

Viral Hepatitis In People Living with HIV: A Case-based Primer

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Faculty Disclosure

 Dr. Chastain has received prior grant/research support paid to his academic institution by Gilead Sciences, Inc.



Objectives

At the end of this session, the learner will be able to:

- Recognize the impact of viral hepatitis among people living with HIV;
- Discuss key concepts including hepatitis B virus (HBV) and hepatitis C virus (HCV) treatment eligibility, drug-drug interactions, and hepatocellular carcinoma screening in people living with HIV;
- Identify resources to assist with evaluation and management of viral hepatitis in the Southeast AETC region.





HEPATITIS C

EDUCATION ● TRAINING ● CONSULTATIVE SUPPORT ● CO-MANAGEMENT

Southeast Viral Hepatitis Interactive Case Conference

REGISTER

October 23rd, 2019

12:00 pm - 1:00 pm CST / 1:00 pm - 2:00 pm EST

ANNOUNCING A NEW SOUTHEAST AETC Regional Initiative:

Southeast Viral Hepatitis Interactive Case Conference (SVHICC)

Each week a HIV/HCV/PrEP telehealth topic will be presented with an opportunity to present cases and receive feedback or advice from experts in the Southeast.



Chat Box Word Cloud!

• What word or words do you associate with viral hepatitis in people living with HIV?

Enter these words in the chat box as a public comment!



Outline

- Case 1 (Impact of Viral Hepatitis in PLWH)
- Case 2 (HCV in PLWH)
- Case 3 (HBV in PLWH)



Outline

- Case 1 (Impact of Viral Hepatitis in PLWH)
- Case 2 (HCV in PLWH)
- Case 3 (HBV in PLWH)





Baseline Demographics						
Age: 35	Race: White	Gender: Male		Primary Insurance: Ryan White		
PMH/Comorbidities/Substance Use: HIV (CD4 950, recently started on ART with initial HIV RNA of 9,500)						
Pertinent Clinical Findings: None						
Weight (kg):	70	Serum Albumin:	4.0	ALT:	50	
Hgb:	14	Total bilirubin:	0.9	AST:	45	
PLT:	300	INR:	1.0	SCr/CrCl:	1.0 (CrCL >60)	



HCV Evaluation							
Ultrasound: N/A	CT: N/A					MRI: N/A	
Signs of Cirrhosis:	No						
Staging Modality:	Results:	Interpretation	APRI:	0.375			
Fibroscan/Transient		F0-F1					
Elastography:					FIB-4:	0.74	
Fibrosure:							
Treatment Naïve?:	Naïve	If no, previous treatment:		HIV Anti	body:	+ (CD4 950, recent ART)	
HCV Genotype:	1a	HCV RNA:	HCV RNA: 600,000 HAV To		tal Ab:	+	
HBV sAb:	+	HBV sAg: - HBV To		tal cAb:	-		
Requested Regimen:							



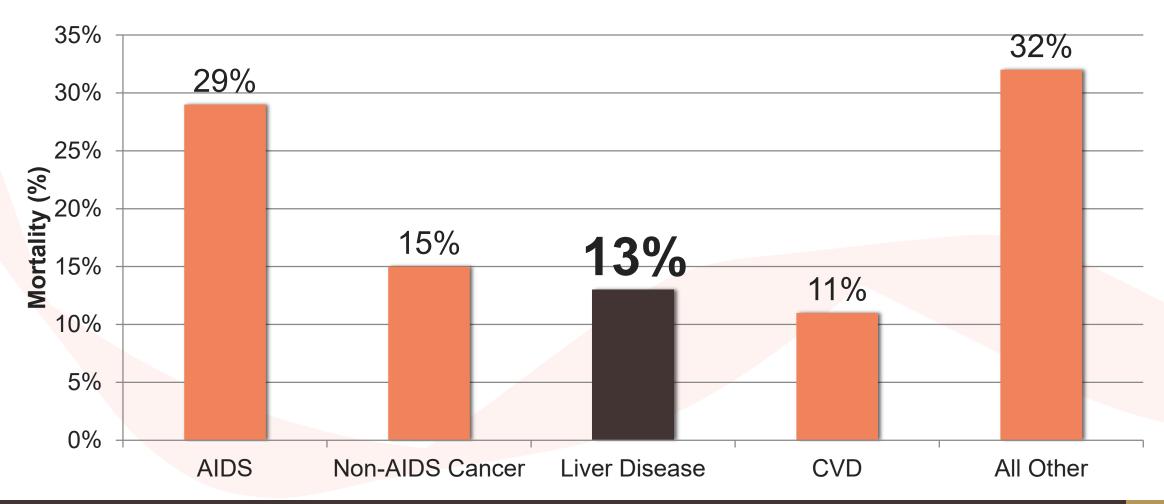
- Medication List:
 - Bictegravir
 - Emtricitabine
 - Tenofovir alafenamide

- Clinical Questions:
 - Is HCV treatment indicated in light of limited disease?
 - If so, when?





