



Division of Infectious Diseases

Using Community Health Workers to Deliver Managed Problem Solving to Improve the HIV Continuum of Care

Florence Momplaisir, MD MSHP FACP

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Ending the HIV Epidemic

- The United States End the HIV Epidemic (EHE) initiative has set ambitious goals for 2030 to decrease new HIV infections by 90%
- Currently, many US counties fail to meet these goals, signaling a need for concentrated efforts in these counties to improve the HIV continuum of care by applying implementation science.



Philadelphia is one of the 48 counties prioritized in the EHE initiative.

- In Philadelphia, 45% of people living with HIV (PLWH) are retained in care
- Only 49% have achieved viral suppression
 - The Philadelphia Department of Public Health (PDPH) established the goal of having <u>91% of PLWH</u> with evidence of care in the last 5 years, achieve viral suppression
- Individuals not retained are responsible for 35% of HIV transmission



Diagnose all people with HIV as early as possible after infection.

Treat the infection rapidly and effectively to achieve sustained viral suppression.



Prevent new HIV transmissions by using proven interventions, including pre-exposure prophylaxis (PrEP) and syringe services programs (SSPs).

Respond quickly to potential HIV outbreaks to get needed prevention and treatment services to people who need them.



MAPS targets adherence barriers through an iterative five-step process





Gross et al., JAMA internal medicine. 2013

Intervention Delivery

Initial visit

- Duration 60-90 min
- 3 monthly follow-up visits
 - Duration 45-60 min
- Weekly phone calls for 3 month
 - Duration 5-20 min
- Monthly refill calls for 1 year
 - Duration 1-5 min



MAPS WORKS!

- MAPS associated with higher adherence Odds of being in a higher category of adherence 2.33 (1.35-4.05) for MAPS vs. UC
- MAPS associated with higher odds of UDVL

Odds of UDVL=1.98 (1.15-3.41) favoring MAPS

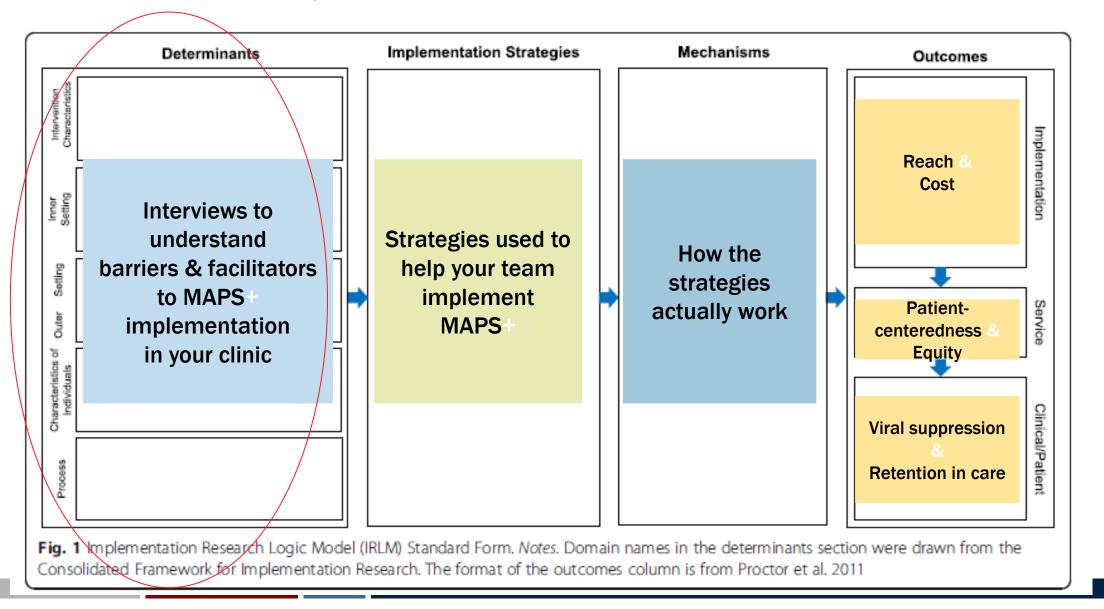


MAPS implementation

MAPS adoption in community clinics has been low Community Health Worker (CHWs) – delivered MAPS (task shifting) What's next to ensure effective implementation of CHW delivered MAPS?



