## Supplementary Material

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#### SUPPLEMENTARY TABLES

Supplementary Table S1. Comparisons between patients who developed at least one renal flare and	
patients who did not during follow-up in the subgroup of patients treated with IV belimumab 1 mg/kg.	

Patient characteristics         Age; mean (s.d.)       39.2 (11.6)         Female sex; n (%)       294 (94.5)         Ancestries; n (%)       41 (13.2)         Black/African American       27 (8.7)         Indigenous American*       65 (20.9)         White/Caucasian       178 (57.2)         SLE duration (years); median (IQR)       4.5 (1.1–9.2)         Mean BMI (week 0–52); mean (s.d.)       26.6 (6.4)         SLEDAI-2K; mean (s.d.)       9.2 (3.3)         Extra renal cSLEDAI-2K; mean (s.d.)       6.8 (3.0)         SDI score ; median (IQR)       0.0 (0.0–1.0); N=310         SDI score ≥1; n (%)       130 (41.9); N=310         Anti-dsDNA (+); n (%)       191 (61.4)         Anti-Sm (+); n (%)       76 (24.4)         ever       76 (24.4)         ever       76 (24.4)	36.9 (9.3) 13 (100.0) 3 (23.1) 0 (0.0) 5 (38.5) 5 (38.5) 1.6 (0.6–3.7) 25.9 (7.7) 8.5 (1.9) 6.2 (1.5) 0.0 (0.0–1.0)	39.3 (11.7) 281 (94.3) 38 (12.8) 27 (9.1) 60 (20.1) 173 (58.1) 4.6 (1.2–9.5) 26.6 (6.4) 9.3 (3.3)	0.500 0.793 0.510 0.527 0.214 0.266 0.068 0.450
Female sex; n (%)       294 (94.5)         Ancestries; n (%)       Asian         Asian       41 (13.2)         Black/African American       27 (8.7)         Indigenous American*       65 (20.9)         White/Caucasian       178 (57.2)         SLE duration (years); median (IQR)         4.5 (1.1–9.2)         Mean BMI (week 0–52); mean (s.d.)       26.6 (6.4)         SLEDAI-2K; mean (s.d.)       9.2 (3.3)         Extra renal cSLEDAI-2K; mean (s.d.)       6.8 (3.0)         SDI score; median (IQR)       0.0 (0.0–1.0); N=310         SDI score ≥1; n (%)       130 (41.9); N=310         Anti-dsDNA (+); n (%)         at baseline       76 (24.4)         ever       76 (24.4)         Anti-RNP (+); n (%)       4.5 (24.4)	13 (100.0) 3 (23.1) 0 (0.0) 5 (38.5) 5 (38.5) 1.6 (0.6–3.7) 25.9 (7.7) 8.5 (1.9) 6.2 (1.5)	281 (94.3) 38 (12.8) 27 (9.1) 60 (20.1) 173 (58.1) 4.6 (1.2–9.5) 26.6 (6.4)	0.793 0.510 0.527 0.214 0.266 0.068
Ancestries; n (%)       41 (13.2)         Black/African American       27 (8.7)         Indigenous American*       65 (20.9)         White/Caucasian       178 (57.2)         SLE duration (years); median (IQR)       4.5 (1.1–9.2)         Mean BMI (week 0–52); mean (s.d.)       26.6 (6.4)         SLEDAI-2K; mean (s.d.)       9.2 (3.3)         Extra renal cSLEDAI-2K; mean (s.d.)       6.8 (3.0)         SDI score; median (IQR)       0.0 (0.0–1.0); N=310         SDI score ≥1; n (%)       130 (41.9); N=310         Anti-dsDNA (+); n (%)       191 (61.4)         Anti-Sm (+); n (%)       76 (24.4)         ever       76 (24.4)         Anti-RNP (+); n (%)       191 (61.4)	3 (23.1) 0 (0.0) 5 (38.5) 5 (38.5) 1.6 (0.6–3.7) 25.9 (7.7) 8.5 (1.9) 6.2 (1.5)	38 (12.8) 27 (9.1) 60 (20.1) 173 (58.1) 4.6 (1.2–9.5) 26.6 (6.4)	0.510 0.527 0.214 0.266
Asian       41 (13.2)         Black/African American       27 (8.7)         Indigenous American*       65 (20.9)         White/Caucasian       178 (57.2)         SLE duration (years); median (IQR)       4.5 (1.1–9.2)         Mean BMI (week 0–52); mean (s.d.)       26.6 (6.4)         SLEDAI-2K; mean (s.d.)       9.2 (3.3)         Extra renal cSLEDAI-2K; mean (s.d.)       6.8 (3.0)         SDI score; median (IQR)       0.0 (0.0–1.0); N=310         SDI score ≥1; n (%)       130 (41.9); N=310         Anti-dsDNA (+); n (%)       191 (61.4)         Anti-Sm (+); n (%)       76 (24.4)         ever       76 (24.4)         Anti-RNP (+); n (%)       191 (61.4)	0 (0.0) 5 (38.5) 5 (38.5) 1.6 (0.6–3.7) 25.9 (7.7) 8.5 (1.9) 6.2 (1.5)	27 (9.1) 60 (20.1) 173 (58.1) 4.6 (1.2–9.5) 26.6 (6.4)	0.527 0.214 0.266
Black/African American       27 (8.7)         Indigenous American*       65 (20.9)         White/Caucasian       178 (57.2)         SLE duration (years); median (IQR)       4.5 (1.1–9.2)         Mean BMI (week 0–52); mean (s.d.)       26.6 (6.4)         SLEDAI-2K; mean (s.d.)       9.2 (3.3)         Extra renal cSLEDAI-2K; mean (s.d.)       6.8 (3.0)         SDI score; median (IQR)       0.0 (0.0–1.0); N=310         SDI score ≥1; n (%)       130 (41.9); N=310         Anti-dsDNA (+); n (%)       191 (61.4)         Anti-Sm (+); n (%)       76 (24.4)         ever       76 (24.4)         ever       76 (24.4)	0 (0.0) 5 (38.5) 5 (38.5) 1.6 (0.6–3.7) 25.9 (7.7) 8.5 (1.9) 6.2 (1.5)	27 (9.1) 60 (20.1) 173 (58.1) 4.6 (1.2–9.5) 26.6 (6.4)	0.527 0.214 0.266