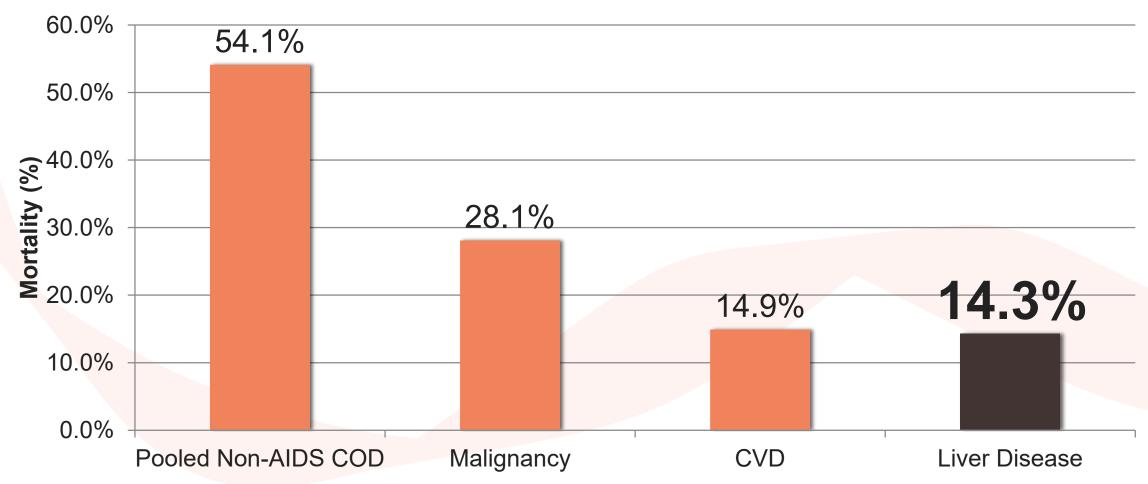
Cause of Death in D:A:D Cohort





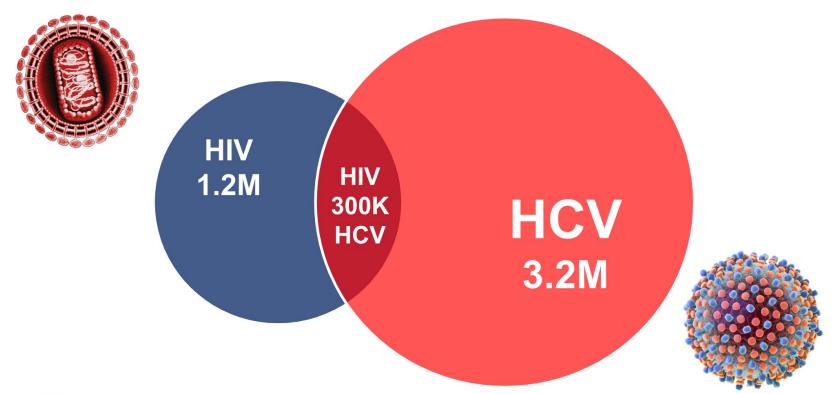


Non-HIV Cause of Death Among PLWH In High Income Countries in PLWH



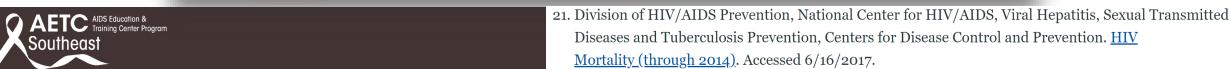


About 25% of PLWH in the U.S. also Have HCV Infection 17,21

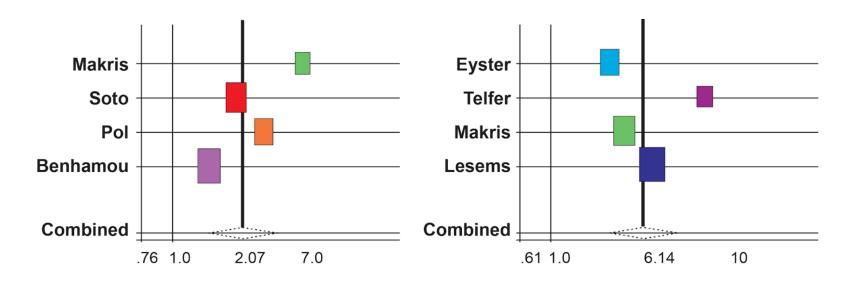




17. Hall HI, Song R, Rhodes P, et al. Estimation of HIV Incidence in the United States. JAMA: the journal of the American Medical Association. 2008;300(5):520-529. PMCID: PMC2919237.



