I-VAC Adult Learning Collaborative for COVID-19 Vaccination



Please use your first name and health center name when you join the session



Use the "chat" feature to let us know if you have a question



Please remember to mute your microphone unless speaking



If you can't connect audio via computer or lose computer audio at anytime, you can call in to session at (669) 900-6833, Meeting ID 812-8864-4528##





Disclosures

- No one in a position to control the education content of the activity has any relevant financial disclosures with ineligible companies to disclose.
- What gets said here today may change based on new data and recommendations
 - Knowledge is shared more rapidly through ECHO







Updates in COVID-19

Stephen Schrantz, MD

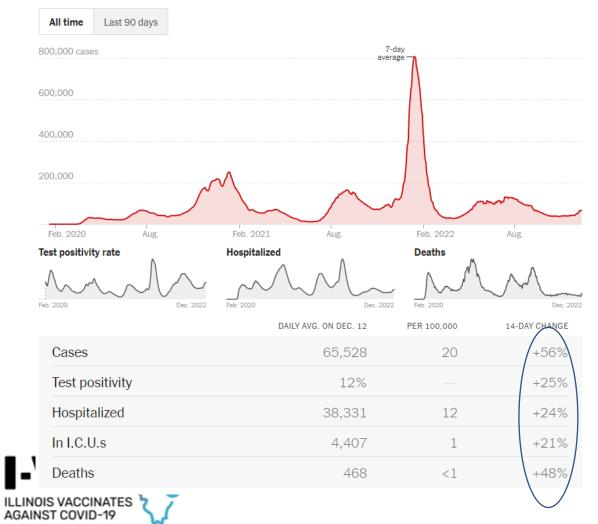
December 14, 2022

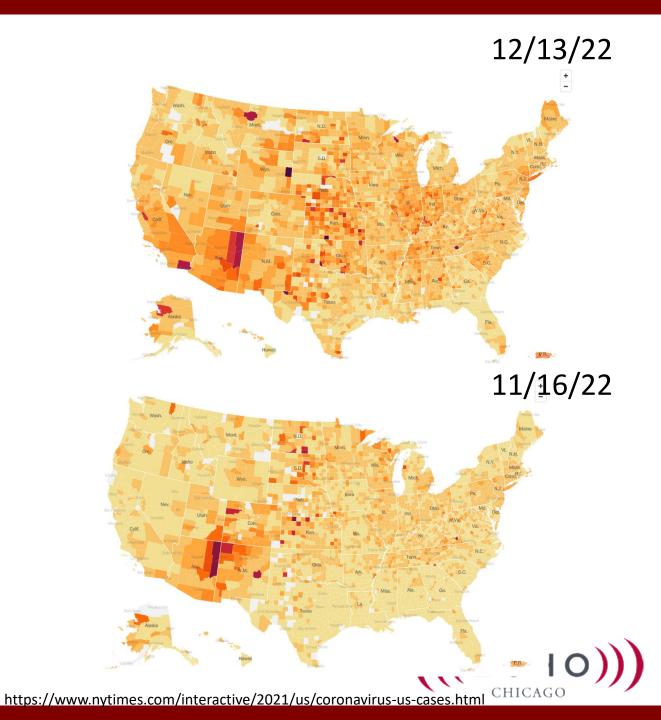




Coronavirus in the U.S.: Latest Map and Case Count

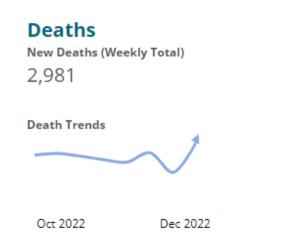
New reported cases

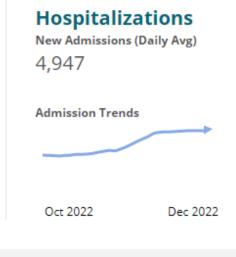


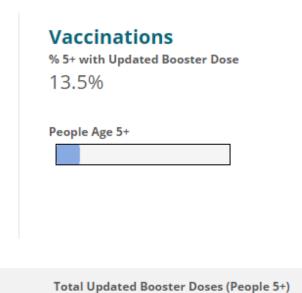


Daily Update for the United States









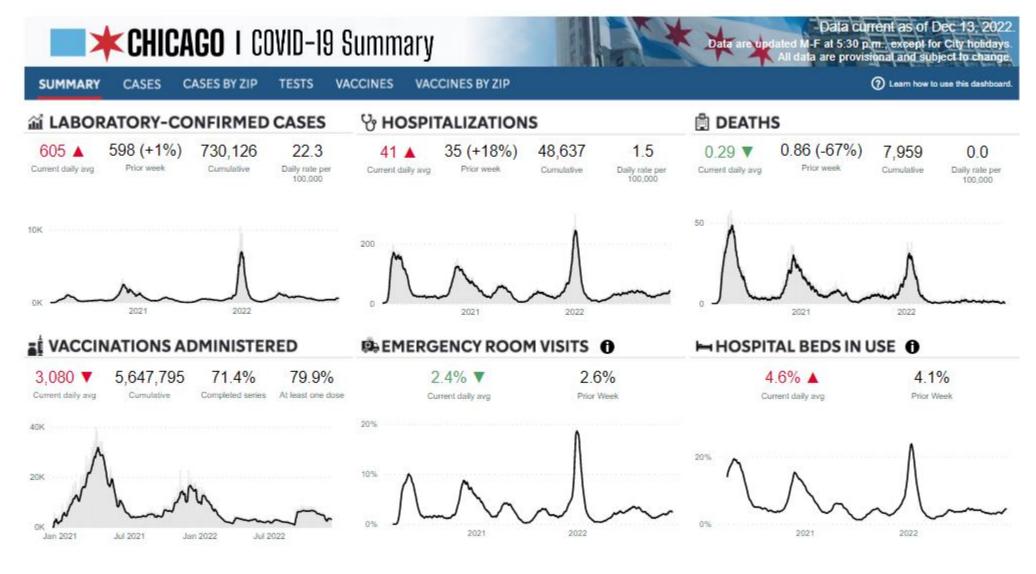
Total Cases 99,241,649 Total Deaths 1,080,472 Current Hospitalizations 29,854

42,017,288

CDC | Data as of: December 13, 2022 4:06 PM ET. Posted: December 13, 2022 4:59 PM ET







