

# RN/CHW Care Team Model for Infectious Disease Treatment: From Research to Practice

February 23rd 1:00-2:30pm EST



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## Agenda

O1. Introduction

Introduction of NTTAP Program

02. CHW/RN Model

Dr. Nyamathi, Dr. Salem and Emily Van Cise: Discussion of research and model with Q+A

O3. Implementation of CHW/RN Model

Jeneen Skinner and Dorothy Scott: Camden Coalition's implementation model with Q+A

#### National Nurse-Led Care Consortium (NNCC)

The National Nurse-Led Care Consortium (NNCC) is a membership organization that supports nurse-led care and nurses at the front lines of care.

NNCC provides expertise to support comprehensive, community-based primary care.

- Policy research and advocacy
- Technical assistance and education support
- Direct, nurse-led healthcare services



#### NNCC NTTAP TEAM













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## Learning Objectives

By the end of this webinar, participants will be able to:

- Discuss foundational components of the CHW/RN care team model as implemented in community health care settings
- 2. Recognize how the Nurse-Led CHW team may lead to patient engagement and retention for infectious disease treatment including HCV.
- Identify cost savings, return on investment, and treatment benefits in the CHW/RN model.







#### NATIONAL NURSE-LED CARE CONSORTIUM

# Developing and Implementing Nurse-Led/Community Health Worker Teams as a Model of Care for Underserved Communities Locally and Globally

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### Presenters

The presenters have no relevant financial relationships with any commercial interests to disclose.



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#### **Presentation Outline**

Part I: Characteristics of Community Health Workers, Training, and Fidelity Monitoring

Part II: Nurse-Led/CHW Model To Improve Medication Adherence among Homeless Adults Diagnosed with LTBI

Part III: ASHA LIFE - Improving Health and Nutrition of Rural Indian Women Living with HIV

Part IV: How the Downtown Women's Center Integrated Community Health Workers to Ensure Sustainability









# Part I: Community Health Worker Roles, Training, & Fidelity

Benissa E. Salem, PhD, RN, MSN, PHN, CNL

NIH/NIMHD R21-MD012696, R21MD013580 NIH/NIDA R01DA027213, R34DA035409



#### Characteristics of Community Health Workers<sup>1</sup>



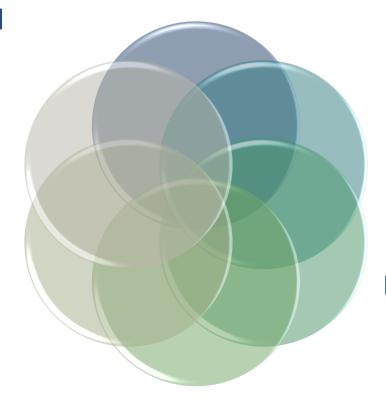


# A Vital Role - Characteristics of Community Health Workers<sup>2,3</sup>

**Cultural mediation** 

Building individual and community capacity and providing direct services

Assuring people get the services they need



Advocating for individual and community needs

Informal counseling and social support

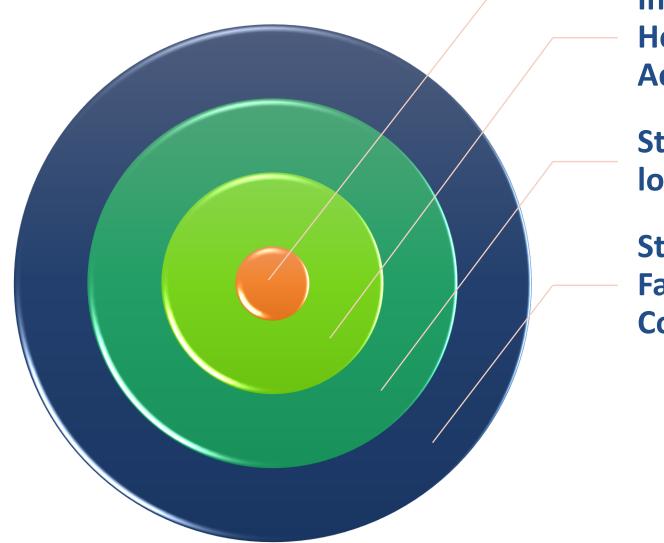
Providing culturally appropriate health education







