Live Virtual Symposium: At-Risk Patients Hidden in Plain Sight: Real-World Strategies for Screening and Treating Hepatitis B Virus

Premiere Date: Wednesday, April 29, 2020 6:30 PM - 8:00 PM ET (live) Credit Expiration Date: Thursday, April 29, 2021

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LIVE FACULTY: Joseph Ahn, MD, MS, MBA and Amy Shen Tang, MD

CHAIR: Kris V. Kowdley, MD, FACP, FACG, AGAF, FAASLD

Take advantage of our LIVE Q&A segment during this webcast!

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INFORMATION FOR PARTICIPANTS

Statement of Need

Chronic hepatitis B virus (HBV) remains a global epidemic, resulting in significant morbidity and mortality. In 2015, there were 257 million people worldwide infected with HBV. In 2016, only 10.5% were diagnosed, with only 16.7% receiving treatment, and without intervention, there are 19 million deaths anticipated by the end of 2020. These numbers are startling as they exist despite the availability of effective treatment, and this is in part due to lack of clinician knowledge on screening and managing patients with HBV as well as lack of ability to foster retention for wrap-around services.

In 2018, The American Association for the Study of Liver Diseases released an updated guidance document for the prevention, diagnosis, and treatment of chronic HBV, including recommendations for screening, testing, counseling, and use of the newest antiviral treatment. Early detection is imperative for prevention and treatment, and this puts internists and primary care clinicians on the front lines to reduce HBV's global disease burden.

In this CME Outfitters virtual symposium, expert faculty will utilize augmented reality to add visualization to their discussion of how to implement routine screening protocols for HBV in primary care settings, how to optimize the efficacy and safety profiles of current agents, and the importance of providing culturally appropriate counseling and support services to patients, which will ensure understanding of their disease and promote retention in care.

Learning Objectives

At the end of this CME/CE activity, participants should be able to:

- Implement routine screening protocols for HBV in primary care settings and utilize results to drive guideline-directed care.
- Optimize efficacy and safety profiles of current agents when initiating or switching treatment in patients with HBV.
- Provide culturally appropriate counseling and support services to patients in order to ensure understanding of their disease and promote retention in care.

The following learning objectives pertain only to those requesting CNE or CPE credit:

- Explain routine screening protocols for HBV in primary care settings and how to utilize results to drive guideline-directed care.
- Describe efficacy and safety profiles of current agents for initiating or switching treatment in patients with HBV.
- Discuss culturally appropriate counseling and support services for patients in order to ensure understanding of their disease and promote retention in care.

Target Audience

Internists, primary care physicians, physician assistants, nurse practitioners, nurses, and pharmacists

Financial Support

Supported by an educational grant from Gilead Sciences, Inc.

CREDIT INFORMATION

CME Credit (Physicians)

CME Outfitters, LLC, is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians. CME Outfitters, LLC, designates this live activity for a maximum of 1.5 AMA PRA Category 1 Credit(s)^M. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

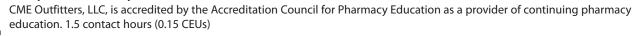
Note to Physician Assistants: AAPA accepts certificates of participation for educational activities certified for AMA PRA Category 1 Credit[™] from organizations accredited by the Accreditation Council for Continuing Medical Education.

CNE Credit (Nurses)

Provider approved by the California Board of Registered Nursing, Provider Number CEP 15510, for 1.5 contact hours.

Note to Nurse Practitioners: Nurse practitioners can apply for AMA PRA Category 1 Credit[™] through the American Academy of Nurse Practitioners (AANP). AANP will accept AMA PRA Category 1 Credit[™] from organizations accredited by the Accreditation Council for Continuing Medical Education. Nurse practitioners can also apply for credit through their state boards.

CPE Credit (Pharmacists)



Universal Activity Number: Live: 0376-0000-20-083-L01-P; Enduring: 0376-0000-20-083-H01-P Type: knowledge-based

ABIM/MOC Credit

Successful completion of this CME activity, which includes participation in the evaluation component, enables the participant to earn up to 1.5 MOC points in the American Board of Internal Medicine's (ABIM) Maintenance of Certification (MOC) program. Participants will earn MOC points equivalent to the amount of CME credits claimed for the activity. It is the CME activity provider's responsibility to submit participant completion information to ACCME for the purpose of granting ABIM MOC credit.

Learning Formats: Live activity. Enduring material.

