Patient Engagement Learning Series

Nurse Case Management: Strengthening Patient Engagement Across the HCV Care Continuum

Thursday, December 3, 2020 at 2:00 pm ET



Disclaimer

Through the Patient Engagement Learning Series, we intend to create a space where providers, community advocates, and patient representatives can engage thoughtfully on challenging topics surrounding patient care. We commit to providing evidence-based data and research to support all content presented.

We believe that addressing this topic aligns with the aims of the Learning Series and is therefore integral to our discussion. We welcome your feedback to continue guiding our content development.

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National Nurse-Led Care Consortium

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 and public health nursing.

- Policy research and advocacy
- Program development and management
- Technical assistance and support
- Direct, nurse-led healthcare services



Speakers



Laura Starbird, PhD, RN
Assistant Professor in the Department of
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Nursing



Jillian Bird, MSN, RN

Nurse Training Manager

National Nurse-Led Care Consortium



Shelley BastosPatient Representative

Objectives

• Examine key components of nurse case management to strengthen engagement across the HCV care continuum.

 Explore additional strategies to optimize HCV care, including engaging peer networks and offering integrated services.



Panel Discussion



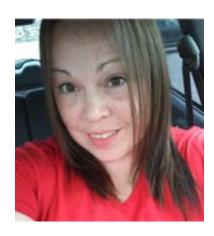
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Pop Up Question

How do your personal relationships or peer networks influence whether you are accessing care?



Pop Up Question

How has care for HCV been impacted during COVID-19?





Nurse Case Management:
Strengthening Patient
Engagement Across the
Hepatitis C Care
Continuum

Laura E. Starbird, PhD, RN Assistant Professor University of Pennsylvania



Disclosures

I have no financial interests or commercial relationships to disclose.



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Collaborators

- Jason Farley, PhD, MPH, ANP-BC
- Mark Sulkowski, MD
- Hae-Ra Han, PhD, RN
- Chakra Budhathoki, PhD
- Nancy Reynolds, PhD, C-NP

Objectives

At the end of this presentation, participant will be able to:



Describe the global impact of viral hepatitis



Identify at least 3 barriers to patient-centered hepatitis C care in the U.S.

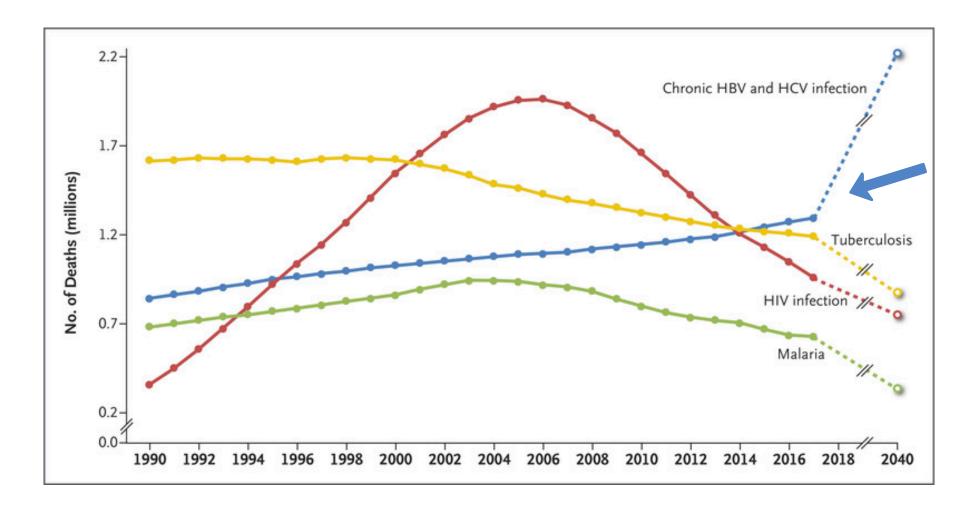


Synthesize how case management can support patients with hepatitis C



Discuss next steps to address ongoing challenges for hepatitis C care in the U.S.

