# Alaska ID ECHO: HCV-HIV-PrEP-STIs





March 8, 2022

The ANTHC Liver Disease and Hepatitis Program, HIV Clinical Services, Behavioral Health Department and Southcentral Foundation's Pharmacists have partnered to host this ECHO, and it's funded by a grant from the Northwest Portland Area Indian Health Board.

### Welcome to Alaska Infectious Disease ECHO – HCV, HIV, PrEP, STIs

#### **Approved Provider Statements:**



In support of improving patient care, Alaska Native Medical Center (ANMC) is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

### Contact Hours:

ANMC designates this activity for a maximum of 12 contact hours, including 3 total pharmacotherapeutics contact hours, commensurate with participation.

#### Financial Disclosures:

Youssef Barbour, MD & Lisa Townshend-Bulson, APRN / faculty for this educational event, are primary investigators in an ANTHC sponsored hepatitis C study funded in part by Gilead Sciences. All of the relevant financial relationships listed have been mitigated.

#### Requirements for Successful Completion:

To receive CE credit please make sure you have actively engaged in the entire activity, your attendance is recorded by the facilitator, and complete the course evaluation form found here: <a href="https://forms.gle/18t4EqvN2WdnM4P77">https://forms.gle/18t4EqvN2WdnM4P77</a>



For more information contact <u>ilfielder@anthc.org</u> or (907) 729-1387



# **AK ID ECHO: CONSULTANT TEAM**



- Youssef Barbour, MD Hepatologist
- · Leah Besh, PA-C HIV/Hepatology Provider
- Terri Bramel, PA-C HIV/STI Provider
- Rod Gordon, R.Ph. AAHIVP Pharmacist
- · Jacob Gray, MD Infectious Disease Provider
- · Annette Hewitt, ANP Hepatology Provider
- Brian McMahon, MD Hepatologist
- · Lisa Rea, RN HIV/STI Case Manager
- · Lisa Townshend, ANP Hepatology Provider



# **Simplified Hepatitis C Treatment**

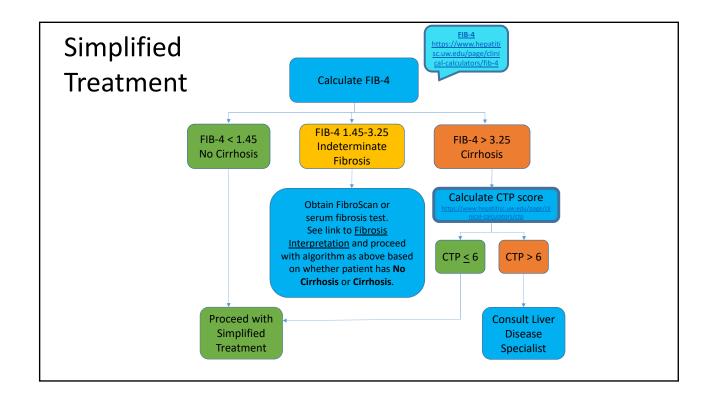
Lisa Townshend-Bulson, FNP-C
Annette Hewitt, FNP-C
ANTHC Liver Disease & Hepatitis Program

# Changing Mindset About Hepatitis C

- Remove the barriers
- See hepatitis C as an infection that needs to be treated



Recognize that hepatitis C treatment is affordable



# Who Is Eligible for Simplified Treatment\*

Adults with hepatitis C (any genotype) who do NOT have cirrhosis or have compensated cirrhosis (CTP score  $\leq$  6) and persons who have not previously received HCV treatment

\*ANTHC Simplified Treatment has been adapted from AASLD/IDSA HCV Guidelines available at: www.hcvguidelines.org/

# Who Is NOT Eligible for Simplified Treatment

Patients who have any of the following:

