HEPATITIS C SCREENING AND TREATMENT

Brian McMahon, MD Lisa Townshend-Bulson, RN, MSN, FNP-C ANTHC Liver Disease & Hepatitis Program

DISCLOSURES:

Brian McMahon – None



Lisa Townshend-Bulson - Principal investigator on an ANTHC sponsored hepatitis C treatment study which was funded in part by Gilead Sciences.

OBJECTIVES

- To understand why screening for hepatitis C is important
- To recognize ways to screen for hepatitis C
- To identify hepatitis C treatment options available
- To understand hepatitis C treatment in special populations
- To identify ways to overcome current challenges to hepatitis C cascade
- To discuss what it will take to achieve HCV elimination



Epidemiology

Hepatitis C is the most common bloodborne infection in the United States. These statistics show why there is national concern. > 50,000 NEW CASES

MORE THAN 50,000 ESTIMATED NEW CASES in the U.S. each year since 2018

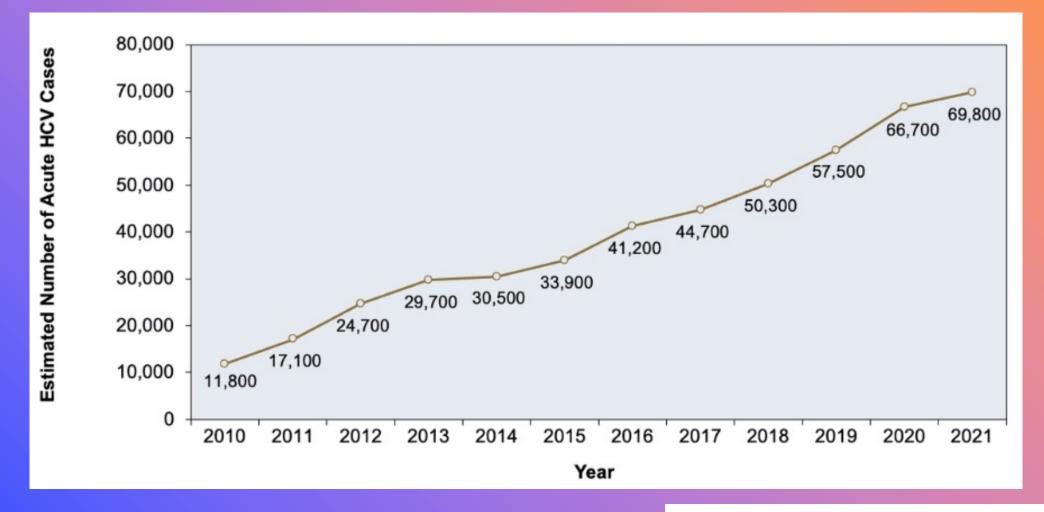
4 OUT OF 10 PEOPLE who have hepatitis C don't know they have it

3-5 MILLION PEOPLE live with active hepatitis C in the U.S.



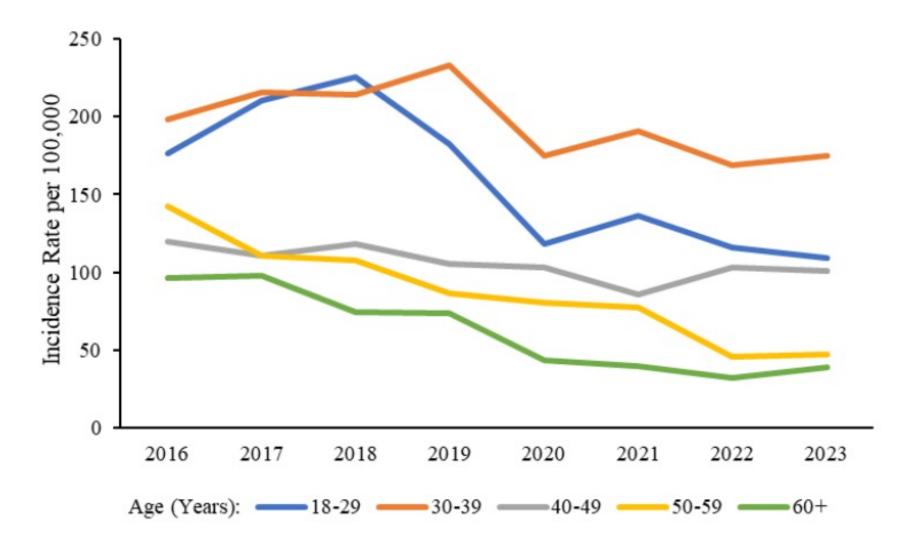
20-39 YEAR OLDS have the highest rate of new hepatitis C cases

ACUTE CASES OF HCV IN U.S.



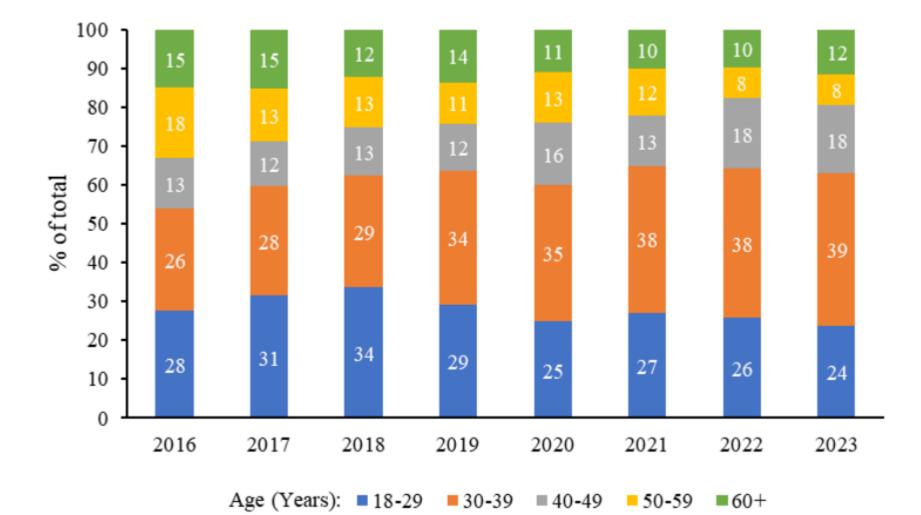
https://www.cdc.gov/hepatitis/statistics/2021surveillance/index.htm

ALASKA ANNUAL RATES OF NEWLY REPORTED CHRONIC HEPATITIS C CASES PER 100,000 ADULTS, BY AGE GROUP, 2016-2023



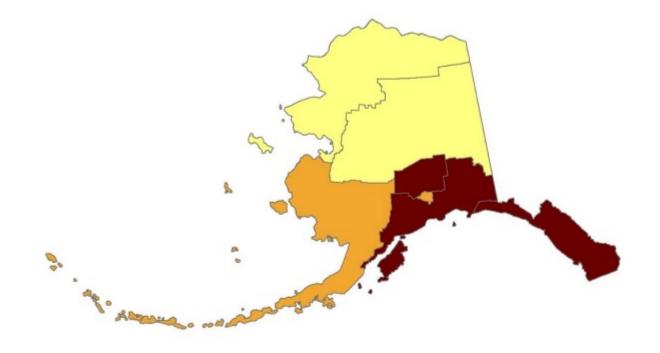
https://epi.alaska. gov/bulletins/docs /rr2024_02.pdf

