Tables S1. Means and 95% confidence intervals for eGFR by treatment group and months on study (0-3 years) using unadjusted values. 163 subjects with 3771 eGFR measurements.

	Q1: Mon	Monthly intravenous infusions of Belatacept				Q2: Every 2-month intravenous infusions of Belatace			
Month	N	Mean eGFR	95% Lower CI	95% Upper CI	N	Mean eGFR	95% Lower CI	95% Uppe CI	
0	82	72.5	68.7	76.3	81	69.2	65.7	72.8	
1	77	72.7	69.0	76.5	79	69.1	65.3	72.9	
2	79	71.9	67.9	75.9	79	70.8	66.9	74.7	
3	77	71.4	67.3	75.4	71	70.8	66.8	74.8	
4	77	73.2	69.0	77.3	78	71.1	67.2	75.0	
5	74	73.2	69.1	77.2	75	70.4	66.6	74.2	
6	78	73.5	69.4	77.5	80	70.2	66.2	74.2	
7	73	72.1	67.7	76.4	77	71.6	67.7	75.6	
8	74	72.1	67.9	76.2	80	70.6	66.4	74.8	
9	74	72.7	68.1	77.2	74	70.7	66.7	74.6	
10	72	73.5	68.9	78.0	79	69.7	65.7	73.7	
11	69	74.6	70.4	78.9	71	68.3	64.2	72.3	
12	76	72.8	68.7	76.9	80	69.2	65.4	73.0	
13-15	71	71.4	67.1	75.6	77	68.8	64.8	72.9	
16-18	63	71.3	66.8	75.8	78	70.7	66.4	75.0	
19-21	70	73.2	68.8	77.6	73	70.2	66.2	74.3	
22-24	71	73.5	69.2	77.8	75	69.2	64.8	73.5	
25-27	70	74.3	69.8	78.7	70	69.6	65.0	74.3	
28-30	62	73.4	69.2	77.7	74	68.5	63.8	73.2	
31-33	64	73.8	69.5	78.1	75	68.4	63.6	73.2	
34-36	68	74.9	70.2	79.5	70	69.8	65.1	74.4	
Overall	82	72.9	69.1	76.8	81	69.9	66.2	73.5	

## Time-averaged eGFR mean by treatment group and Mean Difference

Group	N	Mean eGFR	95% Lower CI	95% Upper CI
Q1m	82	72.9	69.1	76.8
Q2m	81	69.9	66.2	73.5

Mean Difference	3.0	-2.3	8.4

Tables S2. Baseline-adjusted means and 95% confidence intervals for eGFR by treatment group and months on study (0-3 years). N=163 with 2954 GFR measurements.

	Q1: N	Q1: Monthly intravenous infusions of Belatacept				Q2: Every 2-month intravenous infusions of Belatacept			
Month	N	Mean eGFR	95% Lower CI	95% Upper CI	N	Mean eGFR	95% Lower CI	95% Upper CI	
1	77	71.7	69.8	73.5	79	70.3	68.4	72.3	
2	79	70.8	69.0	72.6	79	72.2	70.1	74.4	
3	77	71.0	68.9	73.2	71	71.9	69.9	73.8	
4	77	72.6	70.4	74.9	78	72.2	69.8	74.5	
5	74	72.6	70.2	75.0	75	71.9	69.8	74.0	
6	78	72.3	70.1	74.6	80	71.3	69.2	73.4	
7	73	70.5	67.9	73.1	77	73.0	70.7	75.3	
8	74	70.3	68.1	72.6	80	71.8	69.0	74.7	
9	74	71.7	69.3	74.0	74	72.3	70.2	74.4	
10	72	72.5	69.9	75.2	79	71.7	69.4	74.0	
11	69	73.5	71.2	75.8	71	70.3	67.8	72.9	
12	76	71.5	69.2	73.7	80	71.3	68.9	73.6	
13-15	71	69.8	67.3	72.4	77	70.3	67.7	72.9	
16-18	63	70.1	67.1	73.0	78	72.4	69.8	75.1	
19-21	70	71.9	68.8	74.9	73	72.0	69.2	74.8	
22-24	71	72.4	69.7	75.1	75	71.2	67.8	74.6	
25-27	70	72.6	69.9	75.3	70	71.7	67.6	75.8	
28-30	62	72.1	69.3	74.9	74	70.7	67.2	74.1	
31-33	64	71.7	68.8	74.5	75	70.3	66.5	74.1	
34-36	68	72.9	69.9	76.0	70	71.6	68.2	75.0	
Overell	92	74 7	70.0	72.5	01	74 5	60.5	72.5	
Overall	82	71.7	70.0	73.5	81	71.5	69.5	73.5	

