Mobile Addiction Services Toolkit

Summary (content to come)
The Kraft Center for Community Health at Massachusetts General Hospital aims to catalyze innovative solutions to real world community health problems, execute solutions locally and make them scalable and ready to spread nationally to improve health outcomes for disadvantaged populations throughout the Commonwealth of Massachusetts and nationally.

Boston Health Care for the Homeless Program’s (BHCHP) mission since 1985 has remained the same: to provide or assure access to the highest quality health care for all homeless individuals and families in the greater Boston area. BHCHP believes it has been and continues to be medicine that matters.

Boston Public Health Commissioner’s AHOPE Program was one of the first syringe service programs in Massachusetts and has been providing services to PWUDs since 1994. AHOPE also became the first pilot site in Massachusetts in 2007 to provide overdose prevention education and naloxone distribution to drug users and other potential bystanders at an overdose.

GE Foundation, the philanthropic organization of GE, is committed to transforming its communities and shaping the diverse workforce of tomorrow by leveraging the power of GE. The foundation develops skills by bringing innovative learning in community health to STEM education, globally scaling what works and building sustainable solutions.

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The Community Care in Reach (CCiR) mobile health initiative

Overview

The overdose epidemic is one of the nation’s most acute health crises. From 1999 to 2016, more than 630,000 people died from drug overdoses in the U.S. and 2.5 million Americans meet criteria for opioid use disorder (OUD). OUD is treatable and fatal overdose can be prevented. Studies have shown that medication for opioid use disorder (MOUD) increases the likelihood that people will stay engaged in treatment and reduces the risk of death. Unfortunately, only 10 percent of people with OUD receive treatment and many are not connected to MOUD even following an overdose. Even in areas where people are within a short distance of high-quality healthcare facilities and addiction services, people still miss opportunities for treatment and overdose rates remain persistently high.

Boston is home to The Kraft Center for Community Health at Massachusetts General Hospital. In partnership with Boston Health Care for the Homeless Program, the Boston Public Health Commission’s AHOPE harm reduction program and the GE Foundation, The Kraft Center has developed an innovative mobile health program called Community Care in Reach (CCiR), the first program under The Kraft Center’s Community Care in Reach® initiative, which aims to expand access to addiction services through mobile health. This mobile health program provides low-threshold, low-barrier clinical care and harm reduction services aimed at increasing access to addiction services for people at highest risk of near-term death. Guided by precise, data-driven hotspotting, Community Care in Reach (CCiR) deploys a mobile unit and a hybrid team of clinicians and harm reduction outreach workers to areas with high rates of opioid use and overdose to engage individuals, initiate and continue MOUD treatment, provide harm reduction services and link those with OUD to long-term, comprehensive, community-based care. By mobilizing critical addiction services, clinical and harm reduction teams can bring care directly to high-risk individuals who are currently disengaged from care due to multiple barriers and stigma. Our goal is to expand on-demand access to patient-centered, compassionate care for a particularly vulnerable population.

The partnership between clinical and harm reduction providers can establish coordinated and complementary services and enhance people’s access to comprehensive care. The Harm Reduction Coalition defines harm reduction as “a set of practical strategies and ideas aimed at reducing negative consequences associated with drug use.” Harm reduction is also “a movement for social justice built on a belief in and respect for the rights of people who use drugs.” The adoption of harm reduction principles in healthcare settings can enhance clinical care by strengthening the provider-patient relationship and empowering patients to feel validated.

The shared decision-making between the provider and patient can improve patient satisfaction, clinical results and care costs. By addressing the needs and desires someone self-identifies, harm reduction cultivates a service environment where people feel respected and valued. People are more willing to return to service providers when trust is built and autonomy and agency are preserved.

The Harm Reduction Coalition defines harm reduction services and enhance people’s access to comprehensive care.

Acknowledgements:

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References:

5. "Overview". https://harmreductionjournal.biomedcentral.com/articles/10.1186/s12954-017-0196-4

Having already successfully established a program in Boston, the purpose of this manual is to serve as a guide for other programs interested in replicating the mobile health model. This toolkit outlines guidelines and protocols that may assist organizations in the planning and implementation of a mobile addiction services program that combines harm reduction and clinical care.
Introduction to Community Care in Reach®

In January 2018, the Kraft Center for Community Health at Massachusetts General Hospital, in partnership with Boston Health Care for the Homeless Program, Boston Public Health Commission’s AHOPE program and the GE Foundation, launched Community Care in Reach (CCiR), a mobile health initiative intended to expand access to on-demand care for the city’s most vulnerable populations. Community Care in Reach (CCiR) is the inaugural program launched under The Kraft Center’s Community Care in Reach initiative. The initiative combines harm reduction services, clinical care including Medication For Opioid Use Disorder (MOUD), mobility and data hotspotting to bring essential addiction services to Boston’s most vulnerable populations who are not currently accessing care.

The goals of Community Care in Reach are:
1. Expand harm reduction services.
2. Use a patient-centric approach to facilitate access to on-demand MOUD for people with OUD not currently connected to care.
3. Leverage the program’s mobility to bring essential patient-centric addiction services directly to people at greatest risk of near-term death from overdose.
4. Expand recovery support.

Figure 1—The Community Care in Reach™ Model

Community Care in Reach™ used precise, data-driven hotspotting to bring low-threshold, on-demand addiction care and harm reduction services directly to populations at highest risk of near-term death.

Clinical Partners
Community health centers
Harm Reduction Partners
Syringe service programs, nonprofits
Mobility
Customized medical vans
Hotspotting
Target areas with largest number of opioid overdose deaths

The mobile unit
The Kraft Center for Community Health contracted with Winnebago Industries to design a customized mobile unit for this program. The result was an 8.5’ x 24’ x 11’ mobile medical van (cost of comparable unit ranges from $165,000 to $190,000 depending on specifications). Smaller than most mobile medical units produced by Winnebago, the van does not require a commercial driver’s license (CDL) to operate. The smaller size provides easier access to narrow Boston streets.

Figure 2—The unit

Features of the mobile unit include:
- Volta system—lithium battery that powers the electricity in the back; no need for a generator
- No generator required
- Plugs in at night and recharges when the motor runs
- Capability to automatically start if the Volta battery is running low
- Reception area upon entry
- Front passenger seat rotates to make an additional chair for the reception area
- Clinical room in rear
- Full-size medical table
- Pocket door separates from reception area for privacy
- Laptop, wifi and printer in lockable cupboard—can log into electronic medical record on site
- Sink, but no bathroom
- Two refrigerators; one for food and one lockable refrigerator for vaccines
- Wheelchair lift makes it handicap accessible
- Electric powered awning provides shade during busy clinics

As with many decisions, choosing a van design comes with several trade-offs. While for the Community Care in Reach (CCiR) team, a smaller sized vehicle was important for navigating Boston streets and allowing for operation without hiring a driver, this means that certain activities such as group visits are not possible. Also, without a bathroom on the van, our clinical team relies on buccal swab testing, which can be limiting. Agencies should weigh the pros and cons of each van design before making a purchase that is most suitable to them.

Figure 3—Floor plan for the mobile unit from Winnebago Industries
Community Care in Reach services

Services available at each clinical session include:

- **Harm reduction** – The van’s harm reduction services include syringe exchange and naloxone distribution and risk reduction counseling. These harm reduction services also help to staff to remain engaged with clients who may at some point be interested in connecting to other services, including MOUD.

- **Primary care** – Van clinicians provide myriad primary care services to populations who are not accessing regular care at traditional community-based settings. This includes vaccinations, wound care, screenings for HIV/STI, Hepatitis C, tuberculosis and cancer, as well as referrals for behavioral health services and specialty care.

- **Addiction care** – Crucially, patients with addiction have access to immediate prescriptions for MOUD, providing the lowest barriers possible to the most effective treatment for OUD. Clinicians can prescribe buprenorphine or naltrexone or refer patients for methadone maintenance.

Through the provision of this critical service combination, Community Care in Reach seeks to provide compassionate, judgment-free care and to empower patients to prioritize their health in ways they could not previously. The program’s mobility has allowed for the implementation of data-driven rapid deployment of services to areas in Boston requiring a public health response. Using real-time data, the van has rapidly mobilized to other neighborhoods with emergent needs ranging from incident HIV cases in a high-risk network to a persistent Hepatitis A outbreak in the homeless community.

**Location selection**

Locations were selected using 2016 narcotic-related incident (NRI) data and 3-1-1 sharps data provided by city partners as well as information from the Boston Public Health Commission’s AHOPE program, who have decades of experience outreach to people who use drugs (PWUD) throughout the city. The data demonstrated that nearly every neighborhood in Boston was affected by the overdose epidemic, driven by the presence of fentanyl in the supply, but certain areas were more significantly impacted than others. A significant number of OUD victims were homeless and while office-based addiction treatment (OBAT) programs are becoming increasingly available, there were still many service gaps. The substantial need for access to low-threshold treatment and harm reduction services for the most marginalized populations was evident. The Kraft Center and its partners prioritized areas of high overdose where available local addiction services were limited. The original pilot sites included West End and Nubian Square (formerly Dudley Square) and have since expanded to include Downtown Crossing and the Fenway area.

**Process for community engagement**

Prior to program launch, the Kraft Center and its partners embarked on a widespread community engagement effort to describe services and solicit feedback from local stakeholders. After presenting the proposed model to Boston’s Office of Neighborhood Services (ONS), the team worked closely with ONS to identify potential sites for the mobile clinic. Ideal sites were those experiencing high rates of overdose, a lack of available addiction services and community support for an intervention.

