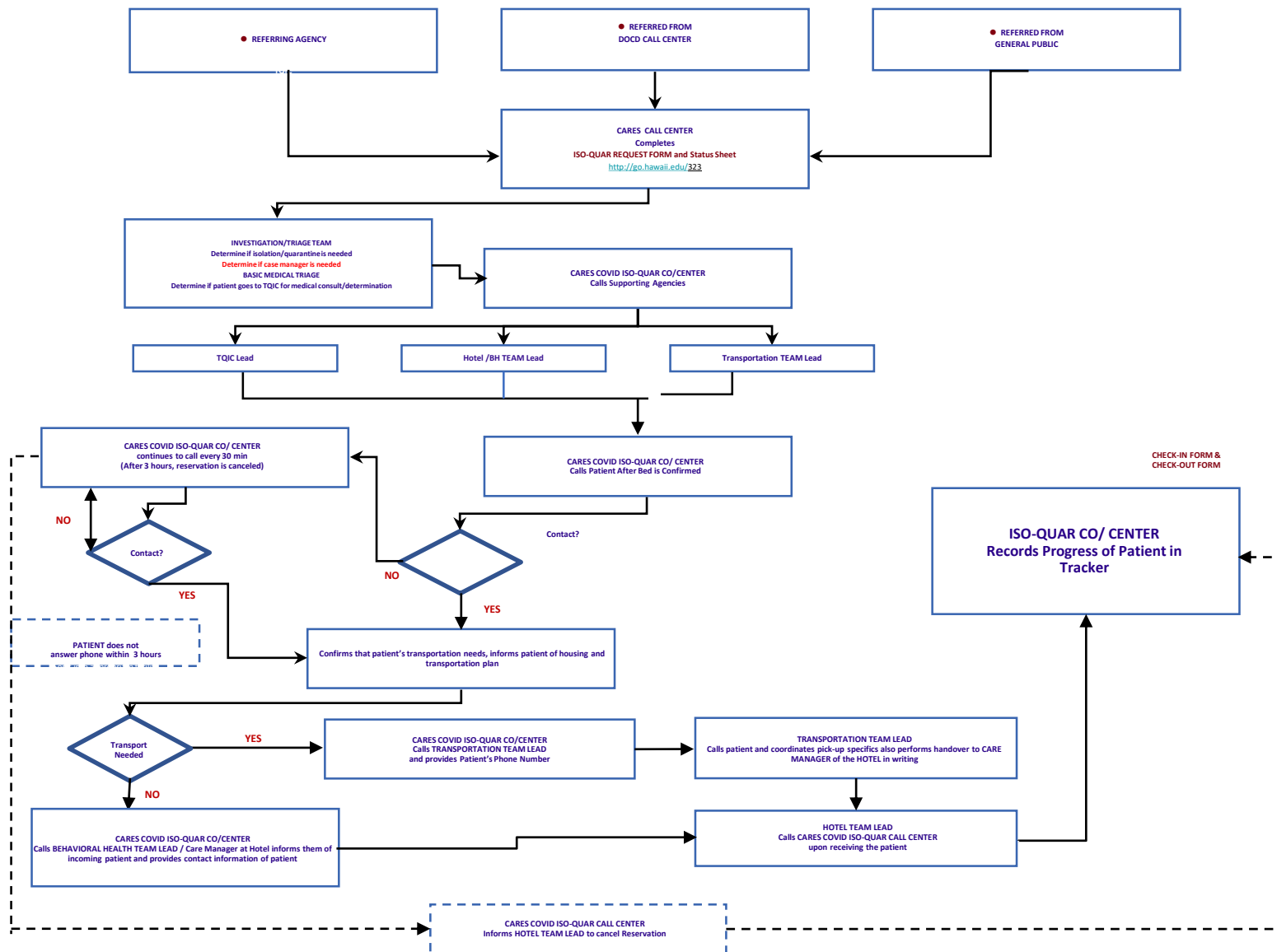
CURRENT MAXIMUM CAPACITY

- TQIC:
 - KAAAH: 26 ROOMS
- HSH CONTAINER: 10
- HOTELS:
 - 219 ROOMS IN 4 HOTELS
 - NEW HOTEL SOON ONLINE:
- SUPPORT SERVICES: 33 FAMILIES
- CASE MANAGEMENT SERVICES: 199 FAMILIES
- Services provided: Shelter, Food, Transport, Clothing, Behavioral Health