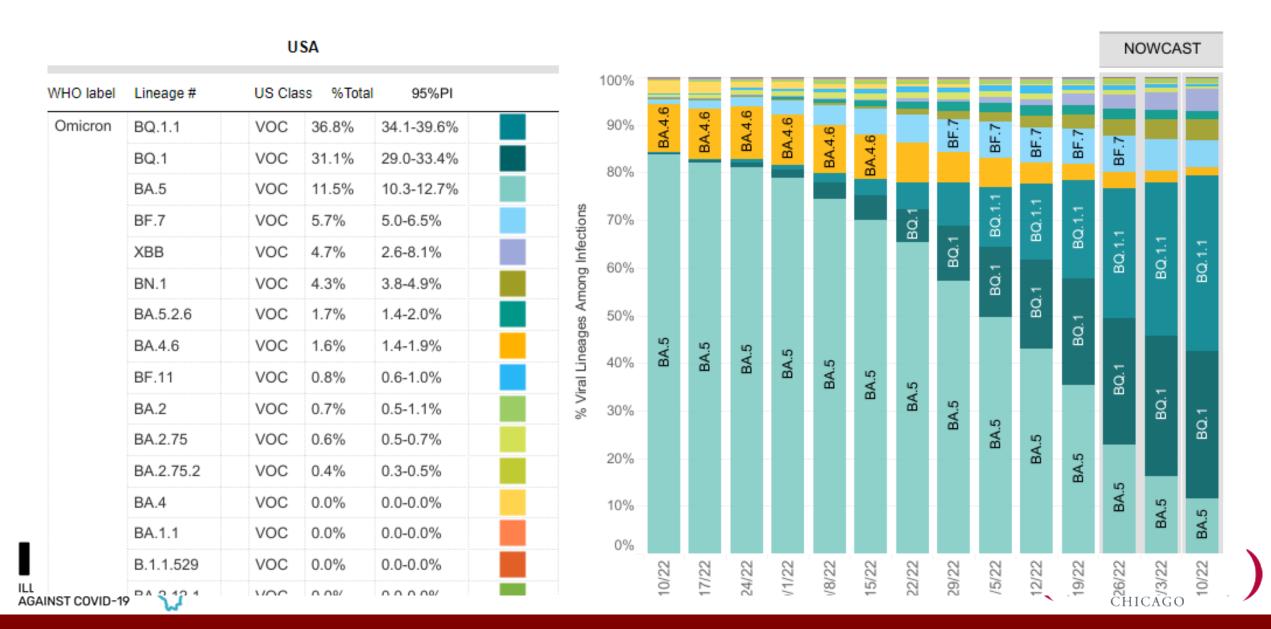


L-Y Chicago's COVID-19 Risk Level is MEDIUM

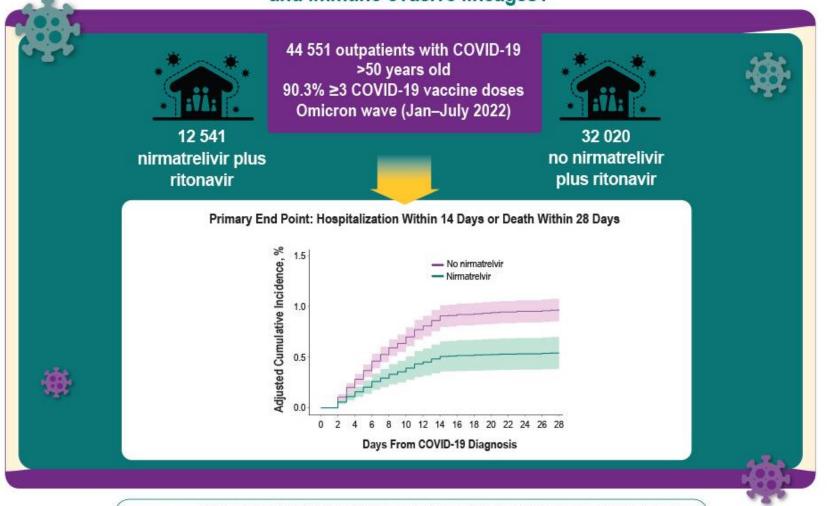


United States: 12/4/2022 - 12/10/2022 NOWCAST

United States: 9/4/2022 - 12/10/2022



Does nirmatrelivir plus ritonavir (Paxlovid) reduce risk for hospitalization or death among outpatients with COVID-19 in the setting of prevalent SARS-CoV-2 immunity and immune-evasive lineages?



The overall risk for hospitalization or death was already low (1%) after an outpatient diagnosis of COVID-19, but nirmatrelvir plus ritonavir reduced this risk further.



AGAINST COVID-19

Dryden-Peterson S, Kim A, Kim AY, et al. Nirmatrelvir plus ritonavir for early COVID-19 in a large U.S. health system. A population-based cohort study. Ann Intern Med. 13 December 2022. [Epub ahead of print]. doi:10.7326/M22-2141 http://acpjournals.org/doi/10.7326/M22-2141

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Walgreens Launches <u>Free</u> Paxlovid Delivery Services with DoorDash & Uber