ALASKA PROPORTION OF NEWLY REPORTED CHRONIC HEPATITIS C CASES AMONG ADULTS AGE \geq 18Y, BY AGE GROUP AND YEAR

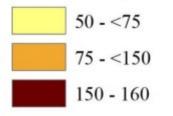


https://epi.alaska.gov/bulletins/docs/rr2024_02.pdf

Figure 3. Average Age-Standardized Rate of Newly Reported Chronic Hepatitis C Cases per 100,000 Adults Aged ≥18 years, by Region — Alaska, 2016–2023



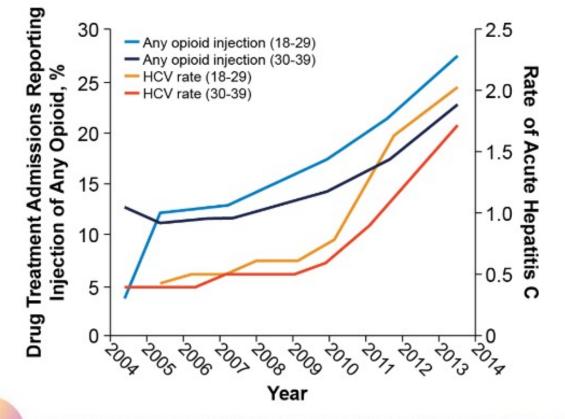
Chronic hepatitis C rate per 100,000 adults



https://epi.alaska.gov/bulletins/ docs/rr2024_02.pdf

Increase in Hepatitis C Infections Linked to Worsening Opioid Crisis¹

Hepatitis C and Opioid Injection Rose Dramatically in Younger Americans From 2004-2014



Among people ages 18-29, admission for injection opioid use increased by 622%

HCV incidence increased by 400% in the same cohort

As many as 1 in 2 patients have incomplete testing²

~7% of people who use drugs have received Tx

Adult Screening



AASLD/IDSA Guidance: www.hcvguidelines.org

SOURCES: CDC Recommendations for Hepatitis C Screening, MMWR, April 2020 CDC Vital Signs, April 2020

AASLD/IDSA recommends that PWID, men with HIV who have condomless sex with men, and MSM who are on HIV PrEP are screened annually

Different Ways to Test for Hepatitis C



Fingerstick HCV Antibody Test (aka Oraquick HCV)

- Results in 20-40 minutes
- Will tell you if HCV antibody is positive (exposure to hepatitis C)
- Must be followed up with HCV RNA venipuncture blood draw to confirm active (current) hepatitis C infection



Fingerstick HCV RNA Test New: Xpert HCV Viral Load

- Results in < 60 minutes
- Can test adults age 22y+
- Cannot use for monitoring during treatment or SVR testing



Venipuncture blood draw for HCV Antibody (reflexed to HCV RNA if positive)

- Blood is sent to lab for testing
- Reflexed test means HCV RNA test will be done if HCV antibody test is positive
- Results may take 7-10 days

CEPHEID XPERT® HCV VIRAL LOAD TESTING



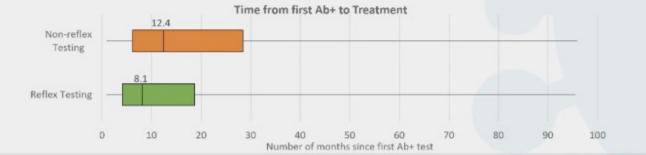


CLIA waived POC test Positive predictive value 93.4% Negative predictive value 99.8% Can collect in tubes and run within 4 hrs Approved for ages 22y+ Not approved in pregnancy

11.5W x 18"H x 16" D Weighs about 40 lbs.

Association of Reflex Testing and Receipt of HCV Treatment, 2014-2021

- Received HCV treatment
 - 30% among persons having reflex HCV RNA testing
 - 8% among persons for whom HCV Ab and RNA testing were ordered separately
- Median time from first HCV Ab+ test to treatment
 - 8.1 mos. median, 14.5 mos. mean among persons having reflex HCV RNA
 - 12.4 mos. median, 19.9 mos. mean HCV Ab and RNA testing ordered separately



*Percent treated for individuals for whom Ab and RNA testing were ordered separately may be underestimated due to inclusion of those who may not have a confirmed RNA+ test result. Reflex testing (HCV Antibody with reflex to RNA test) was identified by matching the test date (date the specimen was drawn) of the Antibody test with that of the RNA test. Reflex testing analyses are only available with data from one large US national laboratory.



Receipt of treatment was determined based on a viral load decline of at least 1.2 × log10 units since the first positive HCV RNA test, indicating that treatment was initiated in the immediate period prior to the decline. Time to treatment analysis was limited to individuals with an Ab+ test at least 28 days prior to the viral load decline.

Hepatitis C Care Cascade and Progress Toward Elimination in the United States, 2021, Ward et al; Global Hepatitis Summit 2023 Slide used with permission.

NEW PEDIATRIC SCREENING RECOMMENDATION

Perinatal hepatitis C is increasing

Early testing and intervention can save lives





CDC recommends:

SCREENING patients for hepatitis C during each pregnancy TESTING all babies exposed during pregnancy with an HCV RNA at age 2-6 months MANAGING infants with an HCV RNA+ test result alongside a provider with pediatric hepatitis C expertise

> bit.ly/rr72041a1 November 3, 2023

MMWR

CDC, MMWR, 11/3/23

WOMEN ARE AT HIGHER RISK FOR HCV TRANSMISSION

Women who inject drugs have been shown to have higher incidence of HIV and higher rate of injection-related risk behaviors than men who inject drugs¹

Higher rates of equipment and syringe sharing in women than men¹ More women using injection equipment after their male partners¹ More women injected by others¹

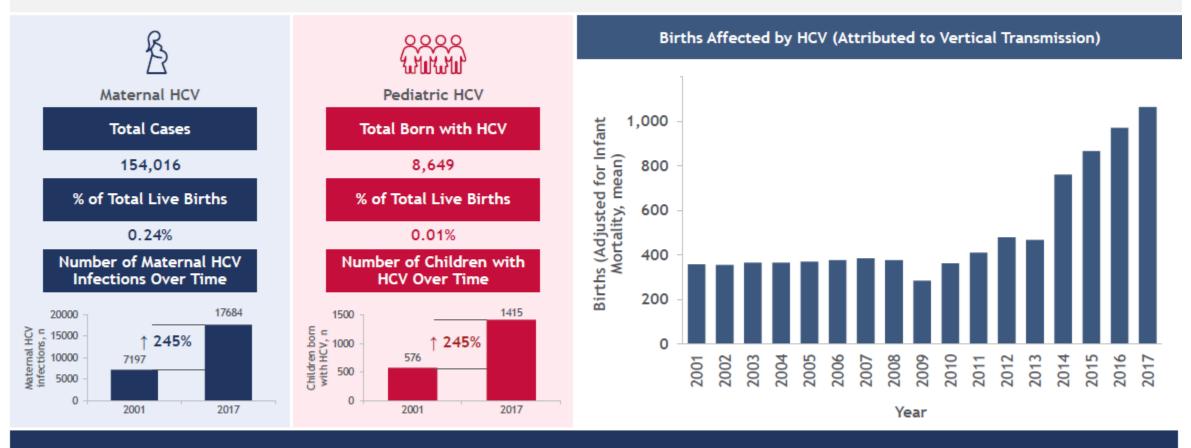
More likely than men to have sex partners who inject drugs² Overlapping sexual and injection partnerships leads to increased injection risk²

Female PWID face stigma; less likely to participate in harm reduction services¹

¹ Esmaeili A, et al. J Viral Hepat. 2017;24(2): 117-127. <u>https://doi.org/10.1111/jvh.12628</u> ² Evans J, et al. J Urban Health. 2003;80(1):137-146. <u>https://doi.org/10.1093/jurban/jtg137</u>