BHHSURG ISOLATION & QUARANTINE UNIT

CLIENT INTAKE AND TRANSFER PROCESS

Updated: 2020-08-15





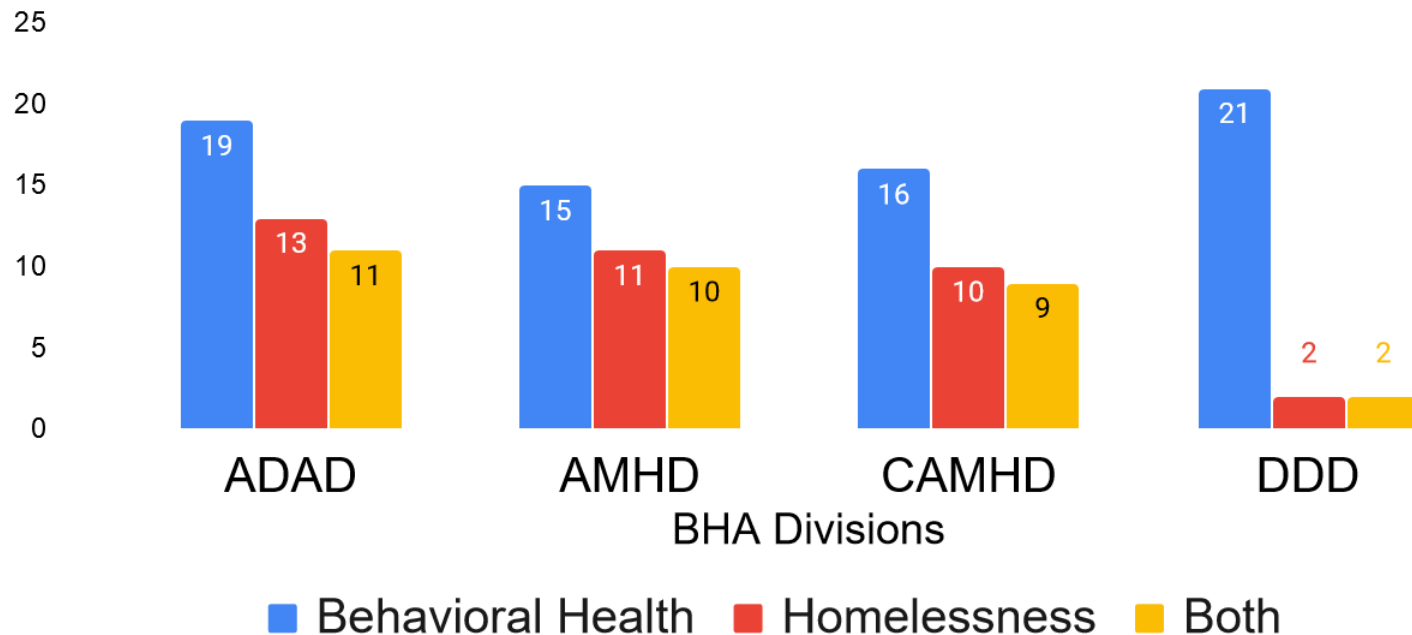
**Hawai'i Coordinated Access Resource
Entry System (CARES)**

Oahu 832-3100

Neighbor Islands 1-(800) 753-6879

BHHSURG ISOLATION & QUARANTINE UNIT

Key Message: The majority of BHA-contracted providers also provide homelessness services



SOURCE: Preliminary BHHSURG policy analysis results of BHA providers conducted by University of Hawaii Pacific Health Analytics Collaborative Dr Victoria Fan and team of undergraduate and graduate students

BHHSURG ISOLATION & QUARANTINE UNIT

IT IMPLEMENTATION SINCE MON 8/10

LIVE WEBFORMS SINCE 8/17

- ISO-QUAR REQUEST WEBFORM:
<http://go.hawaii.edu/3mr>
- ISO-QUAR DAILY ROOM CENSUS WEBFORM – completed by participating facilities daily to track room availability

LIVE SINCE 8/18

- **TigerText** – industry standard for HIPAA-compliant secure messaging for patient care coordination
- **ISO-QUAR ROOM AVAILABILITY DASHBOARD**

COVID-19 Data Dashboard

The Framework



Prevent

- Global/National
- Safe Practices
- County and State Rules



Detect

- Disease Trends
- Testing
- Infection Sources



Contain

- Case Investigation & Contact Tracing
- Isolation & Quarantine
- Test Turn-around



Treat

- Hospital Beds
- ICU Beds
- Ventilators



LIVE SINCE 9/4/20

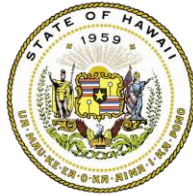
<https://hawaii covid19.com/dashboard/>

Behavioral Health and Homelessness Statewide Unified Response Group



- A synchronistic partnership between three state offices as well as the counties, the University of Hawai'i, and other partners
- Aimed at linking and syncing COVID-19 response related to:
 - Response efforts
 - Response policies
 - Response services
 - Response resources
 - Response messaging and information
- In a crisis, coordinated effort and communication is key
- Launched March 21, 2020

BHHSURG: Short Term Goals



- Continuing to connect clients with essential behavioral health and homelessness services.
- Increasing providers' access to local and federal resources to enhance and scale up essential services throughout the pandemic.
- Amplifying communication with clients, providers, and the public about how to stay connected to behavioral health and homelessness resources and efforts.
- Obtaining and distributing personal protective equipment (PPE) and other critical supplies to providers via Resilience Hubs.
- Developing safe spaces for individuals without shelter to adequately isolate and quarantine in the face of active symptomology and/or while awaiting test results.

