Hep B Consult: A Point-of-Care Interactive Decision Support Tool Delivers Real-Time, Personalized, HBV Guideline-Based Teaching

SCAN ME Poster 477

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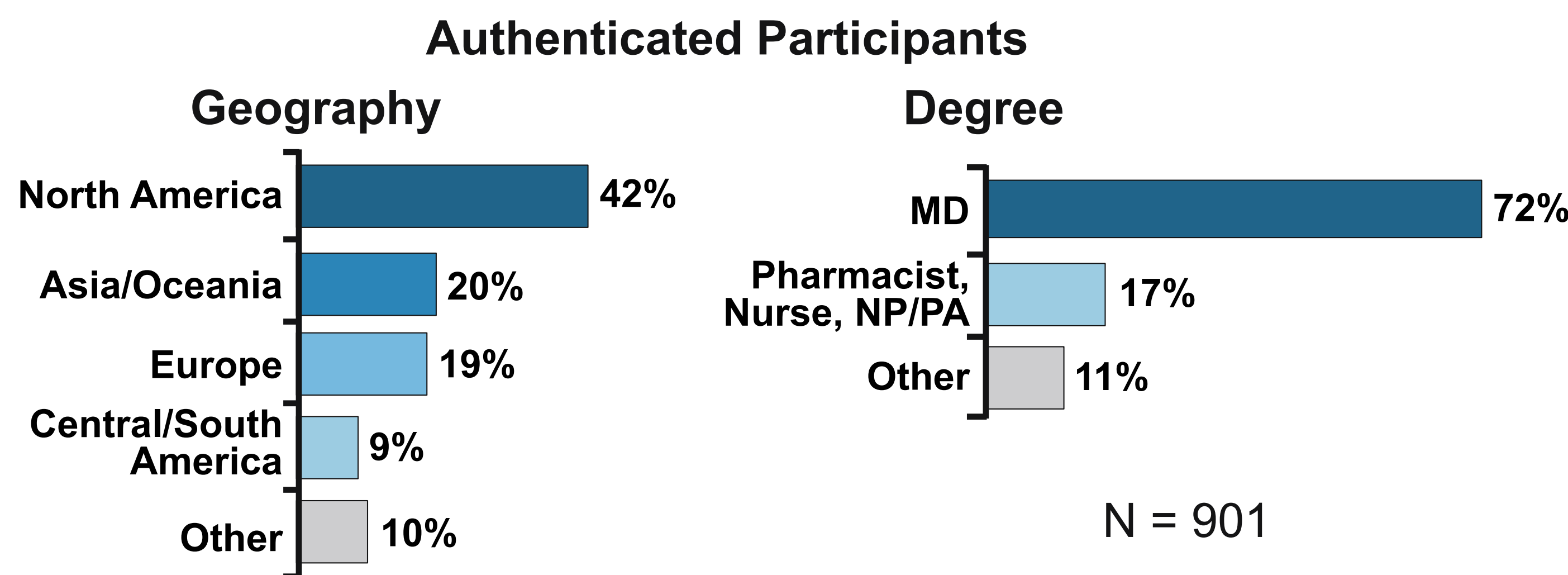
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1. Background

- We previously identified variance in HBV management strategies between community clinicians and experts[1]
- Here, we developed a comprehensive online decision support tool based on **American, European, and Asian Pacific guideline recommendations**
- Tool is available as an app and on the CCO Web site

2. Participant Demographics

- From March through October 2019, **N = 3371** participants entered cases into the tool
  - n = 2470 participants via the app (anonymous)
  - n = 901 participants via the CCO site (authenticated)

Authenticated Participants

Geography
- North America: 42%
- Asia/Oceania: 20%
- Europe: 19%
- Central/South America: 9%
- Other: 10%

