Effect of Peg-IFN on the viral kinetics of HDV infected patients treated with bulevirtide Supplementary materials

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77	Additional text
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79	1. Calibration curves
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81	We identified heterogeneity in the units informed in the data, with some observations informed in
82	cp/mL, and others in IU/mL. We developed calibration curves to homogenize the concentrations.
83	Methods
84	The French National Reference Center for HDV organizes each year a program for external quality
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101 The event was defined as a definitive cessation of treatment.

102

103 2. Model prediction : results of the intention-to-treat scenario

104

In the intention-to-treat scenario, where the risk of treatment discontinuation of both BLV and Peg-IFN is accounted for, these rates were slightly lower. After 48 weeks, we predicted a virological response of 48.2% (PI 95% = [41.2 ; 56.2]) and 78.3% (PI 95% = [66.7 ; 88.4]) in patients treated with BLV and BLV+Peg-IFN, respectively (**Figure 4B**).

109 After 144 weeks of treatment, these values were equal to 60.5% (95% PI = [54.4; 70.2]) and 85.5% 110 (95% PI = [76.8; 92.8]), respectively, and 79.7% (95% PI = [71.0; 88.4]) for the 111 intermediate treatment strategy.

112 The rates of combined response after 48 weeks were predicted to be 19.3% (PI 95% = [14.0; 27.42])

and 30.4% (PI 95% = [20.3 ; 42.0]), with BLV monotherapy and BLV+Peg-IFN, respectively and

increased to 24.6% (PI 95% = [17.5; 33.3]), 34.8% (PI 95% = [24.6; 44.9]) and 31.9% (PI 95% = [21.7; 43.5]) with BLV monotherapy, BLV+Peg-IFN, and the intermediate treatment strategy,

116 respectively.

117 Regarding the rates of undetectability, after 48 weeks we predicted rates of 30.7% (PI 95% = [22.8 118 ; 37.7]) and 55.8% (PI 95% = [43.5 ; 69.6]) with BLV monotherapy or BLV + Peg-IFN, respectively

- and after 144 weeks of treatment, those rates increased to 50% (PI 95% = [41.3; 58.7]), 73.9% (PI 95% = [63.8; 85.5]) and 62.3% (PI 95% = [52.2; 76.8]) with BLV monotherapy, BLV+Peg-IFN and
- 121 the intermediate treatment strategy, respectively.

The rate of viral cure would drop to 7.0% (95% PI = 2.6 ; 12.3]) and 15.9% (95% PI = [7.2 ; 24.6]) in patients treated with BLV and BLV+Peg-IFN, respectively, after 48 weeks. After 96 weeks, these rates were equal to 19.7% (95% PI = 14.0 ; 36.3]), 36.2% (95% PI = [24.6 ; 47.9]) and 23.2 (95% PI = [14.5 ; 34.8]), for the monotherapy, the combination therapy and the intermediate treatment strategy, respectively.

- The rate of viral cure would drop to 7.0% (95% PI = 2.6; 12.3]) and 15.9% (95% PI = [7.2; 24.6]) in
- patients treated with BLV and BLV+Peg-IFN, respectively, after 48 weeks. After 96 weeks, these rates were equal to 19.7% (95% PI = 14.0; 36.3]), 36.2% (95% PI = [24.6; 47.9]) and 23.2 (95% PI
- = [14.5; 34.8], for the monotherapy, the combination therapy and the intermediate treatment
- 131 strategy, respectively.
- 132

133

- 134 *2. Model code*
- 135 DESCRIPTION: Neumann-Lam model (Neumann et al., Science, 282, 1998)

136

137 [LONGITUDINAL]

```
138 input = {beta_log, delta, p, c, eps_beta_BLV, eps_p_PEG, An, A0, ca, V0_log, tlag, lambda_BLV,
```

- 139 lambda_PEG, Start_PEG, End_PEG_1, Restart_PEG_1, End_PEG_2, Restart_PEG_2,
- 140 End_PEG_3, First_stop_BLV, Restart_BLV_1, End_BLV_2, Restart_BLV_2}

```
141 Start_PEG={use=regressor}
```

- 142 End_PEG_1={use=regressor}
- 143 Restart_PEG_1={use=regressor}
- 144 End_PEG_2={use=regressor}
- 145 Restart_PEG_2={use=regressor}
- 146 End_PEG_3={use=regressor}
- 147 First_stop_BLV={use=regressor}
- 148 Restart_BLV_1={use=regressor}
- 149 End_BLV_2={use=regressor}
- 150 Restart_BLV_2={use=regressor}
- 151

```
152 EQUATION:
```

