# Patient Characteristics and Treatment Patterns Amongst Hepatitis Delta Patients: Results From a Real-World Survey in Europe

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### Conclusions

- Half of patients with chronic hepatitis delta (CHD) experienced a high comorbidity burden
- According to physicians, most patients for whom they prescribed bulevirtide (BLV) received treatment as a monotherapy and were adherent to their regimen
- Reduction in hepatitis delta virus (HDV) transmission was shown to be an important consideration when prescribing BLV in clinical settings, alongside its long-term efficacy and reduction in viral shedding
- One-third of patients with CHD were not on HDV treatment, yet nearly one-fifth of these patients had cirrhosis and/or moderate or severe liver disease
- Real-world evidence on HDV treatment options may complement current and future treatment outcomes among patients prescribed BLV as monotherapy

## Plain Language Summary

- Chronic hepatitis delta is a disease in the liver caused by a virus, which can be treated with an antiviral drug called bulevirtide
- Patients with chronic hepatitis delta also frequently experience co-occurring problems with anxiety and depression
- Doctors chose bulevirtide because the treatment can work in the long term
- Most patients took the correct dose of bulevirtide at the correct times, as instructed by their doctors

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#### INTRODUCTION

- HDV, which requires the presence of hepatitis B virus (HBV) for transmission, results in the most severe form of viral hepatitis<sup>1,2</sup>
- CHD infection is associated with rapid progression to cirrhosis, hepatic decompensation, and hepatocellular carcinoma, and is associated with increased morbidity and mortality compared with HBV monoinfection<sup>2</sup>
- BLV, an entry inhibitor of HDV, is approved in the European Union, Great Britain, Switzerland, the Russian Federation, and Australia at 2 mg/day for the treatment of CHD<sup>3</sup>
- BLV has been shown to reduce the likelihood of transmitting HDV by clearing its RNA from the blood<sup>3</sup>
- Although data are readily available on antiviral drugs treating HBV, real-world evidence on BLV for the treatment of HDV is lacking