# **Community Health Workers Outcomes**<sup>3</sup>



Decreasing Healthcare Costs

Increasing Healthcare Access

**Strengthening local economy** 

Strengthening Family and Community



# "I am HCV Free" Intervention Versus Clinic-Based Standard of Care

Design:
Randomized
Controlled Trial

Intervention
Delivery: NurseLed/CHW
program

Outcomes:
Completion of
HCV
Medication,
Anxiety,
Depression

Community-Based Organization Stakeholder Involvement





# **Training and Supervision of Community Health Workers**









## Competency Checklist - Example

	Excellent	Good	Okay	Needs Improvement	Request to Obs	erve or Discuss gain	Date Observed	Signature
1. Scope of Work & Participant Flow Chart	4	3	2	1	Yes	No		
2. Recruitment and Screening	4	3	2	1	Yes	No		
3. Script for information session at research site	4	3	2	1	Yes	No		
4. Script for information session at performance site	4	3	2	1	Yes	No		
5. Information session script	4	3	2	1	Yes	No		
6. Two-month follow-up flyer	4	3	2	1	Yes	No		
7. Five-Month follow-up flyer	4	3	2	1	Yes	No		
8. Screening Consent	4	3	2	1	Yes	No		
9. Eligibility criteria	4	3	2	1	Yes	No		
10. Laboratory tests	4	3	2	1	Yes	No		
11. Informed consent	4	3	2	1	Yes	No		
12. Locator guide	4	3	2	1	Yes	No		
13. Photo face sheet	4	3	2	1	Yes	No		
14. Enrollment and Mavyret prescription	4	3	2	1	Yes	No		
15. Baseline questionnaire administration	4	3	2	1	Yes	No		
16. Two Month Questionnaire Administration	4	3	2	1	Yes	No		
17. Five Month Questionnaire Administration	4	3	2	1	Yes	No		
18. Urinalysis	4	3	2	1	Yes	No		
19. Mavyret medication pick-up	4	3	2	1	Yes	No		
20. Mavyret medication transport	4	3	2	1	Yes	No		
21. Mavyret medication delivery and pick- up to RN & documentation	4	3	2	1	Yes	No		
22. Mavyret dispensing environment	4	3	2	1	Yes	No		
23. Mavyret dispensing process	4	3	2	1	Yes	No		





### **Competency Scoring**

**Scoring Instructions:** The following is the scale used to compute the overall evaluation score. A score of **75%** (138 points/184 points) is needed to pass overall.

Percentage	Evaluation Grade
97-100	A+
94-96	A
90-93	A-
87-89	B+
84-86	В
80-83	B-
77-79	C+
74-75	C
70-73	C-







## **Fidelity Monitoring** Frequent communication Detailed training manuals The PI/Co-Is session auditing reviewed and approved by PI and Co-I's Inclusion of training sessions for administration of all measures Progress logs (for interviewers)







#### Nurse-Led/Community Health Worker Studies

#### **Exemplars**

Citation	Design	Results	Conclusions
Nyamathi et al 2016 <sup>4,5</sup>	• RCT (N=600)	<ul> <li>When compared to baseline, all three groups made progress on key health-related outcomes during the 12- month intervention period; further, 84.5 % of all participants eligible for hepatitis A/B vaccination completed their vaccine series.</li> </ul>	<ul> <li>All three intervention strategies were found to be comparable in achieving a high rate of vaccine completion, which over time will likely produce tremendous savings to the public health system.</li> </ul>
Nyamathi et al 2017 <sup>6</sup>	• RCT (N=414)	<ul> <li>Regardless of group assignment, significant and clinically relevant reductions were observed in stimulant use over time, and sex with multiple partners</li> </ul>	<ul> <li>Culturally sensitive approaches are needed to successfully reduce drug use and risky sexual activities among gay and bisexual populations.</li> </ul>
Nyamathi et al 2017 <sup>7</sup>	• RCT (N=130)	• The effect of DBT-CM on reducing recidivism was greater among those who expressed a desire for help (risk ratio [RR] = 0.40; 95% confidence interval [CI] = [0.16, 1.00]; p = .050) and among homeless female ex-offenders (HFOs) who were younger (<50 years of age; RR = 0.46; 95% CI = [0.19, 1.11]; p = .085) and participants with Desire for Help score > 35 (Model 3; RR = 0.40; 95% CI = [0.16, 1.00]; p = .050).	<ul> <li>Findings from this pilot study suggest that the DBT-CM intervention may be effective in reducing reincarceration rates among some HFOs during reentry.</li> </ul>
Salem et al 2017 <sup>8</sup>	• Pilot RCT (N=32)	<ul> <li>While program differences were not statistically significant with the main outcome variables, medium-to-large effect sizes were found in favor of the HP program as it relates to physical and overall frailty, as well as, any drug use, alcohol use, and drug dependency.</li> </ul>	<ul> <li>Strengthen the HP program to optimize all domains of frailty (e.g., physical, psychological, and social) and substance use for P/FHW.</li> </ul>









# Part II: Nurse-Led/CHW Model To Improve Medication Adherence among Homeless Adults Diagnosed with LTBI

Adey Nyamathi, Donald Morisky, Benissa E. Salem, Sanghyuk Shin

NIH/NIMHD R21-MD012696



#### Background & Significance

- Globally, TB is one of the top 10 causes of death; affecting over 10 million people
- In California, the rate of TB is more than twice the national case rate<sup>9</sup>.
- TB is a disease of poverty as it disproportionately affects impoverished communities 10,11.
- In the US, homeless persons have a 10-fold increase in TB as compared to the general population 10,11.