Meta-analysis of the Impact of HIV Infection on the Natural History of Untreated HCV Infection⁴



Relative Risk (95% CI)

RR of Cirrhosis

RR of End Stage Liver Disease

Fierer, 2013





- 3. Fierer DS, Dieterich DT, Fiel MI, et al. Rapid progression to decompensated cirrhosis, liver transplant, and death in HIV-infected men after primary hepatitis C virus infection. Clin Infect Dis. 2013 Apr;56(7):1038-43. PubMed PMID: 23264364.
- 4. Graham CS, Baden LR, Yu E, et al. Influence of human immunodeficiency virus infection on the course of hepatitis C virus infection: a meta-analysis. Clin Infect Dis. 2001 Aug 15;33(4):562-9. PubMed PMID: 11462196.

Factors Associated with Fibrosis Progression in Co-infected Persons²

- Nadir CD4 cell count
- Higher HIV VL
- Higher HCV VL
- Alcohol consumption
- Older age
- Higher BMI







Effects of HIV Infection on HCV Progression: Non-hepatic Effects⁵⁻¹²

- Increased cardiovascular risk
- Increased stroke risk
- Increased renal disease risk
- Increased risk of fractures
- Cerebrospinal fluid HCV RNA correlates positively to neuroinflammation in PLWH

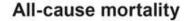


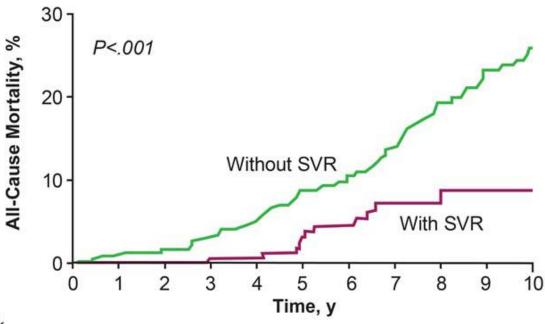


Factors Associated with HCV Accelerated Fibrosis Progression

Host Viral Nonmodifiable HCV genotype 3 Coinfection with hepatitis B virus or HIV Fibrosis stage Inflammation grade Older age at time of infection Male sex Organ transplant **Modifiable** Alcohol consumption Nonalcoholic fatty liver disease Obesity Insulin resistance

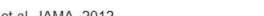
Effective Treatment Will Significantly Reduce Mortality from HCV Infection¹⁴





No. at risk
Without SVR 405 393 392 363 344 317 295 250 207 164 135
With SVR 192 181 168 162 155 144 125 88 56 40 28







Extrahepatic Benefits of HCV SVR

- Metanalysis by P Cacoub
 - Reduced extrahepatic mortality (OR 0.44; 95% CI 0.28–0.67)
 - Reduced insulin resistance (OR 0.42; 95% CI 0.33-0.53)
 - Reduced diabetes incidence (OR 0.34; 95% CI 0.21-0.56)
 - Remission of cryoglobulinemic vasculitis (OR 20.76; 95% CI 6.73-64.05)
 - Response of B-cell lymphoma (OR 6.49; 95% Cl 2.02-20.85)
- ERCHIVES Study
 - Reduced cardiovascular events (OR 0.87; 95% CI 0.77-0.98)
 - Reduced diabetes incidence with DAA (OR 0.48; 95% CI 0.42-0.56)



Case Recommendations

 Treatment is indicated once patient able to engage in and adhere to viral hepatitis care.



Take-Home Points from Webcast #1

 Viral hepatitis (in this case HCV) remains a major contributor to morbidity and mortality among people living with HIV.

 People living with HIV should be treated for HCV when appropriately engaged in care to mitigate HCV-related hepatic and extra-hepatic disease.



QUESTIONS?



Outline

- Case 1 (Impact of Viral Hepatitis in PLWH)
- Case 2 (HCV in PLWH)
- Case 3 (HBV in PLWH)





Baseline Demographics						
Age: 55	Race: Black	Gender: Female		Primary Insurance: Ryan White		
PMH/Comorbidities/Substance Use: HIV (last CD4 550, HIV RNA <20), diabetes mellitus, coronary artery disease						
Pertinent Clinical Findings:						
Weight (kg):	60	Serum Albumin:	3.9	ALT:	125	
Hgb:	13	Total bilirubin:	1.0	AST:	85	
PLT:	250	INR:	1.0	SCr/CrCl:	0.8 (CrCl >60)	