Indigenous American* $65 (20.9)$ White/Caucasian $178 (57.2)$ SLE duration (years); median (IQR) $4.5 (1.1-9.2)$ Mean BMI (week 0–52); mean (s.d.) $26.6 (6.4)$ SLEDAI-2K; mean (s.d.) $9.2 (3.3)$ Extra renal cSLEDAI-2K; mean (s.d.) $6.8 (3.0)$ SDI score; median (IQR) $0.0 (0.0-1.0)$ ; N=310         SDI score ≥1; n (%) $130 (41.9)$ ; N=310         Anti-dsDNA (+); n (%) $191 (61.4)$ Anti-Sm (+); n (%) $76 (24.4)$ ever $76 (24.4)$ ever $76 (24.4)$ ever $76 (24.4)$	5 (38.5) 5 (38.5) 1.6 (0.6–3.7) 25.9 (7.7) 8.5 (1.9) 6.2 (1.5)	60 (20.1) 173 (58.1) 4.6 (1.2–9.5) 26.6 (6.4)	0.214 0.266 0.068
White/Caucasian $178 (57.2)$ SLE duration (years); median (IQR) $4.5 (1.1-9.2)$ Mean BMI (week 0–52); mean (s.d.) $26.6 (6.4)$ SLEDAI-2K; mean (s.d.) $9.2 (3.3)$ Extra renal cSLEDAI-2K; mean (s.d.) $6.8 (3.0)$ SDI score; median (IQR) $0.0 (0.0-1.0); N=310$ SDI score $\geq 1; n (\%)$ $130 (41.9); N=310$ Anti-dsDNA (+); n (%) $191 (61.4)$ Anti-Sm (+); n (%) $76 (24.4)$ ever $76 (24.4)$ ever $76 (24.4)$ ever $76 (24.4)$	5 (38.5) 1.6 (0.6–3.7) 25.9 (7.7) 8.5 (1.9) 6.2 (1.5)	173 (58.1) 4.6 (1.2–9.5) 26.6 (6.4)	0.266
SLE duration (years); median (IQR)       4.5 (1.1–9.2)         Mean BMI (week 0–52); mean (s.d.)       26.6 (6.4)         SLEDAI-2K; mean (s.d.)       9.2 (3.3)         Extra renal cSLEDAI-2K; mean (s.d.)       6.8 (3.0)         SDI score; median (IQR)       0.0 (0.0–1.0); N=310         SDI score $\geq 1$ ; n (%)       130 (41.9); N=310         Anti-dsDNA (+); n (%)       191 (61.4)         Anti-Sm (+); n (%)       76 (24.4)         ever       76 (24.4)         ever       76 (24.4)         ever       76 (24.4)	1.6 (0.6–3.7) 25.9 (7.7) 8.5 (1.9) 6.2 (1.5)	4.6 (1.2–9.5) 26.6 (6.4)	0.068
Mean BMI (week 0–52); mean (s.d.)       26.6 (6.4)         SLEDAI-2K; mean (s.d.)       9.2 (3.3)         Extra renal cSLEDAI-2K; mean (s.d.)       6.8 (3.0)         SDI score; median (IQR) $0.0 (0.0-1.0)$ ; N=310         SDI score $\geq 1$ ; n (%)       130 (41.9); N=310         Anti-dsDNA (+); n (%)       191 (61.4)         Anti-Sm (+); n (%)       76 (24.4)         ever       76 (24.4)         ever       76 (24.4)	25.9 (7.7) 8.5 (1.9) 6.2 (1.5)	26.6 (6.4)	
Mean BMI (week 0–52); mean (s.d.)       26.6 (6.4)         SLEDAI-2K; mean (s.d.)       9.2 (3.3)         Extra renal cSLEDAI-2K; mean (s.d.)       6.8 (3.0)         SDI score; median (IQR) $0.0 (0.0-1.0)$ ; N=310         SDI score $\geq 1$ ; n (%)       130 (41.9); N=310         Anti-dsDNA (+); n (%)       191 (61.4)         Anti-Sm (+); n (%)       76 (24.4)         ever       76 (24.4)         ever       76 (24.4)	25.9 (7.7) 8.5 (1.9) 6.2 (1.5)	26.6 (6.4)	
SLEDAI-2K; mean (s.d.) $9.2 (3.3)$ Extra renal cSLEDAI-2K; mean (s.d.) $6.8 (3.0)$ SDI score; median (IQR) $0.0 (0.0-1.0); N=310$ SDI score $\geq 1; n (\%)$ $130 (41.9); N=310$ Anti-dsDNA (+); n (%) $191 (61.4)$ Anti-Sm (+); n (%) $76 (24.4)$ ever $76 (24.4)$ ever $76 (24.4)$ ever $76 (24.4)$	8.5 (1.9) 6.2 (1.5)		0.450
Extra renal cSLEDAI-2K; mean (s.d.) $6.8 (3.0)$ SDI score; median (IQR) $0.0 (0.0-1.0); N=310$ SDI score $\geq 1; n (\%)$ $130 (41.9); N=310$ Anti-dsDNA (+); n (%) $191 (61.4)$ Anti-Sm (+); n (%) $76 (24.4)$ ever $76 (24.4)$ ever $76 (24.4)$	6.2 (1.5)	9.3 (3.3)	
SDI score; median (IQR) $0.0 (0.0-1.0); N=310$ SDI score $\geq 1; n (\%)$ $130 (41.9); N=310$ Anti-dsDNA (+); n (%) $191 (61.4)$ Anti-Sm (+); n (%) $76 (24.4)$ ever $76 (24.4)$ Anti-RNP (+); n (%) $76 (24.4)$			0.470
SDI score ≥1; n (%) Anti-dsDNA (+); n (%) Anti-Sm (+); n (%) at baseline 76 (24.4) ever 76 (24.4) Anti-RNP (+); n (%) 76 (24.4)	0.0 (0.0–1.0)	6.8 (3.0)	0.469
Anti-dsDNA (+); n (%) Anti-Sm (+); n (%) at baseline ever 76 (24.4) ever 76 (24.4) Anti-RNP (+); n (%) at baseline		0.0 (0.0–1.0); N=297	0.929
Anti-Sm (+); n (%) at baseline 76 (24.4) ever 76 (24.4) Anti-RNP (+); n (%)	6 (46.2)	124 (41.8); N=297	0.978
Anti-Sm (+); n (%) at baseline 76 (24.4) ever 76 (24.4) Anti-RNP (+); n (%)			
at baseline 76 (24.4) ever 76 (24.4) Anti-RNP (+); n (%)	8 (61.5)	183 (61.4)	1.000
ever 76 (24.4) Anti-RNP (+); n (%)			
Anti-RNP (+); n (%)	3 (23.1)	73 (24.5)	1.000
- 4 h 1 h	3 (23.1)	73 (24.5)	1.000
at baseline NA			
	NA	NA	NA
ever NA	NA	NA	NA
Anti-ribosomal P (+); n (%)			
at baseline 108 (35.4); N=305	6 (50.0); N=12	102 (34.8); N=293	0.441
ever 108 (35.4); N=305	6 (50.0); N=12	102 (34.8): N=293	0.441
aPL (+); n (%)			
aCL			
aCL IgA 3 (1.0); N=309	0 (0.0)	3 (1.0); N=296	0.014
aCL IgG 69 (22.2)	7 (53.8)	60 (20.8)	0.598
aCL IgM 24 (7.7)	2 (15.4)	22 (7.4)	0.001
Anti-β <sub>2</sub> -GPI	2 (13.4)	22 (1.1)	0.001
anti- $\beta_2$ -GPI IgA NA	NA	NA	NA
anti- $\beta_2$ -GPI IgG NA	NA	NA	NA

