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#### Supplementary Table S1. Eligibility Criteria

#### **Inclusion Criteria**

- 1. Aged  $\geq$  18 years;
- 2. Diagnosis of uveitis in unilateral or bilateral eyes;
- 3. Seropositive for the hepatitis B core antibody and negative for hepatitis B surface antigen;
- 3. Individuals qualified in health condition according to medical history, laboratory data, physical examination, chest x-rays, and 12-lead electrocardiogram results taken during screening;
- 4. Those who provide written informed consent;
- 5. Individuals are willing and able to follow visiting plans, treatment plans, laboratory examinations, and other study procedures.

#### **Exclusion Criteria**

- 1. Hepatitis C, hepatitis D, alcoholic liver disease, primary biliary cirrhosis, or autoimmune liver disease;
- 2. Confirmed or suspected infectious uveitis, including but not limited to tuberculosis, cytomegalovirus, Lyme disease, toxoplasmosis, infectious uveitis caused by Human T-lymphotropic virus 1, herpes zoster virus or herpes simplex virus;
- 3. History of moderate to severe congestive heart failure (New York Heart Association classification III or IV), recent cerebrovascular accidents;
- 4. Severe kidney disease, chronic renal failure, or dialysis treatment;
- 5. Severe liver disease or liver fibrosis;
- 6. Severe pulmonary disease, grade 3 or 4 (COPD or oxygen-dependent emphysema);
- 7. Masquerade syndrome, such as eye lymphoma, leukemia, choroid melanoma, etc.;
- 8. Individuals with a history of malignant tumors in other tissues and organs, who have received or are undergoing treatment for malignant tumors, or whose remission period of malignant tumors is less than 5 years;
- 9. HIV positive individuals during screening;
- 10. Individuals with chronic recurrent infection and active tuberculosis may have a history of invasive infection at the time of screening (e.g., listeriosis, histoplasmosis);
- 11. Receiving anti-TB treatment;
- 12. Being receiving anti-viral therapy for hepatitis virus;
- 13. Serum alanine aminotransferase (ALT) concentrations above normal;
- 14. HBV DNA level  $\geq 1 \times 10^7 \text{ IU/mL}$ ;
- 15. Addicted to drugs, alcohol or psychotropic substances;
- 16. Severe mental disorders (e.g., schizophrenia, treatment-resistant bipolar disorder, current severe depression);
- 17. Women of reproductive age who are pregnant or lactating and who are unwilling or unable to use the acceptable contraceptive methods prescribed in the program during the study period;
- 18. For any reason, the researchers do not consider this study suitable for individuals.

# Supplementary Table S2. Laboratory Tests, Medical Device, Reagents and Reference Ranges Used in

#### the Study

Item	Unit	Jnit Reference Range  Lower Limit Upper Limit		<b>Medical Device</b>
				_
ALT	U/L	Male: 9	Male: 50	Roche Cobasc 311 autoanalyzer
		Female: 7	Female: 40	(Roche Diagnostics Inc., Basel, Swiss)
AST	U/L	Male: 15	Male: 40	
		Female: 13	Female: 35	
Total bilirubin	μmol/L	Male: 0	Male: 26	
		Female: 0	Female: 21	
Creatinine	μmol/L	12-59 years old:	12-59 years old:	
		Male: 57	Male: 97	
		Female: 41	Female: 73	
		60-120 years old:	60-120 years old:	
		Male: 57	Male: 111	
		Female: 41	Female: 81	
HBsAg	IU/mL	-	0.05	Commercial enzyme immunoassay kits
Anti-HBs	mIU/mL	-	10.00	(ARCHITECT i4000, Abbott,
HBeAg	S/CO	-	1.00	Wiesbaden, Germany)
Anti-HBe	S/CO	1.00	-	
Anti-HBc	S/CO	-	1.00	
HBV DNA	IU/mL	-	$1 \times 10^2$	Roche Cobas Z480 real-time detection system (Roche systems)

#### **Supplementary Table S3. Definitions of Outcomes**

Outcome	Definition
HBV reactivation	In HBsAg-positive, anti-HBc-positive patients:
	(i) A ≥2 log (100-fold) increase in HBV DNA compared to the baseline leve
	or
	(ii) HBV DNA ≥3 log (1,000) IU/mL in a patient with previously undetectable
	level (since HBV DNA levels fluctuate), or
	(iii) HBV DNA ≥4 log (10,000) IU/mL if the baseline level is not available.
	In HBsAg-negative, anti-HBc-positive patients*:
	(i) HBV DNA is detectable, or
	(ii) Reverse HBsAg seroconversion occurs (reappearance of HBsAg).
Hepatitis flare	Three-fold or more increase in ALT that exceeds the ULN (50 U/L) and an absolu
	increase of ALT that exceeded 100 U/L.
Severe hepatitis	A hepatitis flare with an increase of ALT to more than 10 fold of ULN or bilirub
	to more than 1.5 fold of ULN.