Once potential pilot sites were identified, The Kraft Center and its partners spent over four months engaging with law enforcement, neighborhood associations, local business associations, community health centers and other neighborhood leaders. During these meetings, the team distributed written materials, listened and sought feedback about the proposed program and services, had conversations about the impact of the opioid epidemic on the community and addressed concerns about how Community Care in Reach might impact their neighborhood. We worked closely with community health centers to familiarize our staff with their current OBAT capacity and helped develop plans to coordinate referrals.

Though some harm reduction strategies such as syringe exchange can be provocative and elicit strong responses from community members, the overall feedback was very supportive. The Kraft Center continues to engage these community partners with program updates and requests for feedback while the Community Care in Reach (CCiR) van maintains a presence in their neighborhood. This community support remains crucial to the program’s ongoing success.

**Figure 4—Harm Reduction Commission Report**


**Figure 4—Narcotic related incidents (NRI) data 2016, Boston Public Health Commission**
Early results
Evaluation of the program is ongoing, but available data indicate early successes. From January 2018 to September 2019, the harm reduction team made 7,843 contacts with people who use drugs and distributed 2,627 naloxone kits. Van clinicians have had 1,024 total patient encounters, 73 percent of which were return visits from previous patients. Van clinicians have also provided 632 buprenorphine prescriptions, 79 percent of which represent patients returning to the van for refills.

Our early findings demonstrate the vast need for the program’s services and indicate that Community Care in Reach is filling a clear service gap. Though the vast majority of van clients are accessing harm reduction services, our team has found that it often takes multiple encounters before individuals express interest in receiving MOUD or other clinical services. Relationship- and trust-building have been integral components of our program’s success in these historically marginalized communities, resulting in a slow and deliberate ramp-up of service utilization as the program becomes more established.

Qualitative interviews demonstrate a positive reception by patients. One patient said, “I would describe them as pleasant, helpful and compassionate... It’s a good thing, it shows people do care, when you are hopeless and down and out and you feel like no one cares and you can come here and you realize people do care.” Another stated, “I don’t have access to my own [medication] at this time because I’m homeless so it’s in storage so to be able to come here and not have to show up at the emergency room for breathing treatment is really nice.” Another patient highlighted her difficulties in accessing MOUD prior to the launch of the Community Care in Reach (CCiR) van: “The wait was long, the wait was really long. It was like a three-month wait, I didn’t have three months to get on Suboxone. So, it kept me buying them on the street and stuff until I met the van.”

Public response has also been generally positive. One stakeholder said, “We need the Community Care in Reach (CCiR) [program] in our neighborhood long-term to offset the problem... I just hope that Community Care in Reach (CCiR) is there to stay so we can always have a go-to.” A local business owner stated, “They’re saving lives and giving people a chance to escape the world that they’re in.” The program also received local and national media attention with a story on WBUR by Martha Bebinger that also ran nationally on NPR’s Here and Now program.

The Kraft Center presented the model at the 2018 Mobile Health Clinics Forum in Cleveland and was featured as a best practice in the Massachusetts Harm Reduction Commission Report published March 1, 2019.

An evaluation report of the 10-month pilot details these early results (Appendix A). Ongoing evaluation includes the following aims:
- Evaluate the effect of the Community Care in Reach (CCiR) van on health service utilization.
- Assess cost offsets associated with the Community Care in Reach (CCiR) program.
- Determine the acceptability and appropriateness of the Community Care in Reach delivery model among homeless and marginally housed individuals.

"I would describe them as pleasant, helpful and compassionate... It’s a good thing, it shows people do care, when you are hopeless and down and out and you feel like no one cares and you can come here and you realize people do care."
Environmental Scan

Assessing available data to determine need

Evaluate existing data sources to determine need for mobile addiction services. The overdose epidemic has spared few communities. Public health data may be helpful in determining which neighborhoods have the greatest need for low-barrier access to addiction services and care.

Data sources

Availability of data may vary, but below are potential resources that may help to establish need:

1. **People Who Use Drugs (PWUD)** – See Involving PWUD in the Design of the Model on page 14
2. **Emergency Medical Services (EMS) data** – Frequency and location of narcotic-related incidents (NRI)
   - **Strengths** – Provides quantitative and geospatial presentation of data; data updated frequently; allows for quantification of resources allocated to address overdose epidemic; sometimes differentiates overdoses that occur in a residential setting versus a “public” setting (e.g. street, shelter, public restroom, etc.), which allows mobile programs to prioritize highly vulnerable populations
   - **Weaknesses** – Incidents captured only if someone called 911 (data incomplete); categorization of incident as an NRI made by paramedics, often with incomplete information (some incidents may be misclassified); data may not be readily accessible and often has delayed release and presented in aggregate form; privacy concerns may limit access to such data; demographic information not always captured
3. **Data/Metrics from local syringe service program (SSP)** – SSPs often have information on population needs, service utilization and health indicators such as overdose history and naloxone rescues from participants
   - **Strengths** – Demonstrate service needs and utilization in high-risk population; often trusted resource for PWUD with unique and invaluable insights
   - **Weaknesses** – Not all regions have nearby SSPs; SSPs may be under-resourced and have difficulty managing data requests; maintaining confidentiality is crucial and could complicate sharing of some data
4. **3-1-1 data** – Municipal areas that track non-emergency constituent requests may capture indicators of high-risk activity or populations. Useful indicators may include (1) reports of improperly discarded syringes, or (2) homeless encampments
   - **Strengths** – 3-1-1 data are often public; may reveal trends traditional data sources miss; data updated frequently
   - **Weaknesses** – Less-established or utilized 3-1-1 systems may have few data points; 3-1-1 systems may not be designed for data extraction; neighborhoods more likely to report incidents may not align with the neighborhood who experience the highest number of incidents
5. **Death data** – Frequency and location of deaths where overdose was the cause
   - **Strengths** – Robust dataset with a lot of information
   - **Weaknesses** – Typically very delayed data source, data may be months/years old; privacy concerns may limit access to such data
6. **Involuntary commitments for substance use disorder (SUD)** – Frequency and location of involuntary commitments of individuals who have SUD
   - **Strengths** – May be indicative of a high-risk population, but likely most helpful as a supplemental source
   - **Weaknesses** – Smaller sampling than other data sources; privacy concerns may limit access to such data
7. **Hospital emergency department data** – Frequency, demographic information, location and chief complaint data for regional hospitals
   - **Strengths** – Timely information about emergency department visits related to drug use/overdose
   - **Weaknesses** – Does not account for drug events that do not result in hospital visit; data might not be readily accessible depending on region; chief complaint data may be non-specific, resulting in underreporting and miscategorization
8. **Arrest Data** – Frequency of drug-related arrests may point to areas of high need
   - **Strengths** – Police departments may have robust data sets that allow precision in pinpointing high-risk activity
   - **Weaknesses** – Data may not be accessible by public; arrests offer incomplete picture
9. **Epidemiologic data around Hepatitis C and HIV** – Incidence and location of Hepatitis C and HIV diagnoses may indicate high-risk activity
   - **Strengths** – Epidemiologic reports and data are typically accessible in any region; provides baseline data which can help demonstrate impact of harm reduction work and unmet needs of PWUD; longitudinal data may provide trends over time
   - **Weaknesses** – Hepatitis C is not reportable in all states; data reports can be quite delayed; health departments may have incomplete data on risk for Hepatitis C and HIV cases; diseases are underreported
10. **Meetings/focus groups with stakeholder agencies serving PWUD** – Provide qualitative data on experiences with PWUD including areas of high need, service utilization and barriers to care
    - **Strengths** – Diverse perspectives and experience; lays foundation for future collaboration on mobile health project
    - **Weaknesses** – Time-and-resource intensive; number of available stakeholder agencies varies greatly by region
Involving PWUD in the design of the model

Upon determining there is sufficient need for mobile addiction services, continued input from PWUD is important to ensuring any program is designed and implemented to best serve the needs of those at greatest risk for overdose. The team should consider conducting a survey or otherwise consulting with PWUD to solicit input on:
- Acceptability of this type of program by PWUD
- Program design, including location and hours of service
- Potential barriers to accessing these services

There is no better resource on how to design addiction programming than PWUD. It is highly recommended to include PWUD actively in the design and planning process. Conducting surveys, focus groups, interviews, or other ways of soliciting feedback are crucial to understanding need and an ideal service model. Syringe exchange program staff may be a great resource as they often have established trust in the community.

- Strengths—PWUD are the best resource in understanding the desires and needs of this population and they can be easily engaged in the development of programming in a variety of ways. Ideally, compensation is provided for people’s time providing consultation.
- Weaknesses—Stigma and criminalization of drug use may prevent PWUD from sharing information about locations where they stay/use drugs.

Community engagement

Engaging with local stakeholders is crucial to the planning and implementation of a mobile health program. The team should consider reaching out to community partners to:
- Use existing data to demonstrate the need in target areas
  - Be mindful to protect patients’ and PWUD’s privacy when presenting data; when possible, use data in the aggregate, highlight data limitations and be sure to contextualize when describing trends.
- Present research supporting interventions which may be controversial, for example, syringe exchange and medications for OUD
- Describe the program design and goals, answer any questions and address any concerns about the proposed program.
- Solicit feedback on parking location and observed drug activity in the area.
- Establish linkages to local partners including health centers, addiction programming and other support services and create a plan for seamless referrals to these services.
  - Consider establishing memoranda of understanding to formalize relationships.
  - Ongoing care coordination with community partners is necessary to navigate complex referral.
- Engagement with local pharmacies is important.
- Establish an ongoing dialogue and provide consistent updates to community partners during the pilot phase.