HCV Evaluation								
Ultrasound: No abnormalities	CT: N/A	MRI: N/A						
Signs of Cirrhosis:	No clinical evidence of disease							
Staging Modality:	Results:	Interpretation	on:	APRI:	0.85			
Fibroscan/Transient Elastography:	8.5 kPa	F2		FIB-4:	1.67			
Fibrosure:								
Treatment Naïve?:	Experienced	If no, previous treatment: IFN + RBV		HIV Anti	body:	+ (CD4 550, HIV RNA <20)		
HCV Genotype:	2a	HCV RNA: 9,500,000 HAV		HAV To	otal Ab:	+		
HBV sAb:	+	HBV sAg: - HBV To		otal cAb:	-			
Requested Regimen:	To be determined							



- Medication List:
 - Clopidogrel
 - Cobicistat
 - Darunavir
 - Dolutegravir
 - Emtricitabine
 - Metformin
 - Omega-3 / fish oil
 - Tenofovir alafenamide

- Clinical Questions:
 - What is the most appropriate HCV treatment regimen?
 - Are there concerns for drug-drug interactions?



The American Association for the Study of Liver Diseases and the Infectious Diseases Society of America Present

HCV Guidance: Recommendations for Testing, Managing, and Treating Hepatitis C

Last Updated: May 24, 2018 | www.hcvguidelines.org





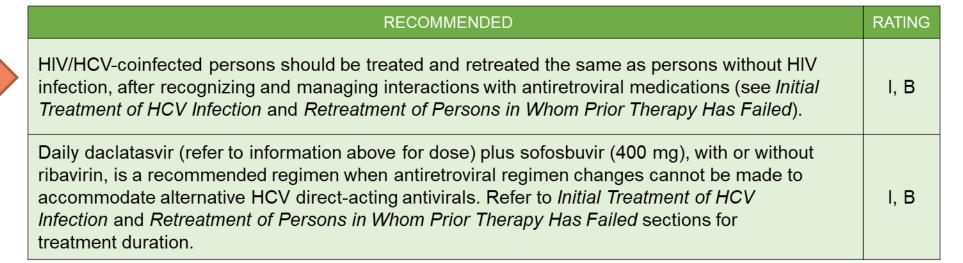
HCV Guidance: Recommendations for Testing, Managing, and Treating Hepatitis C

Patients With HIV/HCV Coinfection





Treatment Recommendations for Patients With HIV/HCV Coinfection



Regimens Not Recommended for Patients With HIV/HCV Coinfection

NOT RECOMMENDED	RATING
Ledipasvir/sofosbuvir for 8 weeks is not recommended, regardless of baseline HCV RNA level.	Ilb, C

FDA Approved HCV Therapies

Nonspecific Antivirals

Interferon (IFN)

Ribavirin (RBV)

Pegylated Interferon (PEG-IFN)

NS3/4 Protease Inhibitors

Telaprevir (TPV)

Boceprevir (BPV)

Simeprevir (SMV)

Paritaprevir (PTV)

Grazoprevir (GZP)

Voxilaprevir (VOX)

Glecaprevir (GLE)

NS5A Inhibitors

Ledipasvir (LDV)

Ombitasvir (OBV)

Daclatasvir (DCV)

Elbasvir (EBV)

Velpatasvir (VEL)

Pibrentasvir (PIB)

NS5B Polymerase Inhibitors

Sofosbuvir (SOF)

Dasabuvir (DBV)





HCV Guidance: Recommendations 1
Testing, Managing, and Treating
Hepatitis C



Home Test, Evaluate, Monitor Treatment-Naive Treatment-Experienced Unique & Key Populations About

Start Here: Choose a patient profile from the menu above.



Recommended and alternative regimens listed by evidence level and alphabetically for:

Peginterferon/Ribavirin-Experienced, Genotype 2 Patients Without Cirrhosis

RECOMMENDED	DURATION	RATING 1
Daily fixed-dose combination of glecaprevir (300 mg)/pibrentasvir (120 mg) ^a	8 weeks	I, A
Daily fixed-dose combination of sofosbuvir (400 mg)/velpatasvir (100 mg)	12 weeks	I, A
ALTERNATIVE	DURATION	RATING 1
Daily daclatasvir (60 mg) ^b plus sofosbuvir (400 mg)	12 weeks	IIa, B

^a This is a 3-tablet coformulation. Please refer to the prescribing information.



^b The dose of daclatasvir may need to be increased or decreased when used concomitantly with cytochrome P450 3A/4 inducers and inhibitors, respectively. Please refer to the prescribing information and the section on HIV/HCV coinfection for patients on antiretroviral therapy.

Drug Interactions Between DAAs and ARV Drugs—Recommended Regimens

Green indicates coadministration is safe; yellow indicates dose change or additional monitoring is warranted; pink indicates combination should be avoided.

