

**Supplementary 1.****Demographic and clinical characteristics of subjects with anterior uveitis in the study cohort.**

Label	Age	Gender	HLA-B27 Antigen Level (ng/ $\mu$ L)	Inflammatory Cells grade OD	Inflammatory Cells grade OS	Flare OD	Flare OS
Subject-01	42	F	1.058	0	1	0	1
Subject-02	60	F	4.55	3	0	3	0
Subject-03	63	F	1.36	0	0	0	1
Subject-04	44	F	0.99	0.5	0	1	0
Subject-05	26	F	0.95	0	1	0	1
Subject-06	57	F	1.18	0	1	0	1
Subject-07	54	F	1.07	0	0.5	0	0.5
Subject-08	56	M	4.45	2	2	1	1
Subject-09	62	F	4.41	2	0	2	0
Subject-10	35	F	7.4	0	1	0	1
Subject-11	27	F	1.36	0	0	0.5	0.5
Subject-12	52	F	5.7	0	0	0	1
Subject-13	38	F	0.9	1	1	0	1

**Supplementary 2.****Descriptive statistical analysis of anterior chamber inflammatory cell and flare scores in the right (OD) and left (OS) eyes of subjects with anterior uveitis.**

Statistical Parameter	Inflammatory Cells OD	Inflammatory Cells OS	Flare OD	Flare OS
Mean	0.654	0.577	0.577	0.692
Median	0.000	0.500	0.000	1.000
Minimum	0.000	0.000	0.000	0.000
Maximum	3.000	2.000	3.000	1.000
Range	3.000	2.000	3.000	1.000
IQR (Interquartile Range)	1.000	1.000	1.000	0.500
SD (Standard Deviation)	1.028	0.641	0.954	0.435
CV (%) (Coefficient of Variation)	157.29%	111.02%	165.37%	62.81%
95% CI (Lower Bound)	0.095	0.229	0.058	0.456
95% CI (Upper Bound)	1.213	0.925	1.096	0.929
<i>p</i> -value (Wilcoxon Test)	0.831	0.831	0.546	0.546