DISCLOSURES

This activity is jointly provided by Northwest Portland Area Indian Health Board and Cardea

Cardea Services is approved as a provider of continuing nursing education by Montana Nurses Association, an accredited approver with distinction by the American Nurses Credentialing Center's Commission on Accreditation.

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Institute for Medical Quality/California Medical Association (IMQ/CMA) through the joint providership of Cardea and Northwest Portland Area Indian Health Board. Cardea is accredited by the IMQ/CMA to provide continuing medical education for physicians.

Cardea designates this live web-based training for a maximum of 1 AMA PRA Category 1 Credit(s)[™]. Physicians should claim credit commensurate with the extent of their participation in the activity.





DISCLOSURES

COMPLETING THIS ACTIVITY

Upon successful completion of this activity 1 contact hour will be awarded Successful completion of this continuing education activity includes the following:

- Attending the entire CE activity;
- Completing the online evaluation;
- Submitting an online CE request.

Your certificate will be sent via email If you have any questions about this CE activity, contact Michelle Daugherty at <u>mdaugherty@cardeaservices.org</u> or (206) 447-9538



CONFLICT OF INTEREST

Dr. Jorge Mera is director of a program partially funded by Gilead.

None of the other planners or presenters of this CE activity have any relevant financial relationships with any commercial entities pertaining to this activity.



Acknowledgement

This presentation is funded in part by:

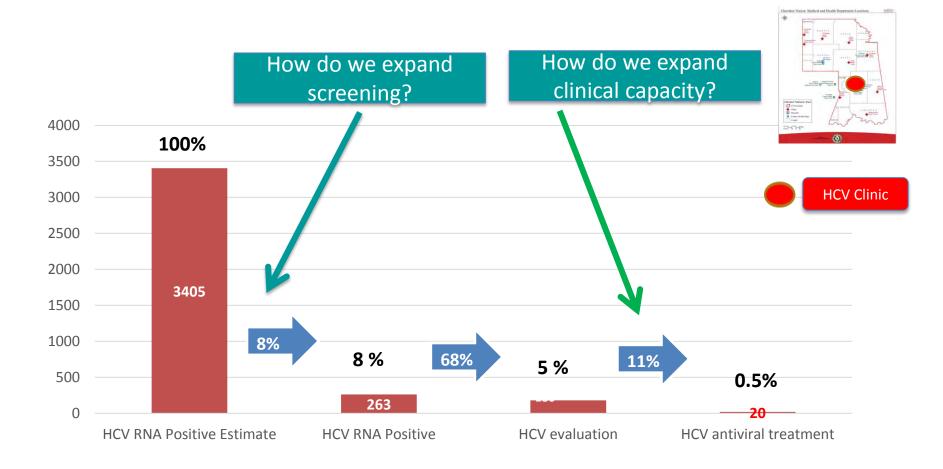
The Indian Health Service HIV Program and The Secretary's Minority AIDS Initiative Fund



