### Simplified Treatment of Hepatitis C in Primary Care Settings

Pathway to HCV Cure 2021



## WELCOME TO... Pathway to Cure-Simplified Treatment of Hepatitis C in Primary Care Settings

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#### Disclosures

- MICIS does not accept any money from pharmaceutical companies/commercial interests
- Speakers and planners have no significant or relevant financial relationships to disclose





- > Understand the importance of screening for Hepatitis C
- > Know next steps when initial HCV screen is positive
- Identify elements of a comprehensive care plan for patients with HCV

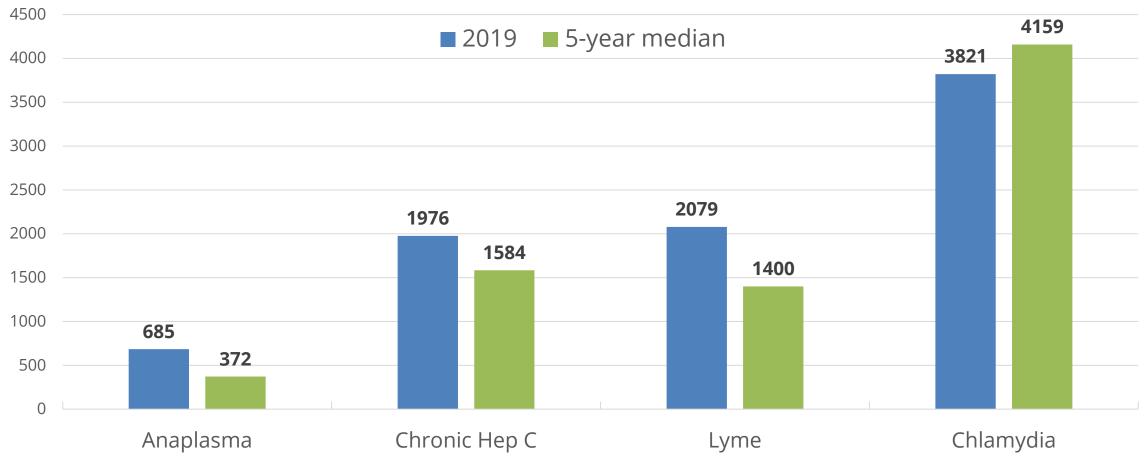


Advertisement: Custom, Individual CME sessions available from MICIS

\*HCV Treatment-Level 2 \*4 hours of Opioid/MAT topics



#### **Top 4 Maine Reportable Disease Cases\***



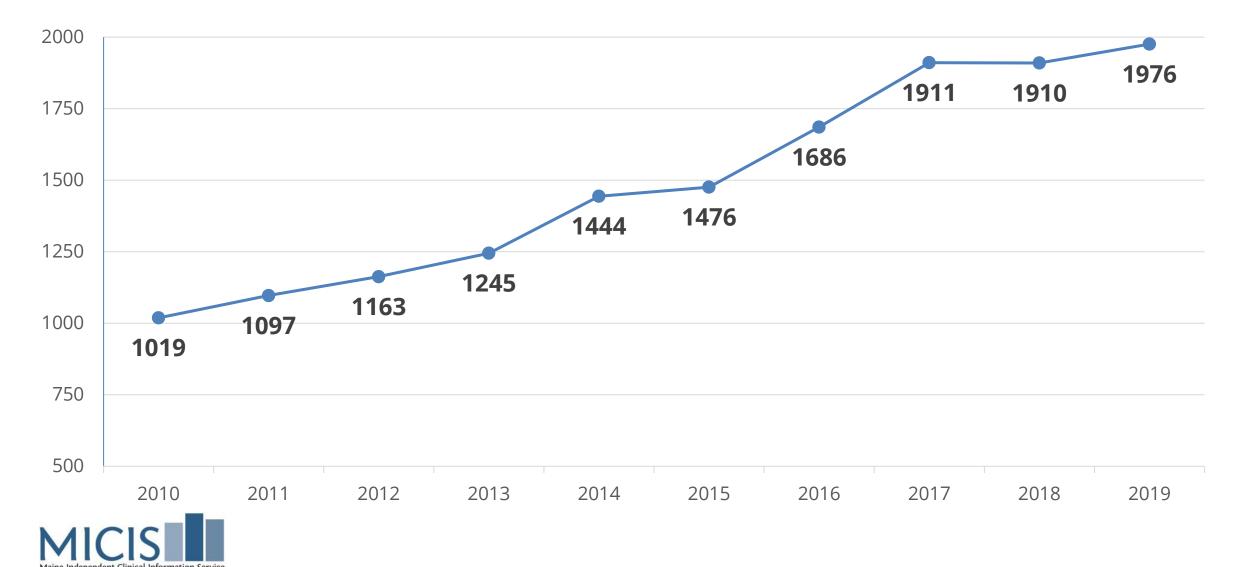


\*prior to COVID

# Why should all adults get tested for hepatitis C?



#### Maine Diagnosed Chronic Hepatitis C



#### **HEP C FACTS**

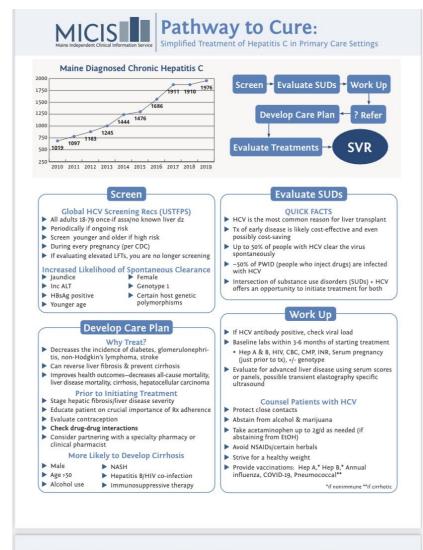
- > HCV is the most common reason for liver transplant
- HCV is associated with more deaths than the top 60 other reportable infectious diseases COMBINED (including HIV, prior to COVID)