Royal College MOC

Through an agreement between the Accreditation Council for Continuing Medical Education and the Royal College of Physicians and Surgeons of Canada, medical practitioners participating in the Royal College MOC Program may record completion of accredited activities registered under the ACCME's "CME in Support of MOC" program in Section 3 of the Royal College's MOC Program.

MIPS Improvement Activity

This activity counts towards MIPS Improvement Activity requirements under the Medicare Access and CHIP Reauthorization Act of 2015 (MACRA). Clinicians should submit their improvement activities by attestation via the CMS Quality Payment Program website.

CREDIT REQUIREMENTS

Post-tests, credit request forms, and activity evaluations must be completed online (requires free account activation), and participants can print their certificate or statement of credit immediately (75% pass rate required). This website supports all browsers except Internet Explorer for Mac. For complete technical requirements and privacy policy, visit https://www.cmeoutfitters.com/privacy-and-confidentiality-policy.

There is no fee for participation in this activity. The estimated time for completion is 90 minutes. Questions? Please call 877.CME.PROS.

FACULTY BIOS & DISCLOSURES

Kris V. Kowdley, MD, FACP, FACG, AGAF, FAASLD (Chair)

Dr. Kowdley received his BS in Biology and Anthropology as a member of the Dean's List at Columbia University, and his medical degree from Mount Sinai School of Medicine. He completed his internship and residency at Oregon Health Science University and a Fellowship in Gastroenterology and Hepatology at Tufts University School of Medicine.

Dr. Kowdley is internationally recognized as a clinician, educator, and researcher in the area of liver disease and has presented his research on liver diseases at more than 165 national and international meetings and scientific symposia. He is the author of over 450 articles, book chapters, reviews, and commentaries in this area, with publications in the Annals of Internal Medicine, Archives of Surgery, Gastroenterology, Hepatology, American Journal of Physiology, and New England Journal of Medicine, among other professional publications.

Dr. Kowdley has extensive experience in clinical trials in all areas of liver disease, including hepatitis C, cholestatic liver disease, primary biliary cirrhosis (PBC), primary sclerosing cholangitis (PSC), nonalcoholic steatohepatitis, and hepatitis B. He has been a principal investigator in several NIDDK-sponsored clinical trials in PBC and PSC and is a member of executive committee of the nonalcoholic steatohepatitis clinical research network (NASH CRN). Dr. Kowdley has also served as the lead investigator of several major international clinical trials in hepatitis C.

Dr. Kowdley's laboratory program is focused on the role of iron as a co-factor in many liver diseases, including hepatitis C, hemochromatosis, and nonalcoholic steatohepatitis (NASH). He has developed murine models for NASH and is currently exploring the contribution of hepatic iron deposition on the severity of NASH.

Dr. Kowdley's research program has been continuously funded by the NIDDK since 1999 in addition to several grants from foundations and scientific societies.

Joseph Ahn, MD, MS, MBA

Dr. Ahn is a transplant hepatologist with Oregon Health & Science University (OHSU) in Portland, Oregon. He is a Professor of Medicine and serves as the Section Chief of Gastroenterology and Director of Clinical Hepatology. Prior to joining OHSU, he was the Medical Director of Liver Transplant and Associate Chief of Hepatology at Loyola University in Chicago, Illinois.

Dr. Ahn is board certified in internal medicine, gastroenterology, and transplant hepatology. He received his medical degree from Northwestern University and completed his residency in internal medicine at the University of Chicago. He trained at Northwestern University as a fellow in hepatology and gastroenterology.

As a transplant hepatologist, Dr. Ahn treats patients with chronic liver diseases as well as liver transplant candidates and recipients. His research interest is focused on hepatitis B, hepatitis C, and liver cancer.

Amy Shen Tang, MD

Amy Shen Tang, MD, is a primary care internist and the new Director of Immigrant Health at North East Medical Services (NEMS) in the San Francisco Bay Area where she oversees clinical programs and community outreach for hepatitis B, latent tuberculosis, and other immigrant health disparities.