Estimated global deaths due to viral hepatitis, HIV, malaria and TB 1990-2018 (1)





Hepatitis C morbidity in HIV co-infection



- 1 in 4 people with HIV have hepatitis C (2)
- HIV co-infection accelerates hepatitis C-related liver disease (3)
- People co-infected with HIV are less likely to be treated for hepatitis C (4,5)

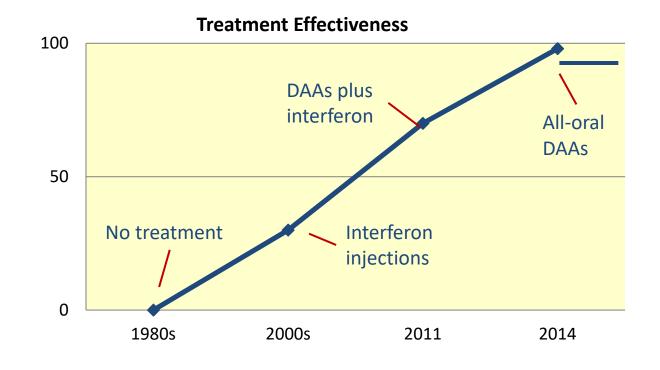
(4) McGowan et al. Hepatology. 2013

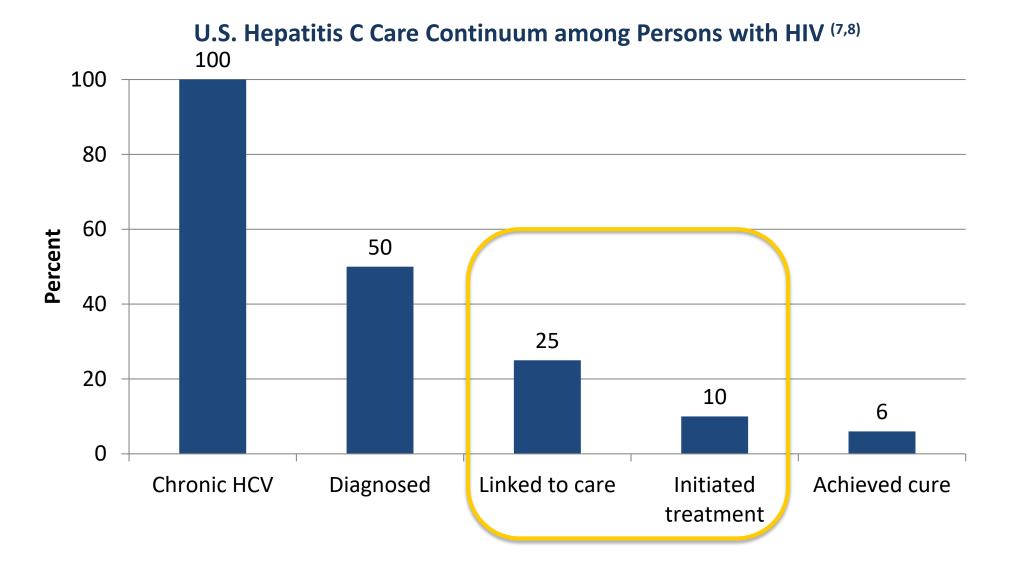
(5) Clark et al. Prefer Adherence. 2012



Hepatitis C can be cured

- All-oral direct acting antivirals (DAAs) introduced in 2014
- Well-tolerated
- 8-24 weeks
- >90% effective
- HCV treatment guidelines:
 HIV co-infected are high priority to treat (6)







Barriers to Hepatitis C Care

- Hepatitis C knowledge (10,12)
- Perceived threat (10,13)
- Competing demands (10,11,12)
- HIV/hepatitis C drug-drug interactions (14,15)

- Provider expertise (13,16)
- Access to specialty care (13,16,17)
- Navigating the healthcare system (16,17)



The Care2Cure Study

- Does nurse case management improve linkage to an HCV-treating provider compared to usual care?
- Does nurse case management decrease time to HCV treatment initiation compared to usual care?
- What patient-level characteristics predict success across the hepatitis C care continuum?