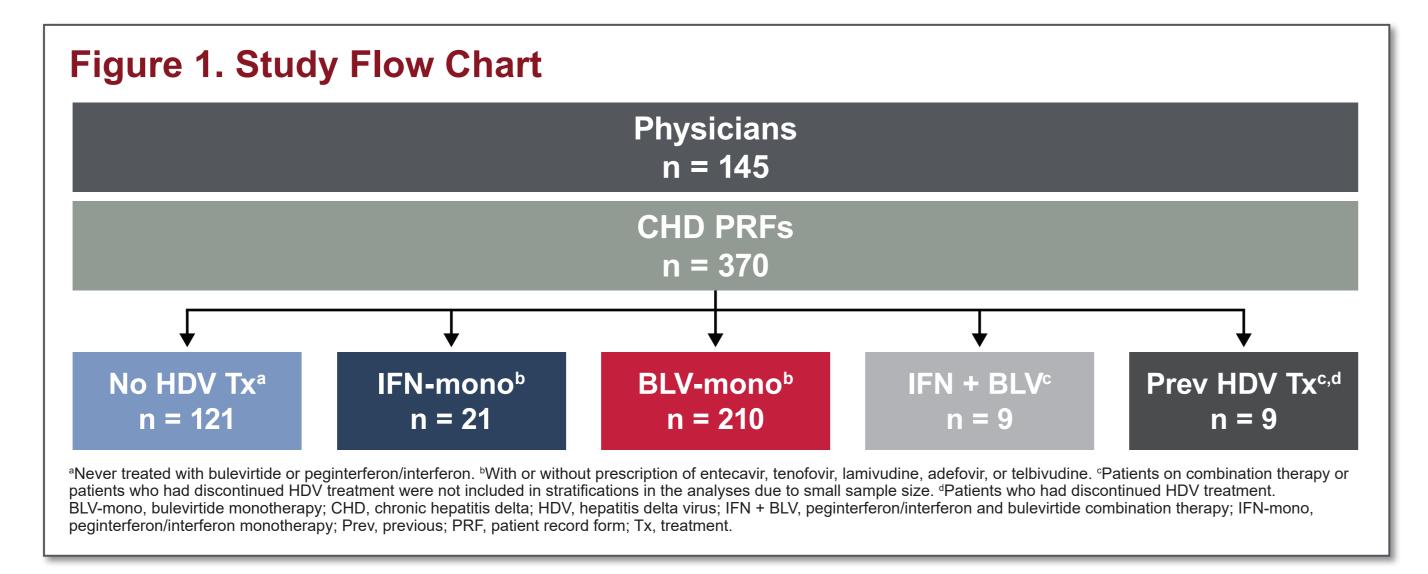
#### OBJECTIVE

To describe the demographics, clinical characteristics, and physician-perceived treatment adherence of patients with CHD who were prescribed antiviral treatments, including BLV