Abbreviations: HBsAg, Hepatitis B surface antigen; Anti-HBc, antibody against Hepatitis B core antigen; ALT, alanine aminotransferase; ULN, upper limit of normal.

Reference: Terrault NA, Lok ASF, McMahon BJ, et al. Update on prevention, diagnosis, and treatment of chronic hepatitis B: AASLD 2018 hepatitis B guidance. Hepatology (Baltimore, Md) 2018;67:1560-99.

<sup>\*</sup> Our study only involved those participants with an HBsAg-negative, anti-HBc-positive status.

#### Supplementary Table S4. Hazard Ratios of Cumulative Prednisone Dose for Primary Composite

#### **Outcome in Cubic Spline Analyses**

Cumulative Prednisone Dose (mg)	<b>Hazard Ratio</b>	Lower Limit of 95% CI	Upper Limit of 95% CI	
0	0.93	0.37	2.33	
56	1.00	0.41	2.46	
502	1.85	0.87	3.92	
004	3.06	1.54	6.10	
506	3.72	1.96	7.08	
2008	3.43	1.99	5.93	
2510	2.53	1.71	3.74	
012	1.57	1.31	1.89	
514	0.87	0.82	0.92	
016	0.45	0.33	0.61	
1518	0.23	0.13	0.39	
020	0.12	0.06	0.26	
024	0.05	0.02	0.13	
7028	0.03	0.01	0.09	
3032	0.02	0.01	0.09	

Data are shown for Figure in the main text. Hazard ratios for the primary composite outcome were estimated with a multivariable Cox regression analysis adjusted for cyclosporine daily dose, age, sex, body mass index, Hepatitis B surface antibody status, serum alanine aminotransferase level, residence, educational level, smoking, drinking, hypertension, diabetes, coronary heart disease, malignancies, uveitis laterality, best corrected visual acuity in the worse-seeing eye, aspartate aminotransferase level, total bilirubin level and creatinine level.

#### Supplementary Table S5. Hazard Ratios of Time-Weighted Average Prednisone Dose for Primary

#### **Composite Outcome in Cubic Spline Analyses**

Time-Weighted	Average	PrednisoneHazard Ratio	Lower Limit of 95% CI	Upper Limit of 95% CI
Dose (mg/day)				
0		0.01	0.00	2.93
2		0.03	0.00	2.22
4		0.08	0.00	1.74
6		0.20	0.03	1.39
8		0.47	0.19	1.16
10		1.03	0.99	1.08
12		1.77	0.91	3.43
14		2.72	0.87	8.55
16		3.27	0.84	12.72
18		3.45	0.81	14.64
20		3.89	0.89	17.11
21		4.37	1.00	19.06
22		5.05	1.17	21.84
24		6.76	1.57	29.02
26		8.85	2.04	38.35
28		11.60	2.62	51.38
30		15.19	3.31	69.75

Data are shown for Figure in the main text. Hazard ratios for the primary composite outcome were estimated with a multivariable Cox regression analysis adjusted for cyclosporine daily dose, age, sex, body mass index, Hepatitis B surface antibody status, serum alanine aminotransferase level, residence, educational level, smoking, drinking, hypertension, diabetes, coronary heart disease, malignancies, uveitis laterality, best corrected visual acuity in the worse-seeing eye, aspartate aminotransferase level, total bilirubin level and creatinine level.