- Tx of early disease is likely cost-effective and even possibly cost-saving



#### Maine vs Other States-2017

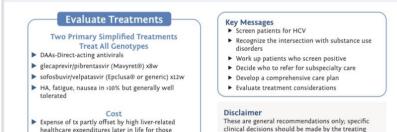
Acute Hep B	#2
> Opioid OD Death	#6
Acute Hep C	#10





Pathway to Cure Handout

#### Pathway to Cure: Simplified Treatment of Hepatitis C in Primary Care Settings



available at MICISMaine.org



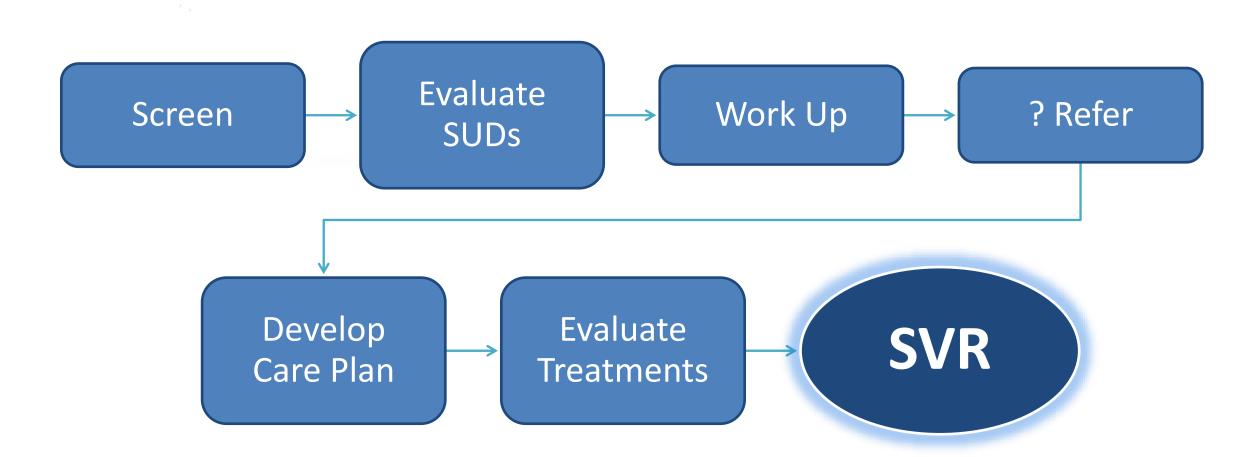
#### **Pathway to Cure Packet/Resources**

- Request form for Hep C "Level 2" CME session
- Handout (pdf)
- Brief (2 page) review article by Laura Knapik, UNE OMS-IV
- Resource list w/hyperlinks
- Reference list
- Slide deck





#### Pathway to HCV Cure - 2021





#### Now, a video case study

- > Introducing Will, a new patient
- > 55 year old male
- > Presents to your primary care office with severe pruritis
  - \*just pretend he did not present to the Hopkins sub-specialty clinic





#### Introducing Will, a new patient, presenting with severe pruritis.

Learn more about his path in an alternate universe: <u>www.youtube.com/watch?v=qO-Xz0SC26E</u>







#### **Reflection question**

Which one of these USPSTF (United States Preventative Services Task Force) **SCREENING** recommendations is grade 'A' for a 55 yo man?