BHHSURG Subcommittee Organization

Digital Media &
Strategic
Communications

Logistics &
Planning

Clinical &
Operational
Guidance

Contracts

Analytics,
Epidemiology &
Evaluation

Each committee includes subject matter experts
from BHHSURG partnering agencies

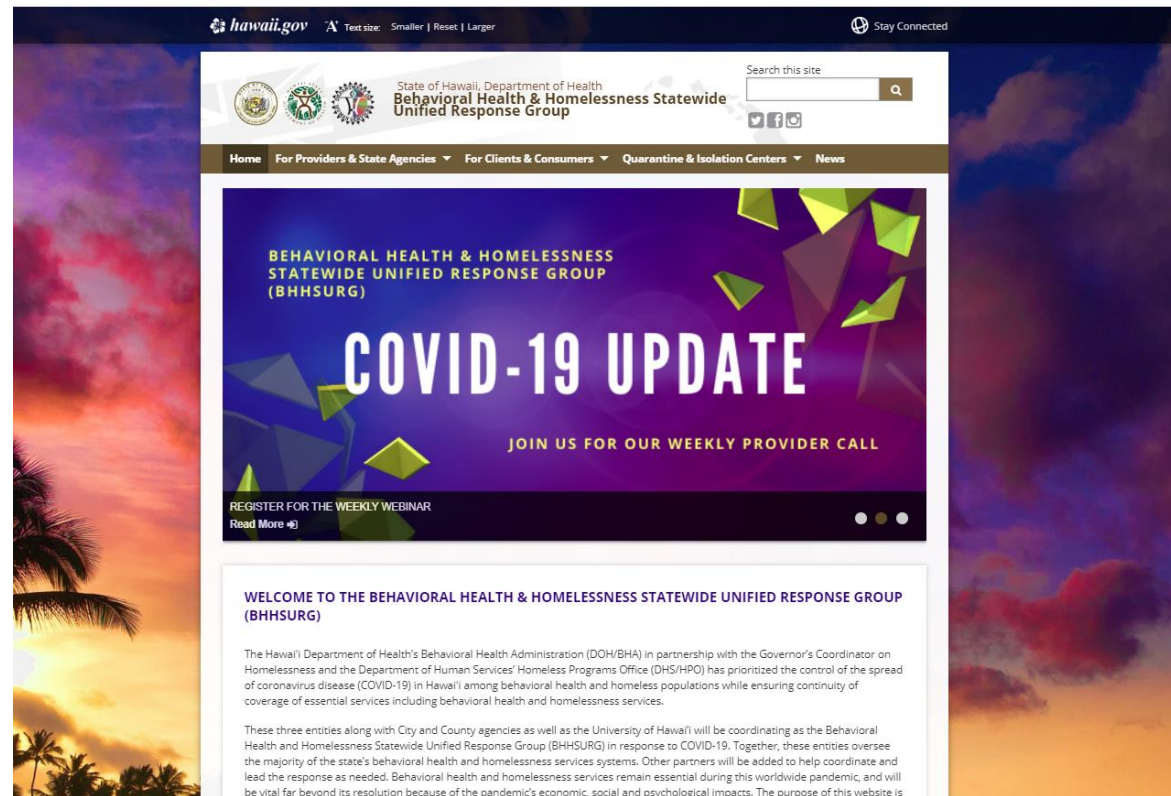
Resources and Guidance for Providers

Digital Media Resources

- Website:

<http://bhhsurg.hawaii.gov/>

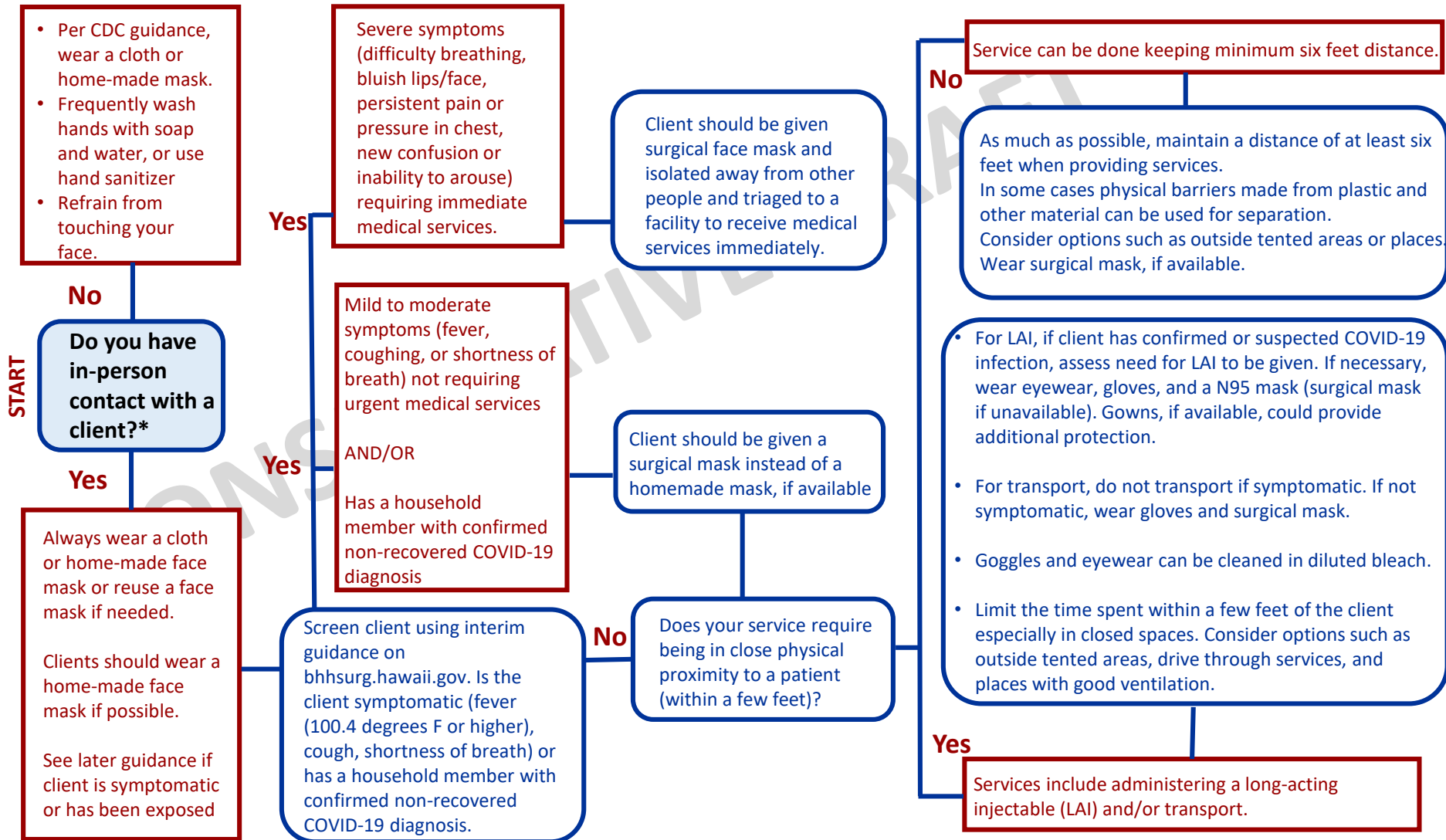
- Guidance on important topics for behavioral health and homelessness providers (e.g., telehealth, billing, administrative updates)
- “Submit a question” function (with 24-hour turnaround), staffed by clinical and administrative experts
- Linked to other state sites (e.g., hawaicovid19.com, homelessness.hawaii.gov)
- Dedicated staff examining national and local guidance
- Decision trees