	Ledipasvir/ Sofosbuvir (LDV/SOF)	Sofosbuvir/ Velpatasvir (SOF/VEL)	Elbasvir/ Grazoprevir (ELB/GRZ)	Glecaprevir/ Pibrentasvir (GLE/PIB)	Sofosbuvir/Velpatasvir/ Voxilaprevir (SOF/VEL/VOX)
Ritonavir-boosted atazanavir (ATZ)	▲ LDV ▲ ATZ ^a	▲ VEL ▲ ATZª	▲ ELB ▲ GRZ ▲ ATZ	▲ GLE ▲ PIB ▲ ATZ	▲ VOX ▲ ATZ
Ritonavir-boosted darunavir (DRV)	▲ LDV ◀► DRVª	∢► VEL ∢► DRV ^a	▲ ELB ▲ GRZ ◀► DRV	▲ GLE ◀▶ PIB ▲ DRV	▲ VOX ▼ DRV
Ritonavir-boosted lopinavir (LPV)	No dataª	∢► VEL ∢► LPV ^a	▲ ELB ▲ GRZ ◀▶ LPV	▲ GLE ▲ PIB ▲ LPV	No data
Ritonavir-boosted tipranavir (TPV/r)	No data	No data	No data	No data	No data
Efavirenz (EFV)	▼ LDV ▼ EFVª	▼ VEL ▼ EFV	▼ ELB ▼ GRZ ▼ EFV	No data	No data
Rilpivirine (RPV)	∢► LDV ∢► RPV	∢► VEL ∢► RPV	∢► ELB ∢► GRZ ∢► RPV	∢► GLE ∢► PIB ▲ RPV	∢► VOX ▼ RPV
Etravirine (ETV)	No data	No data	No data	No data	No data
Raltegravir (RAL)	∢► LDV ∢► RAL	∢► VEL ∢► RAL	∢► ELB ∢► GRZ ▲ RAL	∢► GLE ∢► PIB ▲ RAL	No data
Cobicistat-boosted elvitegravir (COB)	▲ LDV ▲ COBª	▲ VEL ▲ COBª	▲ ELB ▲ GRZ ▲ COB	▲ GLE ▲ PIB ▲ COB	▲ VOX ▲ COB ^a
Dolutegravir (DTG)	∢► LDV ∢► DTG	∢► VEL ∢► DTG	∢► ELB ∢► GRZ ▲ DTG	▼ GLE ▼ PIB ▲ DTG	No data
Tenofovir Alafenamide (TAF) / Emtricitabine (FTC) /Bictegravir (BIC)	▼ LDV ◀► BIC	No data	No data	No data	∢► VOX ▲ BIC
Maraviroc (MVC)	No data	No data	No data	No data	No data
Tenofovir (TFV) disoproxil fumarate	∢► LDV ▲ TFV°	∢► VEL ▲ TFV ^b	∢► ELB ∢► GRZ ▲ TFV	▲ TFV	▲ TFV ^b
Tenofovir (TFV) alafenamide	∢► LDV ▲ TFV ^d	∢► VEL ▲ TFV ^d	No data	∢► TFV	▲ TFV ^b

^a Caution only with tenofovir disoproxil fumarate. ^b Increase in tenofovir depends on which additional concomitant antiretroviral agents are administered.

^c Avoid tenofovir disoproxil fumarate in patients with an eGFR <60 mL/min; tenofovir concentrations may exceed those with established renal safety data in individuals on ritonavir- or cobicistat-containing regimens. ^d Studied as part of fixed-dose combinations with ledipasvir/sofosbuvir or sofosbuvir/velpatasvir plus TAF, emtricitabine, elvitegravir, and cobicistat.

ART and DAA Drug-Drug Interactions (DDI)

- HIV protease inhibitors, ritonavir and cobicistat
 - Can be part of frequent drug-drug interactions
- Tenofovir disoproxil fumarate (TDF)
 - Drug levels impacted by boosted protease inhibitors, dolutegravir, efavirenz, rilpivirine
 - May warrant additional renal function monitoring
- Older ART not studied with DAA therapy
 - Opportunity to update "older" ART when considering HCV treatment



Tools to Assess DDI

- hcvguidelines.org
- aidsinfo.nih.gov/guidelines
- hiv-druginteractions.org
- hep-druginteractions.org







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A series of mini-lectures on topics including pharmacology, hepatitis and drug-drug interactions

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Interaction tables, treatment selectors, clinical prescribing resources, and pharmacokinetic fact sheets

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@hepinteractions

Follow us on Twitter for interaction news and for the latest additions and changes to the website