Prior to joining NEMS, she served as the Hepatitis B Program Director at Charles B. Wang Community Health Center in New York City where she oversaw hepatitis B clinical care, research, community outreach, and education. She currently serves as Co- Chair for the National Hepatitis B Primary Care Workgroup and Advisor to the National Taskforce on Hepatitis B where she leads a workgroup of hepatitis B experts from the American Association of Study of Liver Diseases, the Center for Disease Control, Project ECHO, and the University of Washington to develop web-based hepatitis B guidance for primary care providers managing chronic hepatitis B. Dr. Tang has also served as a hepatitis B clinical advisor for the CDC Viral Hepatitis Division, National Association of Community Health Centers, New York City Department of Health, and HBV Project ECHO.

She received her medical degree from the University of California San Francisco School of Medicine and completed her primary care internal medicine residency at NYU School of Medicine and Bellevue Hospital.

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Dr. Kowdley reports he receives research support from Conatus Pharmaceuticals Inc.; CymaBay Therapeutics.; Enanta Pharmaceuticals, Inc.; Genfit; Gilead Sciences, Inc.; GlaxoSmithKline; HighTide Therapeutics Inc.; Intercept Pharmaceuticals, Inc.; and Zydus Pharmaceuticals, Inc. He serves on the advisory committee for Assembly Biosciences, Inc.; Blade Therapeutics; Boehringer Ingelheim; Merck & Co., Inc.; and Roche. He is on the speakers bureau for AbbVie Inc.; Gilead Sciences, Inc.; and Intercept Pharmaceuticals, Inc.

Dr. Ahn reports he serves on the advisory committee for Gilead Sciences, Inc.

Dr. Tang has no disclosures to report.

Jeffrey Helfand, DO (peer reviewer) has no disclosures to report.

Mae Ochoa, RPh (peer reviewer) has no disclosures to report.

Kashemi D. Rorie, PhD (planning committee) has no disclosures to report.

Susan Perry (planning committee) has no disclosures to report.

Jan Perez (planning committee) has no disclosures to report.

Sharon Tordoff (planning committee) has no disclosures to report.

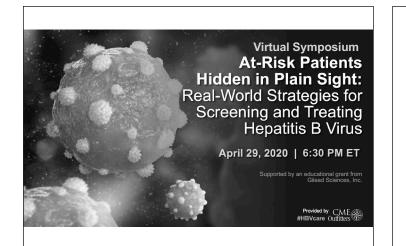
Disclosures were obtained from the CME Outfitters, LLC staff: No disclosures to report.

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- Complete your post-test and evaluation at the conclusion of the webcast
- 3. Be sure to fill in your **ABIM ID number** and **DOB** (MM/DD) on the evaluation, so we can submit your credit to ABIM.

CME MOC

CME for MIPS Improvement Activity

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- Over the next 90 days, actively work to incorporate improvements in your clinical practice from this presentation.
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CME Outfitters will send you confirmation of your participation to submit to CMS attesting to your completion of a CME for MIPS Improvement Activity.

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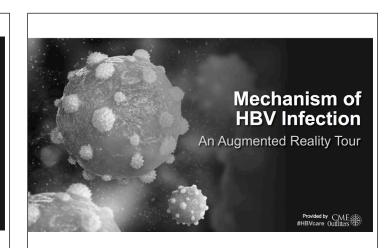
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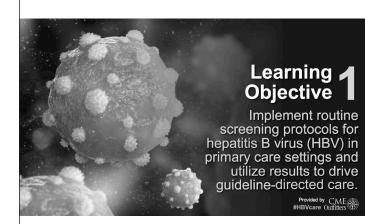
Section Chief, Division of Gastroenterology and Hepatology Director of Clinical Hepatology

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Provided by CME



The HBV Burden: Call to Action

- Globally, an estimated 292 million persons (3.9% prevalence) are chronically infected with HBV; most are from Africa, Asia, and the Pacific Islands¹
- Approximately 2 of every 3 persons with chronic HBV are unaware of their infection²
- 25% of those without HBV monitoring or treatment will die prematurely of hepatocellular carcinoma, cirrhosis, or liver failure^{3,4}
- Current HBV treatment can mitigate this risk but only 10%-15% of treatment candidates are on medication⁵

IPolaris Observatory Collaborators. Lancel Gastroenterol Hepatol. 2018;3(6):383-403. *Lin SY, et al. Hepatology. 2007;46:1034-1040. *McMahon BJ. Hepatology. 2008;49:S45:S55. *McMahon BJ, et al. Clin Liver Dis. 2010;14:381-396. *Cohen C, et al. J Viral Hepat. 2011;18:377-383. *Williams Wive et al. MMWR very et al. MMWR zwerell Summ. 2017;66:1-28.