Weekly Provider Webinars

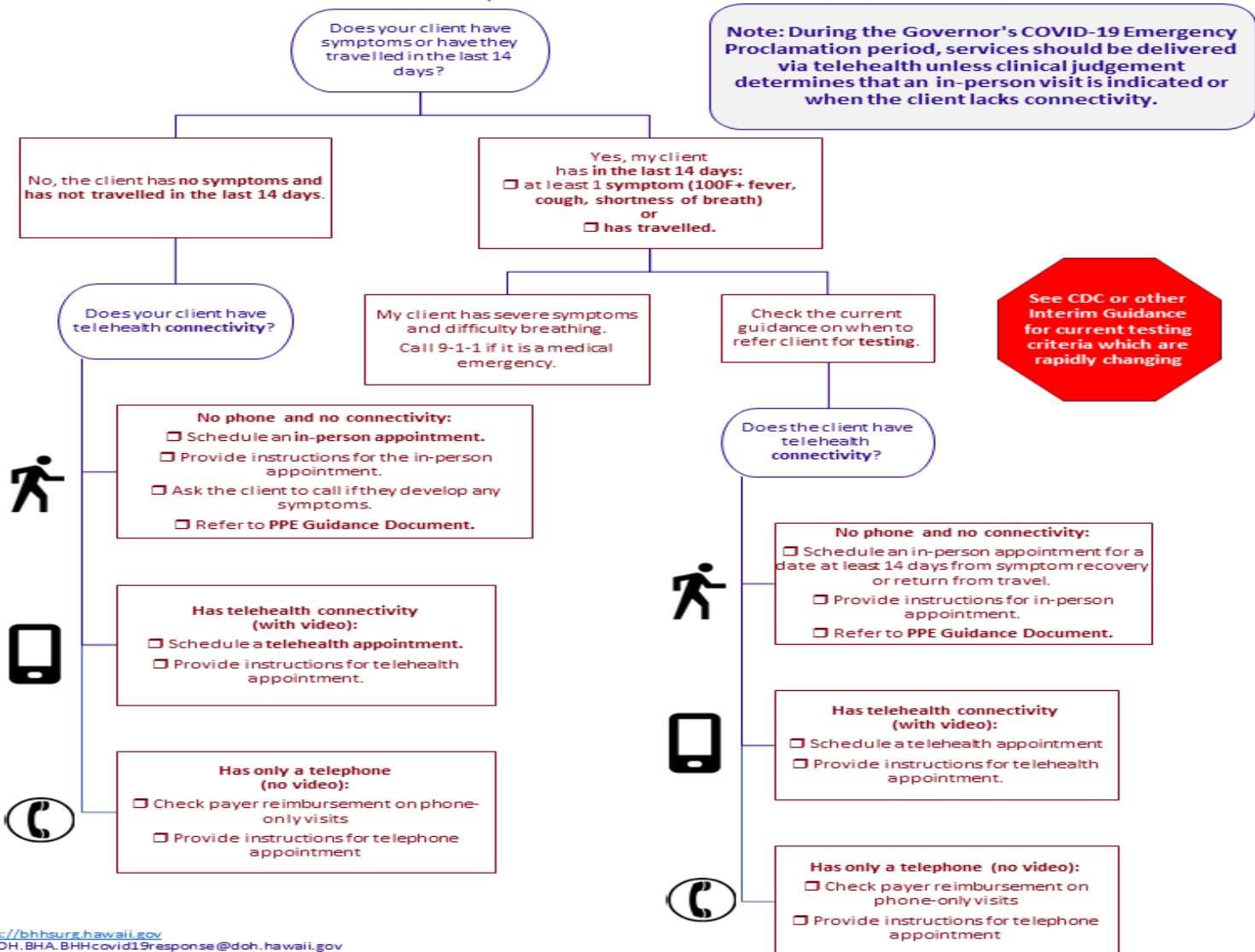
- Mondays via Zoom (12:00 PM – 1:00 PM)
 - 21 sessions since March 23, 2020
 - Informational speakers
 - Examples include: MedQuest Medical Director, Executive Director of Hawai'i Health and Harm Reduction Center, Assistant Professor of the Department of Psychiatry, City and County Representatives
 - Updates on response efforts
 - Opportunities for informal question and answer
- ~150-450 participants weekly
- Webinars are recorded and stored on the website
- Suggest specific guest speakers or topic areas:
DOH.BHA.BHHcovid19response@doh.hawaii.gov
- Sign-up: <https://health.hawaii.gov/bhhsurg/weekly-webinar/>