 Eligible patients must have a Paxlovid prescription from a healthcare provider. After the pharmacy has filled the prescription and before it gets picked up, individuals can go online to select Same Day Delivery by visiting

Walgreens.com/PrescriptionDelivery, the Walgreens app or by calling their store







The "Tri-demic"

- Influenza, RSV and SARS CoV-2 are all circulating presently
- The cumulative hospitalization rate in the FluSurv-NET system is higher than the rate observed in week 48 during every previous season since 2010-2011
- RSV continues to be a historic levels, but is declining
- The only real way to "know" is to test

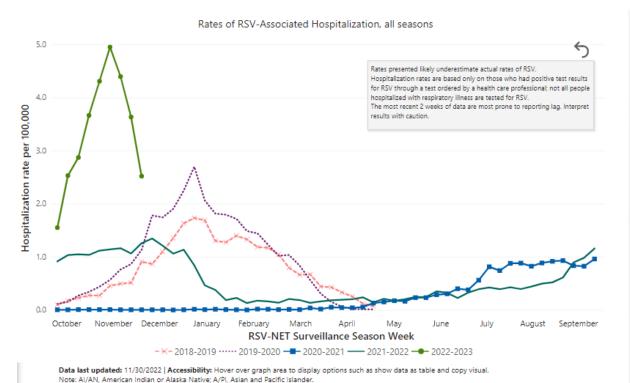
Symptoms ▼	Cold	Flu	Covid-19	R.S.V.
☐ Cough	•••	•••	•••	•••
☐ Difficulty breathing	•	•	•••	••
☐ Fatigue	••	•••	•••	•
☐ Fever	•	•••	••	••
☐ Headaches	••	•••	•••	••
☐ Muscle pain or body aches	••	•••	••	•
☐ New loss of taste or smell*	•	•	••	•
☐ Runny or stuffy nose	•••	••	••	•••
☐ Sneezing	•••	••	••	••
☐ Sore throat	•••	••	•••	•
☐ Vomiting or diarrhea	•	••	••	•
☐ Wheezing	•	•	•	•••