# Supplementary Table S6. Subgroup Analyses Evaluating Time-Weighted Average Prednisone Dose with Risk for the Primary Composite Outcome of HBV Reactivation, Hepatitis Flare and Severe Hepatitis

Subgroups	No. wi	th Even	t/Total 1	No.	Crud	e Incide	nce, 100	ру	Inver	se Prob	ability	Weighte	edP
								Incidence*, 100py				value	
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	_ for
													intera
													ction§
Overall	1/328	15/346	22/494	13/135	0.35	5.06	6.16	12.67	0.75	4.89	5.64	16.67	-
Anti-HBs													0.42
Anti-HBs (-)	0/121	7/129	6/147	5/64	0	6.79	6.03	10.22	0.00	6.25	4.34	24.81	
Anti-HBs (+)	1/207	8/217	16/347	8/71	0.57	4.18	6.21	14.91	1.10	4.21	6.27	13.06	
Use	of												0.47
Cyclosporine													
Cyclosporine	1/27	7/222	14/378	6/106	4.32	3.36	5.11	6.94	1.62	2.75	4.99	8.94	
users													
Cyclosporine	0/301	8/124	8/116	7/29	0	9.12	9.60	43.30	0.00	9.29	6.39	27.42	
nonusers													
<b>ALT Level</b>													0.82
$ALT \leq 20~U/L$	0/226	6/235	7/313	5/74	0	3.07	2.95	8.93	0.00	3.12	2.89	7.63	
ALT > 20 U/L	1/102	9/111	15/181	8/61	1.25	8.92	12.50	17.17	3.23	7.93	11.57	32.46	

Abbreviations: Anti-HBs, antibody against Hepatitis B surface antigen; ALT, alanine aminotransferase.

 $\S P$  values of interaction between each subgroup variable and time-weighted average prednisone dose quartiles estimated in a multivariable Cox regression model. Variables in the model included age, sex, body mass index, residence, educational level, smoking, drinking, hypertension, diabetes, coronary heart disease, malignancies, uveitis laterality, best corrected visual acuity in the worse-seeing eye, the baseline serum alanine aminotransferase level (or categorized as  $\le 20$  U/L vs. > 20 U/L), aspartate aminotransferase level, total bilirubin level, creatinine level, Hepatitis B surface antibody status, cyclosporine daily dose (or categorized as cyclosporine users vs. nonusers), time-weighted average prednisone dose quartiles and the interaction term between each subgroup variable and time-weighted average prednisone dose quartiles.

<sup>\*</sup>Each observation was weighted by the inverse of the probability of a patient being in each quartile. The probability was generated using the multinomial logistic regression with cyclosporine daily dose, age, sex, body mass index, Hepatitis B surface antibody status, serum alanine aminotransferase level, residence, educational level, smoking, drinking, hypertension, diabetes, coronary heart disease, malignancies, uveitis laterality, best corrected visual acuity in the worse-seeing eye, aspartate aminotransferase level, total bilirubin level and creatinine level as independent variables.

#### Supplementary Table S7. Risk for Primary Composite Outcome on the Basis of Baseline Anti-HBs

Baseline Variables	Adjusted Hazard Ratio (95% CI)†		
Anti-HBs Serological Status			
Anti-HBs negative	1 [Reference]		
Anti-HBs positive	0.99 (0.54-1.80)		
Anti-HBs Level			
Anti-HBs < 20 mIU/mL	1 [Reference]		
Anti-HBs $\geq 20 \text{ mIU/mL}$	0.82 (0.47-1.45)		
Anti-HBs Level			
Anti-HBs < 100 mIU/mL	1 [Reference]		
Anti-HBs ≥ 100 mIU/mL	0.83 (0.44-1.55)		

Abbreviations: Anti-HBs, antibody against Hepatitis B surface antigen.

†Data were estimated in the multivariate Cox regression model with adjustment for covariables including age, sex, body mass index, residence, educational level, smoking, drinking, hypertension, diabetes, coronary heart disease, malignancies, uveitis laterality, best corrected visual acuity in the worse-seeing eye, the baseline serum alanine aminotransferase level, aspartate aminotransferase level, total bilirubin level, creatinine level, cyclosporine daily dose and time-weighted average prednisone dose quartiles.

#### Supplementary Table S8. Literature Referring to the Directed Acyclic Graph in Supplementary Figure

#### **S4**

#### No. Reference

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## $Supplementary\ Table\ S9.\ Sensitivity\ Analyses\ with\ Suitable\ Minimally\ Sufficient\ Adjustment\ Sets$