anti- $\beta_2$ -GPI IgM	NA	NA	NA	NA
LAC	NA	NA	NA	NA
aPL (+) ever	81 (26.0)	9 (69.2)	72 (24.2)	0.001
BAFF (ng/mL); mean (s.d.)	1.64 (1.20); N=309	1.59 (1.22); N=12	1.64 (1.20); N=297	0.603
Low C3 levels; n (%)	125 (40.2)	5 (38.5)	120 (40.3)	1.000
Low C4 levels; n (%)	160 (51.4)	7 (53.8)	153 (51.3)	1.000
Serum albumin (g/L); mean (s.d.)	41.21 (3.83)	40.85 (3.13)	41.23 (3.86)	0.661
Serum creatinine (µmol/L); mean (s.d.)	70.17 (13.37)	61.54 (9.08)	70.54 (13.41)	0.009
UPCR (mg/mg); mean (s.d.)	0.12 (0.07)	0.11 (0.04)	0.12 (0.07)	0.561
eGFR (mL/min); mean (s.d.)	107.25 (32.64)	107.15 (20.76)	107.26 (33.09)	0.633
Prednisone equivalent dose during follow-up	9.59 (7.70)	10.79 (8.79)	9.54 (7.67)	0.628
Treatment at baseline; n (%)				
Antimalarial agents <sup><math>\dagger</math></sup>	200 (64.3)	7 (53.8)	193 (64.8)	0.611
Immunosuppressants				
Azathioprine	64 (20.6)	1 (7.7)	63 (21.1)	0.410
Methotrexate	53 (17.0)	1 (7.7)	52 (17.4)	0.590
Mycophenolic acid	21 (6.8)	0 (0.0)	21 (7.0)	0.670
Oral cyclophosphamide	5 (1.6)	0 (0.0)	5 (1.7)	1.000
Tacrolimus	4 (1.3)	0 (0.0)	4 (1.3)	1.000
Cyclosporine	9 (2.9)	1 (7.7)	8 (2.7)	0.834
Leflunomide	7 (2.3)	1 (7.7)	6 (2.0)	0.692

Data are presented as numbers (percentage) or means (standard deviation). In case of non-normal distributions, the medians (interquartile range) are indicated. In case of missing values, numbers of patients with available data are indicated. Statistically significant *P* values are in bold. Data on anti-RNP, anti- $\beta_2$ -GPI, and LAC positivity were not available for this population.

(+): positive levels; aCL: anti cardiolipin antibodies; anti- $\beta_2$ -GPI: anti- $\beta_2$ -glycoprotein I antibodies; anti-dsDNA: antidouble-stranded DNA antibodies; anti-RNP: anti-ribonucleoprotein antibodies; anti-Sm: anti-Smith antibodies; aPL: antiphospholipid antibodies; BAFF: B cell activating factor belonging to the TNF ligand family; BMI: body mass index; C3: complement component 3; C4: complement component 4; cSLEDAI-2K: clinical SLEDAI-2K; eGFR: estimated glomerular filtration rate; Ig: immunoglobulin; IQR: interquartile range; IV: intravenous; LAC: lupus anticoagulant; NA: not applicable; s.d.: standard deviation; SDI: Systemic Lupus International Collaborating Clinics (SLICC)/American College of Rheumatology (ACR) Damage Index; SLE: systemic lupus erythematosus; SLEDAI-2K: Systemic Lupus Erythematosus Disease Activity Index 2000; UPCR: urinary protein/creatinine ratio.

\*Alaska Native or American Indian from North, South or Central America.

**Supplementary Table S2.** Comparisons between patients who developed at least one renal flare and patients who did not during follow-up in the subgroup of patients treated with IV belimumab 10 mg/kg.

	All patients (N=602)	Renal flare (N=48)	No renal flare (N=554)	P value
Patient characteristics				
Age; mean (s.d.)	37.6 (11.3)	36.4 (10.5)	37.7 (11.4)	0.478
Female sex; n (%)	584 (97.0)	46 (95.8)	538 (97.1)	0.954
Ancestries; n (%)				
Asian	180 (29.9)	22 (45.8)	158 (28.5)	0.019
Black/African American	184 (30.6)	11 (22.9)	173 (31.2)	0.300
Indigenous American*	68 (11.3)	3 (6.2)	65 (11.7)	0.361
White/Caucasian	170 (28.2)	12 (25.0)	158 (28.5)	0.724
Clinical data at baseline				
SLE duration (years); median (IQR)	3.9 (1.5–8.5); N=601	3.5 (1.1-8.5)	3.9 (1.5–8.5); N=553	0.676
Mean BMI (week 0–52); mean (s.d.)	26.1 (6.6); N=565	24.7 (5.8); N=42	26.2 (6.6); N=523	0.135
SLEDAI-2K; mean (s.d.)	9.4 (3.1)	8.3 (2.9)	9.5 (3.1)	0.006
Extra renal cSLEDAI-2K; mean (s.d.)	7.1 (3.0)	5.8 (2.5)	7.2 (3.0)	0.001
SDI score; median (IQR)	0.0 (0.0–1.0); N=601	0.0 (0.0-1.0)	0.0 (0.0–1.0); N=553	0.713
SDI score ≥1; n (%)	201 (33.4); N=601	17 (35.4)	184 (33.3); N=553	0.887
Serological profile at baseline				
Anti-dsDNA (+); n (%)	379 (63.0)	34 (70.8)	345 (62.3)	0.307
Anti-Sm (+); n (%)				
at baseline	82 (25.8); N=318	7 (29.2); N=24	75 (25.5); N=294	0.880
ever	82 (25.8); N=318	7 (29.2); N=24	75 (25.5); N=294	0.880
Anti-RNP (+); n (%)				
at baseline	54 (36.0); N=9	3 (33.3); N=9	51 (36.2); N=141	1.000
ever	54 (36.0); N=9	3 (33.3); N=9	51 (36.2); N=141	1.000
Anti-ribosomal P (+); n (%)				
at baseline	135 (29.3); N=460	11 (33.3); N=33	124 (29.0); N=427	0.746
ever	135 (29.3); N=460	11 (33.3); N=33	124 (29.0); N=427	0.746
aPL (+); n (%)				
aCL				
aCL IgA	9 (1.6); N=563	2 (4.3); N=46	7 (1.4); N=517	0.348
aCL IgG	67 (11.9); N=564	7 (15.2); N=46	60 (11.6); N=518	0.622
aCL IgM	64 (11.3); N=564	6 (13.0); N=46	58 (11.2); N=518	0.892
Anti-β <sub>2</sub> -GPI				
anti-β <sub>2</sub> -GPI IgA	23 (15.1); N=152	3 (33.3); N=9	20 (14.0); N=143	0.275
anti-β2-GPI IgG	2 (1.3); N=152	0 (0.0); N=9	2 (1.4); N=143	1.000
anti-\$\beta_2-GPI IgM	12 (7.9); N=152	0 (0.0); N=9	12 (8.4); N=143	0.788
aiiti-p2-OF1 igivi	12 (7.9); N=152	0 (0.0); N=9	12 (8.4); N=143	0