Sample list of stakeholders to consider for community engagement:
- City Hall officials
- City Council representatives
- Neighborhood liaisons
- Law enforcement
- Homeless services/shelters
- Community health center leadership
- Neighborhood coalitions
- Business owners/coalitions

Examples of community concerns and sample responses:

Please note that not all potential responses may apply depending on program design or resources.

**Concern: Diversion**—Worries that prescribed treatments such as buprenorphine will be sold on the street or otherwise misused

**Response:**
- Mobile health program clinicians will only be providing short-term prescriptions—rarely more than a week’s worth of medication.
- Mobile health program clinicians test (like at any other office-based addiction treatment [OBAT] program) whether a client is using medication appropriately—toxicology testing can identify if a patient is taking the medication—and clinicians are trained to respond to results appropriately.
- Mobile health program clinicians are from *Organization X* and are highly trained in substance use disorder treatment. They have expertise in this field and in handling the associated challenges.
- Mobile health program clinicians will also use their electronic medical record system, as well as state prescription monitoring programs, to ensure clients are not receiving duplicate prescriptions elsewhere—the same methods that would be used in a brick-and-mortar clinic.
- It’s worth thinking about some basic education on Suboxone—and that the illicit market that exists for it is because there is a dearth of MOUD programs and services. People generally seek buprenorphine in order to manage cravings and prevent use of heroin/fentanyl.
- Maybe worth mentioning to stakeholders that the program has and will continue to engage with police and law enforcement and that diversion is always a concern but tox screens aim to prevent diversion.

**Concern: Line of people**—Worries that the presence of the mobile health program would attract unwanted attention, forming lines in the neighborhood of potential clients.

**Response:**
- The goal of the program is to be a discreet service with effective and targeted outreach.
- Most outreach would be done on foot—mobile health program clinicians and outreach team plan to park the van and interact with potential clients on foot, only bringing those interested in services back to the van.
- Mobile health program staff are currently working with the city and neighborhood stakeholders to identify parking spaces that are discreet and would have as minimal an impact on local businesses.
- The goal of the mobile health program is to ultimately connect clients to permanent medical homes at local brick-and-mortar facilities after providing them some much-needed stability. This type of programming is meant to serve people not connected to care in areas of frequent overdose. The goal is not to become a high-volume program with a large caseload, but to provide stabilization and connect people to existing community health programming.
- By connecting people with the services they need, the hope is that it will help alleviate issues currently seen on the street.
- Opioid agonists, like buprenorphine, reduce overdose, illicit drug use, crime and transmission of infectious diseases.
- Mobile health program staff will continue to liaise with community stakeholders about concerns as they arise.
Concern: Clients from outside of the neighborhood
—Worries that most of the “problem” comes from out of towners who are drawn into the neighborhood by the city’s or town’s services and the mobile health program will only serve to draw more people in and negatively impact the community

Response:
• There is a clear and visible overdose crisis in the county and locally, impacting people from all walks of life. As municipalities work to increase capacity for addiction treatment, this innovative program aims to engage individuals at highest risk of death, decrease the harms associated with drug use and serve as a portal of entry into addiction treatment. The mobile program aims to serve people already in the neighborhood who are at high risk of death. The program does not plan to advertise broadly, but rather, the hope is that information about the program will spread locally by word of mouth. The hope is that this innovative program will play a role in achieving this goal.
• During the pilot phase, mobile health program staff will be collecting data as part of their evaluation and will hopefully get a better understanding of where clients are from and how we can help those communities bolster their efforts to serve those in need.
• Research shows that harm reduction programming such as syringe exchange programs does not increase crime rates.
• In general, PWUD are not likely to travel long distances for addiction services such as a syringe exchange program. Research has shown that PWUD are much more likely to use an exchange if they lived within walking distance and most syringe exchange participants already live in the neighborhood.

Concern: Needles—Publicly-discarded syringes are a real issue for many neighborhoods and there are worries that harm reduction services (including SSPs) on the mobile health program will result in an increase in inappropriately discarded needles.

Response:
• Scientific studies have demonstrated the following about SSPs:
  - SSPs reduce infections (including HIV and Hepatitis C) among people who inject drugs.
  - Participants in SSPs are more likely to safely dispose of their syringes and in areas where SSPs are implemented and research shows there are fewer discarded syringes.
  - Participants in SSPs are more likely to seek treatment for substance use disorders.
  - Mobile health program staff will be safely disposing of any syringes they come across during outreach and regular walking routes.
  - *Organization X* runs the SSP for the neighborhood and is extremely experienced. *Insert any statistics on syringe collection.*

• Harm reduction services provide multiple options for disposal and incorporate safe disposal education regularly when engaging with participants. All participants are encouraged to return their syringes and are given personal biohazard containers.

• Mobile health program staff will be communicating regularly with neighborhood partners during the pilot to address any concerns, including increased numbers of inappropriately discarded syringes.

• Mobile health programs may explore opportunities to stage regular “community clean-ups.”

Note: Harm reduction programs that conduct syringe exchange are frequently asked 1) why is a 1:1 exchange rate policy not implemented to reduce syringe circulation and 2) why retractable needles are not used in needle exchange programs. In fact, both strategies have been associated with increased rates of infection in PWUD and are therefore not regularly used in SSPs.

“Why our neighborhood?”—Perception from target neighborhoods that they are being unfairly singled out, when they consider other neighborhoods to have more issues.

• Target areas were selected based on a few conditions, including:
  - City/town overdose data demonstrated high rates of fatal and non-fatal overdose.
  - Neighborhoods were not saturated with current street outreach efforts to those struggling with substance use disorders.

• One of the advantages of being a mobile program would be if data demonstrate urgency in another neighborhood or demands for services are lacking in the current target areas, the mobile program can adjust accordingly.

Location selection
Siting clinical locations is crucial to the success of the mobile health program. Locations should be determined based on the following criteria:
• Data—Neighborhoods and locations where available data indicate persistently high rates of overdose and deaths due to opioids should be prioritized. If data indicate shifting trends in overdose rates and geography, the team should be prepared to mobilize a response accordingly.
• Lack of current addiction services—The mobile health program should avoid duplicating services as much as possible. If proposed clinical sites have existing addiction services and/or street outreach teams to link homeless or otherwise vulnerable populations, the mobile health program should consider other neighborhoods/locations experiencing service gaps that may benefit more from proposed services.
• Local stakeholder support—The support of partners and stakeholders in neighborhoods being served can help enhance and expedite program implementation. Selecting pilot sites in areas of demonstrated need that have extensive community backing could give the program the best environment to gain experience and establish best practice before spreading the program to additional sites.
• Logistical considerations—Logistical considerations that impact the feasibility of establishing an effective clinic might include:
  - The availability of parking in the vicinity of the proposed clinical site
  - The distance of the proposed clinical site from the organizations operating the mobile health clinic (i.e. how far will the staff need to travel?)
  - Proximity to pharmacies to facilitate rapid prescription fills for patients
  - Balancing accessibility with discretion—ideal locations are easy for program participants to travel to, but not so conspicuous as to draw unnecessary attention by onlookers

Lessons learned

1. When possible, work with local stakeholders to establish dedicated parking spots for the mobile unit. Stakeholders might include municipal agencies or departments with jurisdiction around city/town parking. Also consider engaging with other partners including business owners or agencies who may own parking spaces that could be used by the vehicle.

2. Be sure to determine if the municipality requires specific permitting around mobile health clinics.

3. Remember that the physical landscape of a parking space can impact the safety and effectiveness of a mobile clinic. For instance, the team should try to park in a level area and avoid parking spaces with inclines.

4. Consider safety when choosing parking spaces. Avoid spaces near frequent high-speed traffic or blind spots.

Proposed schedule

The following should be considerations as the clinical schedule of the mobile health program is developed:

- **Reliability/consistency**—It is recommended that clinical schedules include regular visits to the same sites no less than once per week. This consistency allows for patients and clients to understand when and where they may access services, especially if they have received MOUD and seek regular refills. Many patients served by the program are likely to be facing instability in their lives and would benefit from knowing the van will reliably arrive to the same location at the same time.

- **Maximize convenience**—Timing of clinics should be such that the target population is available and accessible. Understanding from local stakeholders or from your own organization’s data/observations/experience when people with SUD are most likely to be near a clinical site may be helpful in determining the times of clinics, though understanding that clinical hours may be restricted to business hours.

- **Flexibility**—In addition to regularly scheduled clinical sessions, the mobile health program should also consider leaving flexibility in the schedule to respond to emerging public health crises. In order to accommodate such flexibility, the mobile health program should consider the following strategies:
  - Don’t over-commit the mobile unit—If the mobile health program schedules some time for the van to be offline, this will allow for flexibility to add clinical sessions and locations to the existing schedule should the need arise.
  - Start with a small number of sites—Focusing efforts on a small number of sites and including multiple sessions at some sites can allow the program increased flexibility. Should data indicate emerging needs in other areas, the mobile unit could repurpose or redirect services offered at a site with multiple scheduled sessions to a new site without entirely abandoning a clinical site. The decision to completely eliminate a site from the clinical schedule should be made only after extensive consideration has been made for existing patients at that site and the team has considered plans for continuation of necessary care and services.
Capital and Licenses

Van specifications and purchasing

The following considerations should be taken into account when identifying a vehicle to purchase or re-purpose for use as part of the mobile health program.

- **Adequate space**—The mobile health model intends for the mobile unit to function as a satellite clinic of an existing clinical organization. Staff should consider space requirements for clinical staff to conduct patient encounters when considering the size and type of mobile unit.

- **Privacy**—Privacy of patients both during clinical sessions and in waiting for van services should be a consideration when determining the model/design of the mobile unit.