We Can Do Better

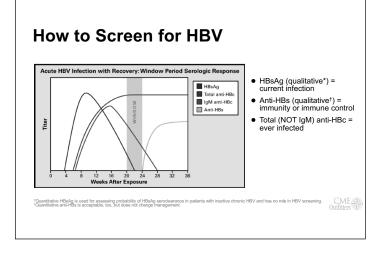
Primary care providers are equipped to **screen**, **vaccinate**, and **monitor** persons at increased risk for HBV

- 1. Screen and vaccinate as part of routine preventative care
- 2. Monitor liver enzymes and HBV DNA every 6 months for patients with chronic HBV
- 3. Screen for liver cancer (HCC) with ultrasound

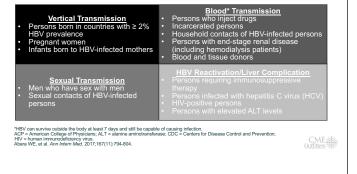
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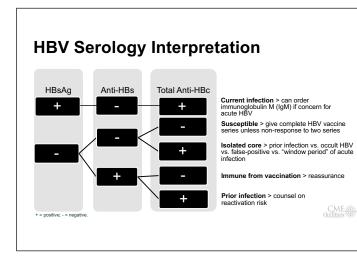
Real-World Screening of Asian American Patients for Hepatitis B, New York City 1997-2017

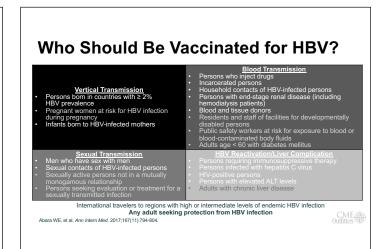
Characteristic Subcategory	Ever Infection,* No. (Row %)	Current Infection [†] No. (Row %)							
Ge	General Screening Population								
Total	Total 13,326 (52.1)								
Household contacts	544 (70.4)	168 (21.7)							
Family history of HBV	326 (75.6)	209 (48.5)							
	S	ex							
Female	Female 6,986 (48.4)								
Male	6,340 (56.9)	1,838 (16.5)							
	Preferred Language								
English	619 (17.1)	152 (4.2)							
Mandarin	6,644 (60.0)	1,796 (16.2)							
Cantonese	2,407 (47.6)	425 (8.4)							
Other	92 (24.9)	22 (6.0)							
Unknown	3,564 (65.4)	1,042 (19.1)							

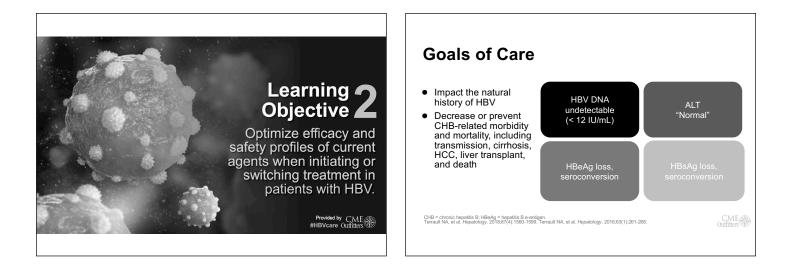


ACP-CDC Screening Recommendations by HBV Transmission Risk Factors









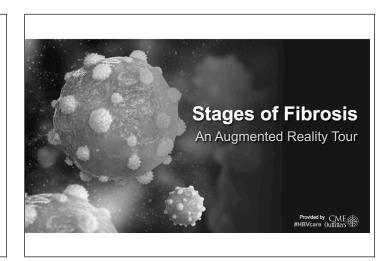
What Are We Hoping to Accomplish with Treatment?

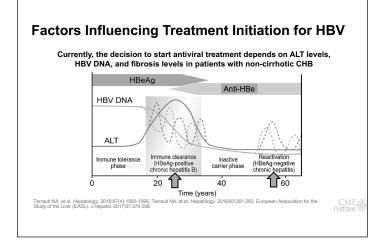
Decrease the morbidity and mortality related to CHB, particularly:

- Achieve sustained suppression of HBV replication
- Reduce the risk of progression to cirrhosis- and liver-related complications, including HCC
- Improve long-term survival

Terrault NA, et al. Hepatology. 2018;67(4):1560-1599. Terrault NA, et al. Hepatology. 2016;63(1):261-268

