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Background

Healthcare professionals (HCPs) who manage patients with advanced hepatocellular carcinoma (HCC) are challenged to maintain a knowledge of contemporary treatment paradigms for these patients, but this field has evolved rapidly over the past few years. Prior to 2017, sorafenib was the only approved systemic therapy for advanced HCC; today, 9 regimens are approved. Given this new therapeutic landscape, we developed an online treatment decision support tool designed to provide HCPs with case-specific treatment recommendations from 5 HCC experts. Here, we report an analysis of cases entered into the tool by HCPs, comparing their planned treatment with expert recommendations.

Tool Design and Analysis

- 5 experts provided treatment recommendations in January 2021 for 71 distinct case scenarios of patients with advanced HCC who were assumed to be candidates for systemic therapy; case patients were also assumed to have good performance status
 - Case scenarios were defined by factors the expert panel considered important for treatment selection, including Child-Pugh liver function classification, the presence of key contraindications to immune checkpoint inhibitor or multikinase inhibitor therapy, AFP level, and previous treatment
 - Experts: Thomas A. Abrams, MD; Richard S. Finn, MD; Amit G. Singal, MD, MS; Mark Yarchoan, MD; Andrew X. Zhu, MD, PhD, FACP
- To use the tool, HCPs entered their patients' information and their intended treatment plan; expert recommendations for their specific patient scenario were then provided • Tool is available at: clinicaloptions.com/HCCTool
- This analysis compared the intended treatment of HCPs with expert recommendations for specific cases entered in the tool from April 1, 2021, to September 30, 2021



Tool Participant Demographics

318 patient cases entered by 165 HCPs





Of 39 responding HCPs, 77% reported treating ≤10 patients with HCC per month

Characteristics of Patient Cases Entered by HCPs, n (%)	Responses
Child-Pugh liver function A B 	N = 318 222 (70) 96 (30)
 Previous systemic therapy for advanced disease (Child-Pugh A) None First line First and second line 	n = 222 146 (66) 56 (25) 20 (9)
 First-line regimen if previous systemic therapy (Child-Pugh A) Atezolizumab + bevacizumab Lenvatinib Sorafenib PD-1 inhibitor monotherapy 	n = 56 22 (39) 16 (29) 13 (23) 5 (9)

Contemporary Management of Advanced Hepatocellular Carcinoma: Treatment Patterns Among HCPs and Concordance With Expert Recommendations

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Conclusions

Analysis of data entered by HCPs into an online treatment decision support tool suggests significant differences among experts and HCPs in contemporary management of patients with advanced HCC

Data suggest that a decision support tool can affect HCP treatment decisions in a rapidly evolving therapeutic landscape, potentially improving patient care





Key observations: For patients experiencing disease progression with atezolizumab + bevacizumab, experts favored lenvatinib (particularly for patients with aggressive/bulky) disease). Despite low n values, the planned treatment of HCPs generally aligned with expert treatment recommendations for these patients.

*Additional variables (yes or no) included aggressive/bulky disease, persistent significant proteinuria or hypertension, and contraindication to a VEGF-targeted TKI. *Additional variables (yes or no) included aggressive/bulky disease and persistent significant proteinuria or hypertension. Patients with an increased bleeding risk may include those with uncontrolled gastroesophageal varices or recent significant bleeding episodes or surgery. ‡ Intended use and tool impact questions were optional and available after users received expert recommendations. AFP, alpha-fetoprotein; PD, progressive disease.

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Key observations: For patients experiencing disease progression with sorafenib and lenvatinib, there was variance among experts, with atezolizumab + bevacizumab and nivolumab + ipilimumab predominantly recommended; HCPs appeared to be less certain of treatment in this setting, with low n values.