Hepatocellular Carcinoma[™]

Conversations with Oncology Investigators Bridging the Gap between Research and Patient Care

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Hepatocellular Carcinoma™

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Hepatocellular Carcinoma Update

A Continuing Medical Education Audio Series

OVERVIEW OF ACTIVITY

Hepatocellular carcinoma (HCC), the most common form of liver cancer, is the third leading cause of cancer-related deaths worldwide. The rising incidence, multiple etiologies, genetic heterogeneity and concurrent chronic liver disease make the selection of treatment for this cancer challenging. In addition, HCC is often diagnosed in the advanced stage and is associated with a poor prognosis. However, recent breakthroughs in understanding the etiology and pathogenesis have led to the advent of new treatment modalities and investigational therapies. In order to offer optimal patient care, the practicing oncologist must be well informed of these advances. To bridge the gap between research and patient care, this issue of Hepatocellular Carcinoma Update uses one-on-one discussions with leading oncology investigators. By providing access to the latest research developments and expert perspectives on the disease, this CME program will assist medical oncologists and select gastroenterology specialists in the formulation of up-to-date clinical management strategies for patients with HCC.

LEARNING OBJECTIVES

- Consider patient age, performance status, liver function and other clinical and logistical factors in the up-front management of newly diagnosed unresectable or metastatic HCC.
- Appreciate the FDA approval of regorafenib for patients who have experienced treatment failure with sorafenib, and discern how regorafenib can be optimally integrated into clinical management.
- Appraise recent Phase III data with lenvatinib, and consider the clinical role of this agent in the management of
 previously untreated unresectable HCC.
- Recall available efficacy and safety data with cabozantinib, and consider the potential clinical role of this agent for
 patients who experience disease progression on sorafenib.
- Understand the scientific rationale for and recall available clinical trial data with approved and investigational checkpoint inhibitors in the treatment of HCC.
- Evaluate emerging Phase III data with ramucirumab in patients with advanced HCC and elevated alpha-fetoprotein who have experienced disease progression after treatment with sorafenib.

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Please note, this program has been specifically designed for the following ABIM specialty: **medical oncology.**

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This activity is supported by educational grants from Bayer HealthCare Pharmaceuticals, Bristol-Myers Squibb Company, Eisai Inc and Lilly.

Release date: October 2018; Expiration date: October 2019

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Interview with Richard S Finn, MD

Tracks 1-24

Track 1 Effects of locoregional therapy on underlying liver function in patient	Track 13	Activity of nivolumab as second- line therapy for patients with HCC		
Track 2	with hepatocellular carcinoma (HCC)	Track 14	Selection of regorafenib versus nivolumab as treatment in the	
Irack 2	Barcelona Clinic Liver Cancer staging system and treatment strategy	Track 15	second-line setting Predictors of benefit with checkpoint inhibitors in HCC	
Track 3	Case: A 68-year-old man with chronic hepatitis C and thrombo- cytopenia undergoes a liver transplant for multifocal HCC	Track 16	Emerging data on the efficacy of anti-PD-1/PD-L1 and anti-CTLA-4 combinations	
Track 4	Risk of recurrence in patients undergoing liver transplantation for HCC	Track 17	Management of hepatic toxicities in patients receiving checkpoint inhibitors	
Track 5	Use of sorafenib in patients who develop disease recurrence after a liver transplant	Track 18	Biologic rationale for and ongoing investigation of the combination of checkpoint inhibitors and anti-angiogenic agents	
Track 6	Risks associated with adminis- tering immune checkpoint inhibitors to patients who have undergone a liver transplant	Track 19	Results of the Phase III CELESTIAL trial of cabozantinib versus placebo for patients with advanced HCC who have previously received	
Track 7	REFLECT (Study 304): A Phase III trial of lenvatinib versus sorafenib as first-line treatment for unresectable HCC	Track 20	sorafenib Improvement in overall survival with ramucirumab versus placebo as second-line treatment for	
Track 8	Design and eligibility criteria for the REFLECT study		patients with advanced HCC and elevated baseline alpha-fetoprotein	
Track 9	Activity and side-effect profile of lenvatinib versus sorafenib	Track 21	(AFP) Selection and sequencing of	
Track 10	Clinical implications of the REFLECT trial results	Track 22	therapy for patients with HCC Role of checkpoint inhibitors in the	
Track 11	Comparison of selective internal		treatment algorithm for HCC	
	radiation therapy (SIRT) to sorafenib for locally advanced HCC	Track 23	Case: A 70-year-old man with metastatic HCC to the lung and a	
Track 12 Resu	Results of the Phase III RESORCE trial evaluating regorafenib for		history of hepatitis B achieves a dramatic response to nivolumab	
	patients with HCC and disease progression after sorafenib	Track 24	Ongoing Phase III evaluation of checkpoint inhibitors for HCC	

