Infection Prevention Challenges in Congregate Residential Settings

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Overview

- Congregate residential settings
- Safety consultations
- Challenges and strengths
- Resources

Infection prevention and control resources



- A facility where individuals reside in close proximity with one another for a limited or extended period of time
- Heterogeneous group of sites with diverse needs
- Many sites were not prepared for a public health emergency



- Nursing homes and adult care facilities
 - New York State (NYS) Department of Health
- Residential programs for individuals with developmental disabilities
 - NYS Office for People With Developmental Disabilities (OPWDD)
- Residential substance abuse treatment programs
 - NYS Office of Addiction Services and Supports (OASAS)



- Residential programs for individuals with mental health conditions
 - NYS Office of Mental Health (OMH)
- Residential programs for individuals living with HIV/AIDS
 - New York City (NYC) Human Resources Administration (HRA)
- Residential facilities for youth
 - Department of Youth and Community Development
 - Administration for Children's Services
- Supportive housing (e.g., mental health, substance use treatment centers)



- Shelters
 - NYS Department of Homeless Services (DHS)
- Correctional facilities
 - NYC Department of Corrections (DOC)
 - NYS Department of Corrections and Community Supervision (DOCCS)
 - Federal Bureau of Prisons (BOP)
- Religious institutions with on-site residences (e.g. convents, monasteries)



Unique Challenges in Congregate Residential Settings

- Facilities designed for group activities now dealing with limitations on visitation, social activities, medical services, and ancillary services
- Staff with minimal or no medical experience are asked to manage residents with COVID-19 and other complex needs
- Difficulty maintaining staffing levels if high percentage are out sick or quarantined
- Very little infection prevention and control experience, capacity or oversight in non-long term care facilities (LCTF) settings
- Varied capacity for on-site isolation, quarantine or testing



Congregate Settings Investigation and Response Unit (CSIRU)

• Established at the NYC Department of Health and Mental Hygiene (NYC Health Department) in May 2020

Core Activities:

- Identify COVID-19 cases and contacts in congregate residential settings
- Conduct case investigations and assess ongoing transmission
- Provide facilities and organizations with additional support, resources, and capacity building
 - Safety consultations, on-site testing, vaccine coordination, fit testing training



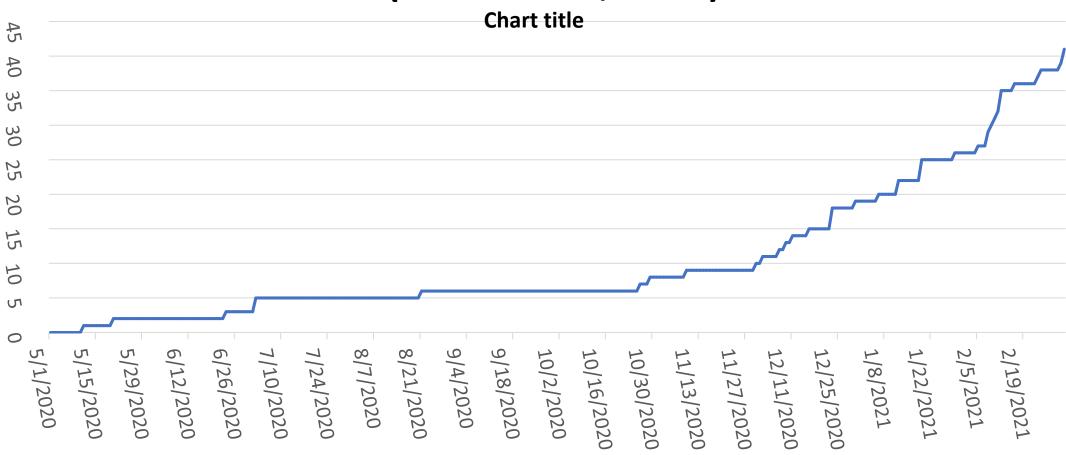
Safety Consultations

- Provide comprehensive infection prevention and control evaluations, with sitespecific recommendations
- Consultations can be either in-person or virtual
- Utilize a team of Infection Prevention and Control (IPC) specialists, subject matter experts (SMEs), educators and evaluators
- Offer non-regulatory, non-punitive assessments of various IPC domains:
 - Infrastructure
 - Screening and testing
 - PPE, staffing, and staff safety
 - Environmental cleaning
 - Supplies and resources
 - Communications and educational strategies



CSIRU Safety Consultations

(Cumulative, n=41)







Safety Consultations

- 41 safety consultations since May 11, 2020
- 33 in-person
- 8 virtual visits

Site Type	Number
Nursing Homes	1
Adult Care Facilities	7
OPWDD sites	6
Supportive Housing	7
Youth Sites	3
Substance Use Centers	2
Transitional Residences	4
Homeless Shelters	6
Drop-In Centers	5
Total	41



Facility Infrastructure

 Many residences are not designed for health care delivery, isolation or quarantine

- Limited mobility
 - Elevators, staircases, narrow hallways
- Shared or dorm-style sleeping areas



Image source: Getty Images



Facility Infrastructure

- Communal spaces are meant for group activities
 - Often small and do not allow for physical distancing
 - Dining areas, bathrooms, kitchens
- Lack of dedicated areas for isolation and quarantine
 - Bedrooms may not have attached or private bathrooms
- Unclear boundaries between staff and resident care areas
- Shared and densely populated staff areas
- Poor ventilation