## Baseline-adjusted Time-averaged eGFR means by treatment group

Treatment	N	Mean eGFR	95% Lower CI	95% Upper CI
Q1m	82	71.7	70.0	73.5
Q2m	81	71.5	69.5	73.5

Mean Treatment Difference	0.2	-2.5	2.9
(Q1m-Q2m)			
(			

P (time)= 0.09, P(group)=0.88, P(interaction)=0.16, and P (baseline GFR)= <.0001

Tables S3. Sensitivity Analysis 1. Baseline-adjusted means and 95% confidence intervals for eGFR by treatment group and months on study (0-3 years) for patients conditional of patient and graft survival. N=153 survivors without graft failure (2814 GFR measurements).

	Q1: Monthly intravenous infusions o Belatacept								
Month	N	Mean eGFR	95% Lower CI	95% Upper CI	N	Mean eGFR	95% Lower CI	95% Upper CI	
1	71	71.6	69.7	73.5	75	71.0	69.1	72.9	
2	73	70.9	69.0	72.7	75	72.7	70.6	74.8	
3	71	70.5	68.5	72.6	67	72.3	70.3	74.2	
4	71	72.6	70.5	74.7	74	72.7	70.4	74.9	
5	69	72.0	69.6	74.3	71	72.0	69.9	74.1	
6	74	72.9	70.8	75.1	76	71.9	70.0	73.9	
7	69	72.0	69.9	74.2	73	73.1	70.8	75.3	
8	70	71.8	69.9	73.6	76	72.7	70.6	74.9	
9	71	72.7	70.5	74.8	70	72.3	70.5	74.0	
10	70	73.3	71.1	75.6	75	72.5	70.4	74.5	
11	66	74.4	72.6	76.3	68	71.1	69.1	73.1	
12	73	72.5	70.5	74.5	76	71.9	70.1	73.7	
13-15	67	71.5	69.7	73.4	73	71.6	69.4	73.8	
16-18	61	70.9	68.3	73.5	74	73.4	71.4	75.4	
19-21	67	72.7	70.2	75.1	69	72.7	70.5	74.9	
22-24	68	73.7	71.7	75.7	71	72.6	70.4	74.8	
25-27	69	73.6	71.0	76.2	66	73.8	71.3	76.3	
28-30	61	73.3	70.6	76.0	71	72.6	70.2	75.0	
31-33	63	73.3	70.7	76.0	73	72.5	69.9	75.0	
34-36	68	74.4	71.6	77.1	69	72.9	70.3	75.5	
Overall	76	72.5	71.0	74.0	77	72.4	70.9	73.9	

#### Time-averaged eGFR baseline-adjusted means by treatment group

0		₹	•	0 1
Group	N	Mean eGFR	95% Lower CI	95% Upper CI
Q1m	76	72.5	71.0	74.0
Q2m	77	72.4	70.9	73.9

Mean Treatment	0.1	-2.0	2.2
Difference			
(Q1m-Q2m)			

Tables S4. Sensitivity analysis 2. Baseline-adjusted means and 95% confidence intervals for eGFR by treatment group and months on study (0-3 years). eGFR imputed as zero after graft loss or death.