- Prior HCV treatment
- Current or prior episode of decompensated cirrhosis, defined as Child-Turcotte-Pugh (CTP) score > 6 or presence of ascites, hepatic encephalopathy, total bilirubin > 2.0mg/dL, albumin ≤ 3.5g/dL, or INR ≥ 1.7
- HIV positive
- HBsAg positive
- Current pregnancy
- End-stage renal disease (i.e. eGFR <30mL/min/m²)</li>
- Known or suspected hepatocellular carcinoma
- Prior liver transplantation

# Simplified Treatment – 3 Easy Steps

- Determine FIB-4 score (need age, ALT and AST, and platelet count)
- <sup>2</sup> Get labs
- Write Prescription

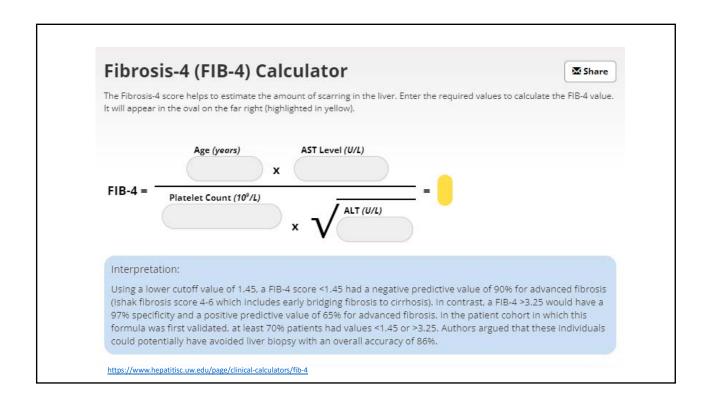
# Simplified Treatment – 3 Easy Steps

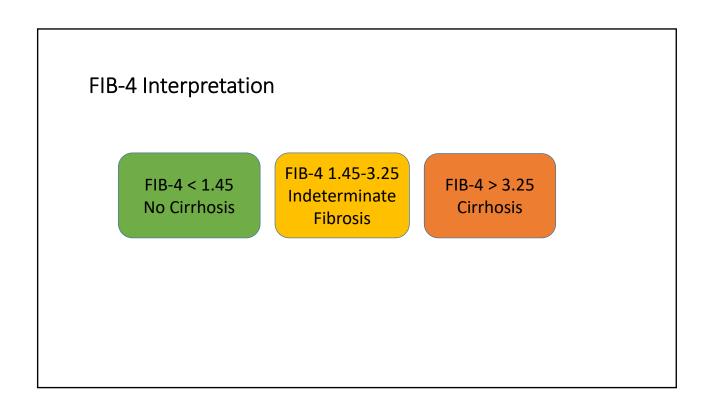
- Get labs
- Determine FIB-4 score (need age, ALT and AST, and platelet count)
- Write Prescription