LAC	19 (12.9); N=147	0 (0.0); N=9	19 (13.8); N=138	0.496
aPL (+) ever	170 (30.1); N=564	14 (30.4); N=46	156 (30.1); N=518	1.000
BAFF (ng/mL); mean (s.d.)	1.45 (1.03); N=441	1.24 (0.79); N=38	1.47 (1.05); N=403	0.078
Low C3 levels; n (%)	252 (41.9)	23 (47.9)	229 (41.3)	0.463
Low C4 levels; n (%)	231 (38.4)	21 (43.8)	210 (37.9)	0.520
Renal markers at baseline				
Serum albumin (g/L); mean (s.d.)	41.39 (3.67)	41.83 (4.65)	41.35 (3.57)	0.499
Serum creatinine (µmol/L); mean (s.d.)	65.37 (14.21)	67.67 (17.99)	65.17 (13.84)	0.763
UPCR (mg/mg); mean (s.d.)	0.13 (0.08)	0.13 (0.10)	0.13 (0.08)	0.842
eGFR (mL/min); mean (s.d.)	115.41 (35.28); N=601	111.81 (39-51)	115.73 (34.91); N=553	0.371
Medications				
Prednisone equivalent dose during follow-up	9.90 (7.70)	11.72 (10.04)	9.75 (7.45)	0.363
Treatment at baseline; n (%)				
Antimalarial agents $^{\dagger}$	406 (67.4)	33 (68.8)	373 (67.3)	0.967
Immunosuppressants				
Azathioprine	116 (19.3)	7 (14.6)	109 (19.7)	0.505
Methotrexate	82 (13.6)	5 (10.4)	77 (13.9)	0.649
Mycophenolic acid	60 (10.0)	11 (22.9)	49 (8.8)	0.004
Oral cyclophosphamide	7 (1.2)	2 (4.2)	5 (0.9)	0.186
Tacrolimus	10 (1.7)	1 (2.1)	9 (1.6)	1.000
Cyclosporine	19 (3.2)	2 (4.2)	17 (3.1)	1.000
Leflunomide	18 (3.0)	1 (2.1)	17 (3.1)	1.000

(+): positive levels; aCL: anti cardiolipin antibodies; anti- $\beta_2$ .GPI: anti- $\beta_2$ -glycoprotein I antibodies; anti-dsDNA: antidouble-stranded DNA antibodies; anti-RNP: anti-ribonucleoprotein antibodies; anti-Sm: anti-Smith antibodies; aPL: antiphospholipid antibodies; BAFF: B cell activating factor belonging to the TNF ligand family; BMI: body mass index; C3: complement component 3; C4: complement component 4; cSLEDAI-2K: clinical SLEDAI-2K; eGFR: estimated glomerular filtration rate; Ig: immunoglobulin; IQR: interquartile range; IV: intravenous; LAC: lupus anticoagulant; s.d.: standard deviation; SDI: Systemic Lupus International Collaborating Clinics (SLICC)/American College of Rheumatology (ACR) Damage Index; SLE: systemic lupus erythematosus; SLEDAI-2K: Systemic Lupus Erythematosus Disease Activity Index 2000; UPCR: urinary protein/creatinine ratio.

\*Alaska Native or American Indian from North, South or Central America.

**Supplementary Table S3.** Comparisons between patients who developed at least one renal flare and patients who did not during follow-up in the subgroup of patients treated with SC belimumab 200 mg.

	All patients (N=343)	Renal flare (N=18)	No renal flare (N=325)	P value
Patient characteristics				
Age; mean (s.d.)	39.8 (12.1)	46.1 (13.2)	39.5 (12.0)	0.066
Female sex; n (%)	327 (95.3)	17 (94.4)	310 (95.4)	1.000
Ancestries; n (%)				
Asian	44 (12.8)	1 (5.6)	43 (13.2)	0.558
Black/African American	29 (8.5)	4 (22.2)	25 (7.7)	0.085
Indigenous American*	29 (8.5)	1 (5.6)	28 (8.6)	0.985
White/Caucasian	241 (70.3)	12 (66.7)	229 (70.5)	0.938
Clinical data at baseline				
SLE duration (years); median (IQR)	4.3 (1.1-8.9)	3.0 (1.2-8.4)	4.3 (1.2–8.9)	0.876
Mean BMI (week 0–52); mean (s.d.)	26.6 (6.4); N=342	27.0 (5.7)	26.6 (6.5); N=324	0.482
SLEDAI-2K; mean (s.d.)	10.2 (2.6)	9.4 (1.7)	10.2 (2.6)	0.301
Extra renal cSLEDAI-2K; mean (s.d.)	8.1 (2.6)	7.4 (1.4)	8.1 (2.7)	0.281
SDI score; median (IQR)	0.0 (0.0–1.0)	1.0 (0.0–1.8)	0.0 (0.0–1.0)	0.012
SDI score ≥1; n (%)	121 (35.3)	11 (61.1)	110 (33.8)	0.035
Serological profile at baseline				
Anti-dsDNA (+); n (%)	215 (62.7)	12 (66.7)	203 (62.5)	0.913
Anti-Sm (+); n (%)				
at baseline	77 (22.8); N=337	7 (38.9)	70 (21.9); N=319	0.168
ever	78 (23.1); N=338	7 (38.9)	71 (22.2); N=320	0.177
Anti-RNP (+); n (%)				
at baseline	94 (28.1); N=335	4 (23.5); N=17	90 (28.3); N=318	0.881
ever	95 (28.1); N=338	4 (22.2)	91 (28.4); N=320	0.763
Anti-ribosomal P (+); n (%)				
at baseline	71 (21.1); N=337	1 (5.6)	70 (21.9); N=319	0.173
ever	71 (21.1); N=337	1 (5.6)	70 (21.9); N=319	0.173
aPL (+); n (%)				
aCL				
aCL IgA	10 (2.9); N=340	2 (11.1)	8 (2.5); N=322	0.164
aCL IgG	26 (7.6); N=340	2 (11.1)	24 (7.5); N=322	0.910
aCL IgM	50 (14.7); N=340	2 (11.1)	48 (14.9); N=322	0.920
Anti-β <sub>2</sub> -GPI				
anti-β2-GPI IgA	55 (16.4); N=336	3 (16.7)	52 (16.4); N=318	1.000
anti-β2-GPI IgG	10 (3.0); N=336	1 (5.6)	9 (2.8); N=318	1.000
		- (0.0)	. (),	1.000