Mobile Apps





HIV Website



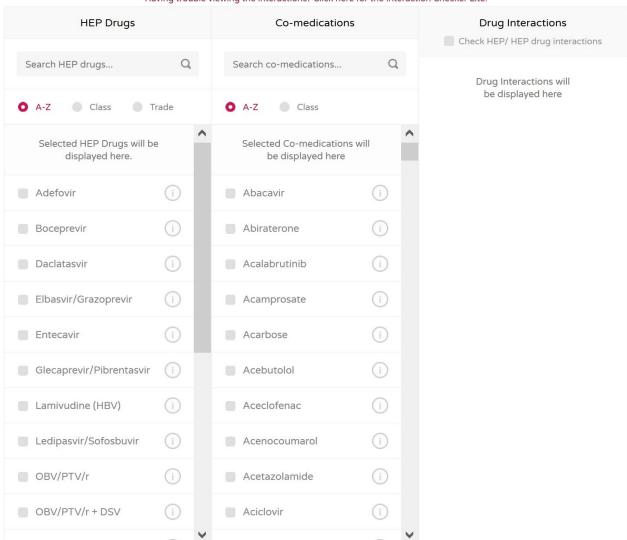
Cancer Website







Having trouble viewing the interactions? Click here for the Interaction Checker Lite.





Drug Interactions Between DAAs

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ARV Drugs—Recon

nded Regimens

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Ritonavir-boosted atazanavir (ATZ)	▲ LDV ▲ ATZ ^a	▲ VEL ▲ ATZª	▲ ELB ▲ GRZ ▲ ATZ	▲ GLE ▲ PIB ▲ ATZ	▲ VOX ▲ ATZ
Ritonavir-boosted darunavir (DRV)	▲ LDV ◀▶ DRVª	∢► VEL ∢► DRV ^a	▲ ELB ▲ GRZ ◀► DRV	▲ GLE ◀▶ PIB ▲ DRV	▲ VOX ▼ DRV
Ritonavir-boosted lopinavir (LPV)	No dataª	∢► VEL ∢► LPV ^a	▲ ELB ▲ GRZ ◀▶ LPV	▲ GLE ▲ PIB ▲ LPV	No data
Ritonavir-boosted tipranavir (TPV/r)	No data	No data	No data	No data	No data
Efavirenz (EFV)	▼ LDV ▼ EFV ^a	▼ VEL ▼ EFV	▼ ELB ▼ GRZ ▼ EFV	No data	No data
Rilpivirine (RPV)	∢► LDV ∢► RPV	∢► VEL ∢► RPV	∢► ELB ∢► GRZ ∢► RPV	∢► GLE ∢► PIB ▲ RPV	∢► VOX ▼ RPV
Etravirine (ETV)	No data	No data	No data	No data	No data
Raltegravir (RAL)	∢► LDV ∢► RAL	∢► VEL ∢► RAL	∢► ELB ∢► GRZ ▲ RAL	∢► GLE ∢► PIB ▲ RAL	No data
Cobicistat-boosted elvitegravir (COB)	▲ LDV ▲ COBª	▲ VEL ▲ COBª	▲ ELB ▲ GRZ ▲ COB	▲ GLE ▲ PIB ▲ COB	▲ VOX ▲ COBª
Dolutegravir (DTG)	∢► LDV ∢► DTG	∢► VEL ∢► DTG	∢► ELB ∢► GRZ ▲ DTG	▼ GLE ▼ PIB ▲ DTG	No data
Tenofovir Alafenamide (TAF) / Emtricitabine (FTC) /Bictegravir (BIC)	▼ LDV ◀► BIC	No data	No data	No data	∢► VOX ▲ BIC
Maraviroc (MVC)	No data	No data	No data	No data	No data
Tenofovir (TFV) disoproxil fumarate	∢► LDV ▲ TFV°	∢► VEL ▲ TFV ^b	∢► ELB ∢► GRZ ▲ TFV	▲ TFV	▲ TFV ^b
Tenofovir (TFV) alafenamide	◄► LDV ▲ TFV ^d	∢► VEL ▲ TFV ^d	No data	∢► TFV	▲ TFV ^b

^a Caution only with tenofovir disoproxil fumarate. ^b Increase in tenofovir depends on which additional concomitant antiretroviral agents are administered.

c Avoid tenofovir disoproxil fumarate in patients with an eGFR ≤60 mL/min; tenofovir concentrations may exceed those with established renal safety data in individuals on ritonavir- or cobicistat-containing regimens. d Studied as part of fixed-dose combinations with ledipasvir/sofosbuvir or sofosbuvir/velpatasvir plus TAF, emtricitabine, elvitegravir, and cobicistat.