#### Methods

#### **DESIGN & PURPOSE**

Single-Arm Longitudinal Design.
Compared a tailored RN/CHW
intervention to a historical control<sup>12</sup> of
3HP conducted in a homeless clinic
setting.

#### **SAMPLE SIZE**

N=466 homeless adults screened; 50 were enrolled.





# Delivering an LTBI Intervention: Focus Groups<sup>13</sup>

#### **Facilitators**

- Characteristics of research staff (i.e., gender, ethnicity language proficiency)
- > Familiarity with PEH
- > Internalizing Intervention content
- Providing Incentives
- Receiving Comprehensive services
- Staying connected and engaged

#### **Barriers**

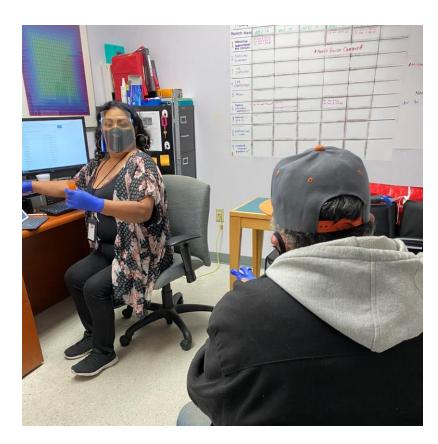
- > Lack of respect
- Lack of education on LTBI medication side effects
- > LTBI as a stigmatized disease
- > Transient population





### Nurse-Led, Community Health Worker Team Delivering LTB Medication to People Experiencing Homelessness













#### Results<sup>14,15</sup>

- Most participants completed 3HP treatment (92%; n=49; 65%) historical control comparison.
- Significant decreases in any drug use (p=.004), amphetamine use (p = .029), marijuana use (p=.001) and methamphetamine use (p = .031) at 6-month follow-up.
- Neither drug use, depression, nor anxiety were associated with 3HP LTBI treatment completion.
- Follow-up at three and six months was 94% and 88%, respectively.









# Part III: ASHA LIFE - Improving Health and Nutrition of Rural Indian Women Living with HIV

Adey Nyamathi, Sanjeev Sinha, Maria Ekstrand, Sanghyuk Shin, Catherine Carpenter

NIH/NIMH R01-098729



### **Background & Significance**

Over 2.3 million people are living with HIV/AIDS in India

One third are women of childbearing age

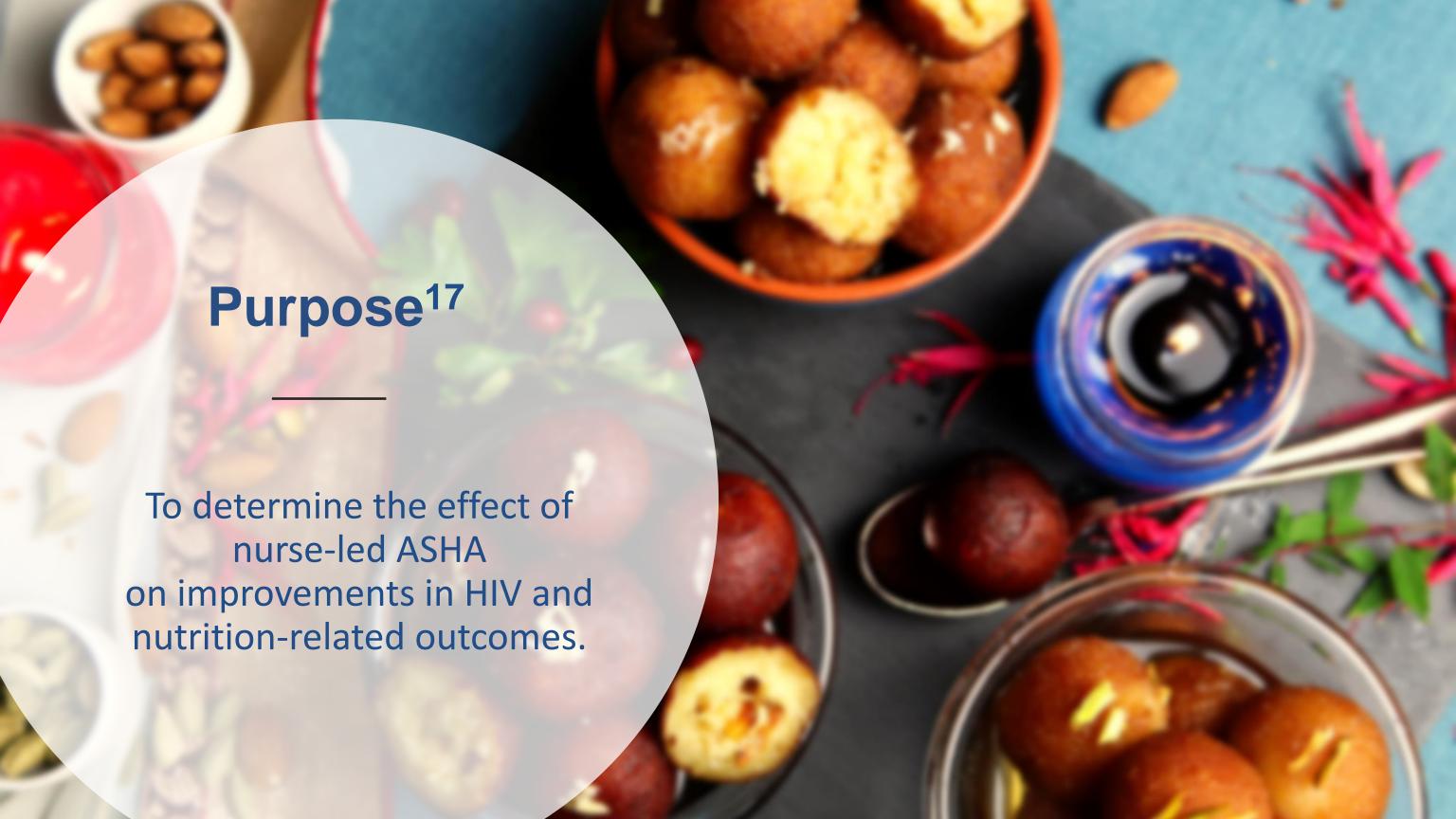
Women first learn about being HIV infected when they are pregnant