- **Power and wifi access**—Clinical sessions will likely require power for medical equipment, laptops and printers as well as internet for EHR access.

- **Climate control**—Heating and cooling systems should be considered to ensure staff and patient comfort. Refrigerators should also be considered for vaccine and food storage.

- **Restrooms**—Restrooms increase options for some lab specimen collection but may also pose a need for close monitoring in case drug use occurs behind the closed doors of a bathroom. Special disposal is also required of bathroom tanks on mobile units. Consider creating protocols that do not require the mobile unit to have a bathroom.

- **Agility**—Consider that size may be an issue in preventing the team from accessing certain locations if the vehicle is unable to navigate certain routes/roads.

- **Driver considerations**—Program resources can be saved if the vehicle does not require the driver to have a commercial driver’s license.

- **Available parking**—Be mindful of potential parking spaces that will be able to accommodate the size and other requirements of the mobile unit (e.g. if the vehicle requires an electrical outlet, etc.).

- **Other considerations**—Handicap accessibility is often a requirement of mobile units licensed as medical clinics.

Licensures

The following is meant to provide an overview of the considerations and steps necessary to license a mobile unit in Massachusetts for the delivery of organized health services related to the provision of preventive care, addiction services and harm reduction. Such mobile services are provided for the convenience of patients off the licensed premises of a clinic. We offer the following comments:

**DPH licensure**

Department of Public Health (DPH) approval of a mobile unit requires compliance with all relevant regulations under 105 CMR 140.000. Licensure of Clinics and the provision of quality care in accordance with applicable standards of practice, state and federal regulations and the conditions detailed therein. In order to request DPH licensure approval for a mobile unit, the following steps must be followed/documents must be submitted to DPH:

**Choice of entity for licensee**

An entity must be selected to hold the mobile unit clinic license issued by DPH as the “licensee.” This entity and its leadership will operate and be responsible for the mobile unit clinic’s activities. It can be an entity that already has a clinic or hospital license (in which case the mobile unit can be added as a “satellite” service to the existing clinic or hospital license), or an entity that is not currently licensed to operate a clinic by DPH.

**Licensure application and suitability review**

Prior to operating a mobile unit, an applicant must submit a licensure application. DPH has specific forms for this purpose which allow DPH to assess a new applicant’s suitability for licensure and request basic information related to operation, administration, staff and the nature of the services to be provided on the mobile unit (e.g., laboratory, mental health, substance abuse, etc.). Please note that certain supporting documentation listed on these forms as required to be submitted with the forms do not apply to mobile units and therefore, do not need to be submitted to DPH (e.g., Fire Safety Inspection Certificate and Certificate of Occupancy).

If the proposed licensee entity does not already hold a DPH clinic license, it will be considered a new applicant for a new clinic license. Accordingly, DPH must conduct a suitability review of the proposed licensee before licensure approval can be issued. As an overview, the suitability application requests such information as corporate ownership, other health care entity ownership, compliance history, background checks, resumes, financial capacity, etc. This suitability process is not required if the licensee entity already holds a clinic license from DPH and chooses to add the mobile unit as a satellite under that license.

In addition, the applicant must submit a project narrative that describes the services to be provided along with an attestation form. Compliance with all applicable requirements must be attested to by an authorized officer, such as the responsible physician (e.g. chief medical officer). On the attestation form, the clinic must either mark yes if the mobile unit is compliant or provide a waiver request if it is not compliant. To this point, certain physical requirements that the state typically requires may be waived for mobile health services. For example, although the attestation form requires that a clinic attest to providing a toilet room with hand washing facilities on the mobile unit, as appropriate to the services provided by the mobile unit, such clinic may remain in substantial compliance with the requirement by delivering services in areas nearby public restrooms, ensuring that patients have convenient access to such facilities and submitting a waiver request to DPH to this effect.

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14 Provided by Crystal M. Bisson, J.D. of Barrett & Singal P.C. Edited February 26, 2019.
Upon receipt of a complete application, DPH reserves the right to schedule and conduct a survey of the mobile unit to ensure compliance with all applicable regulatory requirements. During this survey, a tour of the mobile unit will be conducted to verify compliance with the regulations and waivers, as applicable. Additionally, DPH surveyors may request review of documentation, such as contracts and agreements, applicable certificates/registrations, emergency protocols, staff credentials and schedules, clinical records and written policies and procedures that define the practices of the mobile unit. Once it has been determined that the mobile unit meets all regulatory requirements, a license to operate will be issued.

Massachusetts Controlled Substances Registration (MCSR)
As a supplement to DPH licensure, the licensee entity must apply to the Massachusetts Drug Control Program for a MCSR to possess Schedule VI controlled substances on the mobile unit. Schedule VI controlled substances are drugs which are not regulated on the federal controlled substances schedules (i.e. Schedules II–V) but which nevertheless require a prescription. Please note that in the case of mobile units whose addiction services are limited to engaging and linking patients with community-based treatment (i.e. OUD treatment is not provided on the mobile unit), the MCSR drug approval is only for drugs used in treatment on the mobile unit and does not allow for dispensing of controlled substances (e.g. Suboxone). To this point, please note that there is no state approval to provide OUD treatment here as the mobile unit does not provide a separate, identifiable program specifically designed to care for persons suffering from OUD.

Clinical Lab Improvements Amendments (CLIA) Certificate
In order to offer CLIA-waived laboratory services on the mobile unit (e.g. basic glucose, urine dipstick, strep, pregnancy, etc.), the licensee entity must designate a lab director and apply to the Massachusetts Clinical Laboratory Program for a CLIA certificate for the mobile unit. The Clinical Laboratory Program will then work with the Centers for Medicare and Medicaid Services (CMS) to process the CLIA certificate approval. For any laboratory testing services that the mobile unit wishes to provide its patients beyond waived testing, it would need to have arrangements by a contract with an outside laboratory.

Medicare and MassHealth
Finally, we note the need to apply to both Medicare and MassHealth in order to bill for Medicare and MassHealth services provided to patients on the mobile unit.

Budget Considerations
Budget Considerations

Introduction

Though budgets may vary greatly depending on agency salaries, indirect/fringe rates and vendors, there are several broad categories to be considered when developing a mobile health program.

Capital costs

The following are one-time costs to accrue the necessary equipment and licensures for operating a mobile medical unit.

- Mobile unit—Purchase of the vehicle itself with a medical buildout to suit the needs of the clinical staff. Also, be mindful of legally required signage and vehicle branding.
- Legal support—Consider engaging with a legal support team to assist with required state and federal licensures to operate a mobile medical unit.

Annual operating costs

Personnel

The following are staffing considerations to operate a mobile unit for six 4-hour clinical sessions weekly.

- Clinical team—May include buprenorphine-waivered MDs, NPs, PAs, or a combination to serve as medical providers on the van, responsible for the initiation and continuation of MOUD for patients, coordination of referrals for patients and assistance with outreach efforts and engaging prospective patients. Estimated total of 0.75 FTE.
- Nurse care manager—In addition to the core clinical team, a nurse care manager can provide administrative support to the development and maintenance of the program as well as assist with coordination of care and referrals. Estimated 0.10 FTE.
- Outreach Workers—Provide outreach, harm reduction services and promote van services among people who use drugs (PWUD). Estimated 1.50 FTE.
- Harm reduction care coordinator and navigator—In addition to participating in outreach and providing harm reduction services, this care coordinator and navigator can help ensure supported referrals for participants and health insurance enrollment. Estimated 1.00 FTE.
- Housekeeper—To ensure weekly cleanings and sanitation of the mobile unit. Estimated 0.01 FTE.
- Other potential staff—Consider adding a behavioral health clinician and/or social worker to support the mental health needs of program participants.

Non-personnel expenses

The following are regular expenses incurred in a mobile outreach program.

- Medical equipment/supplies
- Naloxone
- Vehicle insurance
- Gas, maintenance and upkeep
- Food for patients
- Patient transportation
- Cell phones
- Sharps/biohazard disposal

Revenue

Incorporate anticipated revenue into budget considerations based on a conservative estimate of average number of clinical visits and reimbursement rates.

Potential program enhancements

Additional optional programming may be beneficial to enhance services on the mobile health program if feasible.

- Tele-behavioral health—Consider equipment, installation fees, trainings and funding of staff coverage to allow for remote consultations with behavioral health staff.
- Drug checking—Consider purchasing fentanyl test strips and other drug-checking equipment to enhance harm reduction services by testing residue on participant’s drug paraphernalia.

The MX908 is a portable high-pressure mass spectrometer that uses swabs to test drug paraphernalia for traces of fentanyl. The AHOPE team are evaluating a pilot that was conducted in its drop-in center as they consider a future rollout in mobile settings.
Sample budget
*Cost estimates based on 2019–2020 pricing

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<tr>
<th>Capital costs</th>
<th>Cost center</th>
<th>Quantity</th>
<th>Cost</th>
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<tbody>
<tr>
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<tr>
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<th>Cost center</th>
<th>Quantity</th>
<th>Cost</th>
</tr>
</thead>
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<td>Staffing</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Cost center</td>
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<td>Outreach workers</td>
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<td><strong>Personnel total</strong></td>
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<td><strong>$300,144</strong></td>
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</tbody>
</table>

| Non-personnel costs                                   |             |          |          |
| Insurance                                             | 1           | $22,191  |
| Gas/maintenance & van upkeep                          |             | $6,300   |
| Medical equipment/supplies                            |             | $4,500   |
| Harm reduction supplies                               |             | $15,000  |
| Food/drink for patients                               |             | $8,000   |
| Patient transportation                                |             | $600     |
| Cell phones                                           | 2           | $1,200   |
| **Non-personnel total**                               |             | **$57,791** |
| Indirect @15%                                         |             | $33,690  |
| **Total**                                             |             | **$411,625** |

| Estimated revenue                                      |             |          |          |
| MassHealth (estimate at 2 clinical encounters/session over 52 weeks) | | $76,960 |
| **Total**                                             |             | **$334,665** |

| Naloxone                                      |             |          |          |
| Cost center                                   |             |          |          |
| Naloxone (at $75 each)                        | 2,496       | $187,200 |
| **Total**                                     |             | **$187,200** |

| Enhancements                                    |             |          |          |
| Cost center                                    |             |          |          |
| Telebehavioral health (equipment, licenses, installations, staff time) | 1           | $60,000  |
| Drug checking (drug checking device, swabs, training, fentanyl test strips) | | $75,000 |
| **Total**                                      |             | **$135,000** |
Staffing and Supplies

Staffing the van
Though staffing needs will vary depending on locations and circumstance, the following staff specifications are recommended to support both clinical and harm reduction services on the van.