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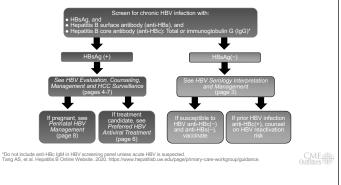


AASLD/EASL Guidelines

	ŀ	BeAg Posit	HBeAg Negative						
Guideline	HBV DNA, IU/mL			HBV DNA, IU/mL	ALT	Liver Disease			
AASLD ^{1,2}	> 20,000	≥ 2 x ULN	N/A	≥ 2,000	≥2 x ULN	N/A			
AASLD	N/A	N/A	Cirrhosis	N/A	N/A	Cirrhosis			
EASL ³	> 2,000	> ULN*	Moderate inflammation or fibrosis*	> 2,000	> ULN*	Moderate inflammation or fibrosis*			
	> 20,000	> 2 x ULN	N/A	> 20,000	> 2 x ULN	N/A			
	N/A	N/A	Cirrhosis	N/A	N/A	Cirrhosis			
Use liver biopsy or transient elastography to detect fibrosis/inflammation in unclear situations									
AASLD = Amarican Association for the Study of Liver Diseases. Terrarult NA, et al. Hepatology. 2016;67(4):1960-1599. "Terrault NA, et al. Hepatology. 2016;63:261-283. "EASL J Hepatol. 2017;67:370-398. Outfilters									

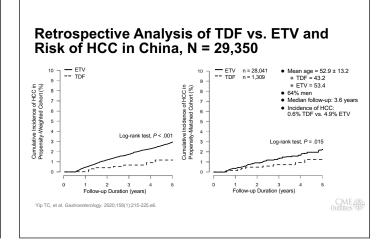
AASLD Guidelines: Initial Treatment Treatment Preferred Notes Yes (unless previous history of lamivudine resistance) High potency, high genetic barrier to resistance ETV High potency, Tenofovir Yes high genetic barrier to resistance PegIFN Yes Less safe in patients with cirrhosis Adefovir No Low genetic barrier to resistance Lamivudine No Low genetic barrier to resistance Telbivudine No Low genetic barrier to resistance ETV = entecavir; PegIFN = peginterferon. Terrault NA, et al. Hepatology. 2018;67(4):1560-1599. Terrault NA, et al. Hepatology. 2016;63:261-283.

Chronic Hepatitis B Testing and Management Algorithm for Primary Care Providers (PCPs)



Management of Patients with	HBsAg(+): Tips for PCPs
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Cirrhosis	HBV DNA (IU/mL)	ALT (U/L)	Management
YES	Any	Any	Treat with antiviral medication (page 6) Monitor HBV DNA and ALT every 6 months Refer to specialist for screening endoscopy and, if needed, for other cirrhosis-related complications HCC surveillance (page 7) All patients with decompensated cirrhosis' should be promptly referred to a hepatologist
	> 2,000	Elevated	TREAT with antiviral medication (page 6) Monitor HBV DNA and ALT every 6 months Monitor HBeAg every 6 months in patients who are HBeAg+ at time of treatment initiation to evaluate for seroconversion HBeAg(+) to HBeAg(-) Check HBsAg annuality fifthme HBeAg negative
NO		Normal	Monitor HBV DNA and ALT every 6 months Liver fibrosis assessment every 2-3 years
	< 2,000	Elevated	Evaluate other etiologies for elevated ALT Monitor HBV DNA and ALT every 6 months
		Normal	Monitor HBV DNA and ALT every 6 months and HBsAg every 1 year for seroclearance
epatic encephalop Elevated ALT defin	sathy, a Child-Turco ned as > 25 U/L in fi	tte-Pugh (CTP) s emales and > 35	cirrholis and promptly referred to a hepatologist if any of the following are present; jaundice, asoltes, variosal hemorrhage, core 3.7 (CTP exclusion: UNIC), or a Model to Erick-Stage Liver Desaise (MELD) score 2.15 (MELD exclusion: UNIC) (Www.hepatitie); we du/agetprimery-core-workgroupguidence.