Cherokee Nation Health Services HCV Elimination Program

Jorge Mera, MD, FACP

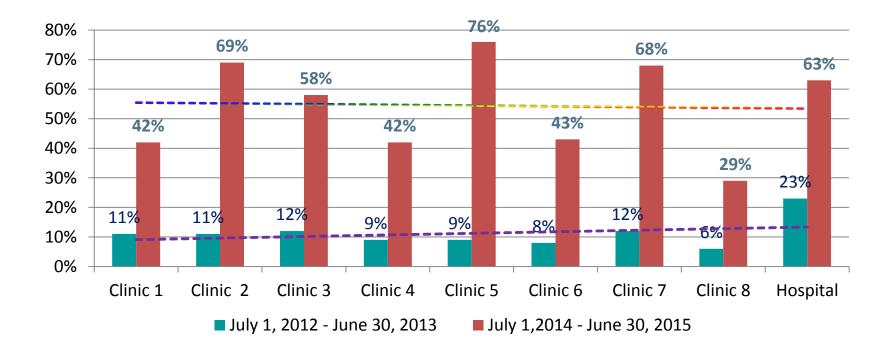
CNHS HCV Cascade of Care 2013*



*Preliminary data Cherokee Nation Health Services 2013

Impact of EHR reminder on HCV birth cohort screening rates

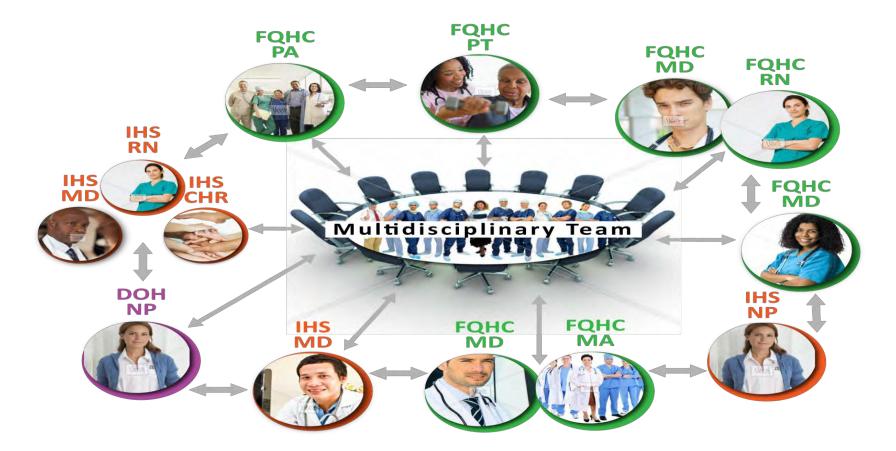
Percentage of baby boomers who attended a primary care clinic and were screened for HCV



Cherokee Nation Health Services 2012-2015

Extended Community Health Outcomes Project

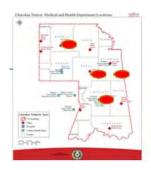
The ECHO Model Improves CAPACITY and ACCESSS simultaneously



FQHC = Federally Qualified Health Centers ; IHS = Indian Health Service; DOH = Department of Health.; PT = physical therapist; PA = physician assistant; RN = registered nurse; CHR = community health representative; NP = nurse practitioner; MA = medical assistant.

How did we get from this point.....