	Q1m:	Q1m: Monthly intravenous infusions of Belatacept				Q2m: Every 2-month intravenous infusions of Belatacept			
Month	N	Mean eGFR	95% Lower CI	95% Upper CI	N	Mean eGFR	95% Lower Cl	95% Upper Cl	
1	77	71.4	69.4	73.4	79	70.4	68.3	72.5	
2	79	70.9	69.1	72.8	79	72.3	70.0	74.6	
3	77	70.7	68.5	72.9	71	72.2	70.1	74.2	
4	77	72.7	70.3	75.0	78	72.0	69.7	74.4	
5	75	72.1	69.1	75.0	75	71.8	69.7	73.9	
6	80	71.2	68.1	74.3	80	72.1	69.5	74.6	
7	75	69.7	66.4	73.1	77	73.3	70.6	76.1	
8	76	69.3	65.6	73.0	80	71.2	68.4	74.1	
9	77	70.3	66.5	74.2	74	71.7	69.5	73.9	
10	76	70.1	66.4	73.9	79	71.1	68.5	73.8	
11	72	71.9	68.6	75.2	72	69.0	65.3	72.8	
12	79	69.4	66.1	72.6	80	70.6	68.2	73.0	
13-15	73	68.5	65.5	71.4	77	71.3	68.5	74.1	
16-18	67	66.7	62.5	70.9	78	72.9	70.2	75.6	
19-21	73	68.4	63.9	72.8	73	72.3	69.4	75.1	
22-24	74	69.4	65.6	73.2	75	71.2	68.4	74.1	
25-27	75	68.1	63.1	73.1	70	72.0	68.5	75.5	
28-30	67	68.4	63.8	73.1	75	68.4	64.1	72.6	
31-33	69	68.3	63.3	73.3	77	68.0	63.6	72.3	
34-36	74	68.5	63.7	73.2	73	68.7	64.3	73.1	
Overall	82	69.8	67.2	72.4	81	71.1	69.1	73.1	

# Time-averaged eGFR baseline-adjusted means by treatment group

Group	N	Mean eGFR	95% Lower CI	95% Upper CI
Q1m	82	69.8	67.2	72.4
Q2m	81	71.1	69.1	73.1
Mean Treatment Difference (Q1m-Q2m)		-1.3	-4.6	2.0

Table S5. Cumulative survival rates by cohort at the 1, 2, and 3 year time points.

Time Point	1 year	2 year		3 year
Rejection-Free Survival				
Q1	100%[100, 100]	98.7%[96.2, 10	00]	98.7%[96.2,
Q2	94.9%[90.2, 99.9]	93.7%[88.5, 99	0.2]	100] 92.4%[86.7, 98.4]
<b>DSA-Free Survival</b>				
Q1	100%[100, 100]	98.7%[96.2, 10	00]	98.7%[96.2,
Q2	96.2%[92.1, 100]			100]
Survival without Immune				
Event	98.7%[96.2, 100]		94.9%[90.2, 99.9]	9
Q1	93.7%[88.5, 99.2]			89.9%[83.4,
Q2		92.4%[86.7, 98	3.4]97.4%[93.9, 100]	<sup>9</sup> 96.8]
Survival without Death or G	raft Loss			
Q1	97.6[9	94.3, 100]	95.1%[90.6, 99.9]	92.6%[87.1, 98.5]
Q2	100%	[100, 100]	100%[100, 100]	95.0%[90.4, 99.9]

*Table S6.* Follow-up through years 2 and 3 of patients who experienced immunologic events during the first year of the study.

# SUBJECT TIME GROUP PATHOLOGY DSA SPECIFICITY ACTION/COMMENT FOLLOWUP (M) (MAX MFI)

-	-						
009	6,	Q1M	Borderline	No DSA	Oral steroid pulse x 2	Died of unknown	
	10		2			causes at month 24	
078	6	Q2M	1A ACR	No DSA	IV steroids.	Stable renal function	
					Converted to q1m.		
098	8,	Q2M	1B	DQ (3600)	IV steroids, thymoglobulin,	Continued NC, and	
	15	15 ACR/AMR, IVIG/plasmapheresis. progression to graft borderline Converted to q1m. failure					
130	4	Q2M	1A ACR	No DSA	Converted to q1m	No further events	
135	4,	Q2M	1B ACR,	DQ (2635)	Thymoglobulin,	Stable renal function	
	13		AMR,		plasmapheresis/IVIG.		
			borderline		Converted to q1m. Received	d	
					oral steroid pulse for		
					borderline rejection.		
151	6	Q2M	Bland biops	y DQ (10633)	Converted to q1m	No further events	

Abbreviations: NC = noncompliance, eGFR = estimated glomerular filtration rate, Q1M = every month dosing, Q2M = every 2-month dosing of belatacept, ACR = acute cellular rejection, AMR = antibody mediated rejection, MMF = mycophenolate mofetil.

Figure S1. Cumulative survival from any adverse event (DSA, rejection, death, or graft loss).