TDF vs. ETV on Prognosis of Treatment-Naïve CHB in South Korea HCC risk Death or OLT risk 1.0 T 1.0 - ETV -- ETV ability 9.8 Alliq proba 0.6 -5.0 Cumulative p Cumulative p value = 0.516 value = 0.98 0.0-0.0 5 0 5 2 4 2 2 3 Follow-up time (years) ∠ 3 Follow-up time (years)
 N° at risk

 ETV
 1,484
 1,424
 1,317
 1,227
 1,065

 TDF
 1,413
 1,375
 1,278
 1,196
 1,020

 N° at risk

 885
 ETV
 1,484

 593
 TDF
 1,413
 1,445 1,364 1,284 1,131 1,393 1,319 1,252 1,095 942 852 OLT = orthotopic liver transplant. Kim SU, et al. J Hepatol. 2019;71(3):456-464.

mpact on Bone and Renal Para witching from TDF to TAF at 4		Patients	
Safety Results at Week 48 by Durat Patients with CHB Who W	ion of Prior TDF		
	< 4 Years n = 105	≥ 4 Years n = 138	P Value
Renal Parameters	•		
Albumin/creatinine ratio, mg/g	+5.5 (-24.1, 41.5)	-5.8 (-37.0, 29.7)	.08
Bone Parameters			-
Serum bone markers, median (Q1, Q3) % change			
C-type collagen sequence, ng/mL (resorption)	-29.8 (-45.8, -14.0)	-28.8 (-42.8, -15.3)	.57
Procollagen type 1 N-terminal propeptide, ng/mL (formation)	-20.4 (-37.5, -7.4)	-17.7 (-29.6, -8.5)	.16
Parathyroid hormone, pg/mL (metabolism)	-9.4 (-27.6, 16.4)	-13.4 (-32.5, 6.8)	.07
Fasting Lipid Parameters	•		
Total cholesterol, median (Q1, Q3) change, mg/dL	20 (6, 31)	19 (5, 33)	.93
Total cholesterol/HDL, median (Q1, Q3) change, mg/dL	0.1 (-0.2, 0.4)	0.3 (-0.1, 0.5)	.08
nan HLY, et al. Hepatology. 2019;70(S1):287A.			CMI

n/N (%) or Median (Q1, Q3)	Moderate-Severe Renal Impairment* (n = 78)	ESRD on HD [†] (n = 15)
Efficacy	,	
HBV DNA < 20 IU/mL	76/78 (97)‡	15/15 (100)
ALT normal (2018 AASLD criteria)	68/78 (87)	14/15 (93)
Bone Parameters		
Hip BMD, % change	+0.48 (-0.96, 1.34)	+0.46 (-0.92, 1.60
Spine BMD, % change	+1.29 (-0.50, 2.84)	+1.34 (-1.25, 2.34
Renal Parameters	1	1
eGFR _{cG} , mL/min	+0.6 (-3.6, 3.6)	

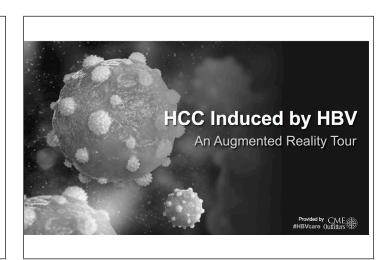
 $\begin{array}{l} {\rm eGFR}_{co}={\rm estimated creatinine clearance} ({\rm Cockcrdt-Gault method}); {\rm ESR}\\ {\rm Moderate-severe renal impairment: eGFR}_{co}, 15 ~< 60 mL/min.\\ {\rm ESRD: eGFR}_{co} < 15 mL/min on hemodialysis.\\ {\rm Two patients discontinued study drug early (withdrew consent) with last a Janssen HLA, et al. Hepatology. 2019;70(51): 306A.\\ \end{array}$ ble HBV DNA < 20 IU/mL



HCC Epidemiology

- Unlike HCV, chronic HBV infection can cause liver cancer in patients without cirrhosis
- Chronic HBV increases the odds of liver cancer 50 to 100 times, hepatitis C 15 to 20 times
- Viral hepatitis has driven the 38% increase in liver cancer in the United States between 2003 and 2012

Bruix J, et al. Hepatology. 2011;53(3):1020-1022. National Academies of Sciences, Engineering, and Medicine. 2017. https://www.nac.edu/read/24731.



HCC Surveillance: Additional Risk Factors

- BCP/PC mutations
- Genotype C
- Coinfection with HCV, HIV, HDV
- Persistently high HBV DNA
- Late HBeAg loss (40+ years)
- Persistent elevation of liver function tests (> 1.5 ULN*)
- Alcohol use, smoking
- Cirrhosis

*Abnormal ALT: male ≥ 35 U/L, female ≥ 25 U/L. Terrault NA, et al. *Hepatology*. 2018;67(4):1560-1599. Bruix J, et al. *Hepatology*. 2005;42:1208-1236. Chan HL, et al. *Gut*. 2004;53(10):1494-1498.