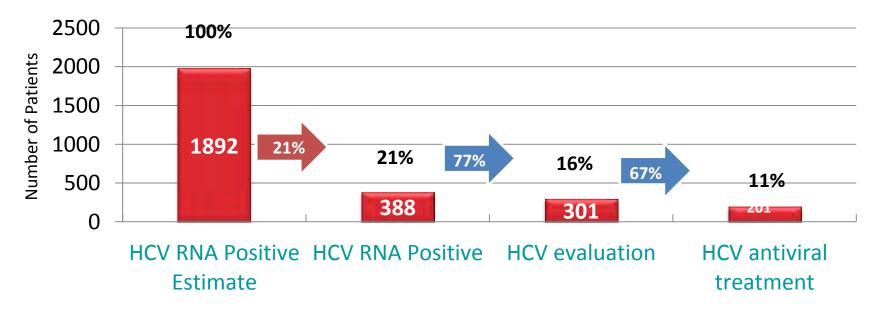




HCV Clinics

CNHS HCV Cascade of Care: July 2015

Number of Patients



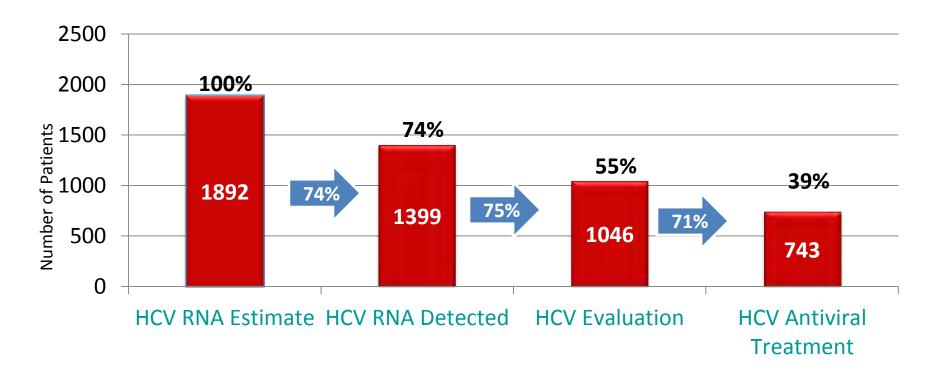
Adapted from: Mera J, Vellozzi C, Hariri S, et al. Identification and Clinical Management of Persons with Chronic Hepatitis C Virus Infection — Cherokee Nation, 2012–2015. MMWR Morb Mortal Wkly Rep 2016;65:461–466.







CNHS HCV Cascade of Care: December 2017



Cherokee Nation Health Services 2018

CDC:"Do you think the CNHS can pursue an HCV elimination goal?"

HEPATOLOGY

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Viral Hepatitis

Hepatitis C virus treatment for prevention among people who inject drugs: Modeling treatment scale-up in the age of direct-acting antivirals

Natasha K. Martin 🖾, Peter Vickerman, Jason Grebely, Margaret Hellard, Sharon J. Hutchinson, Viviane D. Lima, Graham R. Foster, John F. Dillon, David J. Goldberg, Gregory J. Dore, Matthew Hickman



View issue TOC Volume 58, Issue 5 November 2013 Pages 1598–1609

Elimination of Hepatitis C Virus Infection Among People Who Inject Drugs Through Treatment as Prevention: Feasibility and Future Requirements @

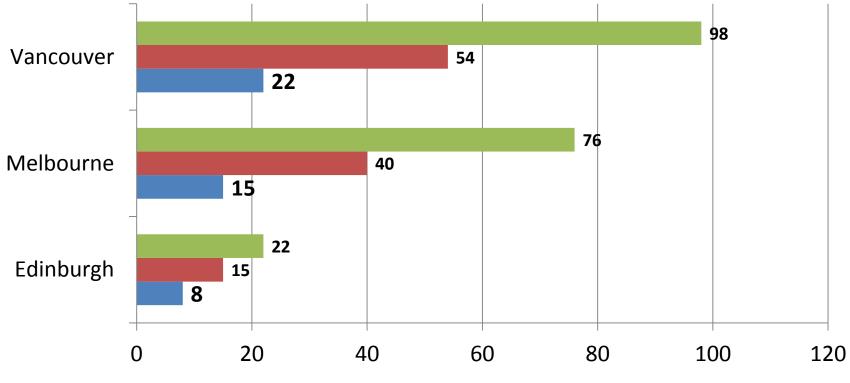
Jason Grebely, Gail V. Matthews, Andrew R. Lloyd, Gregory J. Dore

Clinical Infectious Diseases, Volume 57, Issue 7, 1 October 2013, Pages 1014–1020,



Impact of Treatment as Prevention on HCV Prevalence

(Mathematical Modeling)