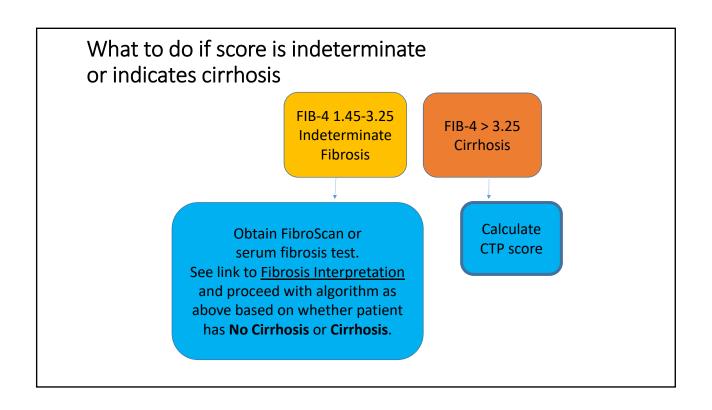
# Simplified Treatment – 3 Easy Steps



### Determine FIB-4 score







# Simplified Treatment – 3 Easy Steps



# **Step 2. Obtain Pre-Treatment Labs**

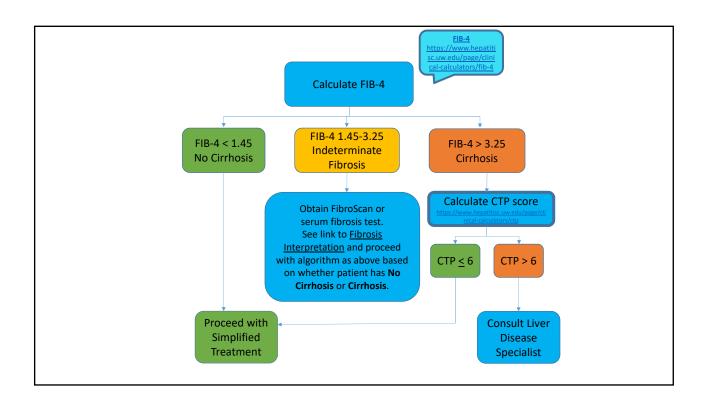
Lab	When Needed?			
Serum Fibrosis Test (FibroSure/Labcorp or FibroTest/ Quest) if FIB-4 is indeterminate (1.45 – 3.25) or obtain FibroScan if test available (i.e. ANMC)	Complete prior to choosing HCV medication			
Pregnancy Test	Immediately prior to treatment start and counsel about pregnancy risk with HCV medication			
HCV RNA	Acceptable within past 6 months			
Hepatic function panel and eGFR	Acceptable within past 6 months			
AFP	Acceptable within past 6 months			
CBC (without diff)	Acceptable within 3 months if cirrhosis, 6 months if no cirrhosis			
HIV antigen/antibody	Anytime prior			
Hepatitis B surface antigen	Anytime prior			
CMP and PT/INR (only needed in cirrhosis)	Acceptable within 3 months			
HCV genotype (only needed if patient has cirrhosis and you are treating with sofosbuvir/velpatasvir)	Anytime prior			

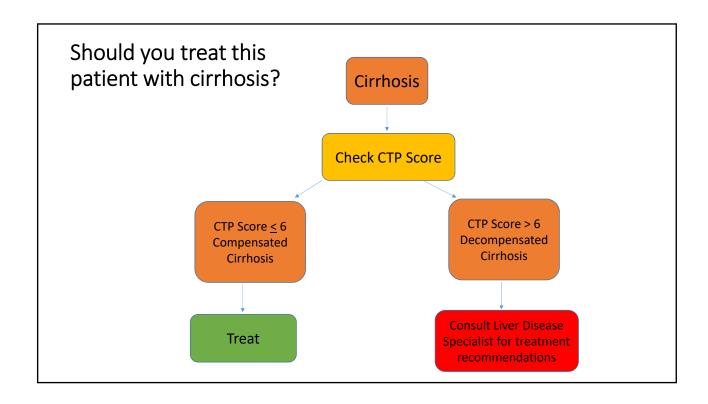
### **Fibrosis Interpretation**

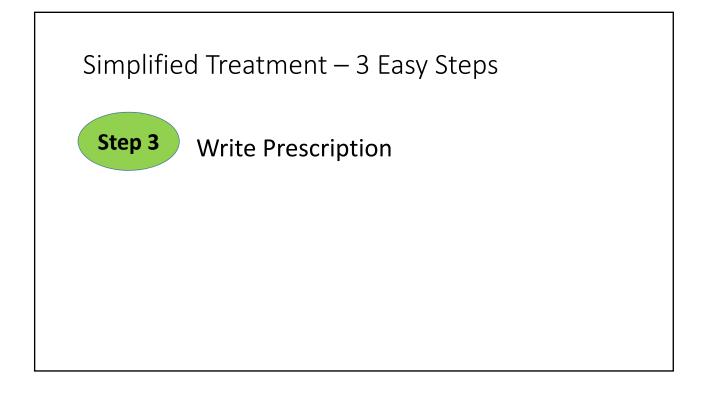
For serum fibrosis tests such as <b>FibroSure</b> (Labcorp) or <b>FibroTest</b> (Quest), use the following cutoffs:				Fibr	oScan	
F0-F2	F3*	F4*	F0-F1	F2	F3	F4
< 0.48	0.48-0.74	> 0.74	< 8.4	8.4 – 9.5	9.6 – 12.7	≥ 12.8

### F0-F3 = Treat as No cirrhosis F4 = Cirrhosis

\*Those with scores indicating F3-F4 fibrosis prior to treatment (highlighted in yellow) should undergo surveillance for hepatocellular carcinoma with RUQ US and AFP every 6 months. Consult Liver Disease Specialist with any questions.