Interview with Andrew X Zhu, MD, PhD

Tracks 1-19

Track 1 Track 2	Epidemiology and etiology of HCC Selection of patients for locore- gional treatment	Track 5	Tumor microenvironment in HCC and potential therapeutic role of anti-angiogenic agents and immunotherapies
Track 3	Available locoregional therapies for HCC	Track 6	Perspective on the results of the RESORCE study evaluating regorafenib after disease progression on sorafenib
Track 4	Side effects associated with locoregional therapies		

Interview with Dr Zhu (continued)

Track 7	Dose modifications and side effects associated with regorafenib Critical evaluation of the	Track 14	Combination immunotherapy approaches under investigation for HCC
	CELESTIAL trial efficacy and tolerability results	Track 15	Case: A 62-year-old man with metastatic HCC achieves a partial
Track 9	Potential role of cabozantinib in the management of HCC		response to nivolumab/ipilimumab on the CheckMate 040 study
Track 10	Results of the REACH-2 study of ramucirumab as second- line treatment for patients with	Track 16	Case: A 72-year-old woman receives nivolumab as second-line therapy for NASH-related HCC
	advanced HCC and elevated AFP after first-line sorafenib	Track 17	Case: A 49-year-old man with a history of hepatitis B receives
Track 11	Emerging data on a correlation between high AFP and response		lenvatinib in combination with nivolumab for multifocal HCC
	to ramucirumab	Track 18	Case: A 64-year-old woman with
Track 12	Efficacy and tolerability of lenvatinib versus sorafenib as first-line therapy in the Phase III		NASH-related HCC receives regorafenib after disease progression on sorafenib
	REFLECT trial (Study 304)	Track 19	Perspective on the use of
Track 13	Frack 13 Activity of checkpoint inhibitors in patients with HCC		checkpoint inhibitors for liver transplant recipients

Related Video Program

View the corresponding video interviews with (from left) Drs Finn and Zhu by Dr Love at www.ResearchToPractice.com/HCCU118/Video



SELECT PUBLICATIONS

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Zhu AX et al; REACH Trial Investigators. Ramucirumab versus placebo as second-line treatment in patients with advanced hepatocellular carcinoma following first-line therapy with sorafenib (REACH): A randomised, double-blind, multicentre, phase 3 trial. *Lancet Oncol* 2015;16(7):859-70.

Hepatocellular Carcinoma Update — Volume 3, Issue 1

QUESTIONS (PLEASE CIRCLE ANSWER):

- Results from the REFLECT trial (Study 304) for patients with unresectable HCC in the first-line setting reported _____ with lenvatinib versus sorafenib.
 - a. Superiority in overall survival (OS)
 - b. Significant improvement in progressionfree survival (PFS)
 - c. Significant benefit in response rate
 - d. All of the above
 - e. Both b and c
- Results of studies evaluating the antitumor activity of checkpoint inhibitors in patients with HCC have demonstrated
 - a. An overall response rate (ORR) of 15% to 20% as first-line therapy
 - b. Responses in only those patients with high tumor mutational burdens
 - c. Both a and b
 - d. Neither a nor b
- 3. Which of the following is true regarding the Phase III CELESTIAL trial evaluating cabozantinib versus placebo for patients with advanced HCC previously treated with sorafenib?
 - a. A significant improvement in OS was reported in the cabozantinib arm
 - b. No dose reductions were required in the cabozantinib arm
 - c. Both a and b
 - d. Neither a nor b
- 4. The ongoing CheckMate 459 trial is evaluating sorafenib versus nivolumab for patients with advanced HCC in which setting?
 - a. First line
 - b. Second line
 - c. Late line
- 5. What did the SIRveNIB study comparing SIRT to sorafenib for locally advanced HCC demonstrate in terms of OS?
 - a. Significant improvement with sorafenib
 - b. Significant improvement with SIRT
 - c. No significant difference between the 2 arms