PPE DECISION TREE – April 8th, 2020



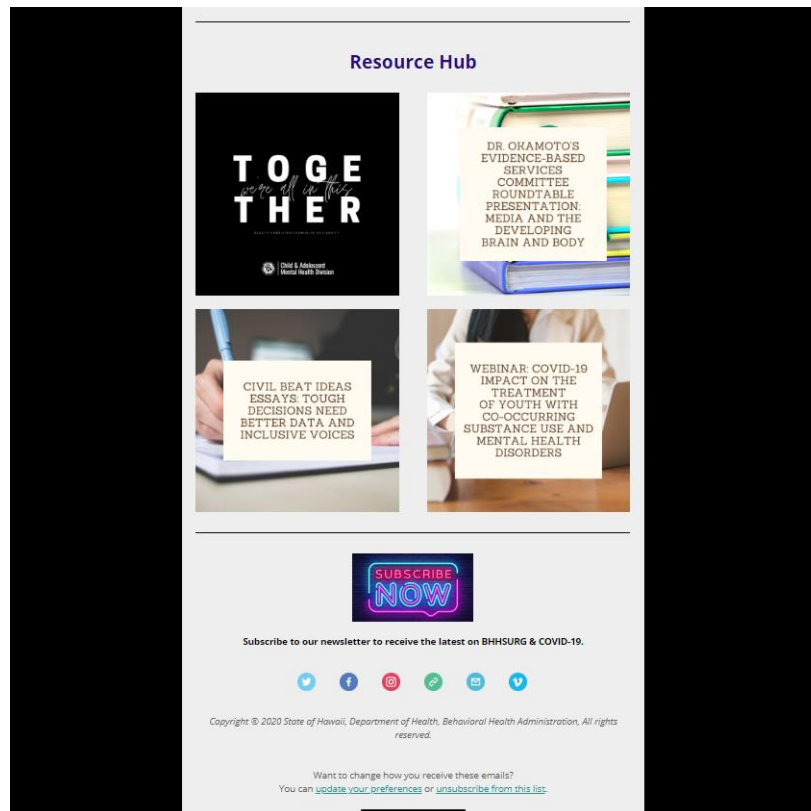
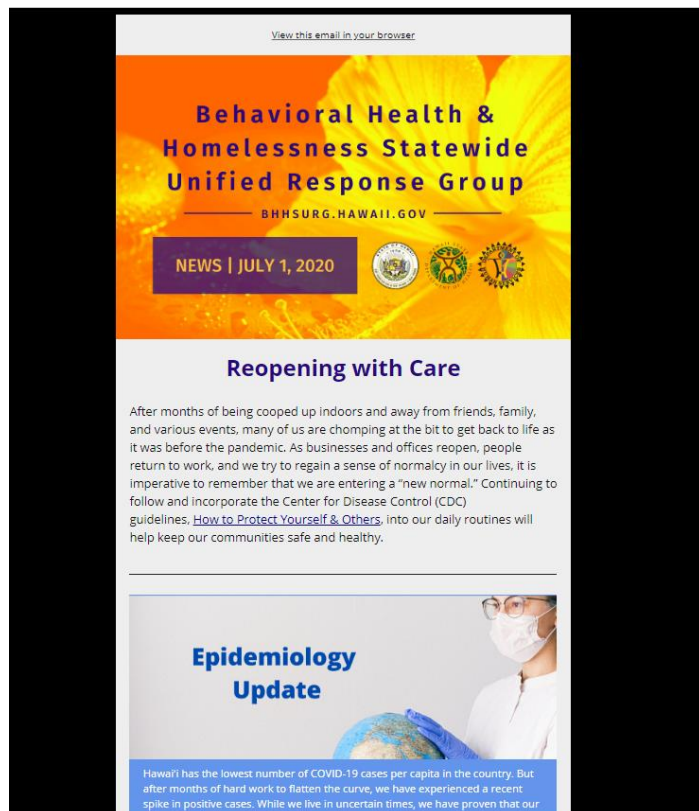
TELEHEALTH SERVICE DECISION TREE

Updated: 2020-03-27



Web: <https://bhhsurg.hawaii.gov>
Contact: DOH, BHA, BHHcovid19response@doh.hawaii.gov

Weekly Provider Newsletters



Follow BHHSURG on Social



@ B H H S U R G

#HealthyWeLiveHawaii **#SocialDistancing**
#FlattenTheCurve **#TogetherWeCan**

Resilience Hubs

Personal Protective Equipment and Supplies Request Survey

- Survey developed in order to assess and coordinate requests for PPE and other supplies
- Launched March 2020 -> Ongoing
- On website to allow providers to revise and submit additional requests as needs change
- Developed algorithm based on risk of COVID-19 exposure to ensure providers at highest risk will have access to necessary PPE