# Appropriate Treatment Regimens

No Cirrhosis

### **Options**

Glecaprevir/Pibrentasvir
(Mavyret™)
3 tablets daily
for 8 weeks

Sofosbuvir/Velpatasvir
(Epclusa®)
1 tablet daily
for 12 weeks

# **Appropriate Treatment Regimens**

Compensated Cirrhosis

### **Options**

Glecaprevir/Pibrentasvir
(Mavyret™)
3 tablets daily
for 8 weeks

Sofosbuvir/Velpatasvir
(Epclusa®) 1
1 tablet daily
for 12 weeks

<sup>1</sup> Obtain genotype if treating with Epclusa. If genotype 3, obtain NS5A RAS testing and if Y93H RAS is negative, proceed with Epclusa treatment. If Y93H RAS is present, refer to Liver Disease Specialist.

# When writing prescription, identify insurer and determine if prior authorization needed

### Medicaid

- Glecaprevir/Pibrentasvir is preferred medication/No prior authorization.
- All other regimens, including Sofosbuvir/Velpatasvir require prior authorization

### Medicare Part D – Prescription Drug Coverage

- · Determine plan and identify HCV treatment on formulary
- At this time, plans require PA

### **Private Insurance**

- Identify HCV treatment on formulary
- Obtain PA

# Prescription Assistance for Uninsured or Underinsured

### Non-pharmaceutical Sponsored Program

### Pan Foundation

• Call 1-866-316-7263 or online www.panfoundation.org/hepatitis

# Pharmaceutical Sponsored Patient Assistance Programs myAbbvie Assist (Mavyret)

• Call 1-877-628-9738 or online <u>www.abbvie.com</u>

### Gilead Support Path (Harvoni, Epclusa)

• Call 1-855-769-7284 or online www.mysupportpath.com

# **Pre-Treatment Checklist**

- ☐ Determine hepatitis A vaccine status (if unknown, draw HAV antibody total IgG) and vaccinate if not immune
- ☐ Determine hepatitis B vaccine status (if unknown, draw HBsAg and HBsAb) and vaccinate if patient has not already completed hepatitis B vaccine series and HBsAg and HBsAb are negative)
- ☐ Review drug-drug interactions <u>www.hep-druginteractions.org</u>
- ☐ Assess mental health status (including depression using tool such as <u>PHQ-9</u>) and screen for active substance use disorder (SUD) and refer appropriately to Behavioral Health/treatment.
- ☐ Assess for Alcohol Use Disorder. Have patient complete <u>AUDIT-C</u>. Counsel if excess alcohol use, and refer for treatment as appropriate.
- ☐ Assess for ongoing injection drug use and connect patient with syringe service program (in Alaska: <a href="www.alaskanaids.org">www.interioraids.org</a>, or <a href="www.iknowmine.org">www.iknowmine.org</a> for harm reduction/prevent reinfection
- ☐ Counsel patient about pregnancy prevention (Ethinyl estradiol not recommended with glecaprevir/pibrentasvir (Mavyret®)
- ☐ Review medication-specific information with patient at treatment start

# **Monitoring During Treatment**

- □ No specific lab monitoring required but can be considered if clinically indicated.
- □In-person or telehealth/phone visit may be scheduled for patient support, assessment of symptoms, and/or new medications
- ☐ Instruct patients taking diabetes medications to monitor for hypoglycemia
- □Inform patients taking warfarin of potential changes in their anticoagulation status. Monitor INR for subtherapeutic anticoagulation is recommended.
- ☐ Refer to Liver Disease Specialist, any patient with worsening liver blood tests (e.g. bilirubin, AST, ALT); jaundice, ascites, or encephalopathy; or new liver-related symptoms.