PPE

- Overuse and misuse of gloves and isolation gowns
 - Gloves worn all the time or in inappropriate settings
 - Gowns and gloves worn throughout the residence
- Lack of eye protection use
 - Can be difficult to discern which interactions necessitate eye protection in a residential setting
- Limited space for safe and convenient PPE disposal and storage
 - Where to doff and dispose used PPE?
 - Where to store PPE for convenient donning?
- Lack of standard PPE training for staff



Staffing

- Staff-to-resident ratios can interfere with physical distancing
 - Communal areas become overcrowded
 - Additional spaces go unused due to lack of staffing to supervise residents
- Staffing shortages limit the ability to safely isolate or quarantine
- Staff work in multiple sites
- Contracted staff are common, may not be familiar with facility COVID-19 prevention measures
- Lack of infection prevention or clinical staff



Education and Communication

 Signage is often limited in order to maintain residential appearance of the facility

 Signage is not standardized and may be too complex or difficult to comprehend

 Lack of educational materials tailored to specific communities or audiences



Supplies and Equipment

- Lack of proper hand hygiene supplies
 - Difficult to place conveniently located hand sanitizer dispensers
 - Lack of automatic dispensers
 - Hard to source refills for soaps and sanitizers
- Disinfectants have long contact times (i.e., 10 minutes)

No-touch thermometers give inaccurate readings



Resident Factors

- Residents are independent and may leave the facility without notification
 - Difficult to discern risk while residents are offsite and limited ability to identify possible sources of infection
- Many settings serve transient communities, particularly shelters and drop-in centers
- Underlying conditions may make it difficult to adhere to infection prevention recommendations
- Vaccine confidence is low in certain populations



Identified Strengths

- Many self-initiated positive efforts
- Utilizing existing infrastructure in creative ways
- Offering incentives for staff for regular testing
- Staff and residents involved in environmental cleaning initiatives
- Organizations centralizing and standardizing messaging and communications
- Amending work-exclusion policies and use of "COVID time" paid leave to be used if diagnosed or exposed to COVID-19
- Expanding virtual visits and telehealth



IPC Recommendations

Infrastructure

- Increase ventilation by opening windows
- Post placards or floor stickers to encourage physical distancing
- Arrange staff spaces so physical distancing is possible
- Create physical barriers when distancing is not possible
- Use common spaces creatively (storage, flow)
- Develop isolation and quarantine plans, including use of hotels
- Block off stalls in shared bathrooms
- Stagger meal times



IPC Recommendations

• PPE

- Routinely educate staff on proper PPE use
- Reinforce hand hygiene rather than inappropriate glove use
- Use movable drawers to store PPE outside of resident rooms
- If PPE cannot be doffed inside the resident's room, place garbage cans directly outside of the room for safe disposal of used PPE

Staffing

- Identify a point-person for IPC monitoring
- Encourage staying home when sick or exposed



IPC Recommendations

Communications

- Use signage that is easy to ready with simple images and text
- Include residents in IPC process
- Empower residents to be engaged in COVID-19 prevention by becoming IPC champions

Supplies and Equipment

- Evaluate cleaning products for virucidal activity and contact time
- Install automatic soap and paper towel dispensers



Resources

- Offsite isolation or quarantine
 - Health and Hospitals (H+H) Take Care Hotels
 - Facility completes and emails the Hospitals and Congregate Providers Isolation Hotel Referral Form and HIPAA Form to H+H.
 - NYC Department of Homeless Services (DHS) Isolation and Quarantine Hotels are available to residents of DHS shelters and of NYC Human Resources Administration (HRA) facilities.
 - DHS shelters contact DHS's Serious Incident Unit and HRA facilities contact their assigned HRA representative to procure hotel rooms for their residents.



Resources

- NYC PPE Service Center through Medline
 - Developed to allow organizations to order from an emergency PPE stockpile. To check for eligibility and register, facilities should email PPEsupport@health.nyc.gov.
- Take Care Packages
 - A facility can request packages through its point of contact at NYC Health Department or by emailing <u>CSIRU@health.nyc.gov</u>.
- Mental health resources for <u>staff</u> and <u>community members</u>
- Hiring assistance for businesses



Resources

- Distillation and dissemination of guidance documents from various agencies
 - COVID-19 guidance documents for congregate and residential facilities
- On-demand IPC technical assistance
 - A facility can request a safety consultation through its point of contact at NYC Health Department or by emailing <u>CSIRU@health.nyc.gov</u>.
- On-site testing
 - If multiple COVID-19 cases are identified in a facility and there is a concern about intra-facility transmission, the facility can request testing by emailing covidtestingcsiru@health.nyc.gov.



Actions

- Vaccination coordination
 - Lead Vaccine 101 webinars to share information about the vaccine, build vaccine confidence and address common questions
 - Telephone outreach to nursing homes and adult care facilities with lower than average number of staff and residents vaccinated to identify barriers and provide resources
 - Conduct tracking and surveillance to monitor vaccination uptake and inform additional efforts
- Respiratory protection training and testing program
- Advocate for responsible policies
 - Paid sick leave



Summary

- Congregate residential settings have many unique characteristics and challenges that can make COVID-19 transmission difficult to control
- Early identification and intervention is effective strategy for containment and control
- Focus on infection prevention and control fundamentals and adapt to setting type
- Provide a comprehensive strategy that includes testing, effective isolation and quarantine and PPE use
- Encourage vaccine confidence!



Thank You