LAC	73 (21.9); N=334	4 (22.2)	69 (21.8); N=316	1.000
aPL (+) ever	207 (60.3)	9 (5.0)	198 (60.9)	0.500
BAFF (ng/mL); mean (s.d.)	1.46 (1.04); N=341	1.45 (0.60)	1.46 (1.06); N=323	0.585
Low C3 levels; n (%)	126 (36.7)	6 (33.3)	120 (36.9)	0.955
Low C4 levels; n (%)	85 (24.8)	4 (22.2)	81 (24.9)	1.000
Renal markers at baseline				
Serum albumin (g/L); mean (s.d.)	42.10 (3.68)	40.89 (5.28)	42.16 (1.06)	0.485
Serum creatinine (µmol/L); mean (s.d.)	65.18 (13.83)	75.17 (18.93)	64.63 (13.32)	0.007
UPCR (mg/mg); mean (s.d.)	0.12 (0.07)	0.14 (0.11)	0.11 (0.07)	0.515
eGFR (mL/min); mean (s.d.)	117.36 (38.31)	103.78 (42.74)	118.11 (37.98)	0.059
Medications				
Prednisone equivalent dose during follow-up	9.52 (7.32)	10.42 (9.35)	9.47 (7.21)	0.852
Treatment at baseline; n (%)				
Antimalarial agents <sup><math>\dagger</math></sup>	236 (68.8)	6 (33.3)	230 (70.8)	0.002
Immunosuppressants				
Azathioprine	65 (19.0)	2 (11.1)	63 (19.4)	0.573
Methotrexate	38 (11.1)	1 (5.6)	37 (11.4)	0.703
Mycophenolic acid	24 (7.0)	3 (16.7)	21 (6.5)	0.239
Oral cyclophosphamide	3 (0.9)	2 (11.1)	1 (0.3)	< 0.001
Tacrolimus	9 (2.6)	1 (5.6)	8 (2.5)	0.967
Cyclosporine	8 (2.3)	0 (0.0)	8 (2.5)	1.000
Leflunomide	4 (1.2)	1 (5.6)	3 (0.9)	0.513

(+): positive levels; aCL: anti cardiolipin antibodies; anti- $\beta_2$ .GPI: anti- $\beta_2$ -glycoprotein I antibodies; anti-dsDNA: antidouble-stranded DNA antibodies; anti-RNP: anti-ribonucleoprotein antibodies; anti-Sm: anti-Smith antibodies; aPL: antiphospholipid antibodies; BAFF: B cell activating factor belonging to the TNF ligand family; BMI: body mass index; C3: complement component 3; C4: complement component 4; cSLEDAI-2K: clinical SLEDAI-2K; eGFR: estimated glomerular filtration rate; Ig: immunoglobulin; IQR: interquartile range; LAC: lupus anticoagulant; SC: subcutaneous; s.d.: standard deviation; SDI: Systemic Lupus International Collaborating Clinics (SLICC)/American College of Rheumatology (ACR) Damage Index; SLE: systemic lupus erythematosus; SLEDAI-2K: Systemic Lupus Erythematosus Disease Activity Index 2000; UPCR: urinary protein/creatinine ratio.

\*Alaska Native or American Indian from North, South or Central America.

	All patients (N=588)	Renal flare (N=57)	No renal flare (N=531)	P value
Patient characteristics				
Age; mean (s.d.)	38.6 (12.2)	33.8 (10.6)	39.1 (12.2)	0.002
Female sex; n (%)	564 (95.9)	56 (98.2)	508 (95.7)	0.560
Ancestries; n (%)				
Asian	131 (22.3)	17 (29.8)	114 (21.5)	0.203
Black/African American	99 (16.8)	9 (15.8)	90 (16.9)	0.971
Indigenous American*	81 (13.8)	10 (17.5)	71 (13.4)	0.505
White/Caucasian	277 (47.1)	21 (36.8)	256 (48.2)	0.135
Clinical data at baseline				
SLE duration (years); median (IQR)	4.2 (1.5–9.6)	3.3 (1.5–9.2)	4.4 (1.5–9.6)	0.567
Mean BMI (week 0–52); mean (s.d.)	26.0 (6.2); N=575	24.8 (5.3); N=53	26.2 (6.3); N=522	0.143
SLEDAI-2K; mean (s.d.)	9.4 (2.9)	9.9 (3.8)	9.3 (2.7)	0.768
Extra renal cSLEDAI-2K; mean (s.d.)	7.1 (2.8)	6.8 (3.8)	7.2 (2.6)	0.054
SDI score; median (IQR)	0.0 (0.0–1.0)	0.0 (0.0–1.0)	0.0 (0.0–1.0)	0.050
SDI score ≥1; n (%)	223 (37.9)	15 (26.3)	208 (39.2)	0.079
Serological profile at baseline				
Anti-dsDNA (+); n (%)	368 (62.6)	47 (82.5)	321 (60.5)	0.002
Anti-Sm (+); n (%)				
at baseline	113 (24.2); N=467	14 (36.8); N=38	99 (23.1); N=429	0.089
ever	115 (24.6); N=468	14 (36.8); N=38	101 (23.5); N=430	0.102
Anti-RNP (+); n (%)				
at baseline	58 (25.9); N=224	13 (61.9); N=21	45 (22.2); N=203	< 0.001
ever	58 (25.9); N=224	13 (61.9); N=21	45 (22.2); N=203	< 0.001
Anti-ribosomal P (+); n (%)				
at baseline	149 (28.9); N=515	23 (48.9); N=47	126 (26.9); N=468	0.003
ever	149 (28.9); N=515	23 (48.9); N=47	126 (26.9); N=468	0.003
aPL (+); n (%) aCL				
aCL IgA	12 (2.1); N=569	2 (3.5)	10 (2.0); N=512	0.772
aCL IgG	81 (14.2); N=569	12 (21.1)	69 (13.5); N=512	0.176
aCL IgM	44 (7.7); N=569	4 (7.0)	40 (7.8); N=512	1.000
Anti-β <sub>2</sub> -GPI				
anti- $\beta_2$ -GPI IgA	39 (17.3); N=226	6 (28.6); N=21	33 (16.1); N=205	0.255
anti-β <sub>2</sub> -GPI IgG	11 (4.9); N=226	1 (4.8); N=21	10 (4.9); N=205	1.000
anti-\$\beta_2-GPI IgM	11 (4.9); N=226	1 (4.8); N=21	10 (4.9); N=205	1.000
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**Supplementary Table S4.** Comparisons between patients who developed at least one renal flare and patients who did not during follow-up in the subgroup of placebo recipients.