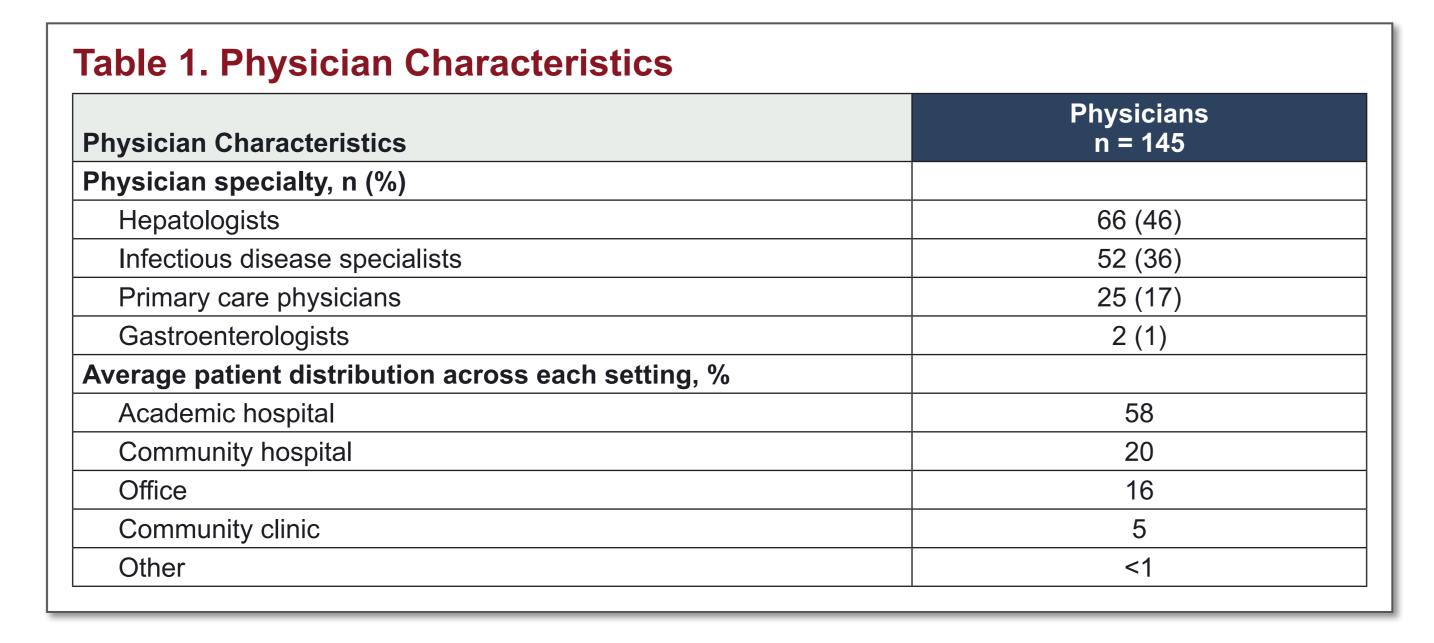
#### METHODS

- Data were drawn from the Adelphi Real World Hepatitis Disease Specific Programme,<sup>™</sup> a
  cross-sectional survey with retrospective data collection of physicians and their patients with HDV in
  France, Italy, Spain, and the UK from May 2024 to Nov 2024<sup>4-7</sup>
- Primary care physicians, infectious disease specialists, gastroenterologists, and hepatologists provided data on patient demographics, clinical characteristics, and adherence through patient record forms for up to four consecutively consulting patients with HDV, two of whom were prescribed BLV
   Analyses were descriptive
- Physicians who saw ≥2 patients with HDV in a typical month were eligible for inclusion in the study
- Physicians reported on patients ≥18 years of age with a physician-confirmed diagnosis of HDV.
   Patients involved in a clinical trial for any condition at the time of consultation were not eligible for inclusion