- A. screen for pancreatic cancer
- B. screen for tobacco use
- C. screen for HCV
- D. screen for asymptomatic carotid artery stenosis



#### **USPSTF Screening for 55yo male-Grade A**

- a. Blood pressure
- b. Tobacco use
- c. Colorectal CA
- d. HIV/PrEP/Syphilis





#### **USPSTF Screening for 55yo male-Grade B**

- a. Weight/Diet/Exercise
- b. Glucose
- c. Depression

- e. Lung CA
- f. ASA/Statin
- g. HBV/HCV/latent TB

d. Alcohol & Drug use



#### **HCV Screening Recs (USTFPS)**

- > All adults 18-79 once-if assx/no known liver dz
- Periodically if ongoing risk
- Screen younger and older if high risk
- > During every pregnancy (per CDC)
- > If evaluating elevated LFTs, you are no longer screening
- > CLIAw POC fingerstick testing method approved in 2011!



#### **HEP C FACTS**

- Treatment of Hepatitis C is to eradicate as opposed to suppress (no hidden reservoir unlike Hep B)
- > Up to 50% of people with HCV clear the virus spontaneously







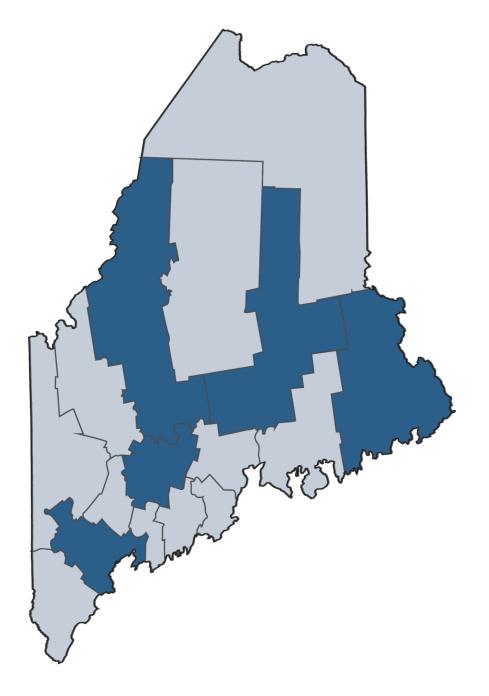
#### **HEP C FACTS**

- ~53% of PWID (people who inject drugs) are infected with HCV [range 38-68]
- Intersection of substance use disorders + HCV offers an opportunity to initiate treatment for both
- > Treating either prevents HCV spread
- > Active drug use is not an absolute contradiction to tx



#### Maine's Most Vulnerable Areas

 highest risk of opioid overdose & bloodborne infections from injection drug use





ME CDC Annual Report 2019 Some key recommendations to Reduce Overdose & Bloodborne Infections

> Increase the number and staffing of syringe service programs

Increase the # of MOUD providers in Maine's most vulnerable areas, including telehealth and in correctional facilities



#### **Reflection question**

If Will were still actively injecting opioids, could he receive buprenorphinenaloxone treatment at your primary care office?



- > A. Yes, currently
- B. No, but I want to start treating OUD-sign me up for a MICIS one on one session
- C. No, but I know the OUD treatment options in my community/health system







#### Work Up 1

- > If HCV antibody positive, check viral load
- > HCV antibody stays positive \*lifelong,\* even after successful tx
- If first +HCV, recheck viral load in 6 mos to assess spontaneous clearance-may need to document chronicity of infection for insurance approval



#### **Counsel Patients with HCV**

- Protect close contacts
- > Abstain from alcohol & marijuana
- > Take acetaminophen up to 2g/d as needed (if abstaining from EtOH)
- > Avoid NSAIDs/certain herbals
- Strive for a healthy weight
- Assess coffee intake
  - 2-3C/d assoc with dec risk of hospitalization & death from chronic liver dz