Prevalence of HCV in Children and Adolescents in the United States

Statistical model using prevalence rates among women, given the assumption that most HCV cases in children are vertically transmitted (2001-2017)



The number of HCV-infected women of childbearing age is increasing, resulting in an increase in the number of infants born with HCV infection

Rahal, H., Boutros, S., Farhat, M., Kullar, R., Rahal, K., & Saab, S. (2020). Estimating paediatric hepatitis C prevalence in the United States. *Journal of Viral Hepatitis*, 27(12), 1455–1461. https://doi.org/10.1111/jvh.13377

HEPATITIS C TREATMENT



HEPATITIS C TREATMENT EFFICACY

GLOBAL DATA

AN/AI Treatment in Alaska



In pivotal clinical trials

98% overall cure rate

in GT 1-6 TN/TE NC/CC adult patients (n = 1,015/1,035; ASTRAL-1, -2, -3 studies)

Real-world integrated analysis

99% overall cure rate

in effectiveness population in GT 1-6 TN/TE NC/CC patients

(n = 5,141/5,196; pooled analysis of 12 clinical cohorts and

studies in Canada, Europe, and the USA, PP)

Glecaprevir/Pibrentasvir

Overall treatment-naïve efficacy Proven 8-week efficacy in treatment-naïve patients without cirrhosis or with compensated cirrhosis

98% cure rate

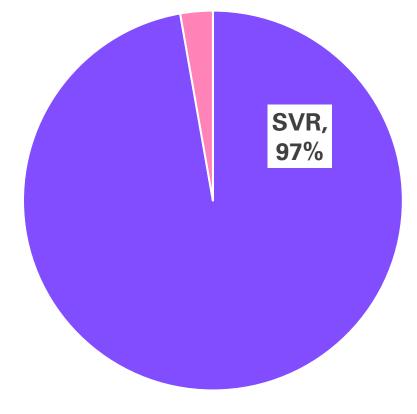
(SVR12) based on integrated pooled analysis of GT 1-6 TN, NC, and CC patients across 8 clinical trials that included US study locations (n = 1,218/1,248, ITT)

8-week real-world evidence Results from two TRIO Health Network studies

99% cure rate

in per protocol population

In GT 1-4 and 6, TN, NC (n = 537/540) and TN, CC (n = 70/71) patients treated for 8 weeks



1. Gilead Sciences Canada, Inc. EPCLUSA product monograph. Date of revision: Aug. 8, 2022; 2. Mangia A, et al . Liver Int. 2020;40:1841-52;

3. AbbVie Corporation. MAVIRET product monograph. Date of revision: Apr. 7, 2022; 4. Zuckerman E, et al. Clin Gastroenterol Hepatol. 2020;18:2544-53;

5. Curry MP, et al. GastroHep. 2020;2:84-71; 6. Flamm SL, et al. Adv Ther. 2020;37:2267-74.

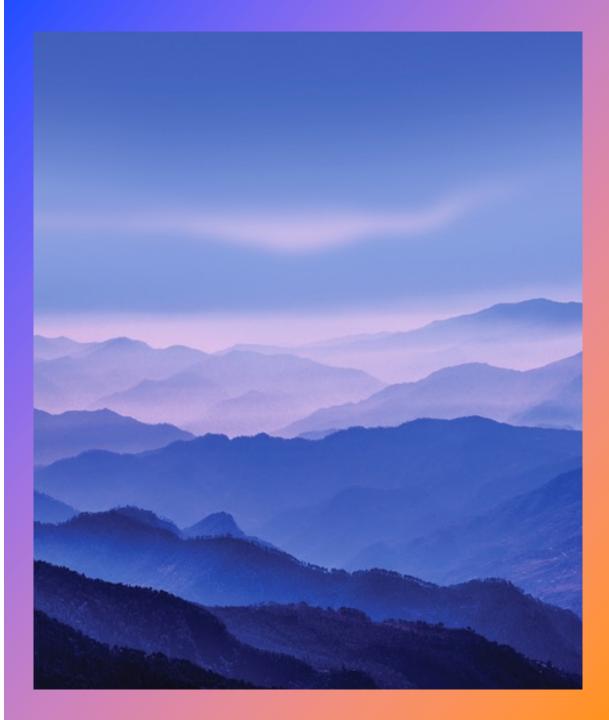
In 1266 ATHS patients who were tested for SVR

SIMPLER HCV^VSIMPLIFIED TREATMENT



SIMPLIFIED TREATMENT – 3 EASY STEPS

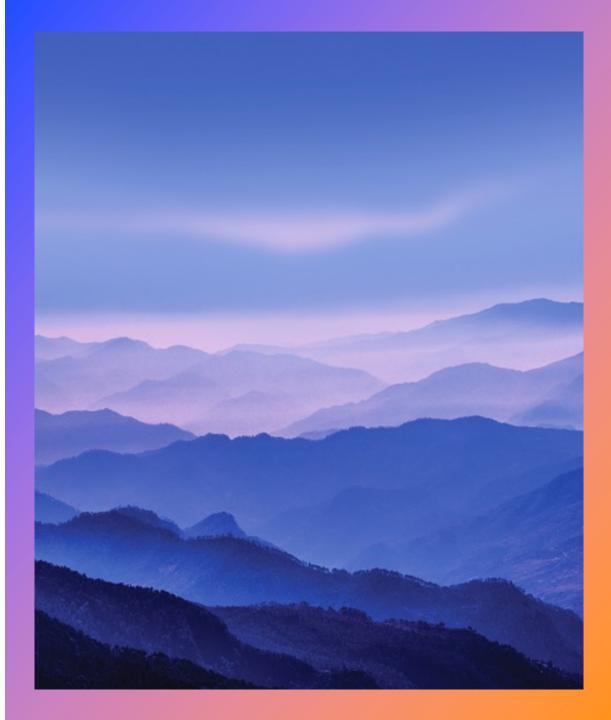
- 1. Check FIB-4 and assess for cirrhosis
- 2. Pre-Treatment Labs/Assessment
- 3. Write Prescription/Start Treatment



www.hcvguidelines.org

SIMPLIFIED TREATMENT – 3 EASY STEPS

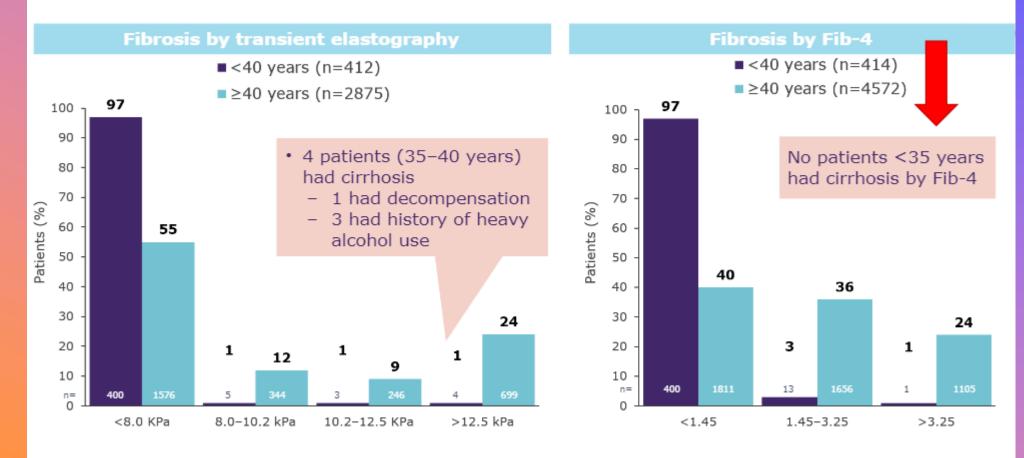
- 1. Pre-Treatment Labs/Assessment
- 2. Check FIB-4 and assess for cirrhosis
- 3. Write Prescription/Start Treatment