Usual Care

- Co-located HIV and HCV practices
- Nurse case managers and social workers
- Automatic appointment reminders
- CDC hepatitis C fact sheet

Hepatitis C Nurse Case Management

Component

Nurse-Initiated Referral



Strengths-Based Education

Hepatitis C Basics

When a hagenot re-invalid C is almost that harm to be but the time of a longing in the same staff is almost the face of the same staff is almost the same to decrease the same in the same to the same staff is almost the same to the same to

Clinical Coordination for Patient Navigation



- **Description**
- Verify insurance and need for referral
- Request referral from primary care provider
- Confirm referral entrance in Epic
- Handout-guided education on hepatitis C symptoms, transmission, treatment, liver health
- Assessment of strengths and needs related to hepatitis C care
- Set goals for engagement in liver health/hepatitis C care
- Make appt. with viral hepatitis provider per patient's request and needs
- Reschedule as needed

Appointment reminders



- 1-week and 1-day appointment reminders
- Phone, text, or email



Nurse-initiated HIV treatment modification

- Identification of drug-drug interaction based on hepatitis C provider's recommended DAA regimen
- Communication with HIV provider about antiretroviral therapy switch
- Schedule & navigate patient appointment with HIV provider
- Nurse visit for drug-drug interaction education

SINGLE PILL COMBOS	Hepatitis C Medication Options		
Your HIV Medication	Harvoni	Viekira Pak	Sovaldi and Daklinza
Atripla			
123			
Complera			
GSI			
Stribild			
GSI			
Triumeq			
572 711			
Genvoya			
GSI			
OK to take at the sam May need extra monit Should not be taken a	oring	provider	his chart to your HIV to help figure out the dications to cure your hepatitis C

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Hepatitis C Care Continuum Outcomes

Name	Definition	Measure
Referred to care	Referral to Viral Hepatitis Practice entered in Epic	yes/no
Appointment scheduled	At least one appointment at the Viral Hepatitis Practice scheduled	yes/no
Linked to care	Attended at least one appointment at the Viral Hepatitis Practice	yes/no
Prescribed treatment	Prescription for direct acting antivirals entered in medical chart	yes/no
Initiated treatment	Took first dose of direct acting antivirals	yes/no