Public-Private Partnership to Secure PPE: Resilience Hubs

Donate Homemade & Un-Opened Store-Bought PPE at O'ahu Resilience Hubs



MASKS



FACE SHIELDS



DISPOSABLE GLOVES



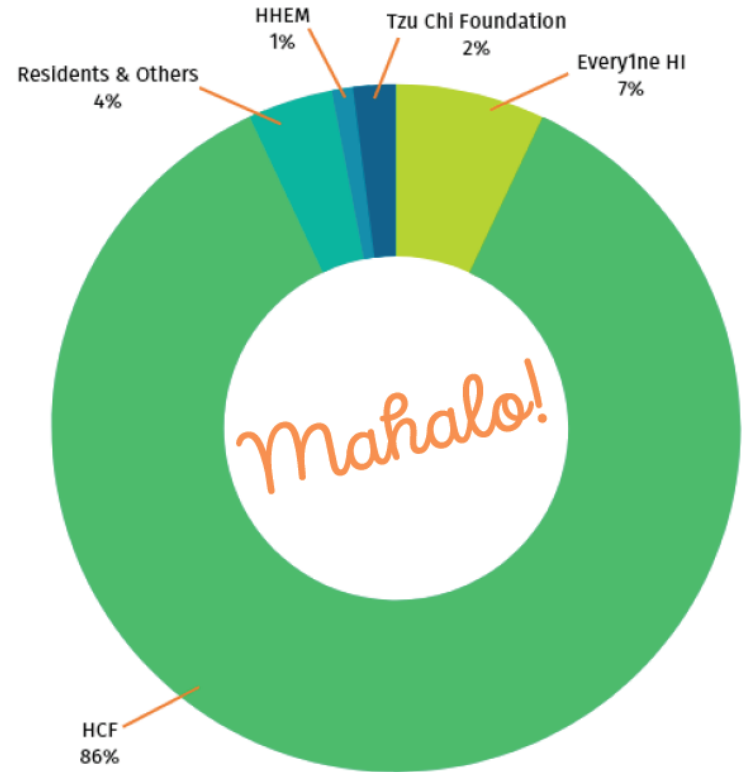
GOGGLES

KROC Center in Kapolei 91-3257 Kualakai Parkway Ewa Beach, HI 96706 Hours: Mon – Fri, 9:00 am – 11:00 am Phone: (808) 682-5505	KEY Project 47-200 Waihee Road Kāne'ohe, HI 96744 Hours: Mon – Fri, 9:00 am – 12:00 pm Phone: (808) 239-5777	Kalihi YMCA 1335 Kalihi Street Honolulu, HI 96819 Hours: Mon – Fri, 9:00 am – 11:00 am Phone: (808) 848-2494
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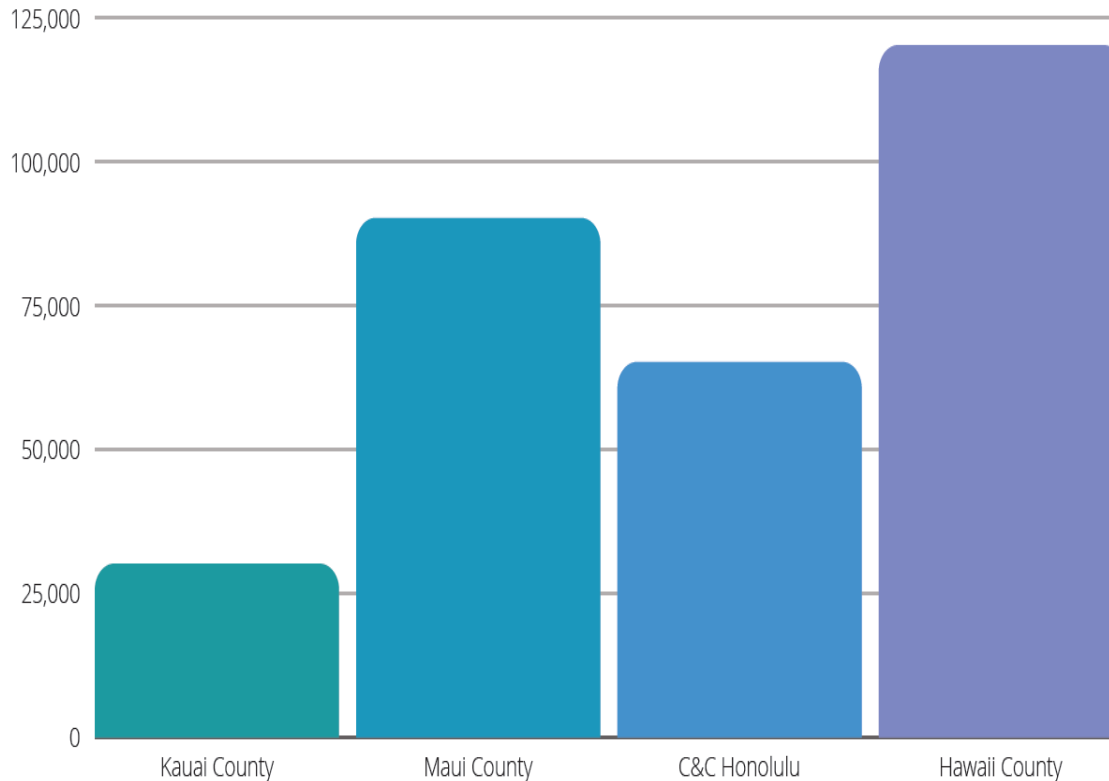
- “Resilience Hubs” developed to receive PPE for essential behavioral health and homelessness service providers
- Mahalo to:
 - Hawaii Community Foundation
 - KROC Center (Salvation Army)
 - KEY Project
 - Kalihi YMCA
 - BlackSand Capital

Personal Protective Equipment (PPE) Donations

- Three Oahu Resilience Hubs (YMCA of Honolulu – Kalihi Branch, Salvation Army Kroc Center, and KEY Project) were established on April 9, 2020 to accept PPE donations including surgical masks, homemade masks, N95 respirators, face shields, goggles, gloves, and gowns.
- Between April and July 2020, over 476,000 donated units of PPE was received from major donors such as the Hawaii Community Foundation (HCF), the Tzu Chi Foundation, Every1ne Hawaii, Iolani School, Hawaii Health Care Emergency Management, and generous residents.
- Donations from the Home Depot and numerous hotels represented by the Local 5 are, in part, being used at the Temporary Quarantine and Isolation Center (TQIC) in Honolulu.