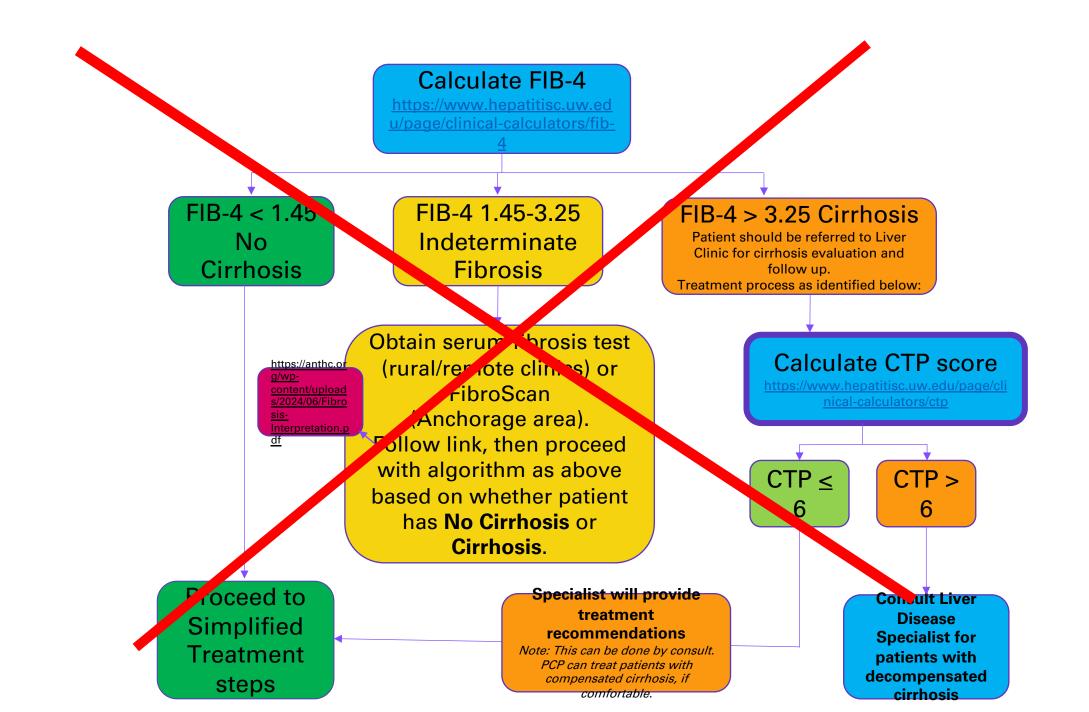


www.hcvguidelines.org

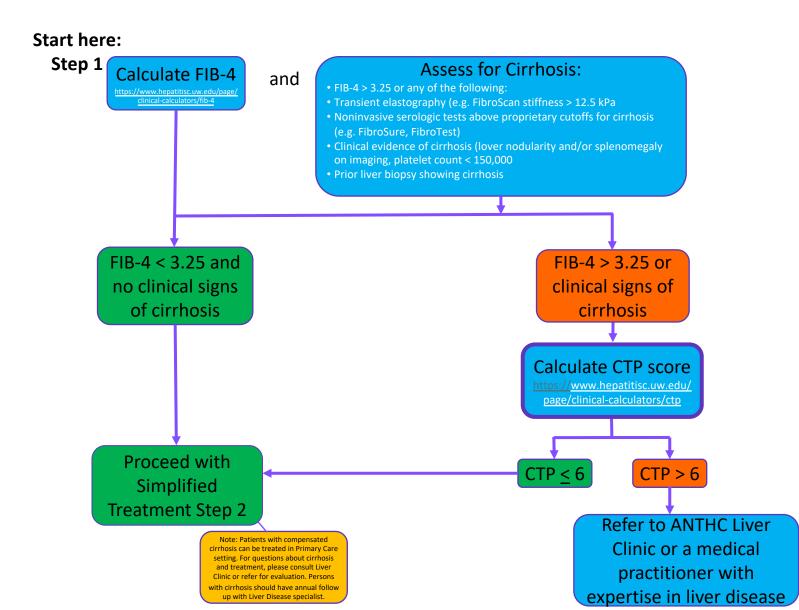
WHAT SIMPLIFIED TREATMENT DOES

Transition Away From A "Liver" Disease





HCV Simplified Treatment For Alaska Tribal Health System

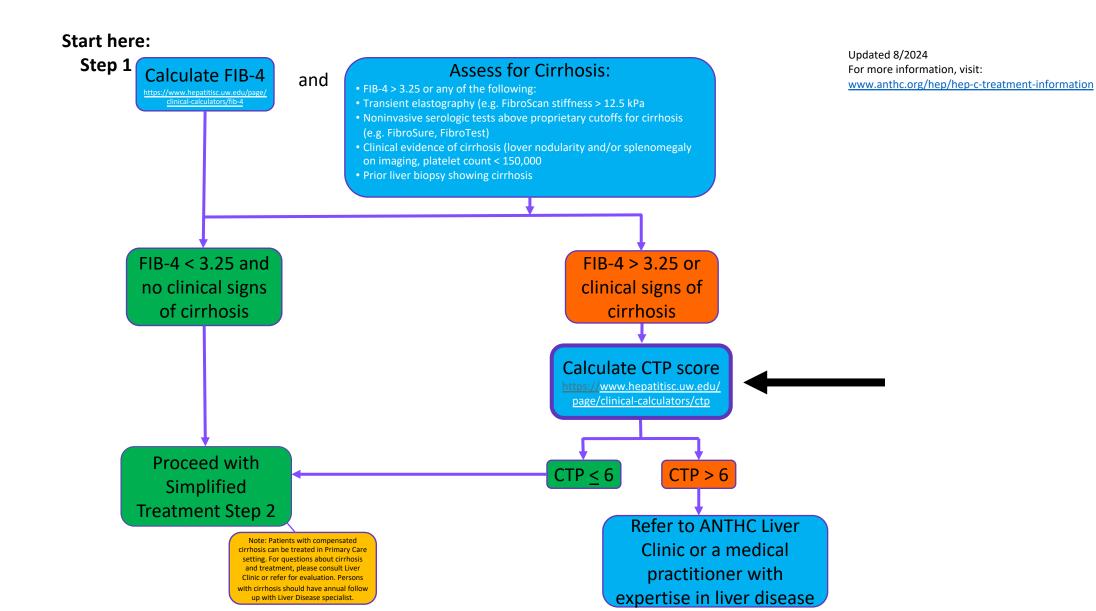


Updated 8/2024 For more information, visit: www.anthc.org/hep/hep-c-treatment-information FIB-4 > 3.25 or any of the following:

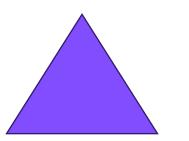
- Transient elastography (e.g. FibroScan stiffness > 12.5 kPa
- Noninvasive serologic tests above proprietary cutoffs for cirrhosis (e.g. FibroSure, FibroTest)
- Clinical evidence of cirrhosis (liver nodularity and/or splenomegaly on imaging), platelet count < 150,000
- Prior liver biopsy showing cirrhosis
- Physical exam icterus, jaundice, spider angioma, ascites, asteryxis