- 153 ; Initial conditions
- 154 t0 = 0
- 155 beta=10^beta_log
- 156 V0= 10^V0_log
- 157 T0= $(c^{delta})/(beta^{p})$
- 158 IC_0 = (beta*V0*T0)/delta
- 159 VL_0 = V0
- 160
- 161
- 162 ; Before IFN both eta and epsilon equal 0. Once therapy is initiated, both are >0
- 163 ; inhibition before and after the end of treatment
- 164
- 165 ; Dates PEG
- 166
- 167 if t <0
- 168 BLV =0
- 169 end
- 170
- 171 if t >= First_stop_BLV & t < Restart_BLV_1
- 172 BLV =0
- 173 end
- 174

```
if t >= End_BLV_2 & t < Restart_BLV_2
175
      BLV =0
176
177
      end
178
      if t >=0 & t < First_stop_BLV
179
      BLV=1
180
      end
181
182
      if t >=Restart_BLV_1 & t < End_BLV_2
183
      BLV=1
184
      end
185
186
      if t >=Restart_BLV_2
187
      BLV=1
188
      end
189
190
      ; Dates PEG
191
      if t < Start PEG + tlag
      PEG =0
192
193
      end
194
195
      if t >= End_PEG_1 & t < Restart_PEG_1
196
      PEG =0
197
      end
198
199
      if t >= End_PEG_2 & t < Restart_BLV_2
      PEG =0
200
201
      end
202
203
      if t >= End_PEG_3
204
      PEG =0
205
      end
206
      if t >=Start PEG + tlag & t < End PEG 1
207
      PEG =1
208
209
      end
210
211
      if t >=Restart PEG 1 + tlag & t < End PEG 2
```

```
212
      PEG=1
213
      end
214
215
      if t >=Restart PEG 2 + tlag & t < End PEG 3
216
      PEG=1
217
      end
218
219
      if BLV==0 & PEG==0
220
       eps beta = 0
221
       eps p = 0
222
223
      elseif BLV==1 & PEG==0
224
       eps beta = eps beta BLV
225
       eps p = 0
226
      elseif BLV==0 & PEG==1
      eps _beta = 0
227
228
      eps p= eps p PEG
229
      else
      eps_beta =eps_beta_BLV
230
231
      eps p= eps p PEG
232
      end
233
234
      ALT = An^{(1 - (A0-An)/(An^{(ca-delta)})^{(delta^{exp}(-ca^{t})-exp(-delta^{t})))}
235
236
      ; Viral dynamic model
237
      ddt IC = beta*(1-eps beta)*T0*VL - delta*IC
      ddt VL = p^{(1-eps p)^{IC}} - c^{VL}
238
239
240
      LVL = log10(max(VL,-3)); to have LVL positive
241
242
      ; Survival model
243
      haz BLV = lambda BLV
244
      haz PEG = lambda PEG
245
246
      DEFINITION:
247
      Event BLV= {type=event, maxEventNumber=1, hazard=haz BLV}
248
      Event PEG= {type=event, maxEventNumber=1, hazard=haz PEG}
```

- 249
- 250 OUTPUT:
- 251 output ={LVL, ALT, Event_BLV, Event_PEG}

253 Figures

254 1. Observations and treatment assigned



Figure S1: Dynamics of HDV RNA, HBV DNA, HBsAg and ALT during treatment in the group treated with bulevirtide alone (BLV) or in combination with Peg-IFN (BLV+Peg-IFN).



Figure S3: Patients characteristics versus treatment received at baseline. Black represents the group treatedwith monotherapy and red represents the group treated with the combination.

294 2. Doses of Peg-IFN

The dose of Peg-IFN was available in 46 patients. Among them, the dose was adjusted throughout the analysis in 10 patients (8 for whom the dose was reduced, and 2 for whom the dose was increased.) For 3 patients, the dose was reduced twice.



Figure S4: Percentage of doses of Peg-IFN available during the analysis. Each level of the gradient of reds
 correspond to a dose (0, 45, 90, 180), the higher the dose, the darker the red.

- - -





Figure S5: Virologic and biochemical decline kinetics in each group. The plain line represents themedian,n represent the number of observations



Figure S6: Distribution of the observed HDV RNA and ALT levels across the study in groups Bulevirtide (BLV)
 and bulevirite+Peg-IFN (BLV+Peg-IFN). The plain line represents the median concentration, n represent the
 number of observations.





Figure S7: Percentage of undetectable HDV RNA in each group according to baseline covariates. The errorbars correspond to the 95% confidence interval of a binomial law.



Figure S8 : HDV RNA and ALT kinetics observed in each group. The large line correspond to the median
observed in top : cirrhotic patients (plain line) versus non-cirrhotic patients (dashed line) ; bottom : HIV patients
(plain line) versus non-HIV patients (dashed line).



Angers

4 6

Lyon

Paul Brousse

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0 2

0 2 4 6

Predicted concentration in Avicenne (UI/mL)







400 Figure S9: Measurements of the samples used to derive the linear regression, with their value with "home 401 made" techniques and the reference technique.
 402

Bordeaux

6 8

Mondor

8-

6.