HCC Surveillance Methods

- Liver ultrasound every 6 months
- +/- serum alpha-fetoprotein
- Follow-up MRI or CT of abdomen with and without contrast may be indicated to evaluate suspicious lesions identified on ultrasound
- HCC can be diagnosed by imaging alone

CT = computed tomography; MRI = magnetic resonance imaging. Heimbach JK, et al. Hepatology. 2018;67(1):358-380. Bruix J, et al. Hepatology. 2011;53:1020-1022.

Impact of Monitoring on HCC Mortality in 414,074 Korean Patients with HBV

• 44% reduction in risk of death from liver cancer with regular vs. no follow-up • Significantly higher rate of curative treatment with regular vs. no or irregular follow-un

ioliow-up			
Outcome, n (%)	No Follow-up (n = 79,333)	Irregular Follow-up (n = 239,960)	Regular Follow-up (n = 94,781)
New liver cancer	1258 (14.3)	3834 (43.6)	3707 (42.1)
Liver cancer death	488 (38.8)	1211 (31.6)	856 (23.1)
HR for liver cancer death (95% CI)	Ref	0.869* (0.780-0.968)	0.561 [†] (0.500-0.631)
Curative treatment	190 (15.1)‡	595 (15.5)‡	855 (23.1)

*P < .05. *P < .0001. *P < .001 vs. regular follow-up. Shim J-J, et al. *Hepaology*. 2019;70(S1):105A.

Impact of Monitoring on HCC Mortality in 414,074 Korean Patients with HBV (continued)

Patients with cirrhosis had much higher incidence of HCC than those without cirrhosis

· Among patients without cirrhosis, HCC incidence was highest for those with regular follow-up

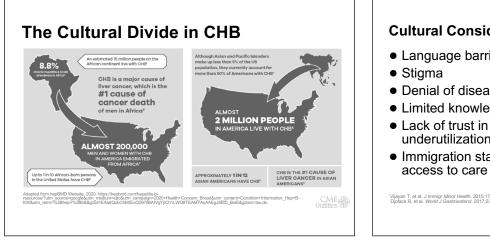
	To (N = 41		Cirrh (n = 26		No Cirrhosis (n = 387,988)		
Patient Group	HCC, n (%) HCC Incidence/ 1,000 PY		HCC, n (%)	HCC Incidence/ 1,000 PY	HCC, n (%)	HCC, Incidence/ 1,000 PY	
All	8,799 (100)	3.19	3,959 (100)	25.00	4,840 (100)	1.86	
No follow-up	1,258 (14.3)	2.34	367 (9.3)	27.82	891 (18.4)	1.70	
Irregular follow-up	3,834 (43.6)	2.39	1298 (32.8)	26.61	2,536 (52.4)	1.63	
Regular follow-up	3,707 (42.1)	6.02	2294 (57.9)	23.79	1,413 (29.2)	2.72	

Counseling the HBsAg(+) Patient: Tips for PCPs

- 1. Give a plan for follow-up care; patients will need regular (minimum every 6 months) follow-up and monitoring for disease progression
- 2 Educate and counsel on the long-term implications of chronic HBV infection (e.g., cirrhosis and hepatocellular carcinoma)
- 3. Advise patient to inform all current and future medical providers of their HBsAg-positive status, especially if they ever need treatment for cancer or any immunologic condition such as rheumatoid arthritis or other immune disorders
- Counsel to avoid or limit alcohol use
- 5 Advise to optimize body weight and address metabolic complications, including control of diabetes and dyslipidemia (to prevent concurrent development of metabolic syndrome and fatty liver)
- 6. Provide education on how to prevent transmission of HBV to others Tang AS, et al. Hepatitis B Online Website, 2020, https://

When to Refer to a Specialist

- All PCPs must screen and vaccinate individuals at increased risk for HBV
- Patients identified with chronic HBV infection must be counseled, monitored, and evaluated for treatment
 - Chronic HBV is a dynamic disease and requires lifelong monitoring by a PCP or a specialist
- All patients identified with HCC or cirrhosis should be referred to a specialist



Cultural Considerations in CHB Management

- Language barriers
- Denial of disease
- Limited knowledge of disease
- Lack of trust in health care systems / underutilization of health care resources
- Immigration status precluding insurance and

Vijayan T, et al. J Immigr Minor Health. 2015;17(1):112–117. Shankar H, et al. Clin Infect Dis. 2016; 62(Suppl 4):S289-S297 Diofack R. et al. World J Gastroenterol. 2017:23(42):7626-7634.