Case Recommendations

 SOF/VEL x 12 weeks preferred based on current drugdrug interaction profile

Or

 GLE/PIB x 8 weeks if HIV ART modified to mitigate drugdrug interactions



Take-Home Points from Webcast #2

- HIV/HCV coinfected patients should be treated the same as HCV monoinfected patients (other than accounting for drug-drug interactions with antiretroviral therapy).
- Multiple resources, including <u>www.hcvguidelines.org</u> and the University of Liverpool's drug interaction tools <u>www.hiv-druginteractions.org</u> and <u>www.hep-</u> <u>druginteractions.org</u>, can assist in treatment selection.



QUESTIONS?



Outline

- Case 1 (Impact of Viral Hepatitis in PLWH)
- Case 2 (HCV in PLWH)
- Case 3 (HBV in PLWH)





Case 3

Baseline Demographics							
Age: 60	Race: Black	Gender: Male		Primary Insurance: Ryan White			
PMH/Comorbidities/Substance Use: HIV (CD4 600, HIV RNA <20, on ART), HBV, prior alcohol use disorder							
Pertinent Clinical Findings: None							
Weight (kg):	80	Serum Albumin:	4.1	ALT:	45		
Hgb:	15	Total bilirubin:	1.2	AST:	40		
PLT:	100	INR:	1.0	SCr/CrCl:	1.0 (CrCl >60)		



Case 3

HBV Evaluation							
Ultrasound: N/A	CT: Nodular conto	MRI: N/A					
Signs of Cirrhosis:	None						
Staging Modality:	Results:	Interpretation:			APRI:	1.0	
Fibroscan/Transient Elastography:					FIB-4:	3.58	
Fibrosure:							
N/A		N/A		HIV Ar	ntibody:	+ (CD4 600, HIV RNA <20)	
HCV Ab:	+	HCV RNA:	Not detect	HAV	Total Ab:	+	
HBV sAb:	-	HBV sAg:	+	HBV cAb:	Total	+	
Requested Regimen:	Management?)					



Case 3

- Medication List:
 - Cobicistat
 - Darunavir
 - Emtricitabine
 - Tenofovir alafenamide

- Clinical Questions:
 - What interventions or management is needed in people coinfected with HBV and HIV?





HBV Risk Factors

 Transmitted by blood and body fluids

~10% of HIV patients are co-infected with HBV

Who is at risk?

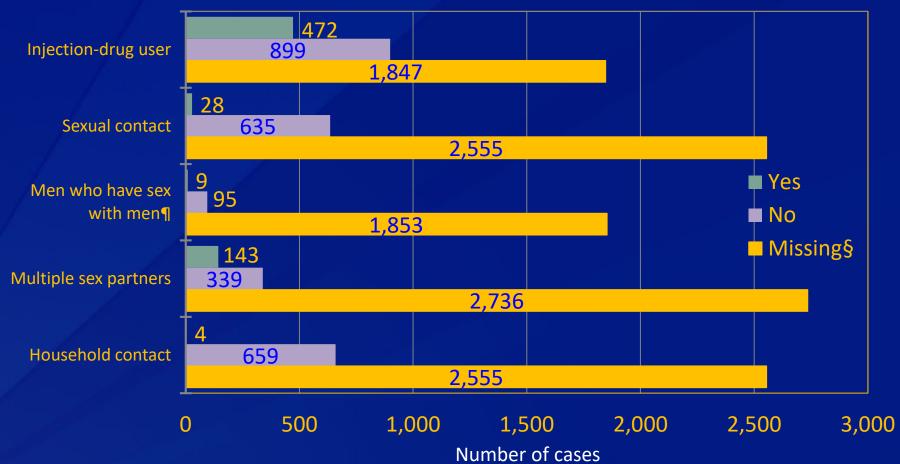
Although anyone can get Hepatitis B, some people are at greater risk, such as those who:

- Have sexual contact with an infected person
- Have multiple sex partners
- Have a sexually transmitted disease
- Are men who have sexual encounters with other men
- Inject drugs or share needles, syringes, or other injection equipment
- Live with a person who has Hepatitis B
- Are on hemodialysis
- Are exposed to blood on the job
- Are infants born to infected mothers





Figure 3.6a. Acute hepatitis B reports*, by risk exposure/behavior† — United States, 2016



*A total of 3,218 case-reports of acute hepatitis B were received in 2016.

§ No risk data reported.

¶A total of 1,957 acute hepatitis B cases were reported among males in 2016. Source: National Notifiable Diseases Surveillance System (NNDSS)



[†] More than one risk exposure/behavior may be indicated on each case-report.