# Assessment of Cure (SVR) Very Important!!!

- ☐ HCV RNA and LFT 12 weeks or later after completing HCV medication
- ☐ If ALT/AST are elevated after SVR, assess for other causes of liver disease, see Elevated LFTs Algorithm

# **Follow-Up After Achieving Cure**

- □ No liver specific follow-up necessary for patients with no-moderate fibrosis (F0-F2) who have achieved cure.
- ☐ For patients with advanced fibrosis/cirrhosis (F3/4 fibrosis), RUQ US and AFP is recommended every 6 months to screen for hepatocellular carcinoma.
- ☐ Yearly labs to assess for liver disease progression: CBC, LFTs (and AFP) for those with advanced fibrosis; CBC, CMP, PT/INR (and AFP) for those with cirrhosis.
- □ Counsel persons with risk for HCV infection (ongoing IVDU, MSM involved in condomless sex) about risk reduction and obtain HCV RNA yearly and whenever ALT, AST, or bilirubin are elevated to test for reinfection
- ☐ Counsel patients to avoid excess alcohol use. For those with cirrhosis, counsel abstinence from alcohol use.

# Follow-Up for Patients Who Do Not Achieve a Cure

- ☐ Refer patient to Hepatology or other specialist for evaluation for re-treatment
- ☐ If unable to retreat, assess for liver disease progression every 6-12 months with LFT, CBC and INR
- ☐ For those with active hepatitis C, abstinence from alcohol is recommended.

# Thank You!

Visit our website: www.anthc.org/hep

For helpful information and additional information about our other CE programs:

LiverConnect (CE program on liver disease –  $2^{nd}$  Tuesdays, 8-9am) and

AK Liver Disease ECHO (3rd Thursdays, 12n-1pm)



# Case #1

Katy is a 22 year old female, diagnosed at age 18 with HCV, GT 2a. She has a history of IVDU. She just returned from treatment (not using drugs and alcohol for 4 months), working in landscaping and is living with an older sibling. She has no health care coverage. She made today's appointment to discuss hepatitis C treatment.

Chart review shows she's fully vaccinated against Hepatitis A and B. Hep B surface antigen negative.

Medications: ethinyl estradiol/norethindrone OCP, St. John's Wort

You get pretreatment labs...

### Pre treatment Lab Review

HCV RNA - 1,003,458 iu/ml
CBC- WNL, Plt 340
ALT - 49, AST 34, Alk 69, Alb 4.6, t. bili 0.4
eGFR - 112
HIV — negative
HBsAg - negative

FIB-4: 0.31 (no or mild fibrosis)

What are her treatment options?

# Simplified Treatment

- Apply for Medicaid and if not eligible apply to patient assistance program for free medication
- Mavyret 3 tabs daily for 8 weeks
  - no prior authorization needed if Medicaid
  - switch to a different birth control barrier or progesterone only contraception is ok
- Epclusa 1 tablet daily for 12 weeks
  - prior authorization required if Medicaid
- Assist with harm reduction, post treatment support program
- 12 weeks or more after treatment obtain HCV RNA and LFTs to test for cure

### Patient Case AK-ID-14

Date	HCV RNA	ALT/AST	
2/4/2022	9433		
2/16/2022		242/106	
8/31/2021	2,217,218		
4/27/2021	undetectable		Over 4-5 months patient took a total of 2 weeks of Mavyret, starting around June 2020
12/4/2019	58,7001		
7/23/2018	107,148		
2/15/2018	+Ab, undetected RNA		