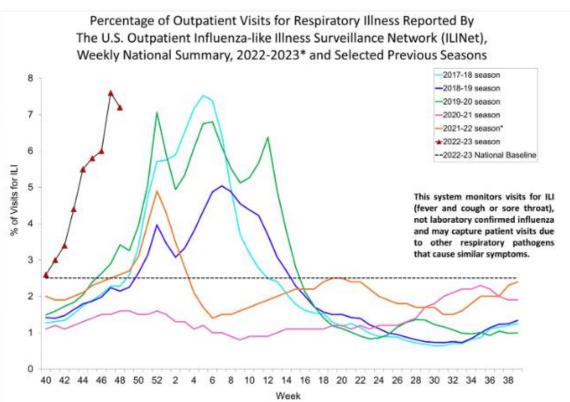
^{*}A stuffy nose may temporarily decrease the ability to taste or smell but it does not cause a sudden, complete loss of these senses. • Source: Centers for Disease Control and Prevention





RARELY
 SOMETIMES
 OFTEN









Mental Health in the Time of COVID-19

Daniel Yohanna, MD
Associate Professor of Psychiatry,
Interim Chair, Department of Psychiatry and Behavioral Neuroscience
University of Chicago Medicine

December 14, 2022





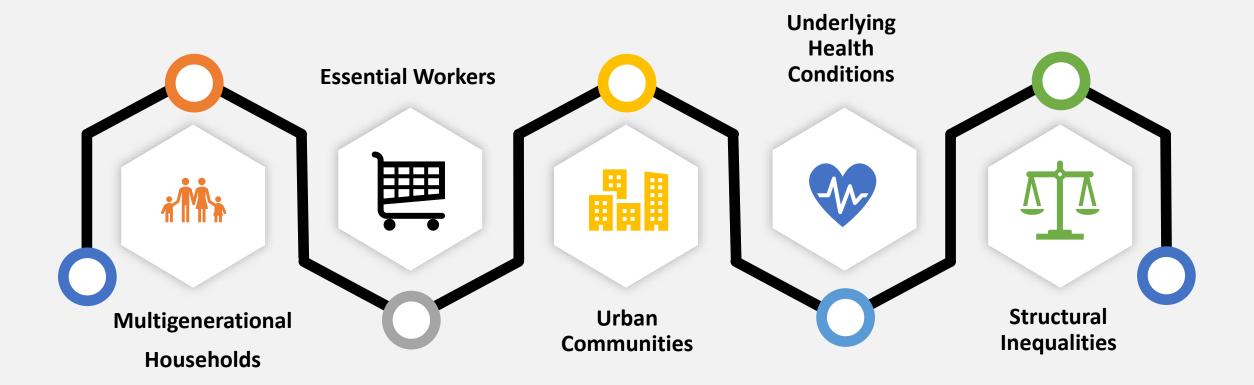
The Problem: as of 12/14/2022

- Worldwide an estimated 654,692,749 people have been infected with the COVID-19
 - 6,661,628 died
- In the U.S. 101,413,047 have been infected (the most of any country in the world)
 - 1,110,510 have died (the most of any country in the world)
 - Johns Hopkins Coronavirus COVID-19 (2019-nCoV) (arcgis.com)
- New strains of the virus have been detected in 33 countries
- 80% vaccinated; 68% of US adults fully vaccinated (two)
- But it has not been affected everyone uniformly in the U.S.