### Work Up 2

- > Baseline labs within 3-6 months of starting treatment
  - Hep A & B panels, HIV
  - CBC
  - CMP or LFTs & eGFR
  - INR
  - Serum pregnancy (just prior to tx)
  - Genotype not required for simplified tx, may still be on some protocols



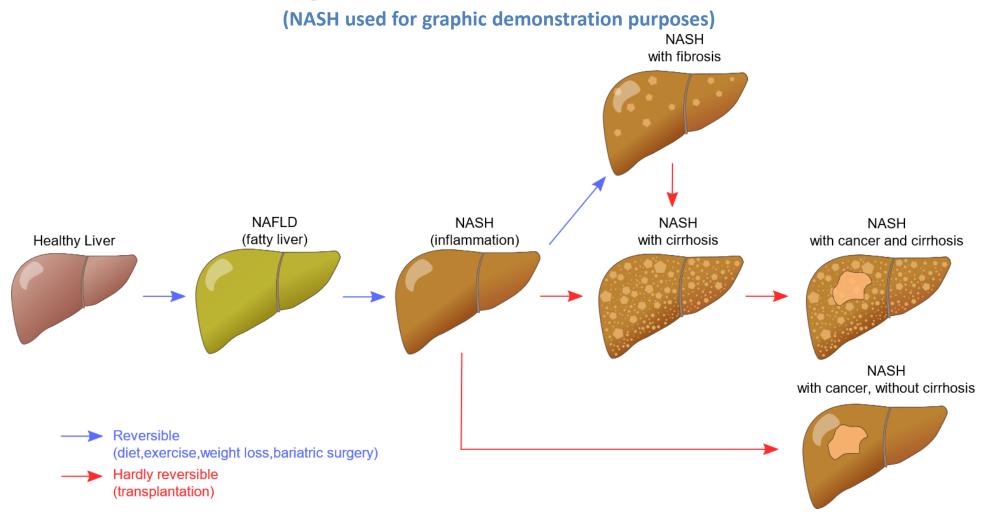
\*some required by IDSA algorithm, some by individual insurers

#### Vaccinate!

- > Hep A (if nonimmune)
- > Hep B (if nonimmune)
- > Annual influenza
- > COVID-19
- > Pneumococcal (if cirrhotic)



#### **Stages of Liver Fibrosis**





#### **Evaluate for Cirrhotic Liver Disease**

- Calculate lab scores: FIB-4, APRI
- > Utilize serum fibrosis marker panel (e.g. Fibrosure<sup>®</sup>)
- Calculate Child-Turcotte-Pugh score + look for existing clinical evidence: liver nodularity or splenomegaly on prior imaging, low platelets
- If any above are elevated, assess with transient elastography specific ultrasound
- Liver biopsy is not necessary







#### **Refer?**

- Outcomes for primary care treatment of uncomplicated HCV compare to subspecialty care
- National Academy of Sciences recommends tx in primary care to decrease barriers
- > In 2015 Maine had 50 GI & 25 ID docs
- Maine Medical Center runs a Project ECHO for less straightforward Primary Care cases



# **Exclusions for Primary Care Tx**

- Cirrhosis/advanced fibrosis
- > Hep B or HIV Co-infection
- > Prior HCV tx (not 'treatment naïve')
- > Pregnant
- eGFR <30 (although glecaprevir/pibrentasvir (Mavyret<sup>®</sup>) OK)
- > Suspicion of HCC (hepatocellular carcinoma)
- Liver transplantation







## **Goal & Treatment Recommendations**

- > Attain SVR->Sustained Virologic Response (cure)
- "The AASLD/IDSA guidance on hepatitis C is supported by the membership-based societies and not by pharmaceutical companies or other commercial interests."
- Evidence-based recommendations for rapidly changing landscape, "living document" so best to check online resource (not printed)



One page simplified HCV treatment algorithm & comprehensive resources



#### NOW AVAILABLE Download: Simplified HCV Treatment\* for Treatment-

### Naive Patients

Without Cirrhosis - Click here to

download the PDF, or read more.

With Compensated Cirrhosis - Click here to download the PDF, or read more.



# Why Treat?

- > SVR decreases the incidence of
  - diabetes
  - glomerulonephritis
  - non-Hodgkin's lymphoma
  - stroke
- > SVR can reverse liver fibrosis & prevent cirrhosis



# Why Treat?

Consistent association w/SVR & improved health outcomes

- decreased all-cause mortality
- liver disease mortality
- cirrhosis
- hepatocellular carcinoma



# **Prior to Initiating Treatment**

- Stage hepatic fibrosis/liver disease severity
- > Educate patient on crucial importance of medication adherence
- Evaluate contraception
- Check drug-drug interactions (Univ of Liverpool checker or pharmacist consult)
- Consider partnering with a specialty pharmacy or clinical pharmacist



# **Reflection question**

Assuming Will qualified for the simplified treatment protocol, would you feel comfortable treating him in your office?