Buprenorphine-waivered clinician
Crucial to ensuring the lowest possible barriers to medication-assisted treatment (MAT), at least one clinician with the appropriate waiver and training to prescribe buprenorphine and naltrexone should be on the mobile unit during every clinical session. The clinician may be an MD, nurse practitioner, physician assistant, or other qualified health professional depending on the resources available to the program’s clinical partner. See schedules for upcoming trainings from Boston Medical Center.

Outreach workers/harm reduction specialists
Harm reduction services are critical to not only engage prospective patients, but also to provide low-threshold access to clean injection equipment, naloxone kits and education about safer injection techniques. Outreach workers should be well-versed in harm reduction strategies. Local SSPs staff would be ideal to serve as the harm reduction partner for the program if the clinical partner does not have staff with harm reduction expertise or lived experience.

Sample job descriptions:
- **Harm reduction specialist/outreach worker description:**
  - Participate in daily drop-in operations including opening and closing procedures to help ensure van and program spaces are clean, safe and welcoming.
  - Conduct street-level outreach activities for active users in areas or neighborhoods identified as high-risk or high-need within program catchment areas.
  - Recruit and engage high-risk, hard to reach people who use drugs or engage in sex work, including injection drug users.
  - Provide safer sex and safer drug use education and distribute syringes and other health-related resources and tools (and collect used syringes) in accordance with local laws and public health regulations.

Basic competencies for outreach workers:
- Overdose prevention education.
- Safer injection education.
- Risk reduction strategies around substance use and sexual practices.
- Addiction treatment modalities and linkage to care.

When determining the number of outreach workers to include during clinical sessions, staff should be mindful of 1) limited space on the mobile unit and 2) available resources. Ideally, outreach should be conducted in pairs and at least one staff member should be on the mobile unit with the clinician during a medical encounter. The clinician may also conduct outreach with the outreach team during times when there are no patients to be seen on the van. Three outreach workers may be ideal (creating a team of four total on the van) to ensure the team can work in pairs. Other staffing models should be considered depending on available space and funding.
• Promote safe disposal, including collection and disposal of used syringes.
• In a manner consistent with harm reduction principles, provide substance use and sexual risk assessments and discuss individualized risk reduction and harm reduction strategies (incl. safer injection practices; safer sex practices; overdose prevention and reversal; drug use management techniques; HIV, HCV and STI prevention; and other topics relevant to people who use drugs).
• Assist with the provision of overdose prevention trainings and Narcan distribution and document incidences of overdose and reversals.
• Provide low-threshold referrals and connect participants with medical care, drug treatment and other social services. Solicit and track feedback from participants to ensure that the agencies to which we refer are effective and treat participants with respect and in a manner appropriate to harm reduction programs.
• Keep accurate, consistent, complete and intelligible records and data on all program activities and/or participants; provide program director with reports in a timely manner.

Qualifications:
• At least two years of health, social service, or related experience (including lived experience) with persons who inject drugs in a harm reduction setting.
• Demonstrated current knowledge of HIV/AIDS, STDs, hepatitis and other blood-borne infections, particularly in relation to injection drug use; street life; slang vocabularies; drug use practices; harm reduction concepts and principles; local drug treatment; health care; and criminal justice systems and resources.
• Demonstrated communication skills with the ability to communicate complex information in a culturally appropriate, consistently respectful, and non-judgmental manner
• Strong organizational, interpersonal, written and verbal communication skills.
• Previous experience implementing support groups and trainings a plus.
• Previous experience with data collection and entry.
• Self-directed, motivated and flexible with the ability to work independently and as part of a team.

Optional staff (pending availability)
• Nurse care manager—Once a patient base has been established at a clinical site and the need to manage MOUD refills increases, consider adding a nurse case manager to the staff to coordinate refills, toxicology screens, etc.
• Driver—Some mobile units do not meet the requirements for a commercial driver’s license (CDL) and therefore can be driven by any staff members. Other mobile units require a CDL and a specially trained driver should be on the staff. A CDL is required when certain weight, passenger volume, or transport material specifications are met. Programs should consult with their legal teams to verify if a CDL is required.
• Behavioral health specialist—High risk patients often experience multiple comorbidities and mental illness often plays a role. Access to behavioral health specialists could prove extremely helpful. This additional clinical service may also be considered in a tele-health model on the van.
• Case manager/recovery coach—Can be hired to support patients in their recovery efforts beyond their engagement with the mobile health program. Recovery coach staff may operate both on and off the mobile unit.

Stocking the van
Much of the medicine and supplies that will be used during clinical sessions will not be able to be stored on the mobile unit during off hours, based on DPH regulations. Staff should plan to stock the van prior to every clinical session and to remove the medicine and equipment upon clinic completion. Staff should also consider stocking backpacks/bags to be used during outreach in case clients are in need of services or supplies but are unable or unwilling to visit the mobile unit.

See section 4, “Other medications offered by the mobile health team,” under Clinical encounters for examples on what to include in emergency drug kits.
Outreach and Engagement

Strategically building an outreach team

New mobile programming will be more successful if members of the outreach team are already recognizable to the people the program aims to engage, in this case people who use drugs (PWUD). It’s helpful to partner clinicians—whose faces will presumably be new on the street—with outreach workers who are familiar with the area and who already have relationships and established trust with PWUD.

Consider including potential clients of the program (PWUD) in the process of evaluating applicants for positions on the team.

Figure 6—Sample outreach card
Finding patients
Outreach workers disperse into surrounding streets, alleys and public spaces where homeless individuals and/or PWUD have been known to frequent, using available data to ensure targeted outreach.

- **Characteristics**—Staff will prioritize individuals who:
  - Exhibit signs of addiction and/or homelessness (e.g. open drug use or purchasing, “nodding,” panhandling, etc.)
  - Those already known to the outreach workers to be living with SUD
- **Geographical scope**—The team should agree upon a radius around the mobile unit’s parking location, the size of which may vary depending on the characteristics of the neighborhood and the size of the team. In general, the team should try to balance these goals:
  - Cover as broad an area as possible to increase the number of engagements with PWUD.
  - Remain within a reasonable distance of the mobile unit where potential patients may be willing and able to walk to the unit to receive clinical services.

Teams may consider dropping off outreach teams at various locations en route to the final parking space, who then meet back at the van, to maximize efficiency and geographic reach.

- **Staff teams**—Outreach teams may split up into teams no smaller than two people to ensure safety. If time permits, it is recommended that the clinician also accompany the outreach team to help build relationships and trust. Teams that are larger than two people can be intimidating when approaching individuals outside.
- **Recruiting peers to help with engagement**—Outreach teams may recruit PWUD to help the team connect with more PWUD, for instance, by having a person introduce the team to members of their network, or by asking a person to let people in their network know about the services offered. A formalized peer-to-peer program with stipends may be an effective outreach and education strategy.

Harm reduction strategies
Outreach workers will engage PWUD in harm reduction services and strategies, specifically syringe exchange, safer injection techniques and fentanyl testing.

- **Syringe exchange**—All outreach workers should carry unused syringes as well as equipment for the safe collection and disposal of used syringes (e.g. gloves and sharps containers).
- **Distribution**—During engagement, each person engaged will be offered unused syringes and injection equipment. Each person should also be offered a description or informational material on safer injection practices. Outreach teams should consider a ‘needs-based’ model of syringe distribution in which an outreach worker determines a person’s needs based on the frequency of injection and access to syringes when the mobile team is not present (for example, if a person injects five times daily and the team anticipates coming back to the area in three days, ideally at least 15 syringes are distributed to the individual). Examples of other syringe distribution policies are strict 1:1 exchange, which is discouraged based on less efficacy in preventing transmission of HIV and HCV, or “1:1 plus.” Which strategy a program uses depends on several factors.
- **Collection**—Outreach workers should also actively collect used syringes. Outreach workers should always be on the lookout for improperly discarded syringes on the street and collect any they see, always using safety equipment and syringe pick-up strategies that minimize risk of a needlestick. Outreach workers might also consider carrying small, portable, individual biohazard containers to give to program participants.
- **Secondary exchange**—As key individuals are identified as central to a network/community of PWUD, the outreach team should consider supplying larger quantities of unused syringes and other harm reduction supplies than typically advised by protocol so the individual can distribute the resources to their own contacts and also bring back syringes for the team to discard.

- **Naloxone**—All outreach workers should carry naloxone kits on their person. Workers should all be trained in naloxone administration and be prepared to administer naloxone if they encounter people exhibiting signs of opioid overdose. In the event of naloxone administration, always call 911.
  - **Distribution**—Naloxone should be offered during every encounter with PWUD. Distribution amounts should be agreed upon prior to outreach sessions based on supply and client circumstances. Each interested individual should receive no fewer than one naloxone kit, supply permitting. For some people, it may be feasible for the clinician to prescribe naloxone to be paid for by their health insurance and filled at a nearby pharmacy.