8-

6-

8-

0 2

2 4 6

Pitié

Observed concentration in Avicenne (UI/mL)

6 8

0 2

Lille

Nantes

Toulouse

-2

Year

★ 2020
▲ 2021

O 2019 ★ 2020

8.

Ō

2 4 6

0 2 4 6 8





Figure S10: Linear regression curves allowing to derive concentrations from the reference technique.

430 5. Survival analysis : Probability of stopping treatment





Figure S11: Kaplan-Meyer curves on the survival probability of treatment cessation.





438 **Figure S12** : Distribution of parameters according to the virological, biochemical or combined response of

439 the patients.



441 The model was evaluated using visual predictive checks (VPCs) and individual fits (Figure S2).

Figure S13: Visual predictive checks (VPCs) stratified on arms Bulevirtide monotherapy (BLV) or
in combination with Peg-IFN. Dots represent observed values, plain lines represent the 5th, 50th
and 95th empirical percentiles on observed data. Shaded areas represent the 95% prediction
interval around the corresponding percentiles.

- 446
- 447



Figure S14: Individual predictions of HDV RNA (plain line) and ALT (dotted lines) in patients in the
group Bulevirtide (black lines) or bulevirtide+Peg-IFN (red lines). The top plain line indicates the
treatment received at each time (Red, Black, orange and blue for BLV+Peg-IFN, BLV only, PegIFN only and off-treatment, respectively).



471 Tables

472 1. Limit of quantification

Table S1: Summary of the number of observation associated with the different limit of quantifications

 (LOQ) for HDV RNA available in our data.

Limit of quantification (IU/mL)	Number of observations (n)
2	117
2.2	13
2.4	3
2.48	3
2.6	4
3	141

483 2. Estimation of treatment effect 484 485 Table S2 : Results of the model building of drug inclusion

		BIC	-2 LL
Identifying the main	Effect of BLV on β only	12567.07	12494.13
effect of Peg-IFN	Effect of BLV on β + effect of Peg-IFN on β	12556.02	12472.67
	Effect of BLV on β + effect of Peg-IFN on δ	12546.71	12463.36
	Effect of BLV on β + effect of Peg-IFN on p	12481.69	12398.34
Exploring additional	Effect of BLV on β + effect of Peg-IFN on p + effect of Peg-IFN on β	12480.88	12397.11
effects of Peg-IFN	s of Peg-IFN Effect of BLV on $β$ + effect of Peg-IFN on p effect of Peg-IFN on $δ$		12396.23
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3. Sensitivity analysis taking into account the dose of Peg-IFN

Table S3 : Parameters estimated in the sensitivity analysis accounting for the dose of Peg-IFN.

		Parameter estimate (RSE%)	SD of the random effect (RSE%)	
Disease parameters		· · ·	· ·	
δ	Loss rate of infected cells (d-)	2.78 10-2 (14.8)	0.814 (15.7)	
V。	Number of virions It baseline (log IU/mL)	5.84 (2.15)	1.39 (6.83)	
Ca	ALT clearance (d-1)	2.38 (42.8)	0.535 (101)	
A۰	ALT value at baseline (U/L)	123 (21.1)	0.725 (8.9)	
$\mathbf{A}_{\infty\text{-young male}}$	ALT value in absence of infection in young males (IU/L)	45.4 (9.01)	0.528 (6.93)	
\mathbf{A}_{∞} -elderty	ALT value in absence of infection in elderly males (IU/L)	58.4 (9.35)		
$A_{\infty\text{-}\text{Females}}$	ALT value in absence of infection ب young females (IU/L)	35.9 (10.1)		
Drug effects				
ξ _β ^{BLV}	Effect of BLV on blocking infection	0.933 (10.7)	5.25 (40.0)	
ED90 ^{peg}	Effect of Peg-IFN on ocking viral production	243 (124)	5.33 (32.8)	
Residual error model				
a hdv rna	\dditive residual error on HDV RNA (log., ILI/mL)	0.754 (3.61)		
b _{ALT}	Proportional residual error on ALT	0.310 (3.14)		
508				
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4. Model prediction : comparison to MY204 study

518 Table S4 : Comparison of the prediction of the model in the intention-to-treat scenario versus MYR204.
519 The simulated LOQ was set to 50 IU/mL.

	BLV+ PEG	for 1y then BLV	BLV only (10 mg in predic	MYR204, 2mg in the ctions)
	Median predictions from the model	Myr 204	Median predictions from the model	Myr 204
Undetectable VL EoT	55%	44% (Cl = [30 ; 60])	44%	22% (CI=[15 ; 38])
Undetectable VL 24 FU (or Viral cure)	25%	32% (IC=[20 ; 45])	20%	12% (CI=[5 ; 25])
ALT normalisation	40%	42% (IC=[30 ; 58])	39%	30% (CI=[20 ; 45])
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