Supplementary Table 2. Full multivariable logistic regression model for HBV mother-to-child-transmission risk analysis: interaction effects between maternal HBeAg status and antiviral prescription with adjusted covariates, 2002–2021

A. Model specification

Logit (MTCT)=β_0+β_1(HBeAg [uk])+β_2(HBeAg [–])+β_3(antiviral)+β_4(HBeAg [uk]×antiviral)+β_5(HBeAg [–])×antiviral)+other covariates

B. Model coefficients

Main effects of interest:

Parameter	β	SE	*P*-value	Exp(β)	95% CI	
Intercept	–1.916	0.227	<0.0001	0.15		
HBeAg (–)	–1.749	0.046	<0.0001	0.17	0.15	0.18
HBeAg (uk)	–0.895	0.040	<0.0001	0.41	0.37	0.43
Antiviral	–1.565	0.208	<0.0001	0.21	0.27	0.47
HBeAg (–) × antiviral	1.334	0.358	0.0002	3.80		
HBeAg (uk) × antiviral	0.944	0.316	0.3022	2.57		

Adjusted covariates:

Parameter		β	SE	*P*-value	Exp(β)	95% CI	
Maternal age (yr)	25–29	–0.384	0.064	<0.0001	0.68	0.60	0.77
	30–34	–0.540	0.065	<0.0001	0.58	0.51	0.66
	35–39	–0.635	0.078	<0.0001	0.53	0.46	0.62
	≥40	–0.697	0.147	<0.0001	0.50	0.37	0.66
	<25	0.000	-	-	-		
Nationality	Non-Korean	0.281	0.070	<0.0001	1.32	1.15	1.52
	Korean	0.000	-	-	-		
Sex of infants	Male	0.077	0.034	0.0235	1.08	1.01	1.16
	Female	0.000	-	-	-		
Gestational age (wk)	<32	–0.121	0.247	0.6237	0.89	0.55	1.44
	32–36	–0.162	0.091	0.0731	0.85	0.71	1.02
	≥41	0.330	0.078	<0.0001	1.39	1.20	1.62
	Unknown	0.205	0.126	0.1038	1.23	0.96	1.57
	37–40	0.000	-	-	-		
Delivery method	Cesarean section	–0.216	0.043	<0.0001	0.81	0.74	0.88
	Unknown	–0.128	0.189	0.4995	0.88	0.61	1.27
	Vaginal	0.000	-	-	-		
Feeding method	Breast	–0.425	0.074	<0.0001	0.65	0.57	0.76
	Mixed	–0.229	0.072	0.0015	0.80	0.69	0.92
	Unknown	–0.234	0.054	<0.0001	0.79	0.71	0.88
	Formula	0.000	-	-	-		
Birth year	2006–2009	–0.166	0.213	0.4369	0.85	0.56	1.29
	2010–2013	–0.368	0.215	0.0870	0.69	0.45	1.06
	2014–2017	–0.380	0.218	0.0816	0.68	0.45	1.05
	2018–2021	–0.533	0.225	0.0179	0.59	0.38	0.91
	2002–2005	0.000	-	-	-		

Reference categories: HBeAg (+), antiviral (non-prescription)

1. Antiviral no (0)

HBeAg (+): OR=1.0 (reference)

HBeAg (uk): OR=exp(β1)=exp(–0.895)=0.41

HBeAg (–): OR=exp(β2)=exp(–1.749)=0.17

2. Antiviral yes (1)

HBeAg (+): OR=exp(β3)=exp(–1.565)=0.21

HBeAg (uk): OR=exp(β1+β3+β4)=exp(–0.895–1.565+0.944)=0.22

HBeAg (–): OR=exp(β2+β3+β5)=exp(–1.749–1.565+1.334)=0.14

Antiviral, antiviral prescription; CI, confidence interval; HBeAg, hepatitis B envelope antigen; MTCT, mother-to-child-transmission; OR, odds ratio; SE, standard error; uk, unknown.