aPL (+) ever	216 (37.9); N=570	26 (45.6)	190 (37.0); N=513	0.262
BAFF (ng/mL); mean (s.d.)	1.43 (0.92); N=526	1.46 (0.96); N=48	1.42 (0.92); N=478	0.954
Low C3 levels; n (%)	229 (38.9)	36 (63.2)	193 (36.3)	< 0.001
Low C4 levels; n (%)	210 (35.7)	32 (56.1)	178 (33.5)	0.001
Renal markers at baseline				
Serum albumin (g/L); mean (s.d.)	41.44 (3.66)	40.16 (2.94)	41.58 (3.70)	0.003
Serum creatinine (µmol/L); mean (s.d.)	66.65 (14.55)	65.44 (18.97)	66.79 (14.01)	0.041
UPCR (mg/mg); mean (s.d.)	0.12 (0.07)	0.13 (0.06)	0.12 (0.07)	0.012
eGFR (mL/min); mean (s.d.)	112.04 (34.25)	115.40 (36.89)	111.68 (33.98)	0.266
Medications				
Prednisone equivalent dose during follow-up	10.42 (8.39)	14.60 (8.49)	9.98 (8.27)	< 0.001
Treatment at baseline; n (%)				
Antimalarial agents $^{\dagger}$	416 (70.7)	43 (75.4)	373 (70.2)	0.505
Immunosuppressants				
Azathioprine	107 (18.2)	12 (21.1)	95 (17.9)	0.684
Methotrexate	105 (17.9)	4 (7.0)	101 (19.0)	0.039
Mycophenolic acid	46 (7.8)	10 (17.5)	36 (6.8)	0.009
Oral cyclophosphamide	6 (1.0)	2 (3.5)	4 (0.8)	0.203
Tacrolimus	17 (2.9)	0 (0.0)	17 (3.2)	0.340
Cyclosporine	17 (2.9)	1 (1.8)	16 (3.0)	0.902
Leflunomide	14 (2.4)	3 (5.3)	11 (2.1)	0.296

(+): positive levels; aCL: anti cardiolipin antibodies; anti- $\beta_2$ -GPI: anti- $\beta_2$ -glycoprotein I antibodies; anti-dsDNA: antidouble-stranded DNA antibodies; anti-RNP: anti-ribonucleoprotein antibodies; anti-Sm: anti-Smith antibodies; aPL: antiphospholipid antibodies; BAFF: B cell activating factor belonging to the TNF ligand family; BMI: body mass index; C3: complement component 3; C4: complement component 4; cSLEDAI-2K: clinical SLEDAI-2K; eGFR: estimated glomerular filtration rate; Ig: immunoglobulin; IQR: interquartile range; LAC: lupus anticoagulant; s.d.: standard deviation; SDI: Systemic Lupus International Collaborating Clinics (SLICC)/American College of Rheumatology (ACR) Damage Index; SLE: systemic lupus erythematosus; SLEDAI-2K: Systemic Lupus Erythematosus Disease Activity Index 2000; UPCR: urinary protein/creatinine ratio.

\*Alaska Native or American Indian from North, South or Central America. †Hydroxychloroquine, chloroquine, mepacrine, mepacrine hydrochloride or quinine sulfate.

	IV BLM 1 mg/kg (N=331)	IV BLM 10 mg/kg (N=602)	SC BLM (N=343)	P value
Patient characteristics				
Age; mean (s.d.)	39.2 (11.6)	37.6 (11.3)	39.5 (12.0)	0.014
Female sex; n (%)	294 (94.5)	584 (97.0)	310 (95.4)	0.160
Ancestries; n (%)				
Asian	41 (13.2)	180 (29.9)	43 (13.2)	< 0.001
Black/African American	27 (8.7)	184 (30.6)	25 (7.7)	< 0.001
Indigenous American*	65 (20.9)	68 (11.3)	28 (8.6)	< 0.001
White/Caucasian	178 (57.2)	170 (28.2)	229 (70.5)	< 0.001
Clinical data at baseline				
SLE duration (years); median (IQR)	4.5 (1.1–9.2)	3.9 (1.5–8.5); N=601	4.3 (1.1-8.9)	0.980
Mean BMI (week 0-52); mean (s.d.)	26.6 (6.4)	26.1 (6.6); N=565	26.6 (6.4); N=342	0.174
SLEDAI-2K; mean (s.d.)	9.2 (3.3)	9.4 (3.1)	10.2 (2.6)	< 0.001
Extra renal cSLEDAI-2K; mean (s.d.)	6.8 (3.0)	7.1 (3.0)	8.1 (2.6)	< 0.001
SDI score; median (IQR)	0.0 (0.0–1.0); N=310	0.0 (0.0–1.0); N=601	0.0 (0.0–1.0)	0.021
SDI score ≥1; n (%)	130 (41.9); N=310	201 (33.4); N=601	121 (35.3)	0.038
Serological profile at baseline				
Anti-dsDNA (+); n (%)	191 (61.4)	379 (63.0)	215 (62.7)	0.898
Anti-Sm (+); n (%)				
at baseline	76 (24.4)	82 (25.8); N=318	77 (22.8); N=337	0.680
ever	76 (24.4)	82 (25.8); N=318	78 (23.1); N=338	0.722
Anti-RNP (+); n (%)				
at baseline	NA	54 (36.0); N=150	94 (28.1); N=335	NA
ever	NA	54 (36.0); N=150	95 (28.1); N=338	NA
Anti-ribosomal P (+); n (%)				
at baseline	108 (35.4); N=305	135 (29.3); N=460	71 (21.1); N=337	< 0.001
ever	108 (35.4); N=305	135 (29.3); N=460	71 (21.1); N=337	< 0.001
aPL (+); n (%) aCL				
aCL IgA	3 (1.0); N=309	9 (1.6); N=563	10 (2.9); N=340	0.149
aCL IgG	69 (22.2)	67 (11.9); N=564	26 (7.6); N=340	< 0.001
aCL IgM	24 (7.7)	64 (11.3); N=564	50 (14.7); N=340	0.019
Anti-β <sub>2</sub> -GPI	()			
anti-β2-GPI IgA	NA	23 (15.1); N=152	55 (16.4); N=336	NA
anti- $\beta_2$ -GPI IgG	NA	2 (1.3); N=152	10 (3.0); N=336	NA
anti-β2-GPI IgM	NA	12 (7.9); N=152	26 (7.7); N=336	NA
LAC	NA	19 (12.9); N=147	73 (21.9); N=334	NA
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**Supplementary Table S5.** Demographics and comparisons in the subgroup of belimumab-treated patients, stratified by belimumab dosage forms.