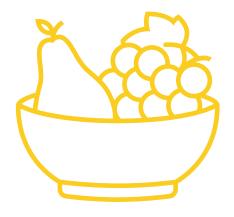


### 2 x 2 Factorial Design<sup>16,17</sup>

600 women were randomized into one of 4 arms



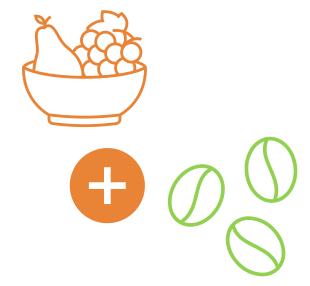
Asha support alone



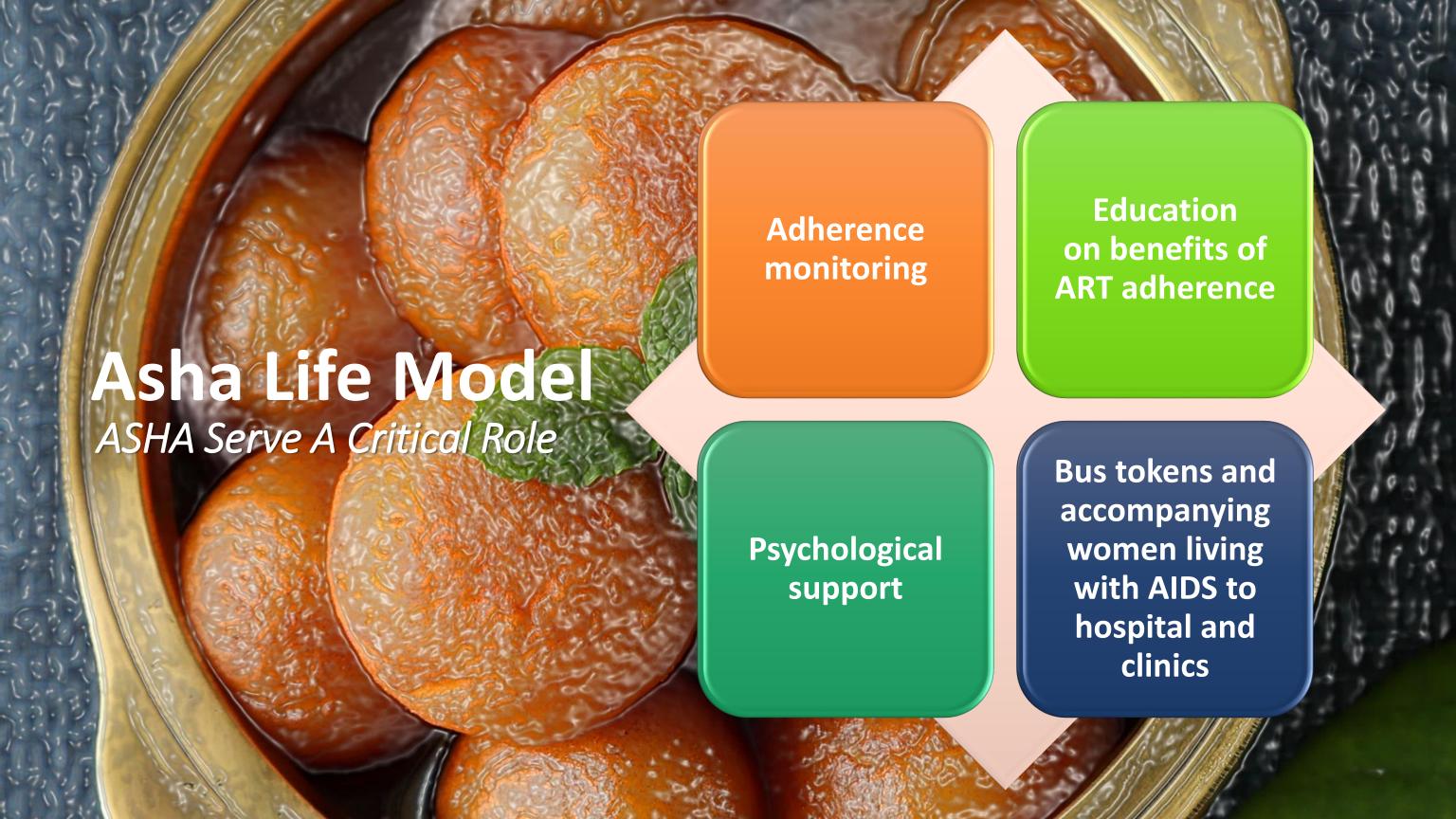
Asha support + nutrition education



Asha support + food supplementation



Asha support +
nutrition