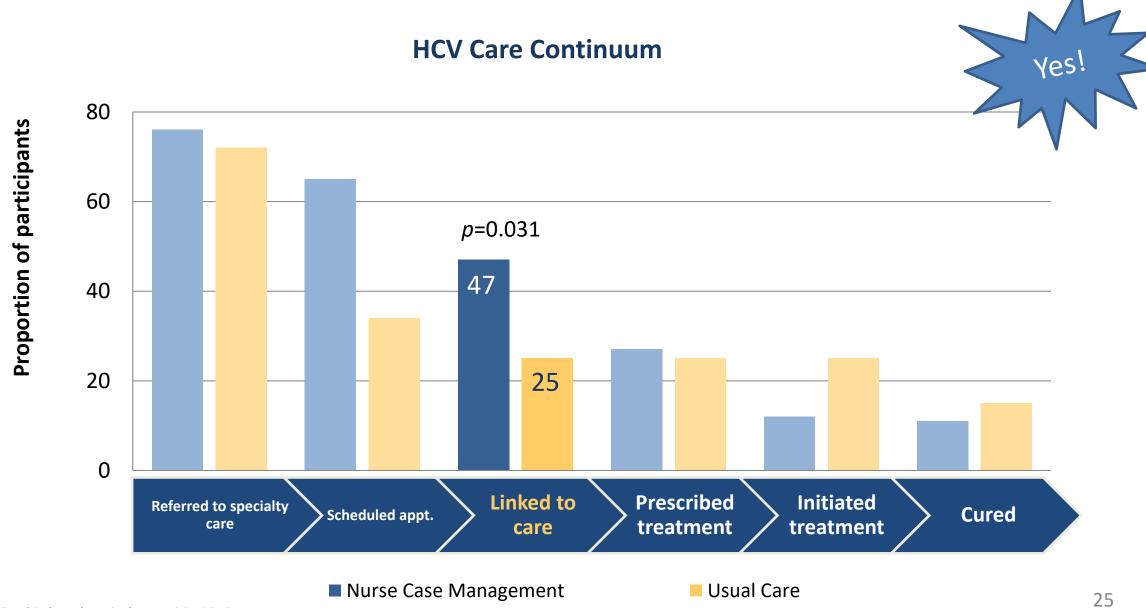




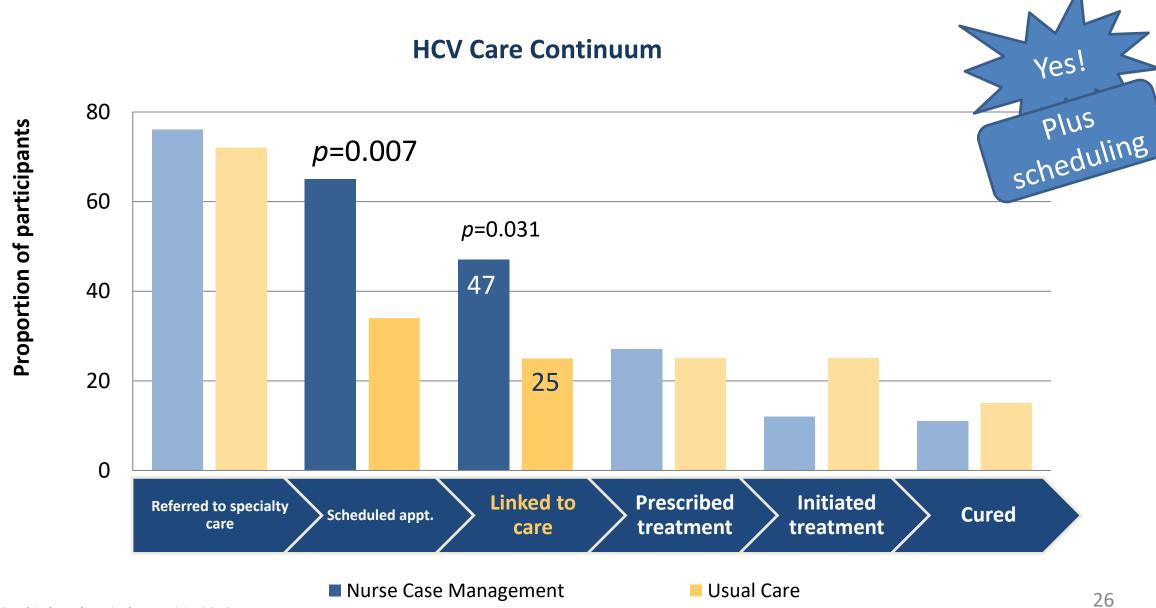
Participant Demographics	Number (%)
Female	26 (38)
Age, mean years (SD)	55 (7.7)
Race/Ethnicity Black/African American White/Caucasian	55 (81) 10 (15)
Education No high school diploma/No GED	17 (49)
Health insurance Medicaid	58 (85)

Participant Health Characteristics	Number (%)
HIV viral load <20 copies/mL (undetectable)	29 (43)
CD4 cell count, median (IQR)	366 (198 – 653)
Any illicit drug use, past 12 months	35 (52)
Injection drug use, past 12 months	16 (24)
Taking medication for opioid use disorder	35 (52)
Alcohol use, past 6 months	28 (41)

Does nurse case management improve linkage to HCV care compared to usual care?