FACTORS IN COVID-19 INFECTIONS







Mental Health for Patients

- Psychiatric Complications in the Population
 - 40% of respondents in June 2019 report depression or anxiety(31%), traumatic stress (26%), 个SUD (13%), or SI (11%)
 - Elevated in Black, Hispanic, essential workers, unpaid adult caregivers, and those with preexisting psychiatric disorders (Czeisler 2020 CDC)
 - Many COVID-19 survivors will be left traumatized by their ICU experience
 - One in five COVIDd-19 patients are diagnosed with a mental illness within three months 29% with depression (Vindegaard 2020)
 - Over half of those who respond to postal questionnaire following treatment on ICU in the UK reported significant symptoms of anxiety, depression or PTSD. When symptoms of one psychological disorder are present, there is a 65% chance they will co-occur with symptoms of one of the other two disorders.
 - Depression following critical illness is associated with an increased mortality risk in the first 2 years following discharge from ICU
- Neurologic Complications (Varatharaj 2020)
 - Of 125 patients with complications 62% have Cerebrovascular events, 31% had Mental Status changes
 - Stroke> altered mental status: delirium>psychosis> affective disorders





Mental Health for Health Care Workers (HCWs)

- Psychiatric Complications in Health Care Workers
 - Health care workers 2 years after SARS outbreak elevated rates of smoking, drinking, absenteeism, presenteeism. (Lance 2008)
 - 20% of ICU workers will have PTSD after 2 months exposure
 - Burnout is increasing. Over 50% of physicians report being burned out
 - 78% of psychiatrists in No. America had high burnout score; 16.1% had PHQ-9>10 (Summers 2020)
 - In all HCWs 23.2% with anxiety, 22.8% with depression, 38.9% with insomnia (Pappa 2020)





Disaster: An event that requires **resources** beyond the capability of a community and requires a multi-institutional response

FEMA Jul 28, 2006

Trauma: An event that requires coping resources beyond the capability of an individual

Stress: A state in which the body devotes coping resources in response to an environmental challenge

Burnout: A depressive like state, usually in reference to the workplace, and originally describing healthcare workers without sufficient resources.

Traumatic Stress + Burnout = Compassion Fatigue





Burnout

- **Emotional depletion**: feeling frustrated, tired of going to work, hard to deal with others at work. Question#1: "I feel burned out from my work"
- <u>Detachment/cynicism</u>: being less empathic with patients/others, detached from work, seeing patients as diagnoses/objects/sources of frustration
- Low personal achievement: experiencing work as unrewarding, "going through the motions"
- <u>Depersonalization</u>: thoughts and feelings seem unreal or not belonging to oneself Question#2: "I have become more callous toward people since I took this job"
- Measured by Maslach Burnout Inventory. 22 questions, 7-point Likert scale but 2 questions above have most significant impact at once per week or more





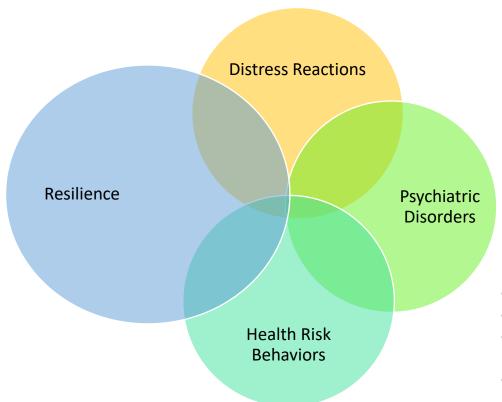
Compassion Fatigue

- Compassion Fatigue: Secondary traumatic stress related breakdown in the ability to give compassionate care to another person
 - **Cognitive:** poor concentration, perfectionism, preoccupation with trauma, self-harm thoughts
 - Emotional: anxiety, guilt, shutdown, numbness
 - Behavioral: withdrawn, irritable
 - Spiritual: questioning the meaning of life
 - **Personal relations:** withdrawal, decreased interest in intimacy
 - **Somatic:** shock, swearing, somatic complaints
 - Work performance: low morale, low motivation, avoiding tasks, detachment





Responses to a Disaster



- Sleep difficulties
- Decreased Sense of Safety
- Physical (Somatic)
 Symptoms
- Irritability, Anger
- Distraction, Isolation
- Depression
- PTSD
- Anxiety
- Complex Grief
- Alcohol, Tobacco, Rx meds
- Family Distress
- Interpersonal Conflict/Violence
- Disrupted Work/Life Balance
- Restricted Activities/Travel





What is Resilience?

- The capacity to withstand stress and catastrophe.
- The ability to work through emotions and effects of stress and painful events.
- A product of developmental, cognitive, and affective psychological processes.