education + food
supplementation



### **ASHA Selection & Training**

Recruited from villages like the participants

Each of four groups received program-specific training and Life-Skills

Four ASHA were assigned to each of the four groups

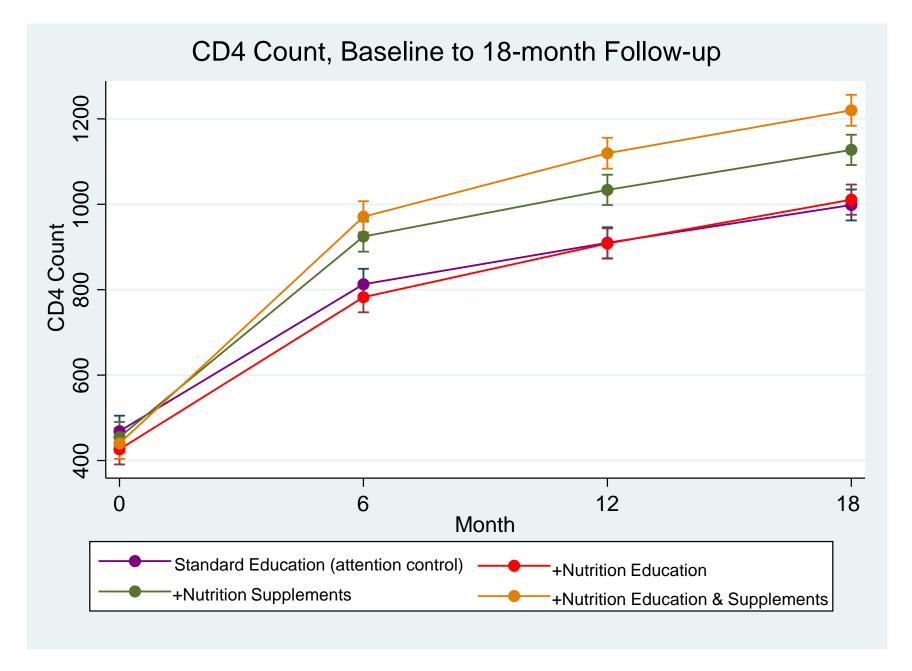
Age between 20-50 and interested in caring for women living with HIV