Linkages to the mobile unit
Engaging PWUD around harm reduction supplies and services is a great way to build a relationship and garner trust. Additionally, outreach workers should:

- **Offer the opportunity to see the clinician**—People should be made aware of the clinical services offered in the nearby mobile unit, including testing for various infections, immunizations, skin abscess care, addiction treatment, etc., even if only a small proportion express interest in enrolling as a patient.
- **Assess current engagement in medical care**—Outreach workers should continually assess participants’ medical needs and their current engagement in medical care and try to facilitate access to care provided on the mobile unit whenever possible.
- **Accompany individuals interested in clinical care back to the mobile unit**—Individuals often agree to meet with the clinician based on the trusting relationship fostered by the outreach worker. Especially in early clinical visits, individuals may need more support as they build a relationship with the clinician.

Use of technology
Technology can be very helpful for the outreach team and clinicians to both interact with clients (both current and potential) as well as coordinate efforts with other staff. As such, it is recommended that the program have at least one dedicated mobile phone for the mobile program.

- **Phone calls**—It is helpful to have a mobile phone dedicated solely to the mobile health program. The number can be circulated on outreach/engagement materials for people to call if they have questions about...
The outreach team should carry the phone during outreach when they aren’t on the mobile unit so that people can reach them if they arrive at the van and no staff members are currently present (a sign on the door can alert people that the team is in the neighborhood with a number to call and a time the team will return to the vehicle). One designated staff member should carry the phone during mobile unit hours. Keep in mind HIPAA-related issues when speaking with patients.

- **Off hours**—The voicemail on the phone should indicate:
  - Clinic hours and locations
  - An alternate phone number (if available) to connect with staff during business hours when the mobile unit is not in operation
  - To comply with HIPAA, a reminder that protected patient information should not be left in a voicemail.
  - A reminder that if the caller is experiencing an emergency, call 9-1-1
  - If the caller needs to speak to a clinician, they should call the answering service for the clinical practice to reach an on-call clinician

- **Texting**—The mobile program should also consider utilizing text messages to accommodate many people (both current and potential) who would view phone calls as a barrier to communicating. It should be made known to patients that texting is not considered secure by HIPAA and therefore no protected patient information should be shared via text. One designated staff member should carry the phone during clinical hours.

- **Other Strategies**—Social media and apps may also pose opportunities for promotion of program services and education and warrant further exploration.

### Data collection

To demonstrate program reach and impact, outreach and engagement efforts must be quantified.

- **Number of contacts**—Each outreach worker should track the number of contacts they make with people during their outreach. Contacts may range from a brief description/offerings of program services (e.g. syringe exchange, MOUD on-demand, access to primary care needs on the mobile unit, naloxone, etc.) to a lengthy engagement that results in the accessing of van services. Time likely will not permit outreach workers to collect additional data (e.g. name, sex, race/ethnicity, age, etc.) and it should be understood this statistic includes non-unique contacts.

- **Syringe distribution**—Each outreach worker should track the number of syringes distributed during each outreach session. Beyond the number of kits distributed, the evaluation team should consider what other metrics would be most critical to their evaluation while being minimally burdensome on the outreach team. Depending on the funding source for naloxone, there already may be reporting requirements to funders that include additional variables (e.g. whether the kit is a refill, how the previous kits were used, etc.), though these information reports may not be readily accessible for evaluation as the funder has ownership of the data. Other models of naloxone access, such as through facilitated pharmacy access, will not have associated formal data collection instruments.

- **Syringe collection**—The number of syringes collected from the streets and from people with SUD should be quantified. Due to logistical and safety concerns, it is unlikely that each collected syringe can be counted.
Clinical Encounters

The following guidelines for clinical encounters are intended to highlight issues that are specific to this setting of mobile van, rather than to repeat or replace existing clinical guidelines for the care of people with substance use disorders.

Patient procedures

Enrolling patients
During established clinical sessions, the mobile health unit should be made available to patients interested in accessing the medical services and treatment of the program. WiFi on the mobile unit and proper licensing should allow it to operate as a satellite clinic of the clinical partner organization, complete with access to the organization’s electronic health record (EHR). Unless your program has the resources to also employ an administrative worker on the mobile unit, physicians should be prepared to enroll new patients using the EHR themselves and should follow these guidelines:

- Besides urgent situations, the first patients to arrive should be the first to have service provided.
- Patient registration should be completed by a clinician or public health advocate when the patient arrives, where the reasons for the visit are recorded. A clinician (MD/NP/PA/RN) on the van should conduct a patient assessment and clinical encounter when medical services are needed.
- For all urgent cases, patient assessment and triage should occur immediately.

Consent to Treat—Consent to Treat (CTT) forms must be signed by each patient when first presenting to the mobile unit for medical care. The patient must sign the CTT on the first day that care is provided. Delays may occur only related to emergency or unusual circumstances, such as the inability of a patient to sign the CTT due to intoxication or impairment. In these instances, staff must document in the patient’s chart the circumstances preventing a patient’s signature as well as the patient’s ability to provide informed consent despite being unable to sign the CTT. The patient should sign the CTT at the next presentation to the mobile unit.

Patients who are under 18 years of age (“minor patients”) may sign the CTT if they are legally emancipated or if the provider determines that the patient is capable of giving informed consent and that the best interests of the minor patient will be served by not notifying their parents.

Cross-agency collaborations data release forms may be required to share certain health information between team members of different organizations.

Patient privacy
The mobile unit should include private exam space. This may include barriers that separate the patient from public and semi-public areas (such as a waiting area within the mobile unit), ensuring both visual and sound privacy. Mobile unit staff will also provide outreach and/or harm reduction interventions in public and/or semi-public spaces near the van. Staff should make every effort to protect patient privacy even in these non-clinical encounters. For example, staff should first ask patients if they consent to the encounter in public or semi-public areas. For example, asking, “is it okay if we talk about X here, or would you prefer to talk privately?” If patients decline or express discomfort speaking in the public or semi-public space, staff should end the outreach and/or harm reduction encounter.

After-hours coverage
Patients should have access to an on-call provider (NP/PA/MD) via the clinical partner’s on-call system 24 hours a day, 7 days a week. The on-call providers should have access to the patient’s electronic health record, including any encounters that occurred on the mobile unit.

In the event additional assistance is required, mobile unit clinical staff and/or the provider on call should be available be reached through the clinical partner’s answering service as well as directly by cell phone 24 hours a day, 7 days a week.

Patients with an urgent medical problem should go to the closest emergency department.

Communication and Outreach
Mobile unit clinical staff should utilize the available contact information in the EHR to ensure that appropriate clinical information is communicated directly to the patient. If direct contact information is not provided, additional patient outreach should be conducted; all outreach efforts should be recorded in the patient’s EHR.

Prescribing MOUD
A clinical encounter on a mobile unit should replicate an office-based visit as closely as possible. There are, however, potential considerations that are unique to the setting.

- Access to medicine—Federal DEA regulations render storing buprenorphine on the mobile unit an impossibility, so buprenorphine can be provided by prescription only (paper or electronic) on the van. Buprenorphine and naltrexone will never be stored on the mobile unit. Strategies may include:
  - Medical courier—Having staff deliver medicine from the pharmacy to the clinical site may be an option, especially for organizations that have onsite pharmacies.
  - Establishing clinical sites near pharmacies—Establish clinical sites near pharmacies where outreach workers and/or clinical staff can accompany a patient to fill his/her prescription immediately in case a patient lacks required identification.

- Considering protocols that require no restroom—Requiring patients to use a restroom for certain labs/procedures (e.g. urine toxicology) could prove challenging. Consider alternative methods (e.g. buccal swabs) that do not necessitate bathroom use.

Evaluation for initiation of medications for OUD (MOUD) is the same as in office-based settings. A face-to-face evaluation between the patient and a waivered clinician is required to take place. The following needs to be assessed and documented in the patient’s electronic health record:

- Patients who have moderate to severe opioid use disorder are diagnosed
- Patient’s goals of care
- Challenges to success of treatment including co-occurring disorders
- Presence or absence of contraindications
- Presence or absence of concerning activity on review of prescription monitoring program
- Consent to treatment

Contraindications for initiation of buprenorphine in the mobile setting:

- Current methadone use
- Inability to understand or adhere to proposed initiation plan
- Heavy or chaotic use of sedative-hypnotic drugs such as benzodiazepines and Z-drugs
- Heavy or chaotic use of alcohol
- Suspected diversion or other inappropriate use based on prescription monitoring program report, toxicology results, or patient history

Note—Not all instances of suspected diversion shall preclude a patient from accessing treatment. Clinicians should use their best discretion to determine if writing a prescription poses a greater risk to the patient or others than declining to write the prescription would.

Patient education:

- Patient education will be done by the provider and other appropriate staff.

Patient referral to other OUD treatment programs:

- Patients should be referred to the appropriate program based on the patient’s level of need. Programs may include medically supported detox, residential treatment, methadone or buprenorphine maintenance in an opioid treatment program (OTP) or other appropriate programs.
Decision to begin MOUD
- It is the waivered clinician’s (MD/NP/PA) ultimate responsibility to prescribe MOUD based on their judgement and discretion.

