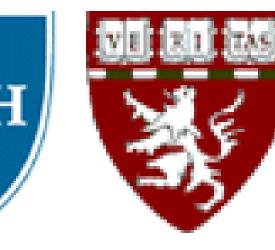
Leveraging psychiatric providers and settings to maximize vaccinations in patients with serious mental illness

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Background







- Patients with serious mental illness have:
 - o Increased risk of hospitalization and mortality from respiratory infections, including COVID19, influenza, and pneumonia (1,2)
 - Low vaccination rates partly due to low health literacy, attitudinal hesitancy, and practical barriers (2,3)
- Psychiatric clinics, where patients are seen frequently and longitudinally, provide an ideal venue for a multipronged approach.
 - Psychiatric providers are best positioned to promote the healthy behavior of vaccination given their expertise in motivational interviewing and nudging (3)
 - Mobile Vaccine Clinics in psychiatric settings can remove practical barriers to accessing vaccines

Jan 2021~

Intervention 1:

Dec 2020

COVID19 Vaccine Rollout

- Engaging psychiatric providers
- In-service education and resources to psychiatric providers at a North Suffolk community mental health center in Boston, MA to enhance COVID19 vaccine knowledge, to identify vaccine hesitant patients, and to resolve patients' vaccine ambivalence via motivational interviewing and nudging.
- Vaccination Monitoring Tool in electronic medical records to help providers discuss and track COVID19 vaccination intention, hesitancy, and uptake at each outpatient visit.
- Med-Psych Integration Clinical Rounds monthly to review the progress as a clinic

June 30, 2021

Intervention 1 results:

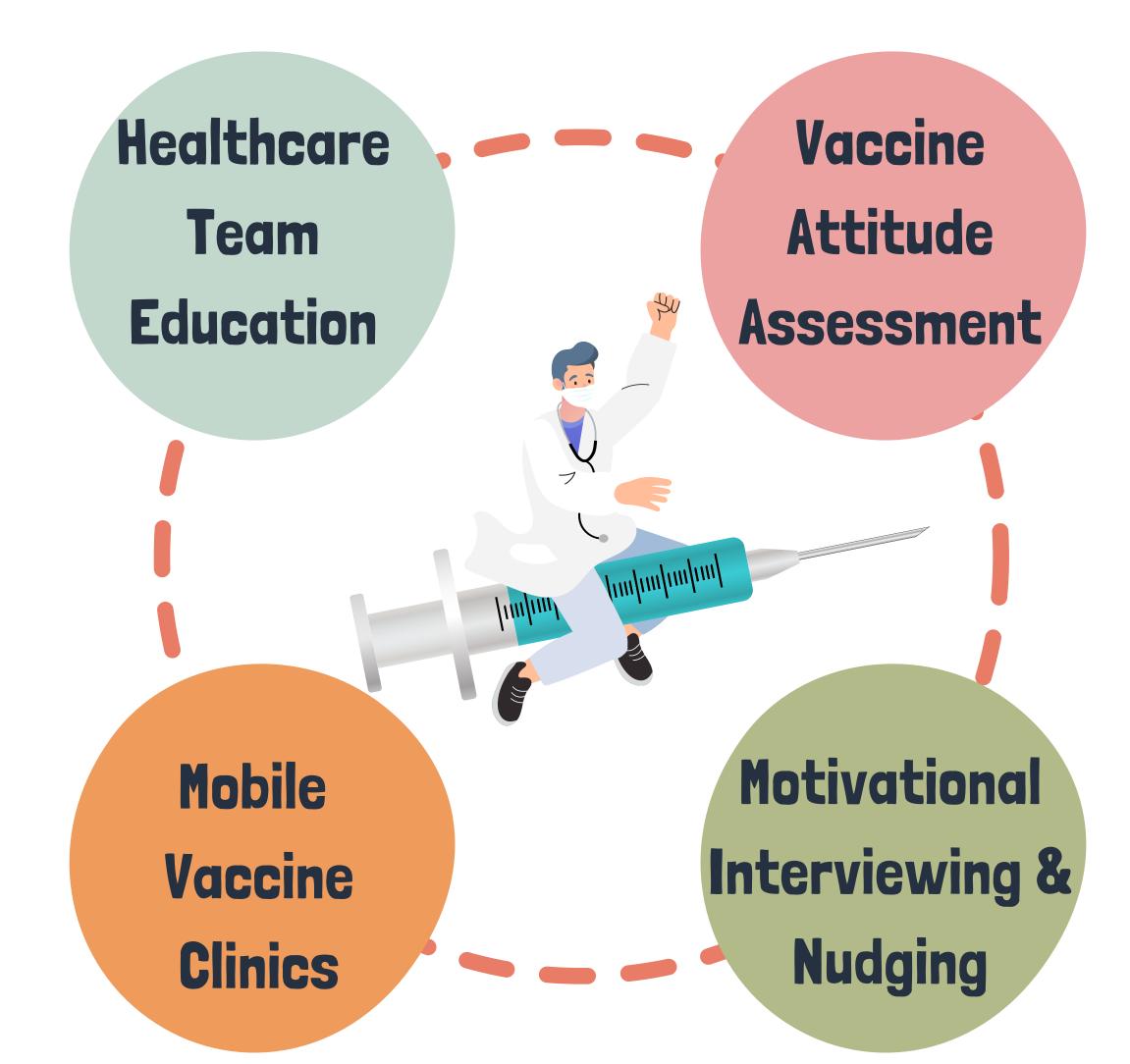
- Pilot sample:
- 193 clozapine-treated patients, 97% with schizophrenia spectrum disorder
- Ages 19-81, M = 46.4 years
- COVID19 vaccination rate in our cohort was 84.5%. higher than the Massachusetts rate at the time (estimated to be between 62.5% and 77%) (4)
- While attitudinal hesitancy seemed to decrease over visits, practical barriers (scheduling, transportation, remembering appointments) commonly remained