Degree
- MD: 72%
- Pharmacist, Nurse, NP/PA: 17%
- Other: 11%

N = 901

3. Cases Entered

8015 Total Cases Entered → **5067** Cases Entered by Clinicians → **4130** Cases With Clear Guidelines
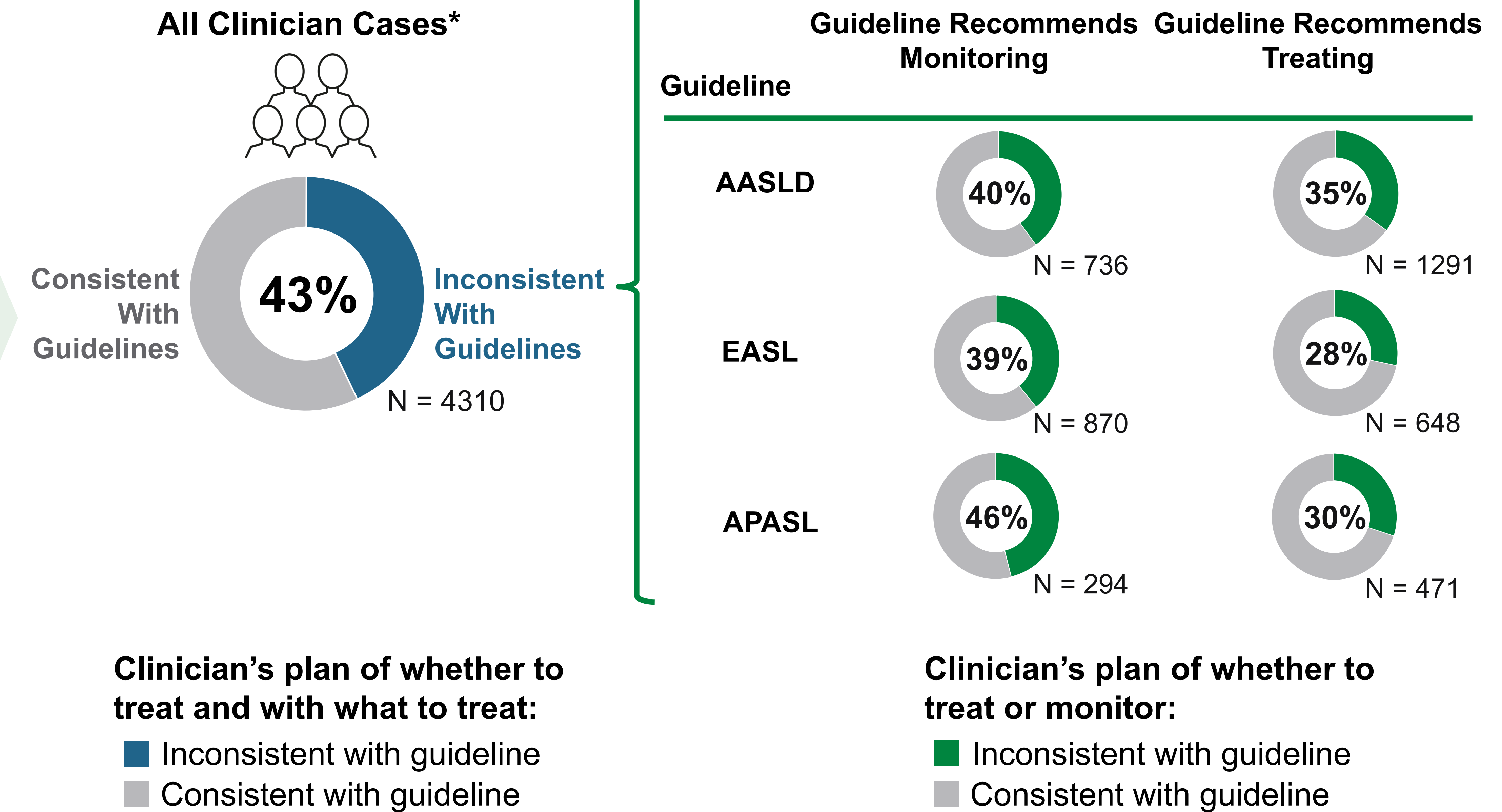
Of 2478 cases where participants specified:
- **55% were real patients**
- 45% were hypothetical cases