#### RESULTS



Overall, 145 physicians reported data on 370 patients with CHD



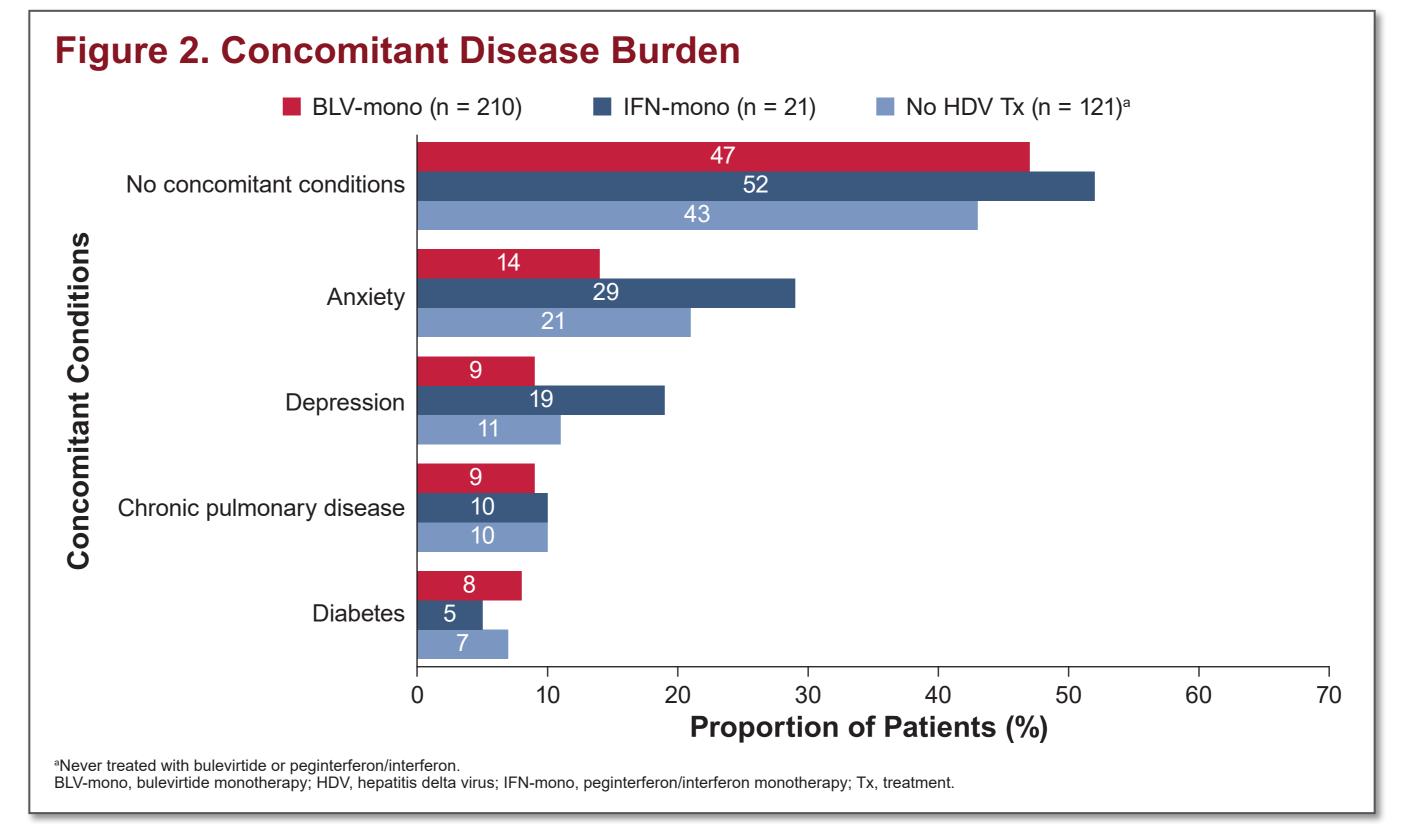
#### RESULTS

# Table 2. Physician-Reported Patient Demographics and Disease Characteristics

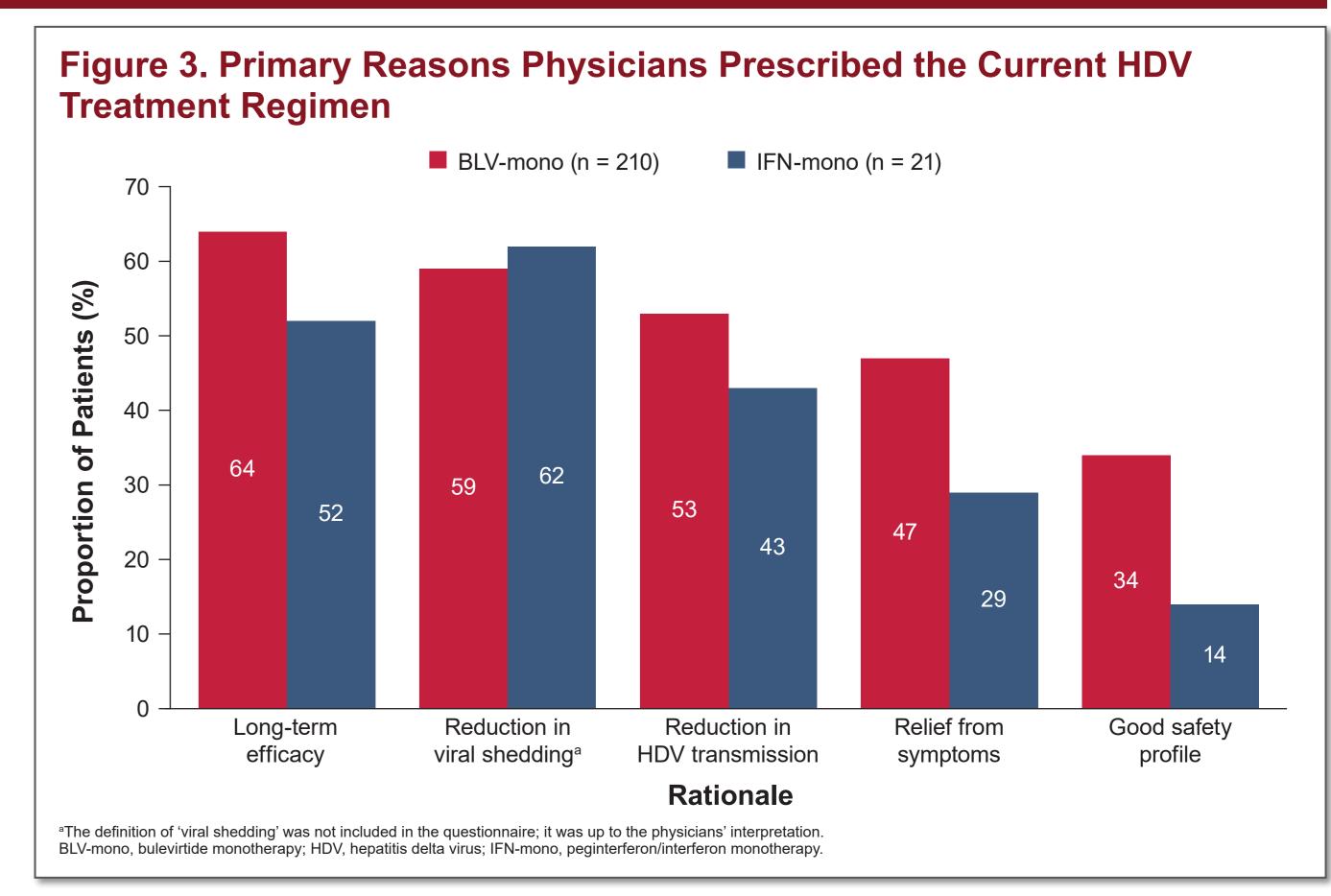
Patient Characteristics	Patients n = 210	Patients n = 21	Patients <sup>a</sup> n = 121	With CHD N = 370
Age, years	n = 209	n = 21	n = 121	n = 369
Mean (SD)	45.4 (12.66)	43.6 (11.66)	46.7 (12.90)	45.9 (12.95)
Sex, n (%)	n = 210	n = 21	n = 121	n = 370
Male	141 (67)	14 (67)	77 (64)	245 (66)
Ethnicity, <sup>b,c</sup> n (%)	n = 137	n = 17	n = 106	n = 270
White	97 (71)	9 (53)	73 (69)	188 (70)
Black African or Caribbean	16 (12)	6 (35)	15 (14)	37 (14)
East or Southeast Asian	21 (15)	2 (12)	6 (6)	29 (11)
Other	3 (2)	0 (0)	12 (11)	16 (6)
High-risk HBV region, <sup>c</sup> n (%)	n = 210	n = 21	n = 121	n = 370