Personal Protective Equipment (PPE) Distributions



- Of the 476,000 donated units that were received, the Resilience Hubs on Oahu and distribution partners on the Neighbor Islands, including Kamehameha Schools, on-island DOH team members, and the Hawaii Foodservice Alliance, LLC. distributed approximately 305,000 units between April and July 2020.
- Remaining units are being distributed to providers and have been assembled into "Go Kits" to be used by providers when responding to urgent community needs.

One Stop Hotline for the Public

- Crisis support to individuals experiencing a mental health crisis
- Referral to mental health services
- Identification of available beds for residential treatment to reduce wait time for entry into programs
- Triage and referral for quarantine and isolation center/facilities for unsheltered individuals
- Currently running PSAs on radio and TV and developing print collateral to reach individuals who might need the resource most



Temporary Quarantine and Isolation Centers (TQIC)

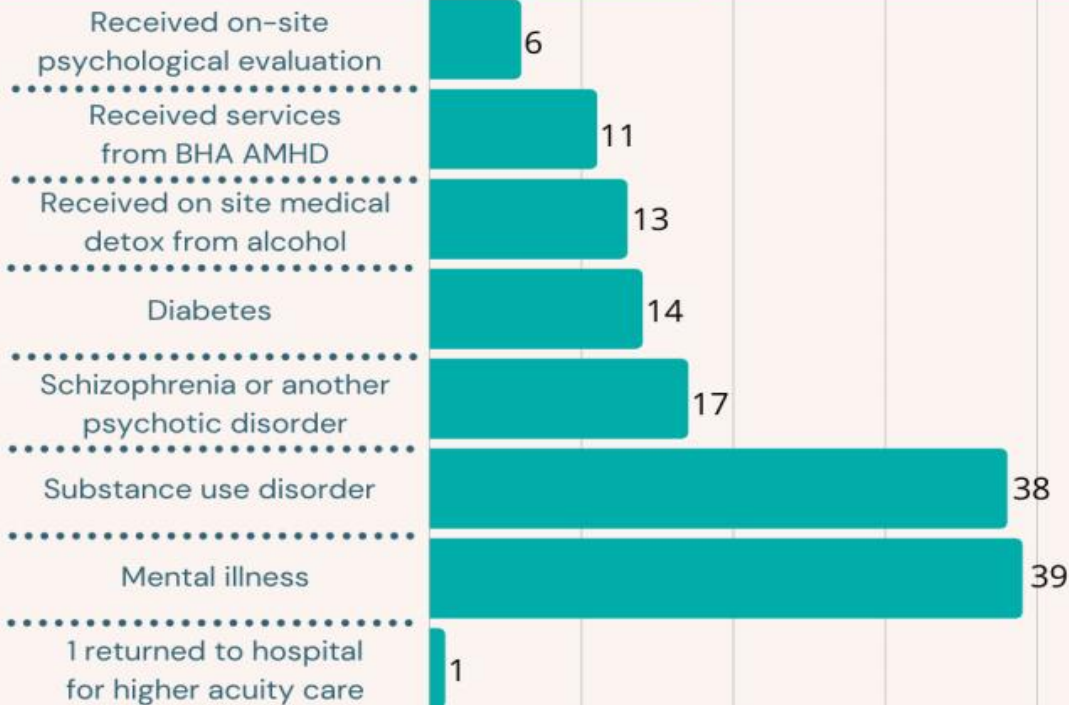
TQIC Outcomes

Housing and Shelter



To date, all 51 TQIC clients received case management services and applied for food and medical benefits

Behavioral and Physical Health Services



0 10 20 30 40

Mahalo!

[BHHSURG.HAWAII.GOV](https://bhhsurg.hawaii.gov)



edward.mersereau@doh.hawaii.gov

Q&A

CREATING A HEALTHIER HAWAI'I

**HAWAI'I
PACIFIC
HEALTH**

HAWAI'I
HEALTH
PARTNERS

Thank you!

- A recording of the meeting will be available afterwards.
- Unanswered question?
 - Contact us at Covid19Bulletin@hawaiipacifichealth.org