- In **28%** of all cases, participants selected a management plan without knowing one of the following factors:
  - HBeAg status
  - ALT and HBV DNA
  - Liver histology/fibrosis
  - Extrahepatic manifestations
  - Bone or renal disease
  - Other comorbidities
- In these cases, the tool provided education on why these patient characteristics are needed before deciding how to manage the patient

Reference: 1. Schwartz. AASLD 2018. Poster 406. https://www.clinicaloptions.com/publications/2018/11_2018_san_francisco_hbv_poster

4. Online Decision Support Tool Provides Patient-Specific Recommendations
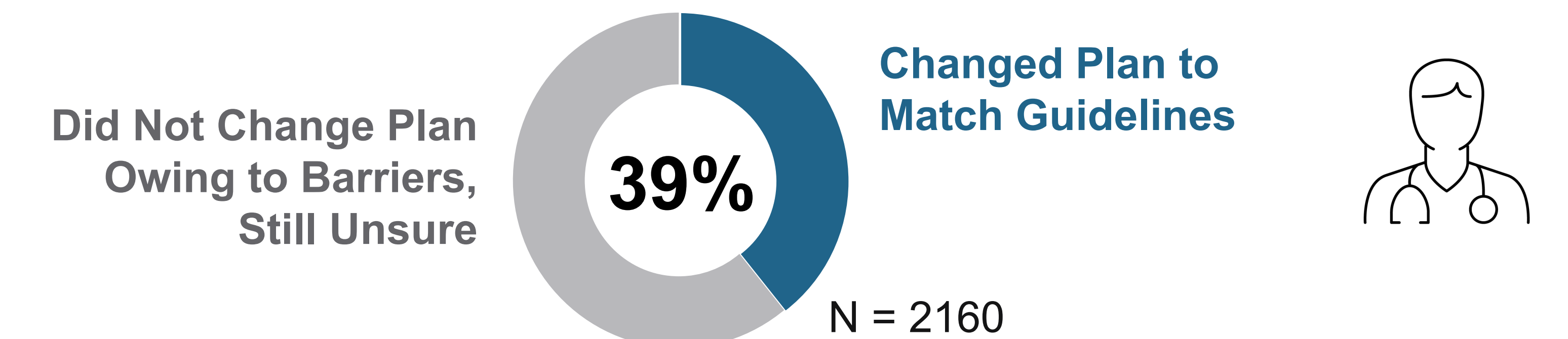
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1. Participant enters patient and disease characteristics
2. Participant indicates management plan
3. Participant receives guideline recommendations for that specific case
4. Participant is asked if guideline recommendations changed their management plan

5. Baseline Management Plan

All Clinician Cases*

43% Inconsistent With Guidelines / Consistent With Guidelines
N = 4310

Guideline	Scenarios Where Guideline Recommends Monitoring	Scenarios Where Guideline Recommends Treating
AASLD	40% (N = 736)	35% (N = 1291)
EASL	39% (N = 870)	28% (N = 648)
APASL	46% (N = 294)	30% (N = 471)

Clinician's plan of whether to treat and with what to treat:
- Inconsistent with guideline
- Consistent with guideline

Clinician's plan of whether to treat or monitor:
- Inconsistent with guideline
- Consistent with guideline

*Excludes scenarios where guideline recommendation is indeterminate.

6. Posteducation Impact

Subset of Clinician Cases Where Baseline Plan Differed From Guidelines and Clinician Identified Future Plan

39% Changed Plan to Match Guidelines / Did Not Change Plan Owing to Barriers, Still Unsure
N = 2160

7. Conclusions

- This online decision support tool showed that clinicians' initial HBV management plans of whether to treat and what to treat with **differed from guidelines** for 43% of case scenarios
- Using an online tool **changed the intended treatment plan for many participants,** suggesting the tool's use can help optimize care of patients with chronic HBV infection