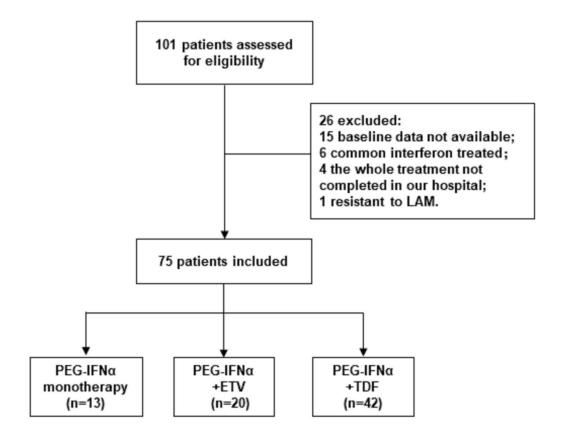
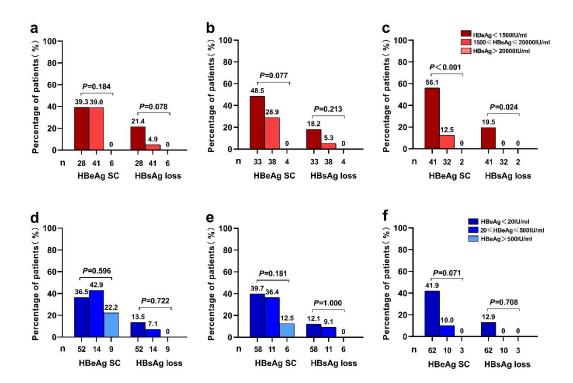
Supplementary Information

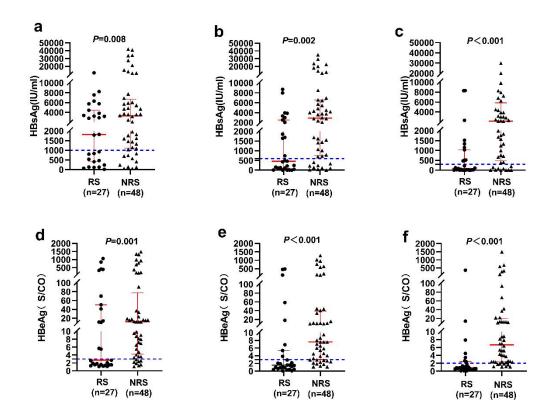
Supplementary figures and figure legends



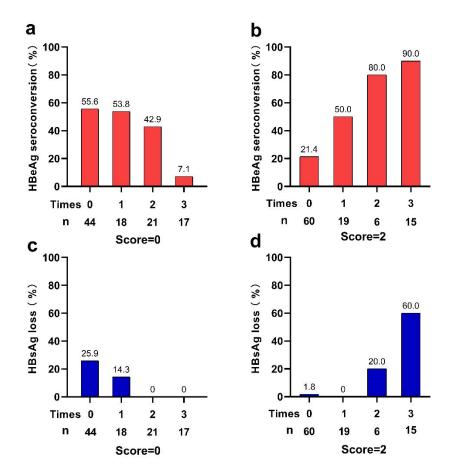
Supplementary Figure 1. Flow chart of study patients



Supplementary Figure 2. Application of the single prediction rule based on HBsAg and HBeAg levels at different time points to assess HBeAg seroconversion and HBsAg clearance at 24 weeks post-treatment. (a,d) Baseline HBsAg levels, (b,e) HBsAg levels at week 12, (c,f) HBsAg levels at week 24.



Supplementary Figure 3. Distribution of scatter plots of HBsAg and HBeAg at baseline, week 12, and week 24 based on patients classified into RS (responders) and NRS (non-responders). (**a**, **d**) baseline, (**b**, **e**) week 12, (**c**, **f**) week 24.



Supplementary Figure 4. Relationship between score times at baseline, weeks 12, and week 24, and HBeAg seroconversion and HBsAg loss at 24 weeks post-treatment.

(a) Score of 0 and HBeAg seroconversion, (b) score of 2 and HBeAg seroconversion, (c) score of 0 and HBsAg loss, (d) score of 2 and HBsAg loss.

Supplementary Tables

Supplementary Table 1. Univariate and multivariate logistic regression analyses at baseline to identify the most meaningful predictors of response at 24 weeks post-treatment

Variables	Univariate analysis	P value	Multivariate analysis	Dvalue
variables	OR (95%CI)		OR (95%CI)	P value
Sex (female)	0.341 (0.110–1.060)	0.063		
Age \leq 40 years	1.709 (0.486–6.009)	0.403		
Pre-treatment				
duration	1.859 (0.641–5.388)	0.253		
≥1 year				
PEG-IFN duration	5.833 (1.983–17.163)	0.001		
≥1 year	3.833 (1.983–17.103)	0.001		
Initial				
ALT ≥3×ULN	1.786 (0.598–5.331)	0.299		
HBV DNA ≤4.3 log	6 000 (1 692 21 400)	0.006		
IU/mL	6.000 (1.682–21.409)	0.006		
HBsAg ≤30000	5.127 (1.296–20.285)	0.020		
IU/mL	3.127 (1.290–20.263)	0.020		
HBeAg ≤1000	4.263 (1.208–15.040)	0.024		
S/CO	4.203 (1.206–13.040)	0.024		
Baseline				
ALT ≥2×ULN	1.331 (0.378–4.689)	0.656		
HBsAg ≤1000	3.040 (1.085–8.518)	0.034	0.466	0.180
IU/mL	3.040 (1.003-0.318)	0.034	(0.153–1.421)	0.100
HBeAg ≤3 S/CO	5.385 (1.983–17.163)	0.002	0.222 (0.074–0.671)	0.008