Big Picture of Entire Project





Pre-implementation phase

Understand multilevel implementation context to maximize the likelihood that MAPS is equitably deployed into practice

Assess stakeholder perspectives of barriers and facilitators to CHW-delivered MAPS

 Utilizing rapid qualitative approach Inform implementation planning for a subsequent hybrid Type 2 effectivenessimplementation trial



Participants: Stakeholder Groups from 13 HIV clinics

Stakeholders N=31	
Prescribing clinicians	6 (19.3%)
Non-prescribing clinical team members	14 (45.2%)
Clinical administrators	7 (22.6%)
Policymakers (PDPH)	4 (12.9%)



Methods: Qualitative Interviews

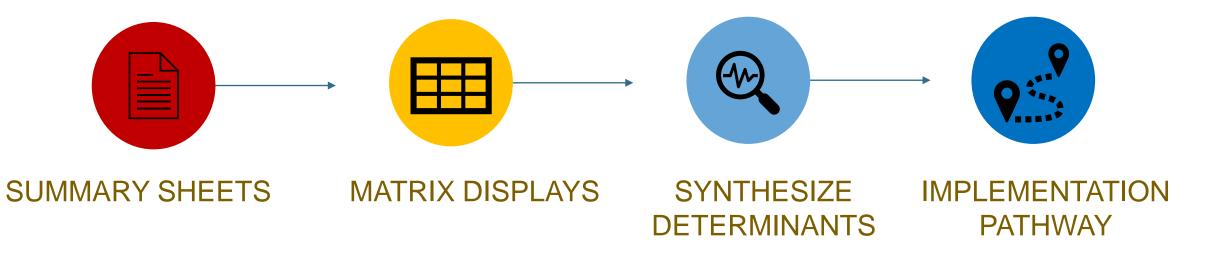
Consolidated Framework for Implementation Research (CFIR)

Intervention characteristics MAPS characteristics	Outer setting Economic, political, and social context	Inner setting Ryan White clinics
Individual	s Involved Implement	ation process

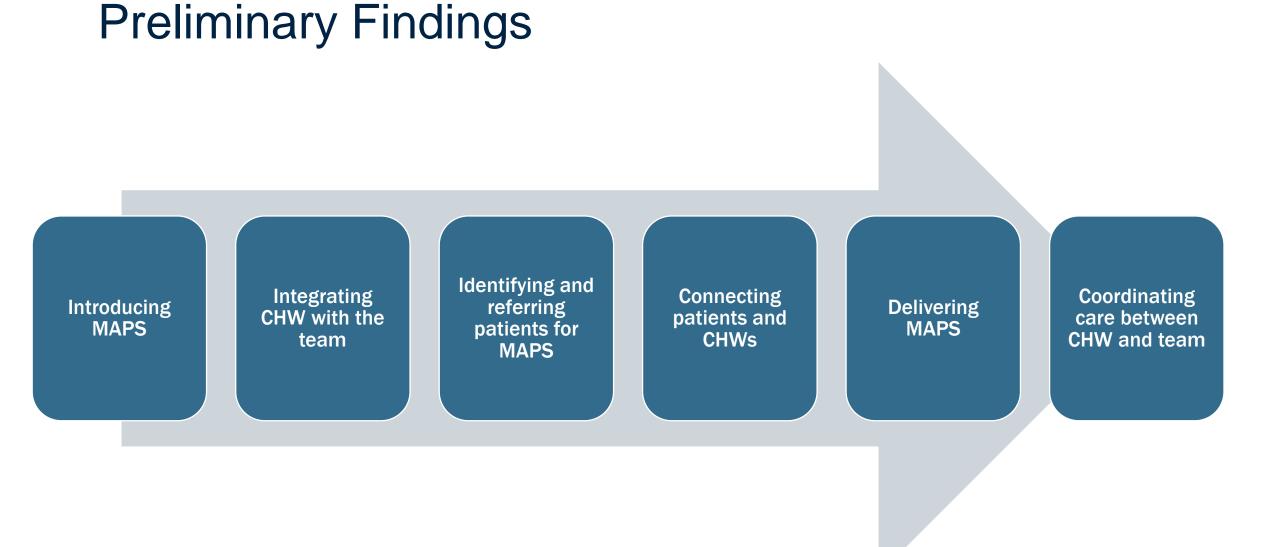
Characteristics of CHWs and other staff



Rapid Qualitative Approach







MAPS IMPLEMENTATION PATHWAY

Introducing MAPS

- Leadership buy-in
- Messaging within clinics
- Education for the whole team on both MAPS and the CHW role



Integrating CHW with the team

CHW onboarding & training process
Workflow & role clarity across the team
Clinic-level consultation/supervision for CHW



Identifying and referring patients for MAPS

- Existing processes for referral (e.g., datagenerated lists, QI reports)
- Provider, outreach coordinator,
- administrator identification
- •QI Meetings for identification
- •CHW presence on-site



Connecting patients and CHWs

- •CHW scheduling and availability
- •Establishment of initial contact (e.g., warm handoff)
- •CHW characteristics (e.g., representative
- of community, lived experience)
- Navigation of stigma/fostering trust



Delivering MAPS

- MAPS characteristics (e.g., length, number of sessions, language, literacy, patient-centered, structured)
 Flexibility of MAPS delivery (e.g., time/location/method)
- Potential patient burden