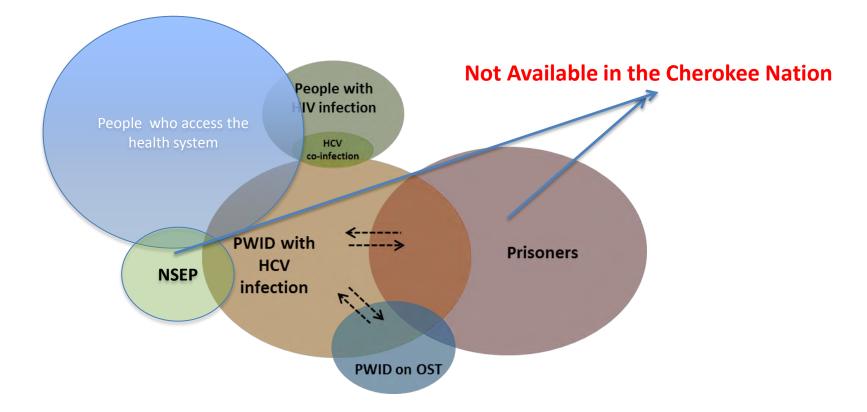


Number of PWID NTT/1000 PWID/year to reduce HCV Prevalence by 75 % in 15 years
Number of PWID NTT/1000 PWID/year to reduce HCV prevalence by 50% in 15 years
Number of PWID NTT/1000 PWID/year to reduce HCV prevalence by 25 % in 15 years

NTT: Number Needed To Treat. PWID: People Who Inject Drugs

Adapted from NK Martin, et al. Hepatology 2013:58(5):1598-1609

Where Can We Find and Treat HCV (+) PWID?



Key Concepts to Guide HCV Elimination

- Treat the HCV infected population to decrease the burden of liver disease (Decrease Prevalence)
 - Mainly target birth cohort (patients born between 1945-1965)

Prevent Transmission (Decrease Incidence and prevalence)

> Mainly target the younger population who are PWID

- Treatment as prevention (HCV + PWID, HIV/HCV coinfection)
- Establish or expand MAT
- Establish or expand needle and syringe services

CNHS HCV Elimination Program 8/2015 – 10/2018

- 1. Secure political commitment for HCV elimination
- 2. Expand the HCV screening program
- 3. Establish robust programs to link to care, treat, and cure patients
- **4. Reduce the incidence of new HCV infections**

Goal #1: Secure Political Commitment

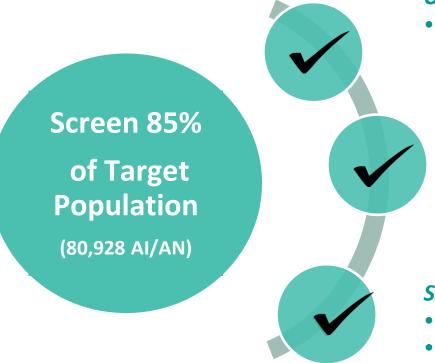
HCV Awareness Day October 31,2015

HCV Elimination Awareness Day October 31, 2017



"As Native people and as Cherokee Nation citizens, we must keep striving to eliminate hepatitis C from our population." Chief Bill John Baker

Goal #2: Expand Screening Program



Universal Screening

• Ages 20-69

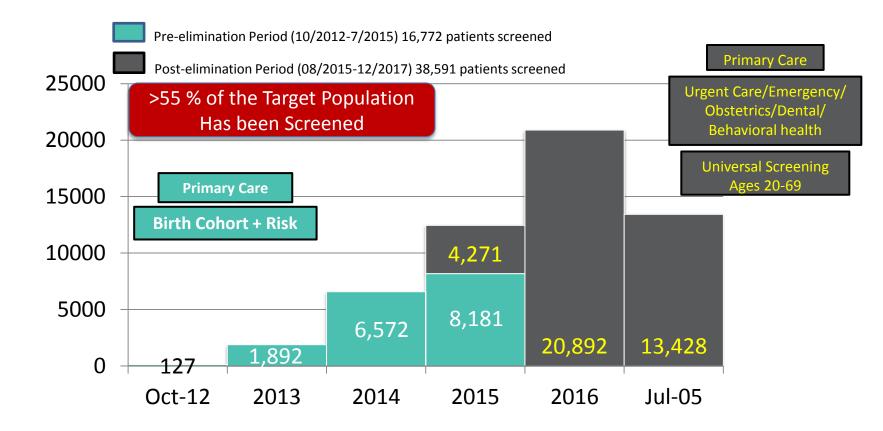
Non-Traditional Screening Sites

- Emergency Department
- Urgent Care
- Dental Clinics
- Behavioral Health
- OBGYN