Management Considerations for HBV in the COVID-19 Era: The Role of Telehealth

- Emergency funding legislation waived many of the long-standing restrictions to the use of telehealth for Medicare recipients:
 - Allowing a patient's home to be an eligible originating site;
 - Allowing phones with two-way, real-time interactive audio and visual capabilities to be used;
- And allowing the provider to conduct a telehealth encounter from his/her home Medicare (and some Medicaid programs) will currently reimburse telephone and telehealth visits for both new and established patients ٠
- Providers can bill for telehealth visits at the same rate as in-person visits The Centers for Medicare & Medicaid Services (CMS) has temporarily waived
- the Medicare and Medicaid requirements that physicians and non-physician practitioners be licensed in the state where they are providing services
- Benefits:
 - Lab evaluation/monitoring play greater role in HBV management than physical exam Patients are receptive to telehealth

www.aasld.org/sites/default/files/2020-04/AASLD-COVID19-ClinicalInsights-April162020-FINAL.pd

Telehealth AASLD Recommendations

- · Consider phone visits or telehealth as appropriate and available to replace in-person visits
- Conduct patient education as well as social work, dietitian, and financial consultations by video conference, telehealth, or telephone for liver transplant evaluations
- Consider telehealth alternatives in place of outreach clinics
- Minimize in-person visits for posttransplant patients by • maximizing use of telehealth

AASLD. 2020. https://www.aasld.org/sites/default/files/2020-04/AASLD-COVID19-ClinicalInsights-April162020-FINAL.pdf

SMART Goals

Specific, Measurable, Attainable, Relevant, Timely

- Employ culturally-sensitive strategies to improve the detection and management of HBV
- Screen 100% of your patients at-risk for HBV using appropriate serologic markers (i.e., HBsAg, anti-HBs, and anti-HBc)
- Use recent clinical trial data to drive safe, effective treatment selection when initiating HBV treatment or switching when initial treatment fails
- Monitor all patients with HBV for progression to HCC

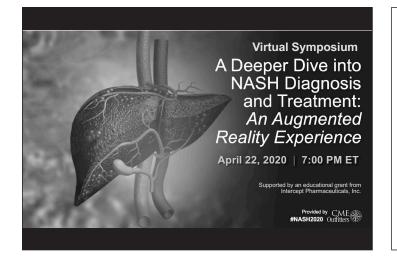
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www.cmeoutfitters.com/TST36646

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CME Outfitters



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- 1. Actively participate in the discussion by responding to ARS and/or asking the faculty questions (It's ok if you miss answering a question or get them wrong, you can still claim MOC)
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- 3. Be sure to fill in your ABIM ID number and DOB (MM/DD) on the evaluation, so we can submit your credit to ABIM. ABIM



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- Complete activity posttest and evaluation at the link provided.
- Over the next 90 days, actively work to incorporate improvements in your clinical practice from this presentation.
- Complete the follow-up survey from CME Outfitters in approximately 3 months

CME Outfitters will send you confirmation of your participation to submit to CMS attesting to your completion of a CME for MIPS Improvement Activity.

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Please complete and FAX to 614.929.3600

Activity Title and Faculty:

Live Virtual Symposium: At-Risk Patients Hidden in Plain Sight: Real-World Strategies for Screening and Treating Hepatitis B Virus with Kris V. Kowdley, MD, FACP, FACG, FASGE, AGAF, FAASLD (Chair); Joseph Ahn, MD, MS, MBA; Amy Shen Tang, MD

Site/Institution Name:									
□ Office-bas Practice Setting: □ Large Gro	ed Green Hospital Up Practice (more than 5)	Clinic	:		5		Small Group Prac		
Address:									
City:									
Site Coordinator:				_Phor	ne:				
Fax:		Ema	il:						
Completion Date:	We partici	pated i	n:						
Attendee Name (please print)				F	Please	Circle	e Discipline		
		MD	DO	PA	NP	RN	Pharm	Other:	

 MD	DO	PA	NP	RN	Pharm	Other:
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