- Preliminary results from a Phase I study presented by Finn and colleagues at ASCO 2018 demonstrated an ORR of approximately 40% with lenvatinib/pembrolizumab for patients with unresectable HCC.
 - a. True
 - b. False
- The Phase III REACH-2 trial presented at ASCO 2018 by Zhu and colleagues demonstrated a significant improvement in OS with ramucirumab versus placebo as second-line therapy for patients with advanced HCC and high
 - a. AFP
 - b. VEGFR expression
 - c. Tumor burden
- Which of the following is true regarding the Phase III RESORCE trial evaluating regorafenib versus placebo for patients with HCC with disease progression on sorafenib?
 - a. A significant improvement in OS was observed with regorafenib
 - b. A significant improvement in PFS was observed with regorafenib
 - c. Both a and b
 - d. Neither a nor b
- The ongoing Phase III HIMALAYA study is investigating ______ in combination with tremelimumab as first-line treatment for unresectable HCC.
 - a. Pembrolizumab
 - b. Durvalumab
 - c. Nivolumab
- 10. Which of the following is true regarding the safety profile of lenvatinib in HCC?
 - a. Lenvatinib is associated with a higher incidence of hypertension than is sorafenib
 - b. Lenvatinib is associated with a higher incidence of hand-foot skin reaction than is sorafenib
 - c. Hepatic function should be monitored
 - d. All of the above
 - e. Both a and c

EDUCATIONAL ASSESSMENT AND CREDIT FORM

Hepatocellular Carcinoma Update — Volume 3, Issue 1

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PART 1 — Please tell us about your experience with this education	al activity	
How would you characterize your level of knowledge on the following top		
4 = Excellent $3 = Good$ 2	= Adequate	1 = Suboptimal
	BEFORE	AFTER
Major efficacy and safety findings from the REFLECT study of lenvatinib versus sorafenib for unresectable HCC	4 3 2 1	4 3 2 1
REACH-2 trial: Efficacy of ramucirumab for patients with advanced HCC and elevated AFP	4 3 2 1	4 3 2 1
Emerging data with combination immunotherapy approaches under investigation for the treatment of HCC	4 3 2 1	4 3 2 1
Results of the Phase III CELESTIAL trial evaluating cabozantinib for patients with previously treated, advanced HCC	4 3 2 1	4 3 2 1
Role of checkpoint inhibitors in the treatment algorithm for HCC	4 3 2 1	4 3 2 1
Practice Setting:		
 □ Academic center/medical school □ Community cancer center □ Solo practice □ Government (eg, VA) □ Other (please 		' '
How many new patients with HCC do you see per year? patien	nts	
Was the activity evidence based, fair, balanced and free from commerci	al bias?	
─ Yes ─ No If no, please explain:		
Please identify how you will change your practice as a result of complet apply). This activity validated my current practice Create/revise protocols, policies and/or procedures Change the management and/or treatment of my patients Other (please explain):		
If you intend to implement any changes in your practice, please provide	1 or more exam	ples:
The content of this activity matched my current (or potential) scope of p	oractice.	
Please respond to the following learning objectives (LOs) by circling the		
$4 = \text{Yes } 3 = \text{Will consider } 2 = \text{No} \ 1 = \text{Already doing } \text{N/M} = \text{LO r}$		
As a result of this activity, I will be able to:		7.1
Consider patient age, performance status, liver function and other clinical logistical factors in the up-front management of newly diagnosed unresec or metastatic HCC. Appreciate the FDA approval of regorafenib for patients who have experie	table 4	3 2 1 N/M N/
treatment failure with sorafenib, and discern how regorafenib can be optir integrated into clinical management.	4	3 2 1 N/M N/
 Appraise recent Phase III data with lenvatinib, and consider the clinical rothis agent in the management of previously untreated unresectable HCC. Peocal available officers and sofety data with soperantipib, and consider. 		3 2 1 N/M N/
 Recall available efficacy and safety data with cabozantinib, and consider the potential clinical role of this agent for patients who experience disease progression on soraferib. 		2 2 1 NI/M NI/

EDUCATIONAL ASSESSMENT AND CREDIT FORM (continued)

As a result of this activity, I will be able to:

Please describe any clinical situations that you find difficult to manage or resolve that you would like to see addressed in future educational activities:

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4 = Excellent	3 = Good $2 = Adequate$	1 = Suboptimal	
Faculty	Knowledge of subject matter	Effectiveness as an educator	
Richard S Finn, MD	4 3 2 1	4 3 2 1	
Andrew X Zhu, MD, PhD	4 3 2 1	4 3 2 1	
Editor	Knowledge of subject matter		
Neil Love, MD	4 3 2 1	4 3 2 1	

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Estimated time to complete: 2.25 hours Expiration date: October 2019 Release date: October 2018

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