Creating Resilience

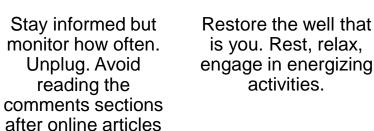


Unplug. Avoid

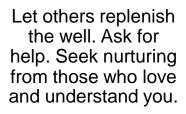
reading the

or blog posts. Limit

your exposure to triggers.









Stay spiritually grounded. Prayer, mindfulness connect with whatever your higher power may be.



Remember your body. Relax, meditate, exercise, eat well, sleep, and BREATHE. Avoid or minimize use of tobacco, alcohol, drugs, and caffeine.



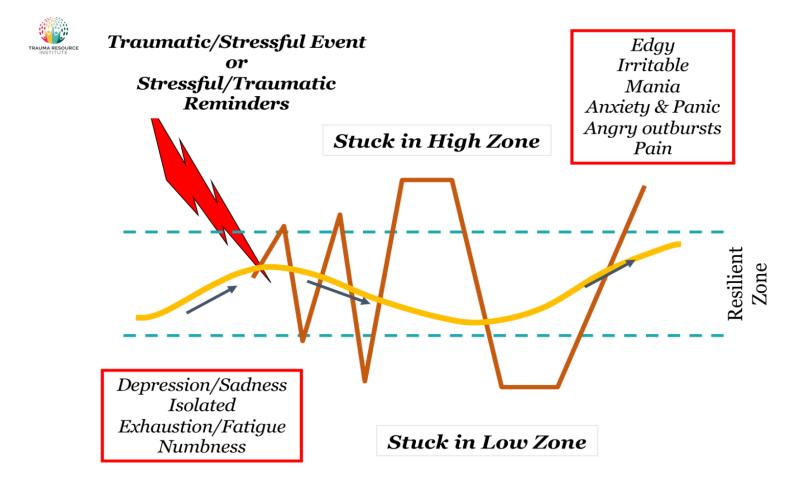
Be intentionally kind and gentle with yourself and those around you. Laugh, practice random acts of kindness, speak positively to yourself and others.





Community Resiliency Model (CRM)

My thanks to Dr. Linda Grabbe and Jordan Murphy. Trauma Resource Institute







Community & Trauma Resiliency Skills

- Community Resiliency Model: www.ichillapp.com
- Tracking
 - Find comfort in your body
- Resourcing
 - What gives you pleasure and strength. Describe it
- Grounding
 - Find a comfortable position; "Mindfulness"; 3-minute exercise
- Gestures
 - Self-calming or self-soothing movements
- Shift and Stay
 - Shift attention away from uncomfortable sensations using above skills. Stay there





Conclusion: What is Resilience?

- 1. A supportive social network
- 2. Social capital: mentors, role models past and present
- 3. Viewing oneself as a survivor rather than victim; grit; tenacity
- 4. Facing one's fears and minimizing avoidance: acceptance of negative emotions as normal
- 5. Using emotion regulation skills: self soothing, distraction, mindfulness, acceptance, interpersonal skills
- 6. Positive emotions: compassion, forgiveness, gratitude, joy, empathy, love, humor
- 7. Meaning making pro-social activities as an altruistic gift; living by one's values
- 8. Physical activities, sleep hygiene, good nutrition, and avoidance of high-risk activities





Psychiatric Symptoms Post Vaccination

- 14 cases published describing psychiatric side effects within 10 days of vaccination
 - Altered MS: for example disorientation
 - Psychosis: hallucinations
 - Mania
 - Depression
 - Functional neurological disorders: catatonia, facial paralysis arm or leg weakness





Post Vaccine Psychiatric Symptons

- Vaccines increase in pro-inflammatory cytokines
 - Can cause a cytokine storm
 - NMDA receptor hypofunction which increases dopamine and possibly psychotic symptoms
 - Other theory is this is an NMDA encephalitis
- Less likely with mRNA vaccine
- Occurs mostly in young to middle-aged adults

(Balasubramanian 2022)













What topics are of interest to you?





CME credits

You can claim CME credits for all IVAC Adult Learning Collaborative sessions between October-December 2022 together. Attendance will be sent out next week.

Next Session: Wednesday, February 1st

For any questions, email us at kshwest@peds.bsd.uchicago.edu