#### Identified by the Directed Acyclic Graph

Analysis: Covariates Hazard Ratio (95% CI)*					
		Q2 vs. Q1	Q3 vs. Q1	Q4 vs. Q1	Per quartile
Cumulative	Prednisone Dose				
Primary	The full set	6.03	0.51	0.06	0.46
analysis		(2.60-14.01)	(0.17-1.52)	(0.01-0.49)	(0.33-0.65)
Minimally	ALT level, AST level, Age, Anti-HBs status, BCVA in th	he6.02	0.50	0.06	0.46
adjustment	worse-seeing eye, BMI, Dose of cyclosporine used, Se	x,(2.63-13.77)	(0.17-1.48)	(0.01-0.51)	(0.33-0.65)
set 1	Uveitis laterality				
Minimally	ALT level, AST level, Age, Anti-HBs status, BCVA in the	he6.19	0.51	0.06	0.46
adjustment set 2	worse-seeing eye, BMI, Creatinine level, Dose cyclosporine used, Sex	of(2.68-14.31)	(0.17-1.50)	(0.01-0.53)	(0.33-0.64)
Minimally	ALT level, AST level, Age, Anti-HBs status, BCVA in the	he6.18	0.51	0.07	0.46
adjustment set 3	worse-seeing eye, BMI, Diabetes, Dose of cyclosporinused, Hypertension, Sex	пе(2.70-14.12)	(0.17-1.52)	(0.01-0.54)	(0.33-0.65)
Minimally	ALT level, AST level, Age, Anti-HBs status, BMI, Dos	se5.91	0.47	0.06	0.45
adjustment set 4	of cyclosporine used, Drinking, Sex, Smoking	(2.58-13.55)	(0.16-1.39)	(0.01-0.49)	(0.32-0.64)
Minimally	ALT level, AST level, Age, Anti-HBs status, BMI, Dos	se6.00	0.48	0.06	0.46
adjustment set 5	of cyclosporine used, Malignancy, Sex	(2.63-13.71)	(0.16-1.41)	(0.01-0.51)	(0.32-0.64)
Minimally	ALT level, AST level, Age, Anti-HBs status, BM	11,6.19	0.49	0.06	0.45
adjustment	Creatinine level, Dose of cyclosporine used	d,(2.67-14.34)	(0.17-1.45)	(0.01-0.52)	(0.32 - 0.64)
set 6	Educational level, Residence, Sex				
Minimally	ALT level, AST level, Age, Anti-HBs status, BM	II,6.12	0.49	0.06	0.46
adjustment	Diabetes, Dose of cyclosporine used, Educational leve	el,(2.67-14.04)	(0.17-1.45)	(0.01-0.52)	(0.32 - 0.64)
set 7	Hypertension, Residence, Sex				
Time-Weigl	hted Average Prednisone Dose				
Primary	The full set	23.90	24.82	49.48	2.15
analysis		(3.09-184.65	)(3.23-190.54	(6.24-392.48	)(1.56-2.98)
Minimally	ALT level, AST level, Age, Anti-HBs status, BCVA in the		24.64	46.81	2.11
adjustment	worse-seeing eye, BMI, Dose of cyclosporine used, Se	x,(3.01-177.30	)(3.24-187.55	)(5.92-370.15	)(1.54-2.91)
set 1	Uveitis laterality				
Minimally	ALT level, AST level, Age, Anti-HBs status, BCVA in the	he23.54	25.71	48.48	2.13
adjustment set 2	worse-seeing eye, BMI, Creatinine level, Dose cyclosporine used, Sex	of(3.06-180.90	)(3.38-195.48	(6.12-384.06	)(1.55-2.93)
Minimally	ALT level, AST level, Age, Anti-HBs status, BCVA in the	he24.28	26.75	48.93	2.14
adjustment set 3	worse-seeing eye, BMI, Diabetes, Dose of cyclosporinused, Hypertension, Sex	ne(3.16-186.61	)(3.52-203.49	)(6.20-386.28	)(1.56-2.93)
set 3	usea, 11yperiension, sex				

Analysis‡	Covariates	Hazard Ra	Hazard Ratio (95% CI)*					
		Q2 vs. Q1	Q3 vs. Q1	Q4 vs. Q1	Per quartile			
					increase <sub>9</sub>			
Minimally	ALT level, AST level, Age, Anti-HBs status, BMI,	Dose21.07	24.90	50.13	2.20			
adjustment	of cyclosporine used, Drinking, Sex, Smoking	(2.75-161.6	0)(3.26-190.2	6) (6.32-397.4	9)(1.59-3.05)			
set 4								
Minimally	ALT level, AST level, Age, Anti-HBs status, BMI,	<i>Dosé</i> 21.45	26.43	48.44	2.16			
adjustment	of cyclosporine used, Malignancy, Sex	(2.80-164.1	8)(3.48-200.8	1)(6.12-383.4	4)(1.57-2.97)			
set 5								
Minimally	ALT level, AST level, Age, Anti-HBs status,	BMI,21.92	27.52	50.98	2.20			
adjustment	Creatinine level, Dose of cyclosporine	used,(2.86-168.1	5)(3.62-209.5	0) (6.42-404.8	7)(1.60-3.03)			
set 6	Educational level, Residence, Sex							
Minimally	ALT level, AST level, Age, Anti-HBs status,	BMI,22.26	28.50	50.97	2.20			
adjustment	Diabetes, Dose of cyclosporine used, Educational	level,(2.90-170.6	5)(3.74-217.1	4)(6.44-403.7	1)(1.60-3.02)			
set 7	Hypertension, Residence, Sex							