Born in high-risk region	86 (41)	9 (43)	44 (36)	148 (40)
Lived in high-risk region	48 (23)	3 (14)	33 (27)	88 (24)
Time since diagnosis of HBV, years	n = 156	n = 13	n = 88	n = 271
Mean (SD)	6.0 (8.14)	8.8 (12.11)	7.2 (9.92)	6.8 (9.10)
Time since diagnosis of HDV, years	n = 177	n = 17	n = 98	n = 307
Mean (SD)	4.0 (5.12)	5.3 (9.62)	5.2 (7.97)	4.7 (6.70)
Physician-stated severity at survey date, n (%)	n = 210	n = 21	n = 121	n = 370
Mild	136 (65)	14 (67)	80 (66)	240 (65)
Moderate	65 (31)	6 (29)	30 (25)	107 (29)
Severe	9 (4)	1 (5)	11 (9)	23 (6)
Liver fibrosis score, n (%)	n = 210	n = 21	n = 121	n = 370
F4 (compensated or decompensated cirrhosis)	31 (15)	4 (19)	21 (17)	61 (16)
Liver disease, n (%)	n = 210	n = 21	n = 121	n = 370
Moderate or severe	16 (8)	1 (5)	23 (19)	43 (12)
Time receiving HDV treatment line, months	n = 193	n = 16	_	n = 306
Mean (SD)	18.3 (31.19)	46.2 (87.22)		28.7 (47.98)