Jan 2022~

Dissemination of intervention 1 to other neighboring clinics

Replicated the in-service education and vaccination monitoring tool intervention at the MGH Psychosis Clinic not only to encourage COVID19 vaccines, but also influenza and pneumococcal vaccines

 Creation of an EPIC Smart Phrase for the vaccination monitoring tool

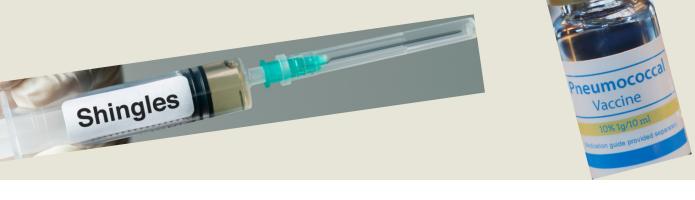


Aug 2021~



Intervention 2: Mobile Vaccine Clinics

- Collaborated with local pharmacies to set up mobile vaccin clinics across many psychiatric settings (outpatient clinics, shelters, group homes) within the North Suffolk Mental Health Organization
- COVID19, influenza, pneumococcal, and shingles vaccines were provided to patients and health care workers
- Participants in the outpatient clinics filled out a post-vaccination questionnaire about their experience
- Pharmacy was reimbursed by insurance and federal programs for vaccines



Dec 31, 2021

Intervention 2 results:

Further increased the vaccination rates

- In our pilot cohort, setting up mobile vaccine clinics increased the COVID19 vaccination rate to 93%, with many patients receiving the influenza vaccine simultaneously
- Nearly all of the 69 participants who filled out a short questionnaire reported it was easy accessing vaccines, with most preferring mobile vaccine clinics for future vaccinations.
- Mobile vaccine clinics are scalable, financially sustainable, and cost-effective

Conclusions

- Mental health care providers can address vaccine hesitancy of patients and encourage vaccinations during outpatient visits
- When providers can directly refer patients to a mobile vaccine clinic, this immediate follow through can help address practical barriers
- Mobile Vaccine Clinics in mental health settings in collaboration with local pharmacies are a feasible and financially sustainable model for increasing vaccination
- Future efforts should continue to leverage psychiatric providers and settings to address vaccine-preventable illnesses (ie. influenza and pneumococcal)



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