Prior antiviral therapy (compared with TDF)

ETV	0.722 (0.249–2.095)	0.549			
LAM, ADV, LdT	1.296 (0.303–5.540)	0.726			
Current therapy (compared with PEG-IFN monotherapy)					
PEG-IFN+TDF	0.429 (0.121–1.519)	0.189			
PEG-IFN+ETV	0.367 (0.086–1.567)	0.176			

Supplementary Table 2. Univariate and multivariate logistic regression analyses at week 12 to identify the most meaningful predictors of response at 24 weeks post-treatment

	University englasis	Multivariate			
Variables	Univariate analysis	P value	analysis	P value	
	OR (95%CI)	OR (95%CI)			
ALT ≥ 3×ULN	1.979 (0.706–5.548)	0.195			
HBsAg ≤600 IU/mL	4.750 (1.695–13.309)	0.003	0.271 (0.091–0.810)	0.019	
HBeAg ≤3 S/CO	5.385 (1.937–14.970)	0.001	0.230 (0.079–0.668)	0.007	
ALT decline ≥ 1×ULN	1.375 (0.284–6.658)	0.692			
HBsAg decline	1.072 (0.664.5.201)	0.226			
≥2 log IU/mL	1.872 (0.664–5.281)	0.236			
HBeAg decline	2.269 (0.602 9.106)	0.170			
≥0.3 S/CO	2.368 (0.692–8.106)	0.170			

Supplementary Table 3. Univariate and multivariate logistic regression analyses at week 24 to identify the most meaningful predictors of response at 24 weeks post-treatment

	Universida en elevis			
Variables	Univariate analysis	P value	Analysis	P value
	OR (95%CI)		OR (95%CI)	
$ALT < 2 \times ULN$	0.978 (0.348–18.398)	0.966		
HBsAg ≤300	(4(0 (2 2(9 19 209)	<0.001	0.225 (0.067, 0.750)	0.016
IU/mL	6.460 (2.268–18.398)	< 0.001	0.225 (0.067–0.759)	0.016
HBeAg ≤2 S/CO	14.286 (4.534–45.011)	< 0.001	0.089 (0.027–0.297)	< 0.001
ALT decline ≥	0.522 (0.120, 2.204)	0.200		
1×ULN	0.523 (0.120–2.284)	0.389		
HBsAg decline	1.540 (0.500, 4.020)	0.25		
≥3 lg IU/mL	1.548 (0.596–4.020)	0.37		
HBeAg decline	2 204 (0 052 12 722)	0.004		
≥0.6 S/CO	3.294 (0.852–12.732)	0.084		

Supplementary Table 4. Kappa coefficient between baseline and week 12, weeks 12 and 24, and baseline and week 24 according to the weighted Kappa consistency test

	Kappa coefficient	P value
Baseline to week 12	0.677	< 0.001
Week 12-week 24	0.666	< 0.001
Baseline to week 24	0.542	< 0.001

Supplementary Table 5. Weighted Kappa consistency test between baseline and week 12

Score/number			Week 12	,	Total
		0	1	2	
Baseline	0	31(4)	9(4)	2(2)	42(10)
	1	2(1)	18(6)	2(1)	22(8)
	2	0(0)	0(0)	11(9)	11(9)
Total		33(5)	27(10)	15(12)	75(27)

Consistent number between scores 0, 1, and 2 at baseline and 12 weeks: 60

Numbers in the brackets refer to the patients that achieved response at 24 weeks post-treatment.

Supplementary Table 6. Weighted Kappa consistency test between week 12 and week 24

Score/number		Week 24 To			Total
		0	1	2	
Week 12	0	29(2)	4(3)	0(0)	33(5)
	1	6(1)	17(6)	4(3)	27(10)
	2	1(1)	1(0)	13(11)	15(12)
Total		36(4)	22(9)	17(14)	75(27)

Consistent number between scores 0, 1, and 2 at baseline and 12 weeks: 59

Numbers in the brackets refer to the patients that achieved response at 24 weeks post-treatment.

Supplementary Table 7. Weighted Kappa consistency test between baseline and week 24

Score/number			Week 24	1	Total
		0	1	2	
Baseline	0	31(3)	8(5)	3(2)	42(10)
	1	5(1)	13(4)	4(3)	22(8)
	2	0(0)	1(0)	10(9)	11(9)
Total		36(4)	22(9)	17(14)	75(27)

Consistent number between scores 0, 1, and 2 at baseline and 12 weeks: 54

Numbers in the brackets refer to the patients that achieved response at 24 weeks post-treatment.