Initiation of treatment
- Initiation of buprenorphine will take place directly in the mobile setting and is accomplished by prescribing medication at the site where the staff are seeing patients including the van itself, a street or park, or an encampment. If stationed near a pharmacy, staff will accompany the patient to the pharmacy and assist them in filling their prescription as necessary.
  - If there is no nearby pharmacy, consider establishing a courier service to deliver the prescription to the patient at the clinical site as quickly as possible. If the medication cannot be promptly delivered to the patient, it will be returned to the pharmacy or destroyed.
- Initial prescription typically will be planned for a short prescription interval, no longer than seven days. The patient should be given sufficient supply to last until the next scheduled clinic at the same location.
- Providers should personalize each patient’s initiation plan based on their clinical situation.
  - If necessary, particularly in a patient with no prior experience with buprenorphine, patients will initiate dosing under observation by the clinician to observe for precipitated opioid withdrawal.

Early follow-up care
- Follow up care will depend on the patient’s clinical situation. For individuals who are initiating treatment in the mobile unit, follow up in twelve to seventeen days will be typical.
- Patients should be made aware of the hours of any bathroom on board. Since many mobile units are designed without a bathroom on board.
- Patients should be made aware of the hours of any wait for their mobile unit when the unit is not in operation.
- The team should connect on street outreach with those who are unable to come to the mobile unit and seek to make reasonable accommodations to connect them to ongoing treatment.

Maintenance
- Provider visits
  - Management of ongoing buprenorphine treatment will take place as part of regular primary care visits or addiction medicine visits on the mobile unit.
- Maintenance visit frequency should be determined by the patient’s prescription, need and mobile unit schedule.
  - Care will include all services available through the mobile health unit including substance use counseling, harm reduction services and care for acute and chronic medical conditions.
- Counseling
  - Federal regulation requires that additional behavioral health counseling is available to patients who require it.
    - Patient counseling needs will be assessed often and be based on patient willingness, functioning and current substance use situation.
- Available counseling may include care provided, via tele-health platforms, through collaboration with a partnering agency, within the office-based practice of the clinical organization by LICSWs/ PsyD/ psychiatrists, or referral to counseling to an outside program.

Clinical testing
- Therapeutic monitoring of buprenorphine is an important component to understand patient adherence and efficacy.
  - It is recommended that the mobile health program considers implementing buccal swabs for toxicology given the barriers presented by urine tests, especially since many mobile units are designed without a bathroom on board.
- Regarding the administration of toxicology tests, interpretation, documentation and review of results with patients, procedures are the same as in office-based addiction treatment programs.

Steps taken to minimize diversion in the mobile setting are exactly the same as in office-based practice.
- Understanding diversion in Massachusetts and beyond:
  - The legal problems of diverted buprenorphine and risks to the program of being overly permissive around this issue, are of concern and the DEA requires any program prescribing buprenorphine to have a diversion policy. The medical problems of diverted buprenorphine are probably generally not large, but in general, prescribers should for any medicine (including antibiotics or hypertension medications, or any other) know the person they are prescribing to. Still, concerns about preventing diversion have to be balanced against implementing policies or clinician behaviors that might unnecessarily alienate patients who need the medication for their own survival but may be hesitant to get it in an overly punitive or rigid setting. One approach is to keep rules to a minimum but clearly enforce them; our OBAT program has tried to reduce this to just two clearly explainable and understandable rules. They are: 1. You have to take your suboxone to keep getting it (and we will conduct testing regularly to make sure that you’re taking it); and 2. You have to keep your suboxone supply (meaning, we will not do early fills for lost or stolen medication).

Non-MOUD

Labs and imaging procedures
- The mobile health program should provide a range of diagnostic laboratory tests appropriate to the care provided by the van. All laboratory specimens obtained on the mobile unit should be handled according to the highest standards and processed by the clinical partner’s regional laboratory services, according to the partner’s laboratory procedures policy.
- When possible, prescribers should complete lab requests electronically.
- CLIA-waivered tests should be provided directly. Non-CLIA-waivered tests should be provided through an arrangement with the clinical partner’s regular laboratory. Examples of laboratory services offered include the following:
  - Blood glucose (fingerstick)
  - Rapid strep test (throat swab)
  - Fecal occult blood
  - HCG (urine)
  - HIV and HCV (blood)
  - Toxicology (buccal and/or urine)
- Other blood tests as determined by patient need and test availability
  - Patients who require imaging should be referred according to the clinical partner’s imaging procedures.
  - Lab results and imaging should be entered into the patient’s EHR. Results should be reviewed by the provider who will discuss the results with the patient during follow up.

Abnormal labs and imaging
- When the laboratory reports and/or the provider notices abnormal results:
  - The provider should contact patients with a follow up plan and to inform them of any need for further intervention. If urgent, an on-call provider should be notified. The on-call provider should give the patient instructions on actions to be taken immediately.
  - If the patient cannot be located, this should be documented in EHR along with the steps taken in attempt to locate the patient.

Medications
- Policy
  - The mobile health program should maintain procedures to properly store and maintain any medications used on the van, noting that medications are not to be stored on the unit when the unit is not in operation.
- Medications for MOUD (i.e., buprenorphine and naltrexone) are never stored on the unit.
- Procedure
  - The mobile unit should utilize emergency drug kits (EDK) to keep a limited number of medications on-hand for use during emergencies. The emergency response medications will include:
    - Naloxone, intranasal and intramuscular
    - Epipen, intramuscular
    - Aspirin, oral
    - Nitroglycerin, sublingual
    - Glucagon, intramuscular
    - Diphenhydramine, oral
    - Glucose gel, oral gel
During mobile health unit hours of operation, all clinic Schedule VI medications will be stored in a sealed EDK container on the unit and may include albuterol, lidocaine (for incision and drainage procedures which may require local anesthesia) and limited count of frequently needed antibiotics (bactrim, doxycycline and/or clindamycin, PrEP/PEP).

Referrals to outside care
- Staff should make referrals to health care or addiction providers and other health care specialists via electronic referrals whenever possible. Referrals can also be made via telephone call and should be done directly from the mobile unit.
- Providers should make initial referrals to schedule outside agency specialty appointments electronically whenever possible.
- If possible, the clinical provider should implement a policy where available referral coordinators are activated in the event of a referral. Referral providers should be responsible for ensuring the accuracy of referral details and notifying the providers and patients as needed.
- The patient or referral coordinator should report any difficulty securing an appointment within a reasonable amount of time to the provider and follow up.

Medication checking
- Staff will hold a Massachusetts Controlled Substances Registration for the mobile unit to maintain all available medications.
- Medications will be taken onto the mobile unit by staff every day of operation. At the end of each day, all medications will be delivered to the clinical partner’s physical clinic, where they will be stored in a locked medication room.
- Proper medication storage and security procedures per regulatory requirements are the same on a mobile unit as in an office-based clinic.
- Medications will be tracked in a medication log. Administered medications will be documented in the EHR.
- Medications will be checked for expiration monthly. Supplies will be checked for expiration quarterly. Expired stock will be removed, disposed of and replaced.
- Disposal of medications will be handled through a contracted medical waste service (i.e., Stericycle).
- Emergency drug kits
  - Emergency drug kits will be labeled with contents and expiration dates. Contents will be checked after each use as well as monthly by an appropriate staff member. Emergency drug kits should be easily accessible during all times of operation.
- Over-the-counter (OTC) medicines
  - All expired or unusable OTC medications should be transported to the clinical partner organization for disposal.
- Vaccines
  - Vaccines may be administered in the mobile unit. Vaccines should be stored and handled according to the clinical partner’s office-based vaccine management policies.

Clinical equipment checking
- Calibration and preventive maintenance of all medical equipment should be completed annually by a contracted medical service company.
- Emergency response equipment should be easily accessible during all hours of operations in case of emergency.
- Contents should be checked after each emergency use and on a monthly basis. Items should be restocked as used, monthly and as they expire.
- The automatic external defibrillator should be checked on a monthly basis by an appropriate staff member.
- The portable oxygen tank should be checked monthly and after each use by an appropriate staff member. At the end of each day of the mobile unit’s operation, the tank should be removed and stored by the clinical partner for appropriate climate control.
- Two refrigerators are recommended for the mobile unit—one designated for medications and/or vaccines only and the other for food for patients.
- Mobile health program staff should follow any existing protocol from the clinical partner regarding temperature control.
- Refrigerator temperatures should be checked and logged at the beginning of each clinical session to ensure they are within proper range (35–46°F).
Safety During Mobile Outreach

Procedures

All workers who staff the mobile unit must follow the procedures listed below. Staff safety guidelines for safety during outreach is essential to provide services effectively.

1. Admin prep

Training

All workers who staff the mobile unit work must complete a safety training determined by the operating agency. The training should include personal safety techniques, de-escalation techniques, risk assessment, non-violent crisis intervention and any other appropriate safety topics. Staff should renew their training at least every other year.

Safety planning and outreach preparation:

- **Track whereabouts:** The mobile team should always report an outreach plan before they leave the mobile unit to all staff on the van. A designated staff member not onsite should also be informed of planned outreach routes and estimated return times.
- **Pair up:** No one shall conduct outreach or remain on the mobile unit alone. Be sure to conduct all mobile outreach activities in groups no smaller than two people. If the clinician is seeing a patient on the mobile unit, another staff member should also be present on the mobile unit.
- **Any deviation from the planned clinical locations or outreach routes must be reported to all mobile team members and the offsite designee immediately by the method pre-determined by the team. Acceptable methods of notification include phone call, text and email. If a worker does not return to the mobile unit at the planned time and cannot be reached, the mobile team should notify the worker’s emergency contact.