aPL (+) ever	81 (26.0)	170 (30.1); N=564	207 (60.3)	< 0.001
BAFF (ng/mL); mean (s.d.)	1.64 (1.20); N=309	1.45 (1.03); N=441	1.46 (1.04); N=341	0.005
Low C3 levels; n (%)	125 (40.2)	252 (41.9)	126 (36.7)	0.302
Low C4 levels; n (%)	160 (51.4)	231 (38.4)	85 (24.8)	< 0.001
Renal markers at baseline				
Serum albumin (g/L); mean (s.d.)	41.21 (3.83)		42.10 (3.68)	0.002
Serum creatinine (µmol/L); mean (s.d.)	70.17 (13.37)		65.18 (13.83)	< 0.001
UPCR (mg/mg); mean (s.d.)	0.12 (0.07)		0.12 (0.07)	0.028
eGFR (mL/min); mean (s.d.)	107.25 (32.64)		117.36 (38.31)	< 0.001
Medications				
Prednisone equivalent dose during follow-up	9.59 (7.70)	9.90 (7.70)	9.52 (7.32)	0.595
Treatment at baseline; n (%)				
Antimalarial agents <sup><math>\dagger</math></sup>	200 (64.3)	406 (67.4)	236 (68.8)	0.454
Immunosuppressants				
Azathioprine	64 (20.6)	116 (19.3)	65 (19.0)	0.853
Methotrexate	53 (17.0)	82 (13.6)	38 (11.1)	0.086
Mycophenolic acid	21 (6.8)	60 (10.0)	24 (7.0)	0.142
Oral cyclophosphamide	5 (1.6)	7 (1.2)	3 (0.9)	0.686
Tacrolimus	4 (1.3)	10 (1.7)	9 (2.6)	0.405
Cyclosporine	9 (2.9)	19 (3.2)	8 (2.3)	0.766
Leflunomide	7 (2.3)	18 (3.0)	4 (2.1)	0.199

(+): positive levels; aCL: anti cardiolipin antibodies; anti- $\beta_2$ -GPI: anti- $\beta_2$ -glycoprotein I antibodies; anti-dsDNA: anti-double-stranded DNA antibodies; anti-RNP: anti-ribonucleoprotein antibodies; anti-Sm: anti-Smith antibodies; aPL: antiphospholipid antibodies; BAFF: B cell activating factor belonging to the TNF ligand family; BLM: belimumab; BMI: body mass index; C3: complement component 3; C4: complement component 4; cSLEDAI-2K: clinical SLEDAI-2K; eGFR: estimated glomerular filtration rate; Ig: immunoglobulin; IQR: interquartile range; IV: intravenous; LAC: lupus anticoagulant; NA: not applicable; SC: subcutaneous; s.d.: standard deviation; SDI: Systemic Lupus International Collaborating Clinics (SLICC)/American College of Rheumatology (ACR) Damage Index; SLE: systemic lupus erythematosus; SLEDAI-2K: Systemic Lupus Erythematosus Disease Activity Index 2000; UPCR: urinary protein/creatinine ratio.

\*Alaska Native or American Indian from North, South or Central America.

PRISMA-IPD Section/topic	ltem No	Checklist item	Reported on page
Title			
Title	1	Identify the report as a systematic review and meta-analysis of individual participant data.	NA
Abstract			1
Structured summary	2	Provide a structured summary including as applicable:	2
		<b>Background</b> : state research question and main objectives, with information on participants, interventions, comparators and outcomes.	-
		<b>Methods</b> : report eligibility criteria; data sources including dates of last bibliographic search or elicitation, noting that IPD were sought; methods of assessing risk of bias.	
		<b>Results</b> : provide number and type of studies and participants identified and number (%) obtained; summary effect estimates for main outcomes (benefits and harms) with confidence intervals and measures of statistical heterogeneity. Describe the direction and size of summary effects in terms meaningful to those who would put findings into practice.	-
		<b>Discussion:</b> state main strengths and limitations of the evidence, general interpretation of the results and any important implications.	
		Other: report primary funding source, registration number and registry name for the systematic review and IPD meta-analysis.	
Introduction			•
Rationale	3	Describe the rationale for the review in the context of what is already known.	3
Objectives	4	Provide an explicit statement of the questions being addressed with reference, as applicable, to participants, interventions, comparisons, outcomes and study design (PICOS). Include any hypotheses that relate to particular types of participant-level subgroups.	3
Methods			
Protocol and registration	5	Indicate if a protocol exists and where it can be accessed. If available, provide registration information including registration number and registry name. Provide publication details, if applicable.	3