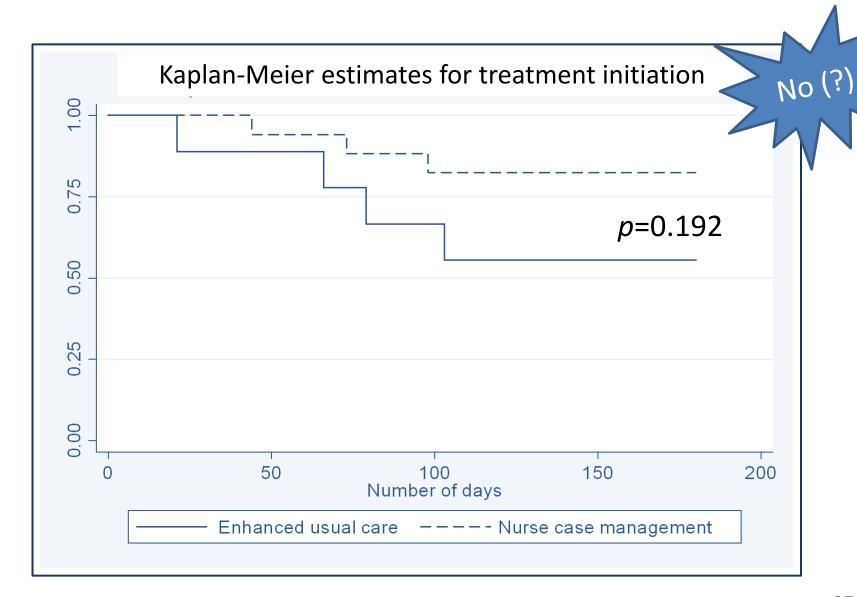
Does nurse case management improve linkage to HCV care compared to usual care?



Does nurse case management decrease time to HCV treatment initiation compared to usual care?

Mean time to treatment initiation:

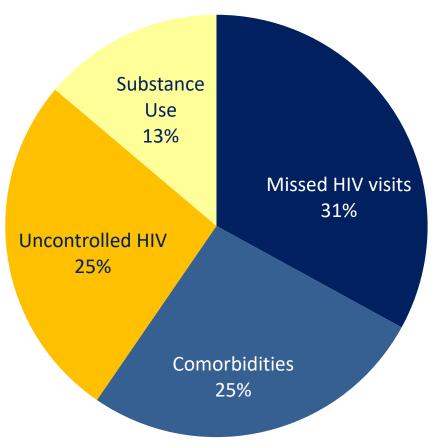
- Nurse case management: 72 days
- Usual care: 98 days



(28) Starbird et al. *J Viral Hepatitis*. 2019



Reasons for non-referral



28



	Adjusted odds ratio*	p value	95% Confidence Interval
Alcohol use	3.792	0.030	1.140 – 12.612

Patients who drank alcohol were 3.8 times more likely to schedule an HCV appointment than patients who did not drink.



^{*}model adjusted for randomization arm, CD4 cell count, alcohol use



	Adjusted odds ratio*	p value	95% Confidence Interval
Alcohol use	3.786	0.016	1.287 – 11.132

^{*}model adjusted for randomization arm and alcohol use

Patients who drank alcohol were 3.8 times more likely to attend an HCV appointment than patients who did not drink.





	Adjusted odds ratio*	p value	95% Confidence Interval
Alcohol use	4.178	0.035	1.105 – 15.803
Know someone who cured hepatitis C	5.238	0.014	1.403 – 19.553
Medication for opioid use disorder	0.248	0.036	0.067 - 0.915

^{*}model adjusted for randomization arm, alcohol use, knowing someone who cured hepatitis C, and MOUD

Patients who drank alcohol were 4.2 times more likely to be prescribed HCV treatment compared to patients who did not drink.





	Adjusted odds ratio*	<i>p</i> value	95% Confidence Interval
Alcohol use	4.178	0.035	1.105 – 15.803
Know someone who cured hepatitis C	5.238	0.014	1.403 – 19.553
Medication for opioid use disorder	0.248	0.036	0.067 – 0.915

^{*}model adjusted for randomization arm, alcohol use, knowing someone who cured hepatitis C, and MOUD

Patients who knew someone who had cured their HCV were 5.2 times more likely to be prescribed HCV treatment compared to patients who did not know anyone cured of HCV.