Expectations of supervisors

- In order to ensure the safety of staff, supervisors are responsible for the following tasks.
  - Keep a list of emergency contacts for every worker of their parent organization who staffs the mobile unit and/or does outreach.
  - Ensure that all workers have either a cell phone issued by the parent organization or a personal cell phone. If safety apps are being utilized, workers must be trained in their use and the cell phone being used must have the app(s) installed.
- Develop a safety plan with staff. The plan should be re-evaluated as factors change.
- **Should a threat or event of violence occur, supervisors should:**
  - Present an open environment for discussion to anyone affected.
  - Attend to the needs of the worker, co-workers, and affected patients.
  - Provide ample opportunity for debriefing of the event and offer trauma counseling to those involved.
  - Document the details of any incident in a written report.
  - Immediately communicate with the appropriate agency staff to report any serious incident and consider if and when, legal action should be taken.
- Instances of work-related threats and incidents of violence should be communicated to other staff members.

Adapted from Boston Health Care for the Homeless Program “Safety in the Outreach Setting: community and Home Visits.” Edited August 11, 2019.
2 Safety during outreach and the visit

Risk assessment:
• Team members should share risk assessments of program participants at regular team meetings to prepare for upcoming clinics. Potential safety issues with particular expected participants and safety issues ascribed to the setting of the encounter should be considered. Assess the potential for violence with any particular patients and the clinic environment?

Teams of two*: All mobile team members should operate exclusively in teams of two or more.
• Teamwork requires trust and cooperation. All staff members must leave when the any staff person indicates the need to leave a potentially unsafe situation. Because a worker may perceive a threat that the others is entirely unaware of, it is important that all agree to leave at any sign someone is ready.

Safety during the visit
• Do not address a person who is visibly disturbed, yelling or screaming.
• Be conscious of your surroundings and make sure there is access to an escape route constantly.
• Be cautious of personal space—always keep arms length distance between you and participant of the program.

3 General safety

General safety tips
• Use “universal precautions.” This means to consider every person and every environment to be potentially dangerous.
• Be friendly and kind during outreach and clinic, but stay focused on the working relationship and helping the participant reach their goals.
• Trust your instincts. Leave when you sense potential danger.
• Know what behaviors provoke you and ways to respond to those behaviors without placing yourself in danger.
• Keep your hands free.
• Keep car keys in your pocket or easily accessible.

• When indicated, consider developing a contract with program participants to outline appropriate and inappropriate behaviors, establishing clear boundaries.
• It is important that participants either manage their own money or work with another payee service. Staff may not ever borrow, save, give, use or exchange money or other valuables, including ATM and EBT cards, with participants.

Dress and valuables
• Avoid wearing items around the neck, for example scarves and jewelry, as these can be a choking hazard.
• Avoid wearing headphones or earbuds as these diminish awareness of surroundings and may increase vulnerability.
• Do not bring valuable bags or jewelry to work.
• When the mobile unit is unstaffed or unattended, all valuable items must be stored out of sight and the unit must be locked.
• Organization IDs must be worn at all times.

Safety equipment (provided for staff):
• Breakaway ID lanyards
• Cell phone with safety apps (if utilized). Staff member must be trained in its use and a toggle can be added as an option.
• (optional) Personal safety alarms

Mobilizing a Rapid Response
Mobilizing a Rapid Response

A key advantage of the mobile health program is its ability to adjust to evolving needs and circumstances. If data indicate a new overdose hotspot within the mobile health program’s catchment area, a rapid mobilization and deployment may be called for. In these instances, the following considerations should be taken.

Examples
Scenarios that require a rapid response may include:

- Rapid and/or sustained increase in overdose in an area not currently serviced by the mobile health clinic
- Outbreak of infectious disease such as HIV, hepatitis B, or meningitis among PWUD
- Evidence of new tent communities or other homeless settlements, possibly due to displacement in another area

Flexible scheduling
Resources and bandwidth issues may be factors limiting a team’s ability to rapidly respond to emerging crises. Mobile health clinics should also be mindful not to divert necessary resources from a clinical site where there is still need for services. Please refer to Environmental scan—proposed schedule for strategies on how to employ flexible scheduling.

Expedited community engagement
As previously mentioned, engaging community partners and stakeholders is crucial to successful program implementation. When circumstances require swift action, the need for community engagement must be balanced with the urgency of the response. It is recommended that immediate engagement with the following community partners be prioritized:

- Other frontline staff (e.g. outreach workers from other organizations to coordinate efforts)
- Local law enforcement
- Local hospitals/community health centers
- Local political representatives

Other engagement efforts with local neighborhood associations, business and other stakeholders should be done as is possible over the course of the rapid response.

Mobile Health Unit Cleaning and Infection Control
Mobile Health Unit Cleaning and Infection Control

Cleaning
• After each clinic session, staff on the van should wipe down surfaces and medical equipment with disinfectant.
• The mobile unit should receive a comprehensive cleaning on a weekly basis. The mobile health team should ensure to budget for staff time and supplies to clean the mobile unit regularly.
• Refrigerators should also be cleaned according to the clinical partner’s existing protocols.

Infection control
• Standard precautions such as hand-washing before and after each clinical encounter should be followed, and personal protective gear will be donned and doffed as needed.
• Office-based policies and procedures regarding infection control should be followed on the van, including for all procedures for identifying, reporting, controlling and monitoring infections in patients and staff of the mobile unit.

Medical waste policy
• Mobile health team should ensure they have plans and a contracted agency in place to dispose of hazardous materials.
• All biomedical waste materials and containers (including sharps) throughout the mobile unit should be collected quarterly or as needed by staff.
• The mobile health team should follow the schedule and protocols set forth by the contracted agency responsible for removal of hazardous materials.
Mobile Health Unit Maintenance and Cleaning

Mobile unit maintenance
- The van should be registered and inspected by a private vehicle maintenance company.
- The van should undergo routine mechanical maintenance (e.g., oil change, etc.) every six months.
- Other mechanical upkeep should be completed as needed by a private vehicle maintenance company.
- At any time, if deemed unsafe by van staff or in consultation with the lead organization’s facilities manager, the vehicle will be removed from service until necessary repairs have been made. The applicable manufacturer’s recommendations will be used as the basis for deciding when vehicle conditions warrant a vehicle's removal from service. Examples of these conditions may include excessive leakage of vehicle fluids, problems with steering or braking, inoperable wiper blades, or poor tire condition.
- Membership should be obtained with an emergency roadside services company to provide mobile unit towing if needed.
- Patient care spaces and equipment should be cleaned and sanitized before and after each patient encounter on the mobile unit. The entire van should be cleaned after each day's use and a deeper, more comprehensive cleaning should occur on a weekly basis. During this weekly cleaning, the condition and inflation of tires should also be checked.
- Every other time that the mobile unit is fueled, the oil and coolant levels should be checked.
- As needed, but not less than every other month, the exterior of the van should be washed.
- OSHA guidelines should be followed when cleaning up blood or bodily fluids.

Mobile unit parking and siting
- After hours, the mobile unit should have a secure, designated parking space that is accessible to the program staff.
- Mobile unit operations should only be sited on solid, level parking surfaces. If the mobile unit has wheel stabilizers, those should be deployed to safeguard against movement when parked on an incline of any kind.
- Mobile unit siting should maintain a minimum separation of at least 30 feet between the unit and any building outside air intakes or any HVAC or generator exhaust and at least 20 feet between the mobile unit and any unsprinklered building.
- The unit will be located to allow appropriate access to and exit from the unit without interference with adjacent building exits or fire lanes.

Exchange and transport of equipment and supplies
At the end of each day of the mobile unit’s operations, some equipment, including any computers that allow access to the EHR, should be delivered to a secure brick-and-mortar location. The equipment should then be taken onto the unit by staff the next day of operation.
Evaluation

Rationale

Demonstrating reach and impact of the mobile health program is not only critical for internal decision-making in order to maximize effectiveness, but also for potential funders and other stakeholders. Mobile health programs should endeavor to design evaluations where:

- **Data are maximally useful**—Data collected can demonstrate the impact and/or effectiveness of the program.
- **The burden of data collection in the mobile setting is minimized**—As much of the harm reduction and clinical services taking place will not be conducive to inserting research assistants into the staffing model, much of the onus of data collection will likely fall on the frontline staff. Evaluation design should ensure that any data collecting requirements are reasonable and as minimally disruptive to service provision as possible. When data collection efforts and access or quality to service provision are at odds, the team should always prioritize service provision and re-evaluate data collecting options.

Potential data points to collect:

- Contacts during outreach
- Needles collected/distributed
- Naloxone kits distributed
- Clinical encounters
- Unique patients
- Buprenorphine/naltrexone prescriptions
- Total filled prescriptions
- Unique buprenorphine/naltrexone patients
- Toxicology results with buprenorphine/naltrexone present
- Toxicology results without illicit opioids present
- Returning patients
- Referrals made (where and % successful)
- Patients treated for HIV, HCV (if applicable)
- Patients successfully completing HCV treatment (if applicable)
- Clinical tests: HIV, HBV, HCV, STI
- Positive clinical tests: HIV, HBV, HCV, STI
- PrEP/PEP use

Other potential evaluation projects

- Quasi experimental trial—Compare outcomes in neighborhoods/areas where the mobile health unit currently serves to similar areas where no similar mobile programming currently exists. Do overdose rates change/differ? Other trends?
- Cost effectiveness analysis—Analyze the mobile health program’s economic impact on the local health care system; determine whether or not harm reduction services, wound care and treatment are preventing costly interactions with healthcare services (e.g., emergency department visits for skin infections, etc.).
- Randomized control trial—Does the presence of a mobile health unit in a region increase access and health of a community compared to similar areas with no van present? Also may compare the same area during clinical days vs. non-clinical days.
Appendix

APPENDIX A—The Community Care in Reach (CCiR) mobile outreach initiative:
Pilot evaluation, 01/16/2018–11/16/2018