ASSESS FOR CIRRHOSIS

HCV Simplified Treatment For Alaska Tribal Health System

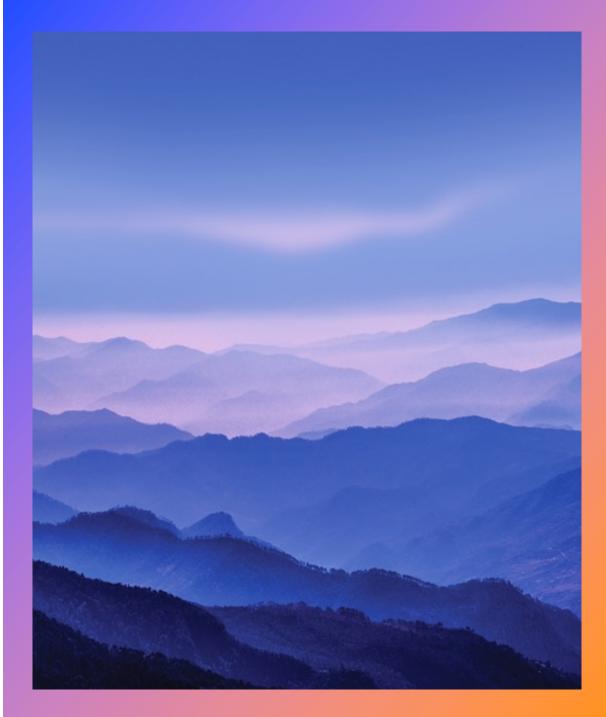


Step 2. Complete Pretreatment Labs & Assessment:							
Lab	abs Before beginning treatment:		Pregnancy Test and counseling about pregnancy risk of HCV medication should				
			be offered to women of childbearing age.				
Acceptable within 6 mos if no cirrhosis or			CBC				
3 months if cirrhosis:			Hepatic function panel and eGFR				
			PT/INR (only needed if cirrhosis)				
Acceptable within 6 months:			AFP (recommended for Alaska Native				
			patients with HCV due to higher rates of				
			liver cancer)				
	Anytime prior:		Quantitative HCV RNA				
			HIV antigen/antibody				
			Hepatitis B surface antigen ¹				
			Syphilis screening				
			Genotype (only needed if patient has				
			cirrhosis and planning to treat with				
			Sofobuvir/velpatasvir (Epclusa)				
	Assess for drug-drug interactions at:	ions at: www.hep-druginteractions.org					
	Persons with ongoing substance use issues SHOULD be treated for hepatitis C. Do not						
	delay. You can use Audit-C & PHQ-9 or other mental health screening tools to determine						
	if patient would benefit from referral to Behavioral Health/Substance Use Treatment						
	Program; however, there is no HCV treatment contraindication if someone is drinking						
	alcohol or using substances.						
	allochor of doing outofulloool						



IS PATIENT READY FOR TREATMENT?

ARE YOU READY??



www.hep-druginteractions.org

Common ones (NOT ALL INCLUSIVE):

Glecaprevir/pibrentasvir (Mavyret) specific – Ethinyl estradiol in doses >20mcg (ALT elevation)

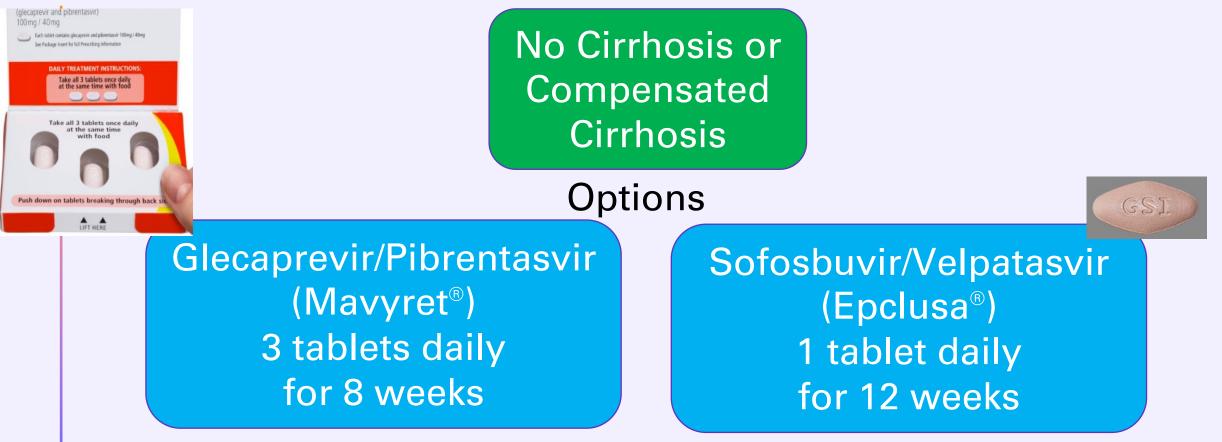
Sofosbuvir/velpatasvir (Epclusa) specific -PPIs (take Epclusa 4 hours before PPI), H2 agonists (take simultaneously or 12h apart)

Either drug: amiodarone, TB meds – rifas, anti-seizure meds (except levetiracetam), St. John's wort, and digoxin – CHECK SPECIFIC DDIs (statins)

BE AWARE OF POTENTIAL DRUG INTERACTIONS



Simplified Treatment Medications



Not safe in decompensated cirrhosis

Both Drugs:

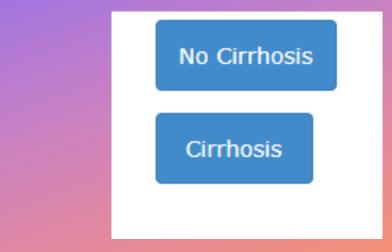
No Prior Authorization Needed for Alaska Medicaid Side Effects: Headache, fatigue, nausea Safe in decompensated cirrhosis



STEP 3: Write prescription/Start Treatment

- Educate patient about how to take medications, importance of adherence and prevention of reinfection
- Link patients who have ongoing substance use issues with harm reduction supplies & treatment services

https://www.anthc.org/what-we-do/clinicaland-research-services/hep/hep-c-treatmentinformation/





On Treatment Monitoring and Follow Up after Treatment

- No on-treatment monitoring required
- Check for SVR after treatment
- Persons with cirrhosis need hepatocellular carcinoma screening q6months (RUQ US and AFP)
- Provide alcohol counseling; those with cirrhosis should abstain completely from alcohol
- Work up LFT elevations that continue
- Persons who fail treatment need re-treatment

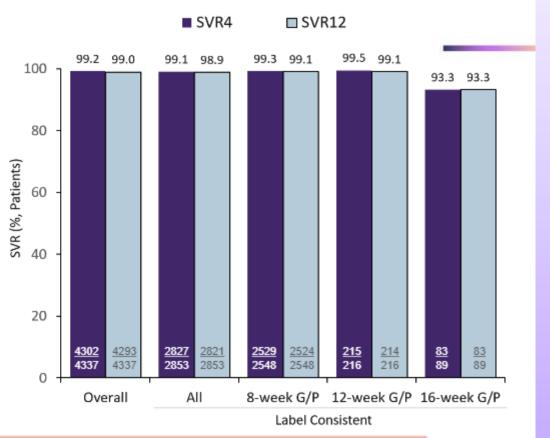


- >99% of patients that achieved SVR4 achieved SVR12
- All patients that did not achieve SVR4 did not achieve SVR12 (NPV=100%; sensitivity=100%)
- Specificity was 79.5%, indicating the majority of patients relapsing do so by post-treatment week 4

	Overall	All	8-wk G/P	12-wk G/P	16-wk G/P
PPV	99.8	99.8	99.8	99.5	100.0
NPV	100.0	100.0	100.0	100.0	100.0
Sensitivity	100.0	100.0	100.0	100.0	100.0
Specificity	79.5	81.3	79.2	50.0	100.0

SVR, sustained virologic response; SVR4, SVR at post-treatment Week 4; SVR12, SVR at post-treatment Week 12; PPV, positive predictive value; NPV, negative predictive value

- Achieving SVR4 was highly predictive of long-term SVR for patients treated with G/P, regardless of treatment duration
- All measures of concordance were similar between the overall group and the 8-week treatment duration group, demonstrating the high effectiveness of the shortest treatment regimen



Gane E, et al. J Viral Hepat. 2021;28(11):1635-1642.