Sixteen ASHA were rigorously trained by investigators





## CD4 Count, Baseline to 18-Month Follow-Up<sup>16</sup>

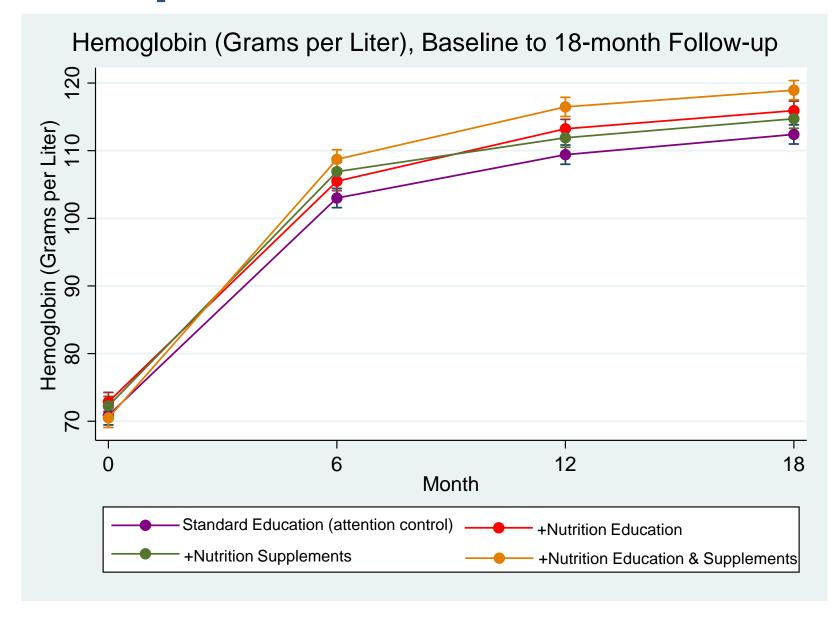








# Hemoglobin (Grams per Liter), Baseline to 18-Month Follow-Up<sup>16,17</sup>









# Part IV: How the Downtown Women's Center Integrated Community Health Workers to Support Sustainability

Emily Van Cise, MA



## Mission & Vision<sup>18</sup>

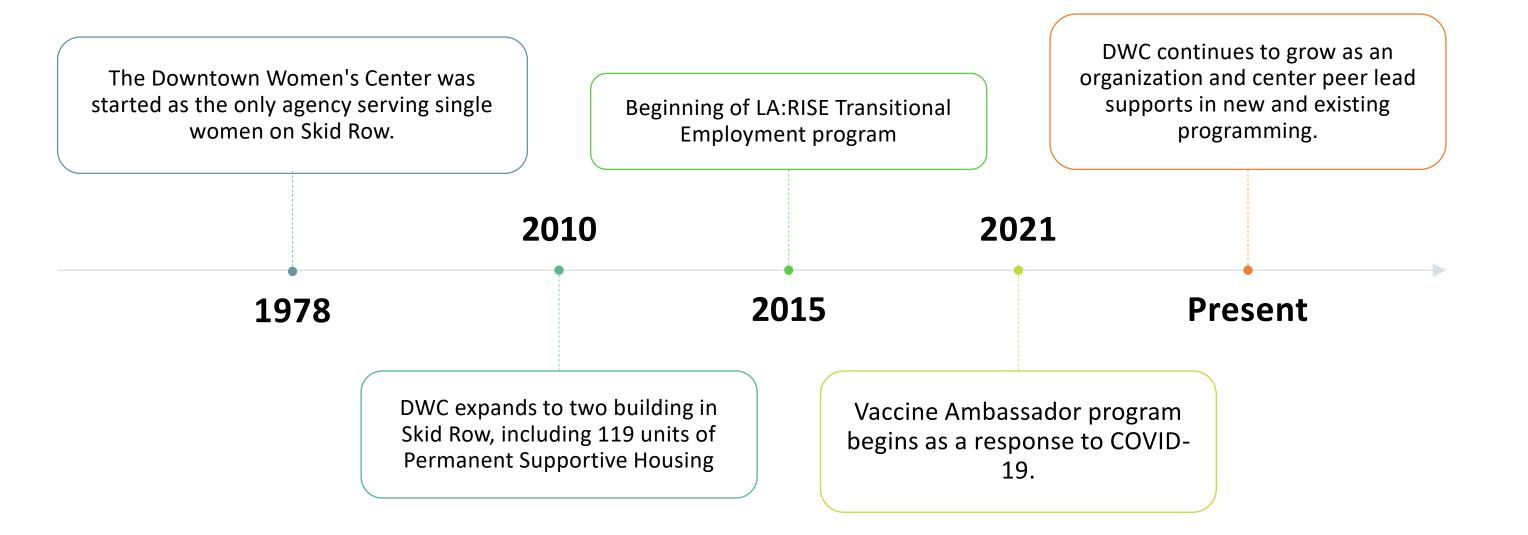




The Downtown Women's

Center (DWC) is the only

## History of the Downtown Women's Center



School of

Nursing

University of

California, Irvine

DOWNTOWN

## Peer-Led Opportunities at DWC

Peer Leaders

**Unpaid participants** 

Support Day Center,
Health, and
Permanent
Supportive Housing
Services

Vaccine Ambassadors

Partnership with DHS to provide COVID vaccines, education, and outreach.

Transitional employees with lived experience of homelessness.