HBV Treatment

- Acute infection is not usually treated as most patients clear infection
- Chronic infection MAY require therapy in some patients.
- Available Agents:
 - Interferon alfa-2b (Intron A®)
 - Telbivudine (Tyzeka®)
 - Lamivudine (Epivir®)
 - Emtricitabine (Emtriva®)
 - Adefovir (Hepsera®)
 - Entecavir (Baraclude®)
 - Tenofovir (Viread® and Vemlidy®)





Chronic HBV Management Pearls

- Some patients with chronic HBV without active inflammation do not benefit from treatment.
- Patients with other chronic viral infections (i.e. HCV and HIV) should receive HBV treatment regardless of HBV disease activity.
- Patients with chronic HBV and cirrhosis should receive HBV treatment regardless of HBV disease activity.
- Patients with HBV should have liver fibrosis staged in order to determine appropriate liver-related care.



Indications for Hepatocellular Carcinoma (HCC) Monitoring

- AASLD
 - All patients with cirrhosis
 - Prior recommendations (2010) included:
 - HBV-infected Asian females > 50 years old
 - Asian men >40 years old
 - African and North American blacks
 - Those with family history of HCC.
 - Most recent guidelines (2017) have no recommendations for HCC surveillance in noncirrhotic patients.
- EASL
 - All patients with cirrhosis
 - All patients with advanced fibrosis (F3)
 - Non-cirrhotic HBV patients at intermediate or high risk of HCC (based on scoring system)



Hepatocellular Carcinoma (HCC) Screening

 Ultrasound every 6 months with or without alphafetoprotein

• Alternatives:

- Computed tomography with triple-phase contrast every 12 months
- Magnetic resonance imaging with contrast every 12 month



Does HIV Coinfection Impact HBV HCC Screening Recommendations?

- HIV associated with higher rates of HCC
- Mixed past opinion whether HIV alone is sufficient to warrant HCC screening
- All patients with cirrhosis in any combination with HBV and/or HIV warrant HCC screening
 - Study in the Europe demonstrated 14-18% appropriate screening rate even with these limited but definitive criteria. (Willemse S et al. JVH 2019.)



While on the subject... what about HCV?

HCV → fibrosis → cirrhosis → HCC

 HCC screening is NOT recommended when limited fibrosis (F0-F2) present

 HCC screening IS recommended if advanced fibrosis is present (F3-F4) EVEN IF HCV has been treated





No Association Between Screening for Hepatocellular Carcinoma and Reduced Cancer-Related Mortality in Patients With Cirrhosis



Andrew M. Moon,¹ Noel S. Weiss,⁵ Lauren A. Beste,³ Feng Su,² Samuel B. Ho,⁶ Ga-Young Jin,⁴ Elliott Lowy,⁴ Kristin Berry,⁴ and George N. Ioannou^{2,4}

¹Division of Gastroenterology and Hepatology, University of North Carolina School of Medicine, Chapel Hill, North Carolina; Divisions of ²Gastroenterology and ³General Internal Medicine, Veterans Affairs Puget Sound Healthcare System and University of Washington, Seattle, Washington; ⁴Research and Development, Veterans Affairs Puget Sound Healthcare System, Seattle, Washington; ⁵Department of Epidemiology, University of Washington, Seattle, and Fred Hutchinson Cancer Research Center, Seattle, Washington; and ⁶Division of Gastroenterology, Veterans Affairs San Diego Healthcare System and University of California, San Diego, California



Case Recommendations

- Check HBV DNA to ensure appropriate treatment goal achieved
- Ensure that future ART incorporates and addresses HBV
- Ensure appropriate HCC monitoring and advanced fibrosis care



Take-Home Points from Webcast #3

 HIV therapy often appropriately addresses HBV coinfection, but this should be specifically considered and addressed.

 Patients with HBV/HIV coinfection may warrant HCC screening depending on liver fibrosis status and other demographic factors.



QUESTIONS?





HEPATITIS C

EDUCATION ● TRAINING ● CONSULTATIVE SUPPORT ● CO-MANAGEMENT

Southeast Viral Hepatitis Interactive Case Conference

REGISTER

October 23rd, 2019

12:00 pm - 1:00 pm CST / 1:00 pm - 2:00 pm EST

ANNOUNCING A NEW SOUTHEAST AETC Regional Initiative:

Southeast Viral Hepatitis Interactive Case Conference (SVHICC)

Each week a HIV/HCV/PrEP telehealth topic will be presented with an opportunity to present cases and receive feedback or advice from experts in the Southeast.



Summary

- Viral hepatitis is a major cause or morbidity and mortality in people living with HIV
- Management of HBV and HCV can be combined with appropriate HIV care.
- There are AETC as well as other tools and resources to facilitate viral hepatitis care in people living with HIV



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THANK YOU!

QUESTIONS?