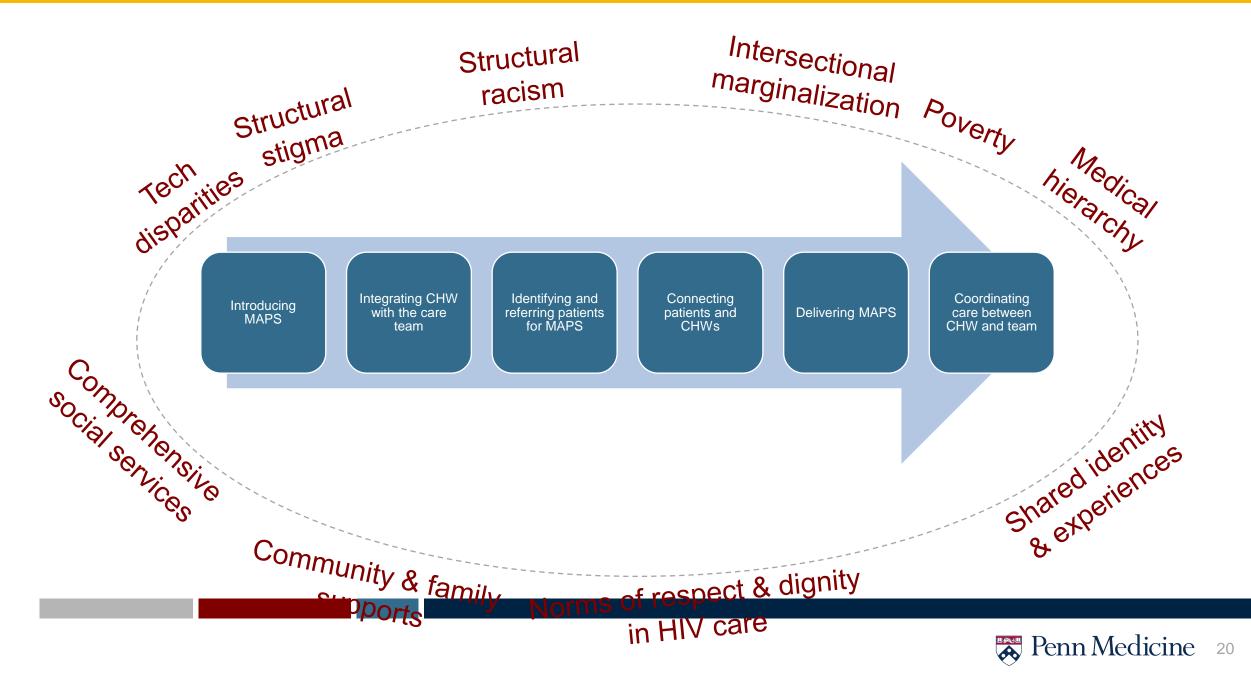


Coordinating care between CHW and team

- Existing technology platforms for communication
- CHW knowledge of cross-clinic processes
- Clear communication of patient needs
- Dissemination of effectiveness & outcomes



MAPS IMPLEMENTATION PATHWAY



Limitations and Future Directions



Lack of patient and CHW involvement in this phase of contextual inquiry

Future work will include the perspectives and experiences of those delivering and receiving the intervention



Results may be more generalizable for urban settings and may not speak to unique challenges of rural or suburban clinics serving PLWH



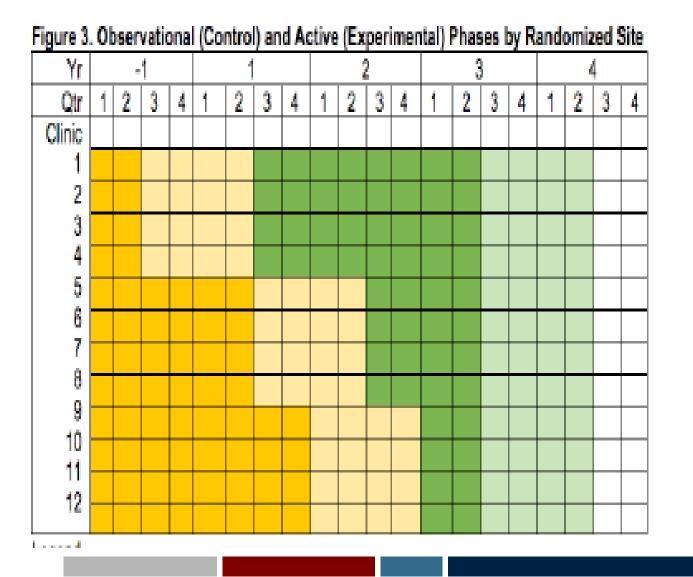
Conclusion

1. CHW must be welcomed into the *local clinic community*.

- For successful integration, role clarity is essential
- 2. Teams must be <u>on the same page</u> with their messaging to patients.
 - Framing MAPS+ as an extra support (not a burden) is important
- 3. Processes must be tailored to <u>promote efficiency</u> with information sharing.
 - Brief, shared treatment plans may augment EHR-based communication



Early Implementation Phase



- Clinics are randomized to end the observational stage and move to the experimental phase
- Crossover is unidirectional
- Assess VL and retention before and at 1 year after implementation of MAPS

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