Eligibility	6	Specify inclusion and exclusion criteria including those relating to participants, interventions, comparisons, outcomes, study	3–4
criteria		design and characteristics (e.g. years when conducted, required minimum follow-up). Note whether these were applied at the study or individual level i.e. whether eligible participants were included (and ineligible participants excluded) from a study that included a wider population than specified by the review inclusion criteria. The rationale for criteria should be stated.	
Identifying studies - information sources	7	Describe all methods of identifying published and unpublished studies including, as applicable: which bibliographic databases were searched with dates of coverage; details of any hand searching including of conference proceedings; use of study registers and agency or company databases; contact with the original research team and experts in the field; open adverts and surveys. Give the date of last search or elicitation.	NA
Identifying studies - search	8	Present the full electronic search strategy for at least one database, including any limits used, such that it could be repeated.	NA
Study selection processes	9	State the process for determining which studies were eligible for inclusion.	NA
Data collection processes	10	Describe how IPD were requested, collected and managed, including any processes for querying and confirming data with investigators. If IPD were not sought from any eligible study, the reason for this should be stated (for each such study).	4
		If applicable, describe how any studies for which IPD were not available were dealt with. This should include whether, how and what aggregate data were sought or extracted from study reports and publications (such as extracting data independently in duplicate) and any processes for obtaining and confirming these data with investigators.	
Data items	11	Describe how the information and variables to be collected were chosen. List and define all study level and participant level data that were sought, including baseline and follow-up information. If applicable, describe methods of standardising or translating variables within the IPD datasets to ensure common scales or measurements across studies.	5–6
IPD integrity	A1	Describe what aspects of IPD were subject to data checking (such as sequence generation, data consistency and completeness, baseline imbalance) and how this was done.	4
Risk of bias assessment in individual studies.	12	Describe methods used to assess risk of bias in the individual studies and whether this was applied separately for each outcome. If applicable, describe how findings of IPD checking were used to inform the assessment. Report if and how risk of bias assessment was used in any data synthesis.	NA
Specification of outcomes and	13	State all treatment comparisons of interests. State all outcomes addressed and define them in detail. State whether they were pre-specified for the review and, if applicable, whether they were primary/main or secondary/additional outcomes. Give the	5–7

effect measures		principal measures of effect (such as risk ratio, hazard ratio, difference in means) used for each outcome.	
Synthesis methods	14	<ul> <li>Describe the meta-analysis methods used to synthesise IPD. Specify any statistical methods and models used. Issues should include (but are not restricted to):</li> <li>Use of a one-stage or two-stage approach.</li> <li>How effect estimates were generated separately within each study and combined across studies (where applicable).</li> <li>Specification of one-stage models (where applicable) including how clustering of patients within studies was accounted for.</li> <li>Use of fixed or random effects models and any other model assumptions, such as proportional hazards.</li> <li>How (summary) survival curves were generated (where applicable).</li> <li>Methods for quantifying statistical heterogeneity (such as I<sup>2</sup> and τ<sup>2</sup>).</li> <li>How studies providing IPD and not providing IPD were analysed together (where applicable).</li> <li>How missing data within the IPD were dealt with (where applicable).</li> </ul>	7
Exploration of variation in effects	A2	If applicable, describe any methods used to explore variation in effects by study or participant level characteristics (such as estimation of interactions between effect and covariates). State all participant-level characteristics that were analysed as potential effect modifiers, and whether these were pre-specified.	7
Risk of bias across studies	15	Specify any assessment of risk of bias relating to the accumulated body of evidence, including any pertaining to not obtaining IPD for particular studies, outcomes or other variables.	NA
Additional analyses	16	Describe methods of any additional analyses, including sensitivity analyses. State which of these were pre-specified.	NA
Results			
Study selection and IPD obtained	17	Give numbers of studies screened, assessed for eligibility, and included in the systematic review with reasons for exclusions at each stage. Indicate the number of studies and participants for which IPD were sought and for which IPD were obtained. For those studies where IPD were not available, give the numbers of studies and participants for which aggregate data were available. Report reasons for non-availability of IPD. Include a flow diagram.	PRISMA Flow Diagram
Study characteristics	18	For each study, present information on key study and participant characteristics (such as description of interventions, numbers of participants, demographic data, unavailability of outcomes, funding source, and if applicable duration of follow-up). Provide (main) citations for each study. Where applicable, also report similar study characteristics for any studies not providing IPD.	Table 1

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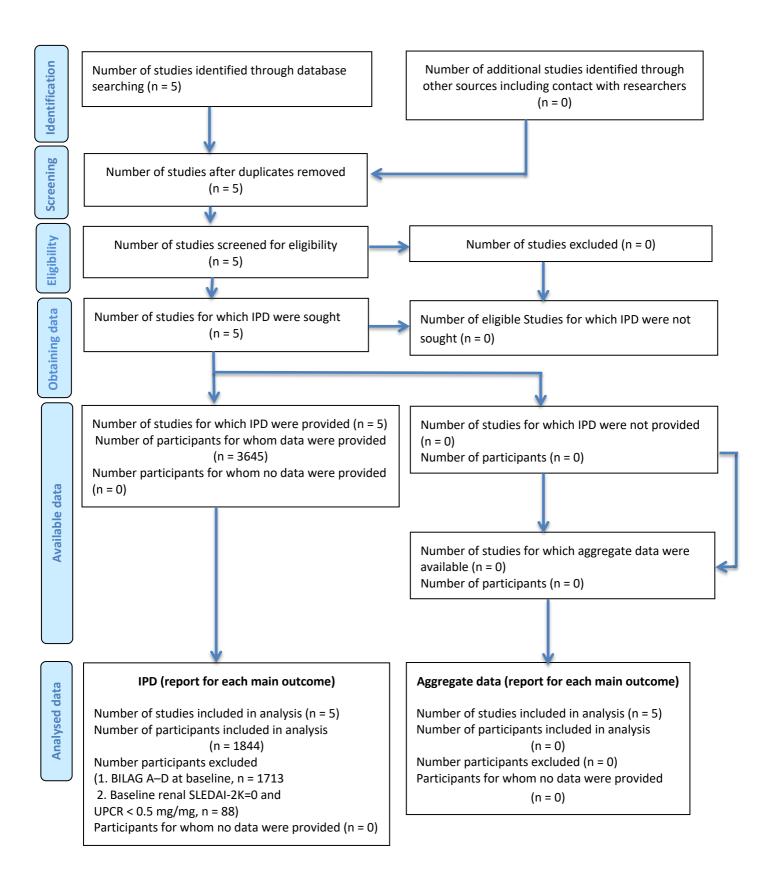
Conclusions	26	Provide a general interpretation of the findings in the context of other evidence.	9–11
Implications	A4	Consider relevance to key groups (such as policy makers, service providers and service users). Consider implications for future research.	9–11
Funding			
Funding	27	Describe sources of funding and other support (such as supply of IPD), and the role in the systematic review of those providing such support.	11–12

# A1 – A3 denote new items that are additional to standard PRISMA items. A4 has been created as a result of re-arranging content of the standard PRISMA statement to suit the way that systematic review IPD meta-analyses are reported.

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#### **PRISMA IPD Flow Diagram**



The PRISMA IPD flow diagram

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