2/16/2022					
					nonreactive
WBC	6.94	T. Bilirubin	0.210.8	HIV	11/10/2021
	40.7	Total	6.7		
HGB	12.7	Protein	6.7	AFP	
НСТ	38	Albumin	4.0	Fe**	
ner	30	Albamin	4.0	10	
Platelets	328	A1c		TIBC**	
riaterets	320		nonreactive	TIDE	
PT/INR			1/21/2022	Ferritin**	
,			_,,	7 61716111	
GFR	120	HBsAg (pos/neg)*		ANA**	
<b></b>				7	
Creatinine	0.8	HBsAb (pos/neg)		AMA**	
			nonreactive		
ALT	242	(pos/neg)*	1/21/2022	IgG**	
		HCV		HBV Viral	
AST	106	Genotype	1a	Load **	
				HBV	
		HCV Viral	9433	eAg/eAb*	
ALP	102	Load	2/4/2022	*	

### Question

Should treatment be re-initiated with Mavyret or with something else? Does he need another fibroscan?

### Case #2

Paul is a 59 year old male found to be HCV antibody reactive on screening labs done during a physical. He was notified of results and returned for confirmatory testing:

HCV RNA was 8,987,654 iu/mL. (confirming active infection)

He returns to clinic today to review the results and wants to begin HCV treatment. He has AK Medicaid coverage

You review his most recent labs and consult the simplified treatment algorithm.

No history of hepatitis A or B vaccinations.

Medications - Lisinopril 10mg daily, atorvastatin 20mg daily

# Lab Results

HCV RNA (viral count): 8,987,654 iu/mL. (confirms active infection)

CBC: Hgb 13.2, plt 160

<u>CMP</u>: ALT 68, AST 75, bili 0.9, alk phos 110, albumin 3.9, eGFR >60

HIV screen: negative

HBsAg: negative, HBsAb: neg, HBcAb: neg

**HAV Total antibody**: negative

FIB-4: 3.35 (cirrhosis)

### Does he need additional tests?

- RUQ US (and AFP) now and every 6 months for life
- PT/INR 1.1 (within 3 months)
- CTP score 5 (Class A/compensated)
  - · Use online calculator
  - Refer to hepatology if >6
- Genotype?
  - Not needed with glecaprevir/pibrentasvir (Mavyret)
  - Sofosbuvir/velpatasvir (Epclusa) If genotype 3 will need to get NS3 lab, if Y93 positive refer to hepatology for treatment (ribavirin will be needed)

# Simplified Treatment — Compensated Cirrhosis (CPT≤ 6)

- Mavyret 3 tabs daily for 8 weeks
  - no prior authorization needed
  - hold atorvastatin during treatment or switch to a different statin (rosuvastatin)
- Epclusa 1 tablet daily for 12 weeks
  - prior authorization required
  - If GT 3 and Y93 positive refer to hepatology for treatment
- Vaccinate against hepatitis A and B do not delay treatment start for vaccines
- 12 weeks or more after treatment obtain HCV RNA and LFTs to test for cure

### ADDITIONAL LEARNING OPPORTUNITIES

#### **ANTHC Liver Disease ECHO**

- Third Thursday of every month from 12:00-1:00 PM AKST
- March 17: Diabetes Drugs that Help NAFLD anthc.org/project-echo/alaska-liver-disease-echo

### **ANTHC LiverConnect**

- · Second Tuesday of every month 8:00-9:00 AM AKST
- April 12: Hepatitis C: Changing Demographics/Simplified Tx/Strategies for Tx and Prevention

anthc.org/what-we-do/clinical-and-research-services/hep/liverconnect





### **ADDITIONAL LEARNING OPPORTUNITIES**

### **Addiction Medicine ECHO**

 Second and fourth Thursday of every month from 12:00-1:00 PM anthc.org/project-echo/addiction-medicine-echo

### **Indian Country ECHO Programs**

Harm Reduction, Infectious Disease, and more!
 www.indiancountryecho.org/teleecho-programs



### **AK ID ECHO Contacts**

### **ANTHC Staff**

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ANTHC Liver Disease and Hepatitis Program: 907-729-1560

ANTHC Early Intervention Services/HIV Program: 907-729-2907



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# Thank you!

AK ID ECHO is supported by a grant from the Northwest Portland Area Indian Health Board and funding is provided from the HHS Secretary's Minority HIV/AIDS Fund.