Screening Modalities

- EHR Reminders
- Point of care antibody test
- Lab Triggered screening

HCV Screening in the CNHS: 10/2012 - 12/2017

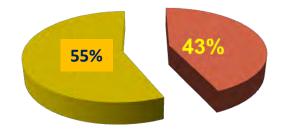


HCV Prevalence, Gender and Age Distribution*: 8/2015 – 12/2017

Prevalence

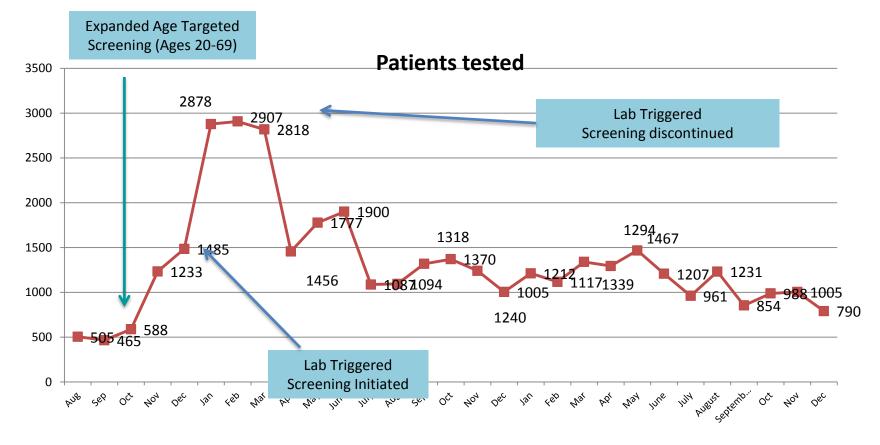
Age Distribution of HCV Ab (+)

- > 38,591 patients screened
- > 1,328 HCV antibody positive
 - > Overall Prevalence ~ 3.4%
 - > Male 4.5%
 - > Female 2.7%
 - Baby boomers
 - > 3.9% (12,540)
 - Younger than Baby Boomers
 - > 3.2% (18,319)



Baby BoomersYounger than Baby Boomers

CNHS: HCV Screening* 8/2015 – 12/2017

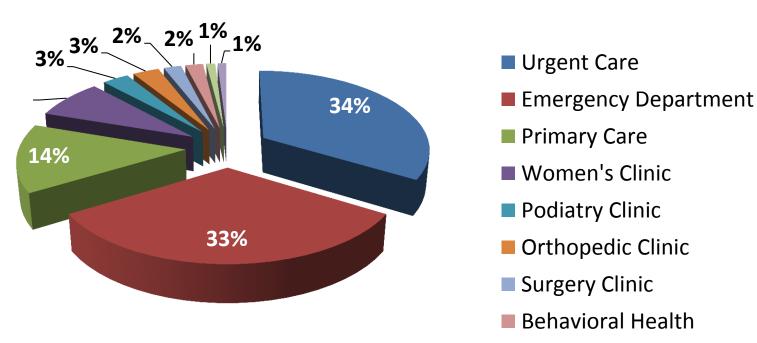


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*preliminary data

Lab Triggered Screening: Screening location

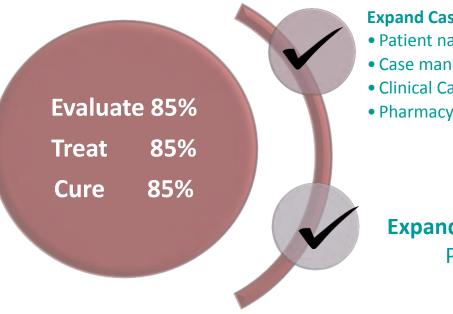
97 patients with new positive HCV antibody screen at WW Hastings Hospital



67% were detected in the Urgent Care/Emergency Department

Cherokee Nation Health Services 2018

Goal # 3: Link to Care, Treat, and Cure



Expand Case Management Capacity

- Patient navigator
- Case manager for antiviral procurement
- Clinical Case Manager
- Pharmacy managed follow up