	Adjusted odds ratio*	p value	95% Confidence Interval
Alcohol use	4.178	0.035	1.105 – 15.803
Know someone who cured hepatitis C	5.238	0.014	1.403 – 19.553
Medication for opioid use disorder	0.248	0.036	0.067 - 0.915

^{*}model adjusted for randomization arm, alcohol use, knowing someone who cured hepatitis C, and MOUD

Patients taking medication for opioid use disorder (MOUD) were 75% less likely to be prescribed HCV treatment compared to patients who did not take MOUD.



	Adjusted odds ratio	p value	95% Confidence Interval
Know someone who cured hepatitis C	8.049	0.036	1.147 – 56.489

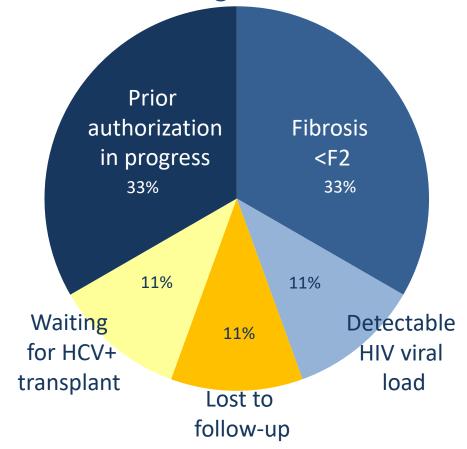
Patients who knew someone who had cured their HCV were 8 times more likely to start HCV treatment compared to patients who did not know anyone cured of HCV.



^{*}model adjusted for randomization arm, knowing someone who cured hepatitis C, and financial strain



Barriers to initiating treatment



Summary of Findings

- Nurse case management is an effective strategy to link adults co-infected with HIV to hepatitis C care
- Despite linking to care, few participants initiated hepatitis C treatment during the six-month follow-up
 - No improvement in time to treatment initiation
- Facilitators to succeeding in hepatitis C care continuum outcomes included alcohol use and knowing someone who had cured hepatitis C
- Taking medication for opioid use disorder was a significant barrier to being prescribed hepatitis C treatment

Implications for Research & Practice

Case management support should span the entire care continuum

Examine the role of HIV case managers in hepatitis C care

• Nurse case management vs. community health workers or peer navigators

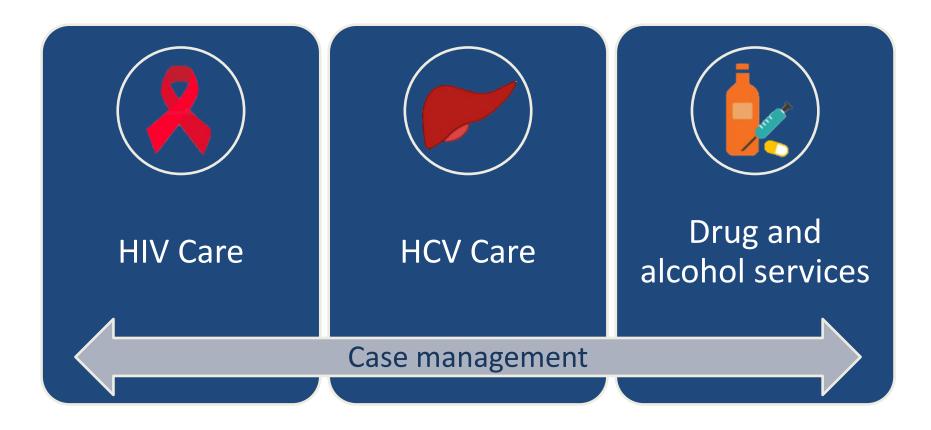
Capitalize on social networks (24,25)

Enhance treatment pathways for people who drink alcohol



Implications for Research & Practice

Integrated treatment settings



Implications for Policy

- Insurance treatment guidelines should be evidence-based
 - https://stateofhepc.org/report/



 Funding allocation for hepatitis C care in non-HIV clinics



Pop Up Question

In what ways can providers support patients to initiate HCV treatment?



Discussion





Thank you

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