Transitional CHWs

300 Hours of onthe-job training

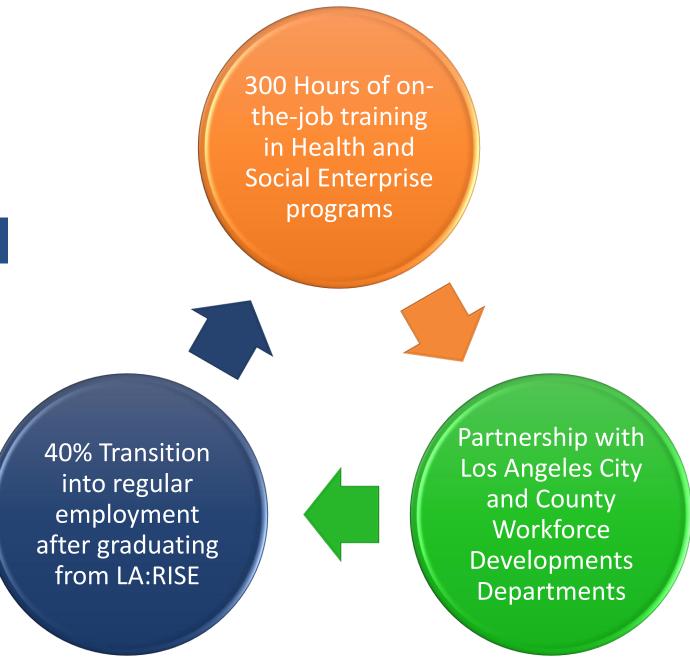
No change in access to services

Provide Street Outreach and Onsite Workshops Peer Specialist

Regular, full-time staff

Focused on harm reduction and access to community health resources

LA: RISE - Transitional Employment







## **DWC Successes**

Total Vaccinations

2230

Community Hires

21

Staff Training

900 Hours

Screening Events

110

Participants Served

200





## **Lessons Learned**

## **Specialized Trainings**

- Trauma-Informed Care
- Boundaries
- Crisis Intervention

### Boundaries

 Understanding change in role from community member to community health worker









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# Camden Coalition Subject Matter Experts



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Dorothy Scott

Community Health Worker

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## NNCC-Webinar February 23, 2022









#### About Us



The Camden Coalition of Healthcare Providers is a multidisciplinary, community-based nonprofit working to improve care for people with complex health and social needs in the city of Camden, New Jersey, and across the country. We develop and test care management models and redesign systems in partnership with consumers, community members, health systems, community-based organizations, government agencies, payers, and more, with the goal of achieving person-centered, equitable care.

As one of New Jersey's four Regional Health Hubs, we work with regional partners, New Jersey's Medicaid office, and other state agencies to expand data sharing and collaboration between organizations so that patients across South Jersey experience seamless, whole-person care.





## Camden Core Model



We use data to identify eligible patients, most often through our <u>Camden Coalition</u> Health Information Exchange, using criteria that measure considerable medical and social complexity. We then meet patients in-person, usually at the hospital bedside, to enroll them in the intervention. Once participants are enrolled, an interprofessional team of nurses, social workers, and community health workers visits them in the community, helps reconcile their medications, accompanies them to doctor's visits, and links them to social and legal services.

Our <u>COACH</u> practice guides our team in building authentic healing relationships that build patients' self-efficacy. We work with each individual to create a customized care plan, centered on their own goals and wishes, that helps them realize their highest level of health and well-being.







## Triage Criteria

**Utilization Pattern**: 2-4 inpatient admissions within the past 6 months

**Age**: 18-80

**Insurance Coverage**: any patient with NJ Medicaid or dually eligible Geographic Target Area: City of Camden and surrounding ZIP codes **Inclusion Criteria**:

- -2 or more chronic conditions
- -2 or more barriers which can include:

polypharmacy

lack of social support at home or in the community

Housing instability

active substance use

physical disabilities (e.g., hearing or visual impairment

difficulty accessing services (e.g., language barrier, limited mobility)

significant mental health conditions (e.g., schizophrenia, bipolar disorder





## Triage Criteria



#### **Exclusion Criteria are any of the following:**

- -living in a nursing home or assisted living facility (because these patients receive all of their care at their facility)
- -dementia or Alzheimer's
- -receiving intensive care management services from another agency
- -primary reason for the current admission is:
- -cancer diagnosis (because the cancer diagnosis will drive most of the patient's hospital visits)
- -planned surgical procedure (e.g., bariatric surgery)
- -acute conditions without other complicating factors (e.g., appendicitis)
- -due to the complications of a progressive disease that has limited treatment (e.g., multiple sclerosis or ALS, because the progressive chronic disease will drive most of the patient's hospital visits)
- -for mental health only with no comorbid conditions (e.g., schizophrenia, suicidal ideation





## Teaming



Interprofessional team that consists of the following:

Medical Director
Associate Director
Triage Specialist
RN/CHW Dyad
LPN/CHW Dyad
Social Workers
Housing Specialists
Medical Legal Partnership







## COACH



We learned that our patients seemed to do better when they developed what we call "<u>authentic</u> <u>healing relationships</u>" with our Care Team — a secure, genuine, and continuous partnership between the Care Team Member and the patient. Our knowledge of the techniques and practices that worked best with patients, including authentic healing relationships evolved into what we now call COACH.