Expand Clinical Capacity ProjectECHO

Patient and Medical Provider Support

Before HCV Evaluation

- Patient Navigator contacts patient to make sure and appointment is secured
- If the patient cant be reached a *Public Health Nurse* is sent to the patients home

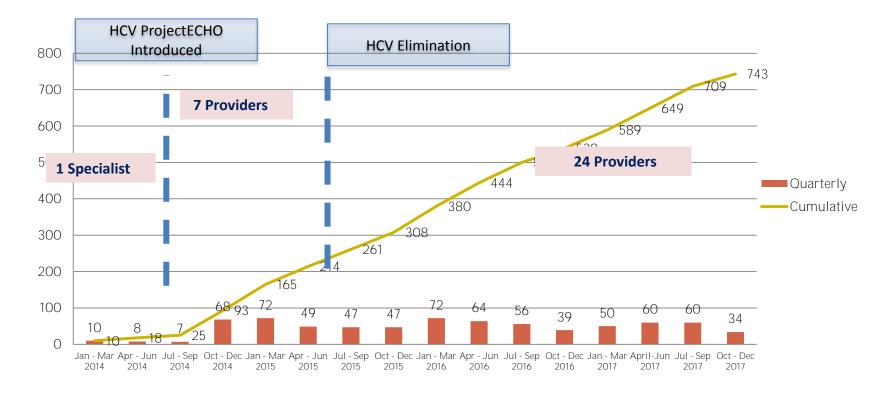
During Evaluation

- Most patients are evaluated by a *drug and alcohol counselor*,
- If substance use disorder is detected, referral to a behavioral health specialist

After Treatment Initiated

Clinical case manager, pharmacist and a community health worker will assist with adherence follow-up and treatment (including DOT)

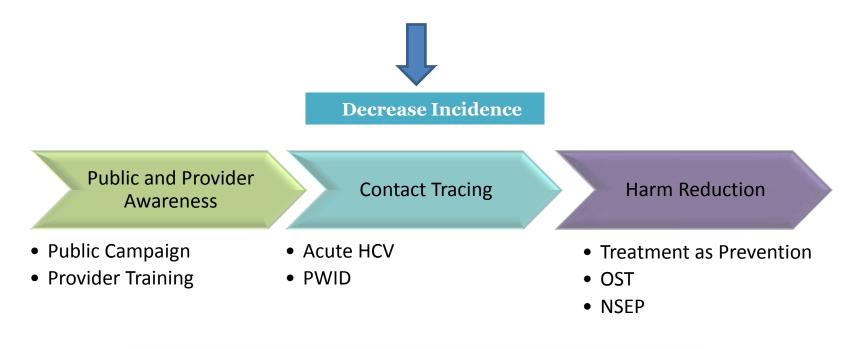
CNHS HCV Program: Clinical Capacity Expansion: 1/2014 – 12/2017



Providers included 1 Specialist, 8 Physicians, 8 Pharmacists and 7 Nurse Practitioners

Cherokee Nation Health Services 2018

Goal #4: Reduce the incidence of new HCV infections



CNHS HCV Elimination Program Strategies and Goals, 8/2015-10/2018

CNHS: Cherokee Nation Health Services. PWID: People Who Inject Drugs, OST: Opioid Substitution Therapy, NSEP: Needle and Syringe Exchange Program

Moving Forward

Increase public awareness and intensify HCV screening in "hot spots" and out in the community

Improve engagement in care of PWID

- Expand Medication Assisted Treatment
- Advocate for needle and syringe service
- Identify networks of transmission trough the Global Health Outbreak Surveillance Technology (GHOST) program
- > Treat, treat and treat patients with HCV!!!!!!!
- Define measures to monitor program outcomes
 - > 90 % reduction in incidence by the year 2030
 - ➢ 65 % reduction in mortality by the year 2030