		Туре	Positively	Negatively selected codon positions					
ORF	Sub-	of	selected codon						
	genotype	HBV	position						
Core	D	OBI	None	29	30	43	48	68	90
				92	96	107	145		
Core	D	CHB	None	4	97	117			
Core	А	OBI	None	48	96#	122 #			
Core	А	CHB	None	7	34	43	45	69	96#
				99	114	122 #	145		
Pol	D	OBI	None	rt24	rt318	rh37	rh49	rh65	rh69
				1					
Pol	D	CHB	None	tp4	rt32	rt142	rh30	rh66	rh100
				7					
Pol	А	OBI	None	tp1	tp13	sp95	rt241#	rt281	rh20#
				06	2				
Pol	A	CHB	rt271	tp1	tp48	tp64	tp66	tp69	tp80
				5					
				tp9	tp10	tp132	tp144	tp157	tp171
				5	9				
				rt24	rt249	rt251	rt259	rt279	rt282
				1#					
				rt28	rt307	rt317	rt320	rt334	rh19
				6					
				rh2	rh26	rh43	rh56	rh58	rh81
				0#					
				rh9	rh10				
				2	1				
Х	D	OBI	none	86					
Х	D	СНВ	none	80					
Х	A	OBI	none	95				1	

 Table S1. Immune selection pressure results determined using fixed effects likelihood in the DataMonkey.

S	А	OBI	none	101					
				#					
S	А	СНВ	none	101	148				
				#					
PreS	D	OBI	none	70					
1									
PreS	D	CHB	none	28					
1									
PreS	А	OBI	none	7#	20	42#	85		
1									
PreS	А	CHB	90	7#	29	42#	44	46	56
1									
PreS	А	OBI	none	10					
2									

Immune selection pressure was determined in codons using fixed effects likelihood in the DataMonkey. ORF: open reading frame; HBV: hepatitis B virus; OBI: occult hepatitis B infections; CHB: chronic hepatitis B infections; Pol: Polymerase; S: Surface; PreS1: pre-surface1; PreS2: pre-surface2. The symbol # depicts codons which are under negative selection pressure in both OBI and CHB participants. Codons corresponding to OBI associated mutations positions are shown in bold.

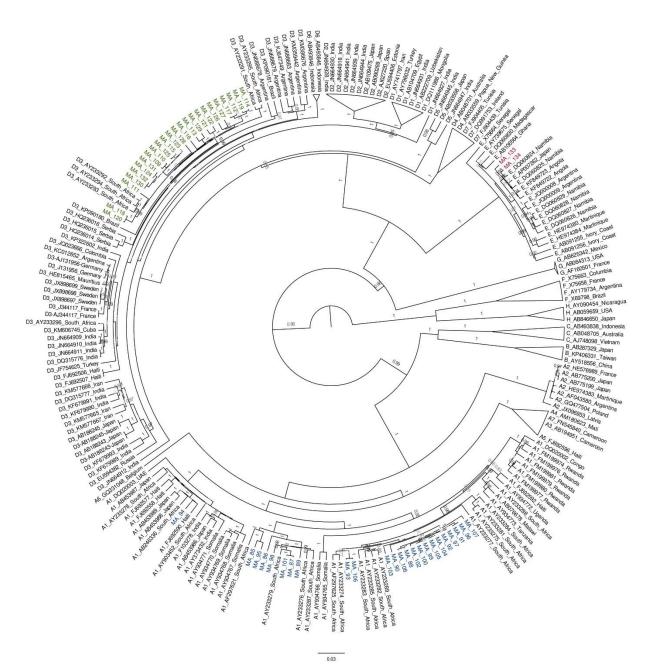


Figure S1. A phylogenetic tree of the nearly whole genome hepatitis B virus (HBV) sequences generated by Bayesian Evolutionary Analysis by Sampling Trees (BEAST). Subgenotype A1 sequences from Botswana are highlighted in blue, subgenotype D3 sequences in green, and genotype E sequences in red. Black sequences represent GenBank references named by their subgenotype, accession number, and country of origin.