- > A. Yes, with MICIS resources
- B. Yes, with some additional work and planning over the next 6 mos
- C. No, I plan to continue to refer to subspecialty care
- D. N/A—I do not practice in a Primary Care/OUD Setting



Evaluate Treatments



### Cost

- Expense of tx partly offset by high liver-related healthcare expenditures later in life for those untreated
- Covered by MaineCare with PA-subspecialty consult no longer required for uncomplicated cases
- > Insurers generally have negotiated drug discounts
- Patient assistance programs available from most manufacturers; labs + other costs involved if uninsured



# Two Primary Simplified Treatments Treat All Genotypes

- > DAAs-Direct-acting antivirals
- > glecaprevir/pibrentasvir (Mavyret<sup>®</sup>) x8w
- sofosbuvir/velpatasvir (Epclusa<sup>®</sup> or generic) x12w
- > HA, fatigue, nausea in <10% but generally well tolerated



### Cost

- Generic versions of sofosbuvir/velpatasvir (Epclusa<sup>®</sup>) & others now available
- > Wholesale acquisition cost (WAC) per day
  - sofosbuvir/velpatasvir (generic) \$240
  - –glecaprevir/pibrentasvir (Mavyret<sup>®</sup>) \$417
  - —sofosbuvir/velpatasvir (Epclusa<sup>®</sup>)
  - range of others:

\$650-1125

\$890







## **Post-treatment Recommendations**

- HCV viral load should be undetectable (indicates virologic cure) 12 weeks post completion
- > No ongoing liver follow up needed (if noncirrhotic)
- If ongoing risk of HCV re-infection, check viral load annually or if elevated LFTs
- > HCV Ab remains positive lifelong-thus check viral load
- > Advise avoidance of 'excess' alcohol



## Wrap-Up-Additional MICIS Resources

### > MICISMAINE.ORG

- Request form for Hep C "Level 2" CME session
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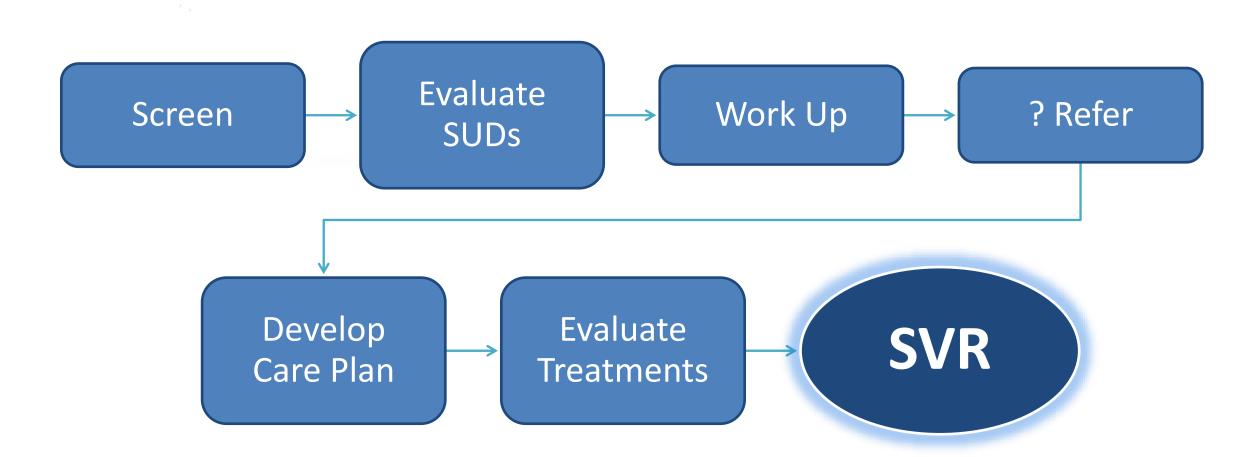


# Wrap-Up

- > How to obtain CME credit for today
- Individual CME sessions also available from MICIS
  - HCV Treatment Level 2
  - 4 different hours of Opioid/MAT topics



### Pathway to HCV Cure - 2021













## **Review – Video from West Australia**

