

Point-of-Care Interactive Decision Support Tool Demonstrates Discordance Between Healthcare Practitioner Approaches and AASLD Guideline Recommendations in the Management of HBV Infection

Produced in collaboration with:





Tiffany Hensley-McBain, PhD¹; Zachary Schwartz, MS¹; Jennifer Blanchette, PhD¹; Jenny Schulz, PhD¹; Edward King, MA¹; Paul Y. Kwo, MD² ¹Clinical Care Options, LLC. ²Stanford University School of Medicine.

1. Background

The AASLD HBV management guidelines were updated in 2018 to include new recommendations. Patient variables that inform HBV treatment candidacy and treatment selection are complex and interconnected. To aid healthcare practitioners (HCPs) in aligning management decisions with practice guidance, we developed a Web- and app-based decision support tool, "Hep B Consult."

2. Tool Users

- From March 2019 through August 2020, **N** = **18,176** cases were entered into the tool, of which n = 7774 specified AASLD guidelines
 - n = 6289 cases via the app (anonymous)
 - n = 1485 cases via the CCO site (authenticated)

Authenticated Participants (n = 1485) Geography Degree Physician North America

3. Cases Entered

Central/South America

Asia/Oceania

Europe

Africa

7774 **Cases Selected AASLD Guidelines**

70%

5012

Cases With Clear Guideline Recommendation

Reached

4443

Nurse

PA/NP

Other

Pharmacist

67%

Cases Entered by Healthcare **Practitioners**

Of 1743 cases where participants specified:

58% were real patients

42% were hypothetical cases

Of 3004 cases where HBeAg status and HBV DNA level were known:

HBeAg Positive 19% HBV DNA ≥ 2000 but ≤ 20,000

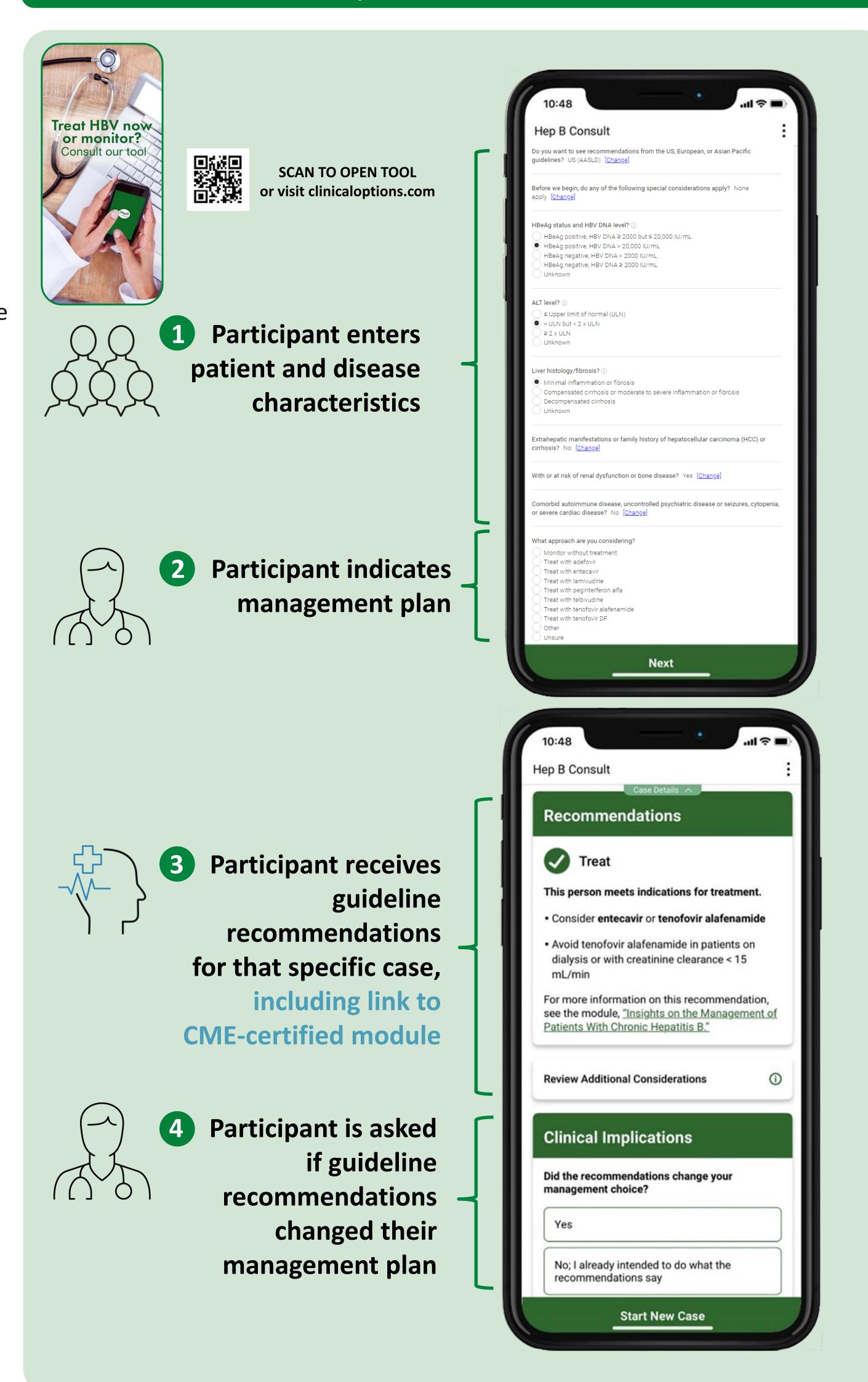
HBeAg Negative

30% HBV DNA < 2000

18% HBV DNA > 20,000

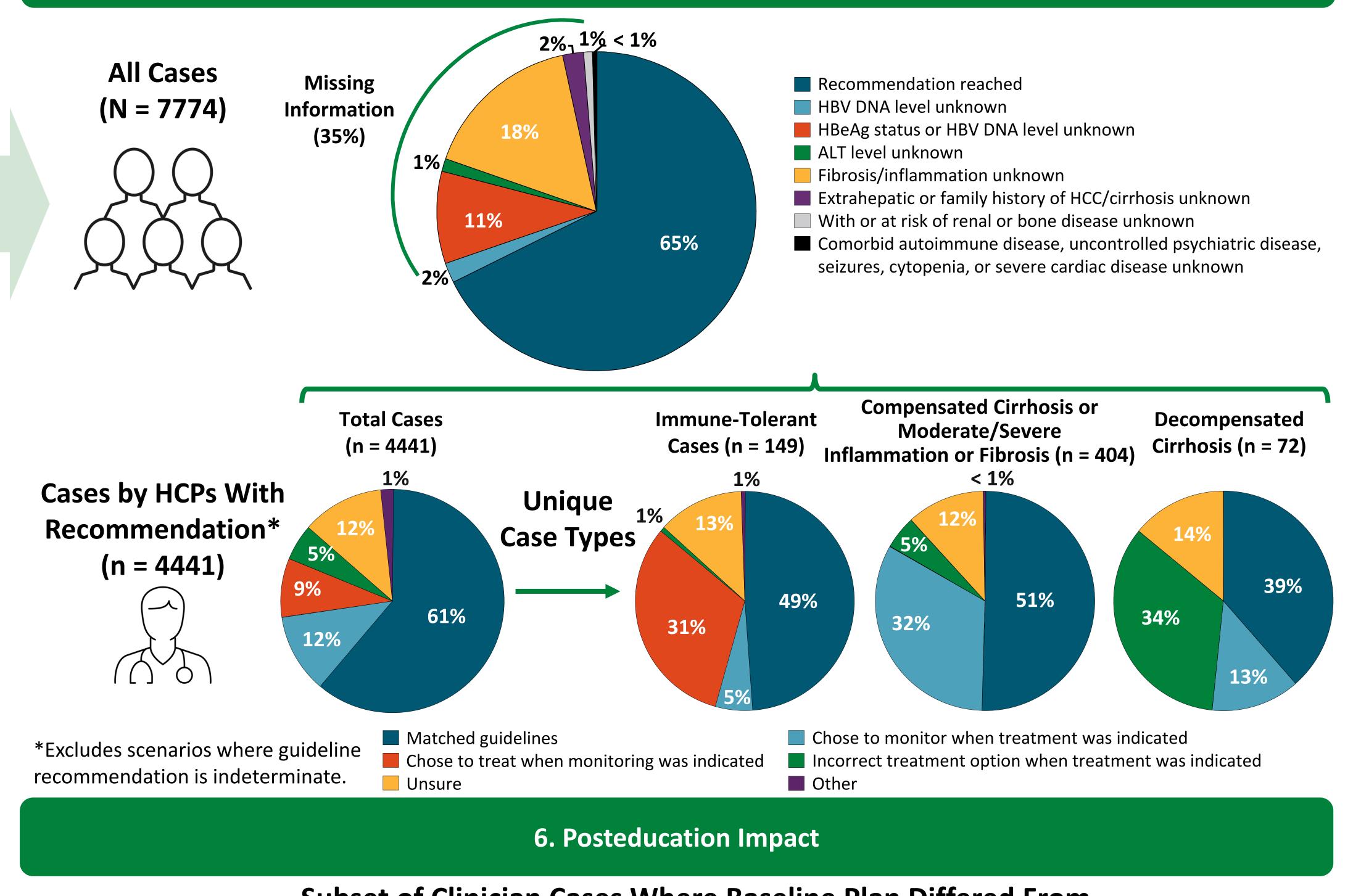
33% HBV DNA ≥ 2000

4. Online Decision Support Tool Provides **Patient-Specific Recommendations**

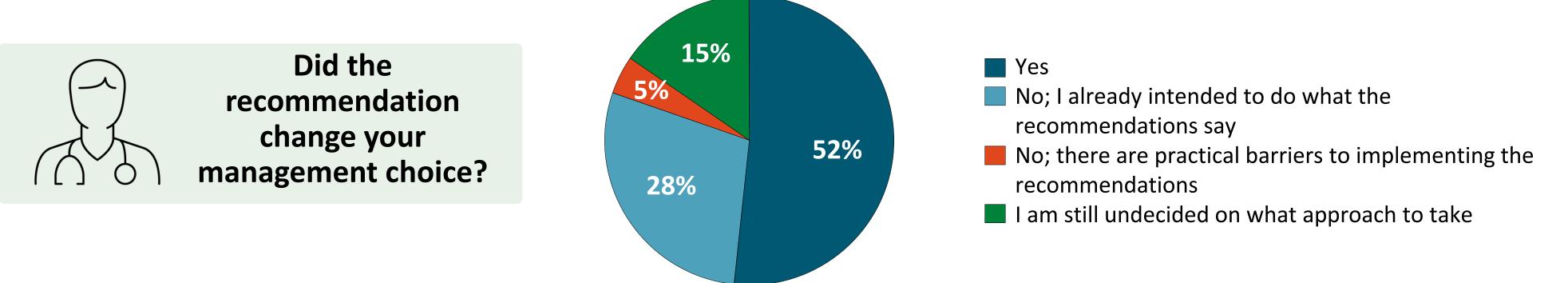


Acknowledgements: This research is based on CME activities supported by an independent educational grant from Gilead Sciences. **Disclosures:** ¹None. ²Consulting fees from Gilead Sciences and Janssen; funds for research support from Gilead Sciences; speaker bureaus for Abbott, AbbVie, Bristol-Myers Squibb, Echosens, Furui, Gilead Sciences, Janssen, and Roche.

5. Case Outcome and Intended Management Approach



Subset of Clinician Cases Where Baseline Plan Differed From **Guidelines and Clinician Identified Future Plan (n = 676)**



7. Conclusions

- This online decision support tool showed users selected "unknown" for a variable necessary to reach a guideline **recommendation for 35.5% of cases** \rightarrow the information most often missing was the level of fibrosis/inflammation
- Clinicians' initial HBV management plans of whether to treat and what to treat with differed from guidelines for 39% of case **scenarios** \rightarrow certain types of cases demonstrated higher discordance
- Of cases in which the HCPs' intentions were inconsistent with guidelines, 52.1% indicated that they planned to change their approach after being provided the recommendation by the tool