× "

Patients receiving G/P in clinical trials

24 y.o. female with ongoing IDU Comes in for STI check Labs 6/28/24: HCV RNA 463,000 iu/mL ALT 302 AST 280 Platelets 245,000 HIV negative HBsAg negative Current meds: None

Hepatitis B vaccine series completed 2002

Physical Exam: No cirrhosis findings

PATIENT CASE #1

https://www.anthc.org/what-we-do/clinical-and-researchservices/hep/hep-c-treatment-information/

62 y.o. male lives in Kodiak h/o IDU 70s, no recent use Drinks 6 pack beer about 4 times/week Labs 9/4/24: +HCV Ab, HCV RNA 590,000 iu/ml ALT 59, AST 72 Platelets 140k/uL Bili 1.2 Albumin 3.5 INR 1.3 HIV negative HBcAb positive, HBsAg negative

Current meds: pravastatin 20mg, losartan 50mg daily

Physical exam: A&O x 3. No icterus or jaundice, has spider angiomas on chest, no ascites, no asterixis.

PATIENT CASE #2

https://www.anthc.org/what-we-do/clinical-and-researchservices/hep/hep-c-treatment-information/

HEPATITIS C TREATMENT LESSER DISCUSSED SCENARIOS



DAA TREATMENT DISCONTINUATION

 Large real-life NAVIGATORE-Lombardia study of 365 patients in Italy¹, SVR rate was 50% for those who took less than 4 weeks of treatment.

- In the ATHS, 42 patients who discontinued treatment, # of prescription fills was known
 - 17/29 (59%) who took < 4 weeks achieved SVR
 - 12/13 (92%) who took > 4 weeks of treatment achieved SVR

To prevent discontinuation:

- Consider providing all doses at start of treatment
- Follow up to see that refills are picked up or mailed
- Link to SUD treatment and harm reduction

¹Massimiliano, F., Lombardi, A., Colaneri, M. et al. High rates of SVR despite premature Discontinuation of DAAs in HCV-infected patients treated in real-life setting. J Viral Hepatology2021; 28:558-568.

HCV REINFECTION

Hepatitis C reinfection after successful antiviral treatment among people who inject drugs: A meta-analysis

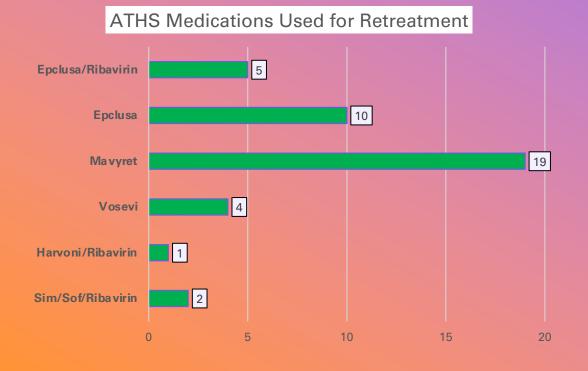
- Thirty-six studies were included (6,311 person-years of follow-up)
- Overall rate of HCV reinfection was 5.9/100 person-years (95% Cl 4.1–8.5) among people with recent drug use (injecting or non-injecting)
- 6.2/100 person-years (95% CI 4.3–9.0) among people recently injecting drugs
- · 3.8/100 person-years (95% CI 2.5–5.8) among those receiving OAT

Stratified analysis

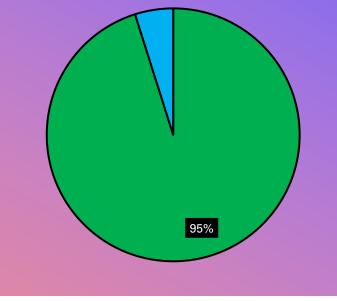
- 1.4/100 person-years (95% CI 0.8–2.6) among people receiving OAT with no recent drug use
- 5.9/100 person-years (95% CI 4.0-8.6) among people receiving OAT with recent drug use
- 6.6/100 person-years (95% CI 3.4–12.7) among people with recent drug use not receiving OAT

RETREATMENT AFTER TREATMENT FAILURE OR REINFECTION

Retreatment guidance available: https://www.hcvguidelines.org/treatment-experienced



SVR After Retreatment ATHS



SVR with Retreatment Retreatment Failure

PREVENTING REINFECTION

Preventing reinfection starts with treatment

- Persons who are actively injecting drugs should be high priority to treat
- Educate treatment patients about reinfection risk
- Provide harm reduction supplies
- Treat patients as well as partners, inner circle



1 untreated person with hep C who is actively injecting drugs will infect 20 people within 3 years^{1,2}

¹NIH National Institute on Drug Abuse. Updated June 2021. Accessed November 2,

^{2021.} https://www.drugabuse.gov/download/37596/heroin-research-report.pdf

²NIH National Institute on Drug Abuse. Updated August 3, 2020. Accessed November

^{9, 2021.} https://www.drugabuse.gov/drug-topics/viral-hepatitis-very-real-consequence-substance-use

HCV TREATMENT IN PREGNANCY

I.B

Recommendation for Universal Hepatitis C Screening in Pregnancy			Recor
RECOMMENDED	RAT ING		
			For v
As part of prenatal care, all pregnant women		infe	infec

should be tested for HCV infection with each

pregnancy, ideally at the initial visit.

Recommendation Regarding HCV Treatment and Pregnan	су
RECOMMENDED	RATI NG
For women of reproductive age with known HCV infection, antiviral therapy is recommended before considering pregnancy, whenever practical and feasible, to reduce the risk of HCV transmission to future offspring.	I, B

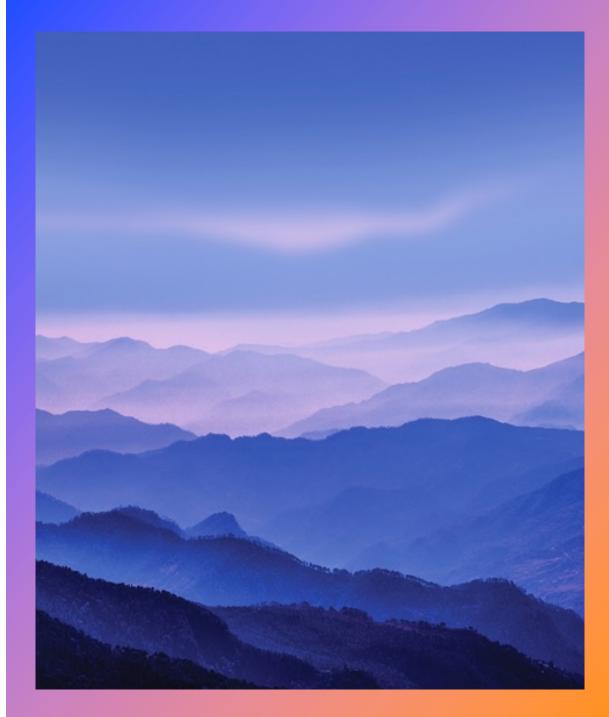
There are no large-scale clinical trials evaluating the safety of direct-acting antivirals (DAAs) in pregnancy. A small study evaluating the pharmacokinetics of ledipasvir/sofosbuvir in pregnancy demonstrated 100% SVR12 and no safety concerns. Similarly, an international case series of 15 pregnant persons treated with ledipasvir/sofosbuvir reported 100% SVR12 and no early safety concerns in the women or their infants (Yattoo, 2018); (Chappell, 2020). Currently, there are no available data on the use of pangenotypic regimens during pregnancy.