This five-part framework trains staff to problem-solve with patients to effectively manage their chronic health conditions and reduce preventable hospital admissions. Once the Care Teams were routinely practicing COACH, we worked with researchers from PolicyLab at the Children's Hospital of Philadelphia to develop a COACH manual that outlines the approach and standardizes how we use it with our patients.





## COACH



#### **COACH Stands for:**

**COACH** is our framework for building authentic healing relationships with patients that empower them to take control of their health. COACH stands for:

Connect tasks with vision and priorities
Observe the normal routine
Assume a coaching style
Create a backwards plan
Highlight progress with data





## Care-planning



#### Creating a Care-plan

The **Camden Coalition's 16 care domains** are the areas in which we work on behalf of our patients. Patients set their own goals as part of the Camden Core Model, and we use the care domains to help organize the work that needs to be done.

- Addiction
- Advocacy and activism
- Benefits and entitlements
- Education and employment connection
- Family, personal, and peer support
- Food and nutrition support
- Health maintenance, management, and promotion
- Housing and environment
- Identification support

- Legal assistance
- Medication and medical supplies
- Mental health support
- Provider relationship building
- Reproductive health
- Transportation support
- Patient-specific wildcard (i.e., patients' unique needs that do not fit neatly into any of the other categories)





### Camden Core Model: Goals



#### **Pre- Graduation Goals**

- Medication Reconciliation by Core Team nurses
- Establish relationship with PCP/other providers
- Routinely attends appointments
- Is knowledgeable / better able to identify and work towards goals

#### **Graduation Goal**

- Completion of self-identified goals identified through use of COACH/care-plan cards
- Warm hand-off to PCP and/or partner agencies who can continue to off medical and social support





## Camden Core Model: Goals



#### Post-graduation Goals

- · confidence in navigating medical, behavioral health, and social needs
- Improved quality of life







# Community Experience





# Thank you!

Q+A



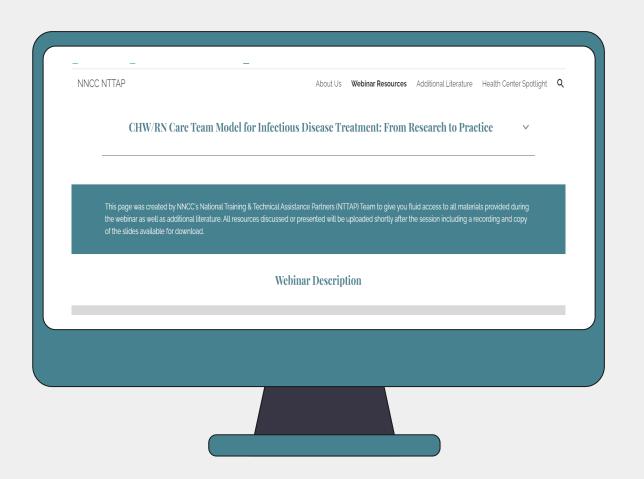




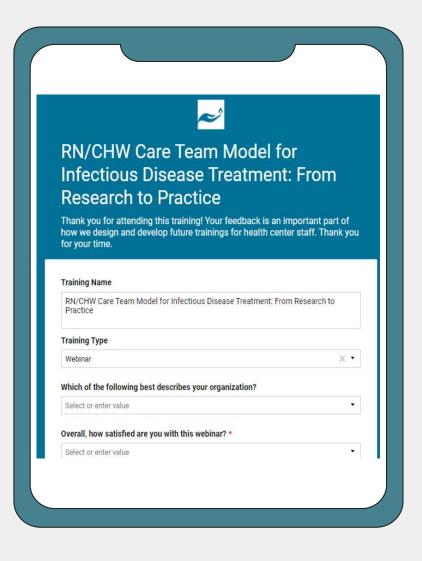


## Google Site

https://sites.google.com/view/rn-chw-careteam/webinar-resources







# Evaluation Survey & CEs



## Thank You!

If you have any further questions or concerns please reach out to Senior Program Manager, Matt Beierschmitt at <a href="mailto:mbeierschmitt@phmc.org">mbeierschmitt@phmc.org</a>.

Please follow us on <u>LinkedIn</u> for updates on future trainings.