<sup>‡</sup>Analyses were performed with the multivariable Cox model adjusted for covariates indicated.

parameter Hazard ratios per quartile increase were computed by modeling the factor as a continuous variable.

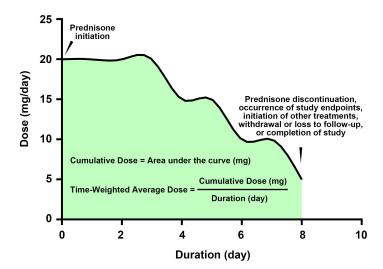
||Hazard ratios were adjusted for daily dose of cyclosporine used, age, sex, body mass index (BMI), Hepatitis B surface antibody (Anti-HBs) status, serum alanine aminotransferase (ALT) level, residence, educational level, smoking, drinking, hypertension, diabetes, coronary heart disease, malignancy, uveitis laterality, best corrected visual acuity (BCVA) in the worse-seeing eye, aspartate aminotransferase (AST) level, total bilirubin level, and creatinine level.

<sup>\*</sup>Values are reported according to the quartile (Q) of cumulative prednisone dose and time-weighted average prednisone dose. The cumulative prednisone dose was categorized as: Q1,  $\leq$ 300 mg; Q2, >300 but  $\leq$ 3000 mg; Q3, >3000 but  $\leq$ 6750 mg; Q4, >6750 mg. The time-weighted average prednisone dose was categorized as: Q1,  $\leq$ 10 mg/day; Q2, >10 but  $\leq$ 15 mg/day; Q3, >15 but  $\leq$ 20 mg/day; Q4, >20 mg/day.

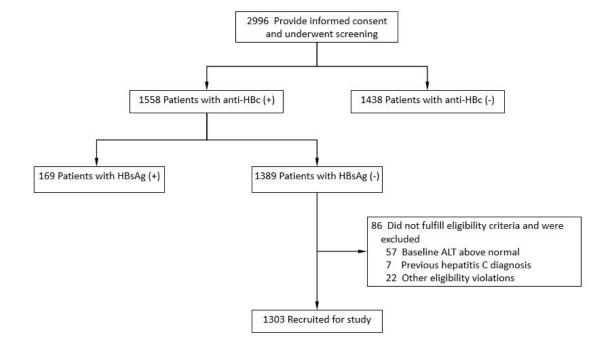
#### Supplementary Figure S1. Determination of Cumulative Dose and Time-Weighted Average Dose of

#### **Prednisone Use**

#### Prednisone duration-dose curve



#### Supplementary Figure S2. Participant Selection Flow Diagram



# Supplementary Figure S3. Subgroup Analyses of per Quartile Increase in Time-Weighted Average Prednisone Dose with Risk for the Primary Composite Outcome of HBV Reactivation, Hepatitis Flare and Severe Hepatitis

Hazard ratios for the primary composite outcome were estimated with a multivariable Cox regression analysis adjusted for the full set of covariates.

Subgroup	No. of events	Total no.	Hazard Ratio (95% CI) Per quartile increase
Anti-HBs			
Anti-HBs (-)	18	461	1.13 (1.05-1.21)
Anti-HBs (+)	33	842	1.19 (1.11-1.28)
Use of Cyclosporine			
Cyclosporine users	28	733	1.11 (1.02-1.20)
Cyclosporine nonusers	23	570	1.22 (1.12-1.34)
ALT Level			
ALT ≤ 20 U/L	18	848	1.19 (1.08-1.30)
ALT > 20 U/L	33	455	1.13 (1.07-1.19)
		0,5	10 15 20

#### Supplementary Figure S4. Directed Acyclic Graph Derived from Literature and Expert Knowledge

Nodes represent variables and arrows represent associations between these variables. Numbers represent available information from the literature (see Supplementary Table 8 for full references).