Despite the lack of a recommendation, treatment can be considered during pregnancy on an individual basis after a patient-physician discussion about the potential risks and benefits. https://www. hcvguideline s.org/unique = populations/ pregnancy

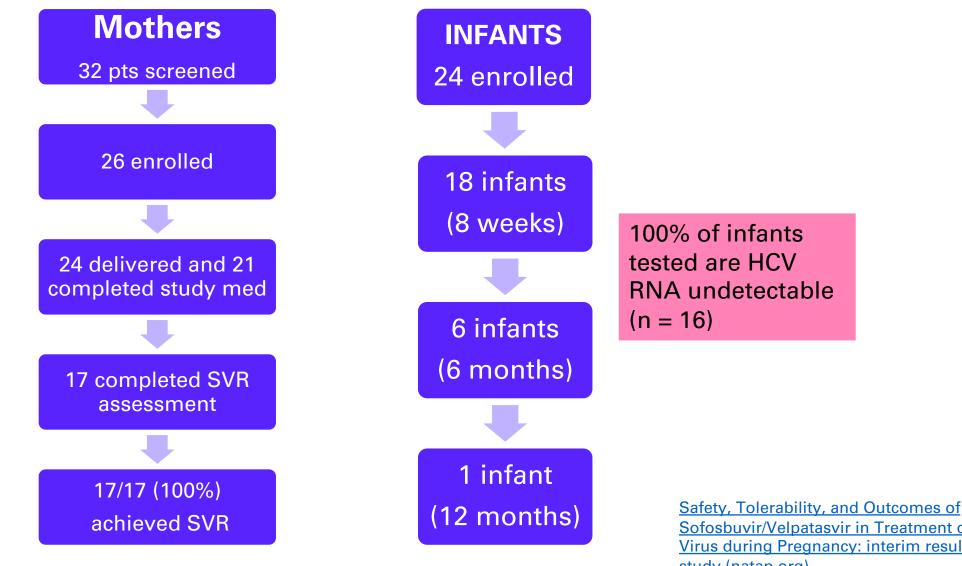
ONGOING STUDIES OF HCV TREATMENT IN PREGNANCY

- Glecaprevir/pibrentasvir -Washington University School of Medicine, St. Louis, MO
- Sofosbuvir/velpatasvir University of Pittsburgh/Multi-center – STORC Trial (has interim results)

https://clinicaltrials.gov/



STORC STUDY SOFOSBUVIR/VELPATASVIR INTERIM RESULTS



Sofosbuvir/Velpatasvir in Treatment of Chronic Hepatitis C Virus during Pregnancy: interim results from the STORC study (natap.org)

Weighing the Pros/Cons of Hepatitis C Treatment During Pregnancy

Pros

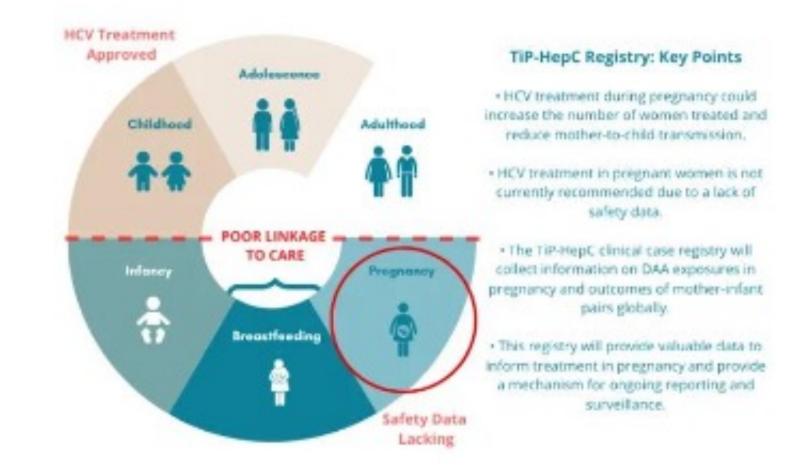
- Mother cured while engaged in pregnancy care
- Potential decrease in mother to child transmission of HCV
- Mother treated while covered by insurance
- Decrease in community transmission
- Potential decrease in HCVassociated adverse pregnancy outcomes

Cons

- Human safety in pregnancy is not established
- Safety during breastfeeding not established
- More established data available for treatment prior to pregnancy or of children age 3y+
- Difficulty in accessing DAA therapy in time (prior to delivery)
- Cost effectiveness not established

TIP-HEP C Registry

THE TIP-HEP C REGISTRY: REAL-WORLD DATA ON THE SAFETY OF HEP C TREATMENT IN PREGNANCY



To submit a case: https://redcap.emory.edu/surveys/?s=C99K9EEYHRLNY8AR

HEPATITIS C AND BREAST/CHEST FEEDING

Recommendations Regarding Breastfeeding and Postpartum Care for HCV-Infected Women

RECOMMENDED	RATING
Breastfeeding is not contraindicated in women with HCV infection, except when the mother has cracked, damaged, or bleeding nipples, or in the context of HIV coinfection.	I, B
Women with HCV infection should have their HCV RNA reevaluated after delivery to assess for spontaneous clearance.	I, B

https://www.hcvguidelines.org/uniquepopulations/pregnancy

SOFOSBUVIR/VELPATASVIR BREASTFEEDING STUDY

- Limited data available
- 1 pharmokinetic study on postpartum hepatitis C treatment
- Tested breastmilk of 4 women who did not intend to breastfeed
- Participants treated with sofosbuvir/velpatasvir for 12 weeks and were willing to provide pumped breast milk for study
- PK levels were done on the breastmilk and infant daily dose was calculated
- The estimated infant daily dose from breastmilk is less than 0.7% of daily dose in an adult and a child adjusted to weight
- Conclusion: Exposure to sofosbuvir and velpatasvir via breastmilk is minimal
- Additional data is needed to confirm safety and effect on milk production

https://www.natap.org/2024/CROI/croi 170.htm Catherine Chappell, et al. University of Pittsburgh

PEDIATRIC HEPATITIS C TREATMENT





Treatment is available for children ages 3y+

 Confirm current infection with HCV RNA prior to treatment start

Medication Options:

- Genotypes 1,4,5, 6 Ledipasvir/sofosbuvir (Harvoni) x 12 weeks¹
- Sofosbuvir/velpatasvir (Epclusa) x 12 weeks²
- Glecaprevir/pibrentasvir (Mavyret) x 8 weeks³
- Weight-based
- Pellets placed in food must be swallowed right away and should not be chewed

¹Harvoni full prescribing information: <u>https://www.gilead.com/~/media/files/pdfs/medicines/liver-disease/harvoni/harvoni_pi.pdf</u>