BLV-Mono IFN-Mono No HDV Tx All Patients

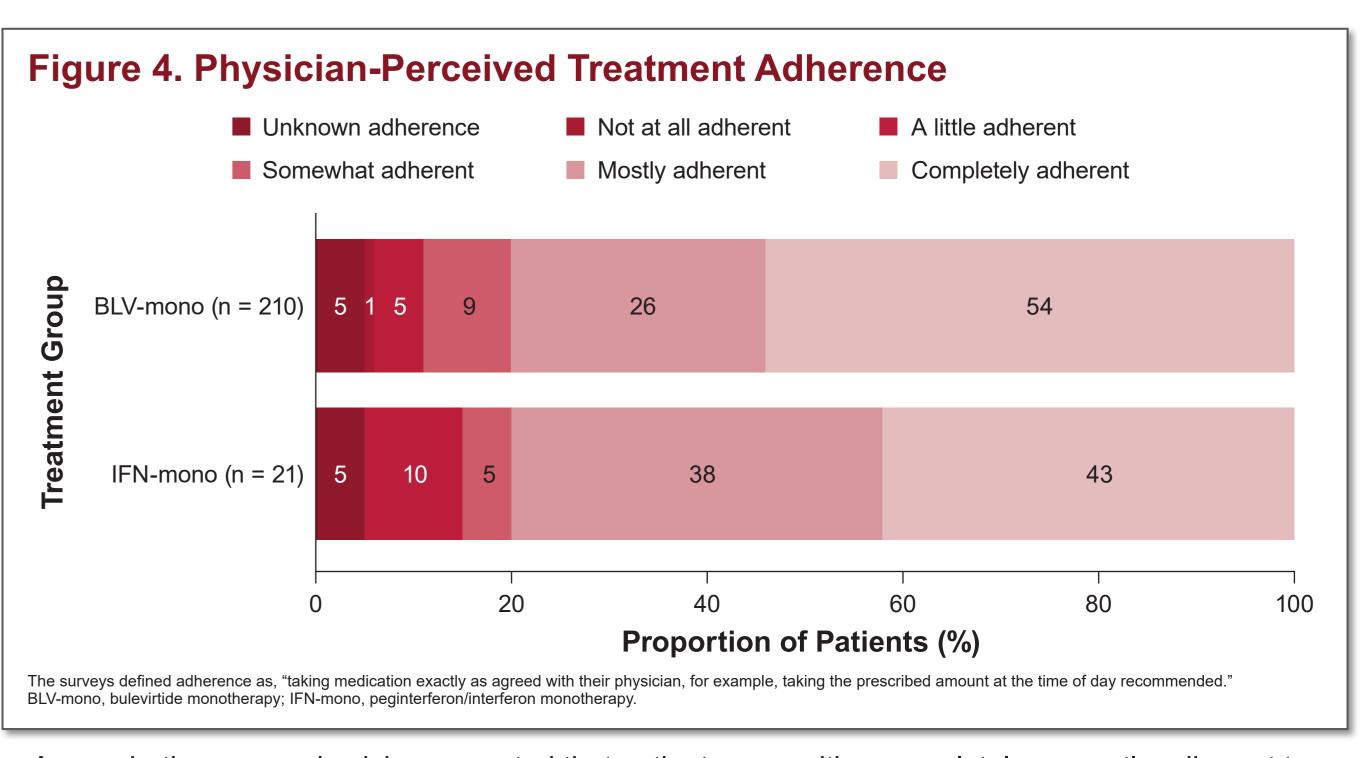
- Among all patients with CHD, mean (SD) age was 45.9 (13.0) years; 70% were White, and 66%
- Almost one-fifth (19%) of No HDV Tx patients had moderate or severe liver disease (BLV monotherapy [BLV-mono]: 8%; IFN monotherapy [IFN-mono]: 5%)



• For patients who were never prescribed HDV antiviral treatment (No HDV Tx; n = 37), the top physician-reported reasons were patient's choice not to use treatment (51%), the patient did not want to take a daily medication (27%), and the physician thought treatment was not needed (16%)



- Physicians reported that increased likelihood of a functional cure (37%), longer-acting medication (24%), and less-frequent administration (23%) were the most common areas where treatment could be improved for BLV-mono patients
- Drug adverse events/side effect profile (38%), reduction in transmission (29%) and increased likelihood of a functional cure (24%) were common areas where treatment could be improved for IFN-mono patients



- Across both groups, physicians reported that patients were either completely or mostly adherent to their current treatment regimen (BLV-mono: 80%; IFN-mono: 81%)
- Of those who were not completely adherent (n = 86), physicians reported that difficulties integrating into daily routine (23%) and forgetting to take medication (21%) were the most common reasons for nonadherence among BLV-mono patients

#### LIMITATIONS

- Physicians and their patients were recruited from four European countries; therefore, results may not be generalisable to all patients with CHD
- Because data were captured for patients actively consulting with their physicians, findings may not be representative of the wider patient population, including nonconsulting patients
   Physicians were requested to centure nations information retroppeditively, which may introduce
- Physicians were requested to capture patient information retrospectively, which may introduce recall bias
- Data on BLV use in Spain were not collected due to a lack of reimbursement at the time of data collection