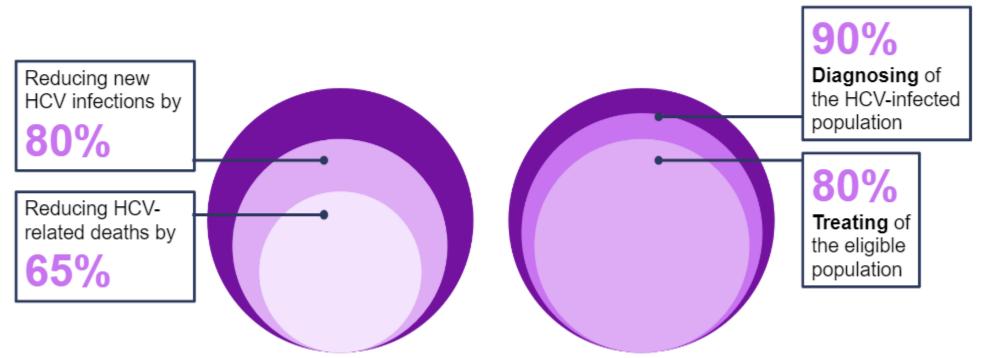
²Epclusa full prescribing information: <u>https://www.gilead.com/~/media/Files/pdfs/medicines/liver-disease/epclusa/epclusa_pi.pdf</u>

³Mavyret full prescribing information: <u>https://www.rxabbvie.com/pdf/mavyret_pi.pdf</u>

Achieving HCV Elimination

WHO Elimination Target

The WHO has developed set targets relative to 2015 benchmark levels with the goal of eliminating HCV as a public threat by 2030:



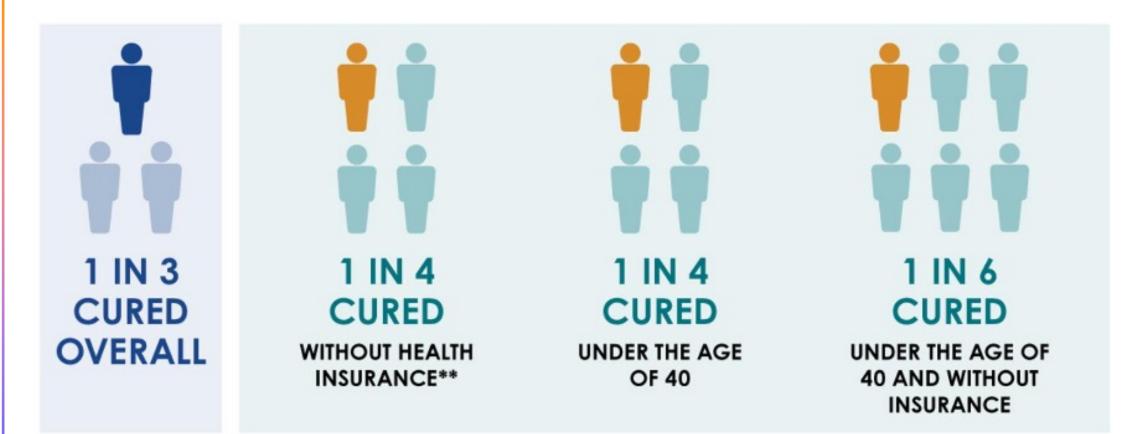
Progress Toward HCV Elimination in the United States



- · Elimination progress held back by:
- Sobriety Restrictions
- Prescriber Restrictions
- Retreatment Restrictions
- Need for Prior Authorizations
- · Patient readiness models of care
- Stigma

Sulkowski, M., Cheng, WH., Marx, S. et al. Estimating the Year Each State in the United States Will Achieve the World Health Organization's Elimination Targets for Hepatitis C. Adv Ther 38, 423–440 (2021). https://doi.org/10.1007/s12325-020-01535-3

ADULTS DIAGNOSED AND CURED* OF HEPATITIS C IN THE U.S., 2013-2022



*Cured is defined as viral clearance, which is an undetectable hepatitis C virus ribonucleic acid (HCV RNA) after a prior test result of detectable HCV RNA. **Referred to as Other (client or self-pay) in the analysis

Source: Centers for Disease Control and Prevention

US National HCV Elimination Plan

.

March 9, 2023

A National Hepatitis C Elimination Program in the United States

A Historic Opportunity

Rachael L. Fleurence, MSc, PhD¹; Francis S. Collins, MD, PhD¹

> Author Affiliations | Article Information

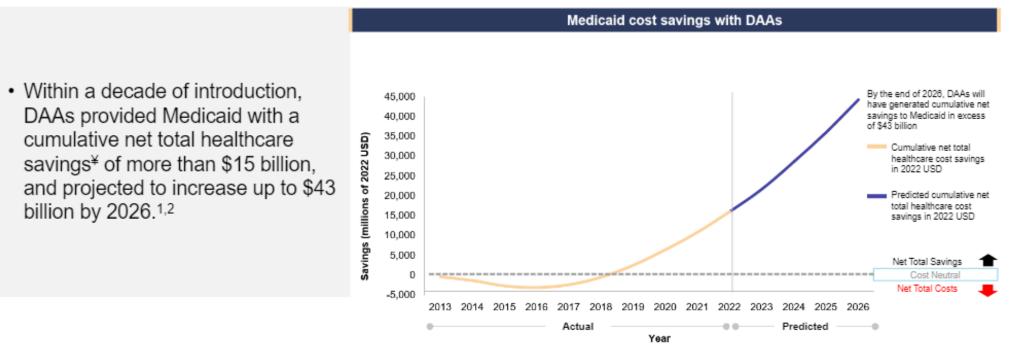
JAMA. Published online March 9, 2023. doi:10.1001/jama.2023.3692

Highlights of the White House Plan

Proposed a plan to eliminate hepatitis C in five years in the United States through a mandatory authorization:

- Supporting the development of point-of-care diagnostic tests to enable a test-to-treat model;
- Broadening access to curative hepatitis C medications, primarily through a national subscription model; and
- Expanding infrastructure needed to reach, test, and treat all affected individuals.

Impact of DAA Use on Cumulative Net Total Healthcare Savings in Medicaid, 2013-2026



#Savings included hospitalizations, emergency department visits, physician office visits and prescription drug refills avoided as a result of DAA use

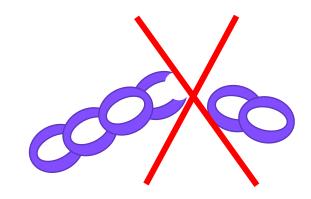
DAA: direct-acting antiviral; \$M: dollars in millions; Act; PWID: People who inject drugs.

1. Roebuck MC. Am J Manag Care. 2022;28(12):630-631.

Roebuck MC, Liberman JN. Am J Manag Care. 2019;25(8):S131-S139.

*16 states – Alabama, California, Connecticut, Florida, Illinois, Indiana, Louisiana, Michigan, New Hampshire, New Mexico, New York, Ohio, Oregon, Pennsylvania, Virginia, Washington

20



Current Missed Opportunities

- Persons who test positive for hepatitis C aren't linked immediately to care/treatment
- Hepatitis C treatment rarely offered outside traditional healthcare settings

Every broken link decreases chances of someone getting treated and increases risk for spreading infection, progression of liver disease

Conclusion

- Screen WIDELY for hepatitis C
- Speed up time from screening to treatment
- Move from patient readiness model to one of provider readiness
- Be flexible One size does not fit all for treatment
- Link those with ongoing SUD to alcohol and opioid treatment but do not delay HCV treatment
- Be sure to link patients with ongoing SUD to harm reduction services

THANK YOU!

Brian McMahon Bmcmahon@anthc.org

Lisa Townshend-Bulson Itownshend@anthc.org

www.anthc.org/hep

