

Supplemental table 1. Levels of serum creatinine and tacrolimus trough levels in the 8 patients discussed in this study.

Patient 1			
PTD	SCr (mg/dL)	TAC level (ng/mL)	BANFF Score
0	13.31	0	
1	12.23	0	
2	7.43	0	
3	3.69	0	
4	1.86	0	
5	1.27	0	
6	1.17	0	
7	1.08	0	
9	1.13	0	
11	1.13	0	
14	1.17	0	
16	1.27	0	
18	1.22	0	
21	1.25	0	
24	1.26	0	
28	1.2	0	
30	1.29	0	
35	1.27	0	
38	1.44	0	
39	1.44	0	BL
42	1.05	0	
44	1.16	0	
49	1.22	0	
56	1.19	0	
65	1.39	0	
67	2.24	0	2B
68	3.54	0	
69	2.51	0	
70	1.66	0	
72	1.52	0	
74	1.4	0	
77	1.31	0	
80	1.32	0	
85	1.3	0	
88	1.39	20	
93	1.67	24.6	
95	1.86	20	2A
96	1.78	16.5	
97	1.65	16.1	
106	1.28	18.3	Resolving
112	1.27	16.5	
120	1.35	12.2	
127	1.32	12.6	
134	1.4	8.7	
141	1.32	6.5	
147	1.44	15	
155	1.38	10.5	
162	1.38	17.7	
169	1.58	10.6	

172	1.63	9	
177	1.5	8.9	
184	1.41	7.6	
191	1.52	8.2	
198	1.46	6.9	
207	1.44	10.3	
226	1.51	10.2	

Patient 2			
PTD	SCr (mg/dL)	TAC level (ng/mL)	BANFF Score
0	5.85	0	
1	5.43	0	
2	3.06	0	
3	1.84	0	
4	1.34	0	
5	1.05	0	
7	1.21	0	
9	1.18	0	
11	1.11	0	
14	1.25	0	
16	1.14	0	
18	1.4	0	
21	1.16	0	
23	1.13	0	
25	1.11	0	
28	1.09	0	
32	1.05	0	
37	1.07	0	
44	1.04	0	
49	1.07	0	
53	1.09	0	
58	1.33	0	
66	1.2	0	
71	1.31	0	
79	1.29	0	
94	1.4	0	
100	1.68	0	
102	1.7	0	2A
103	1.33	0	
104	1.52	0	
105	1.53	0	
106	1.49	0	
109	1.6	0	
112	1.46	0	
113	1.41	0	2A
114	1.46	0	
116	1.68	0	
117	1.57	0	
118	1.57	8.1	
119	1.66	9.2	
121	1.58	8.8	
123	1.78	13.7	
126	1.58	17.5	
128	1.8	13.5	BL
129	1.58	19.1	
140	1.63	6.4	

142	1.74	5.9	
147	1.95	2.2	
148	1.66	0	No Rejection
155	1.41	0	
161	1.43	0	
170	1.38	0	
176	1.49	0	
183	1.27	0	
186	1.33	0	
213	1.43	0	
219	1.26	0	
226	1.23	0	
254	1.43	0	
267	1.31	0	
289	1.23	0	

Patient 3			
PTD	SCr (mg/dL)	TAC level (ng/mL)	BANFF Score
0	11.58	0	
1	9.35	0	
2	4.08	0	
3	2.02	0	
4	1.06	0	
5	1.44	0	
6	1.47	0	
7	1.4	0	
9	1.57	0	
12	1.5	0	
14	1.47	0	
16	1.37	0	
21	1.48	0	
26	1.41	0	
30	1.34	0	
35	1.23	0	
47	1.38	0	
56	2.09	0	2A
57	2.32	0	
58	2.16	0	
59	1.92	0	
60	1.91	0	
61	1.86	0	
62	2.06	0	
64	1.88	0	
66	1.84	0	
68	1.81	0	
71	1.77	0	2A
72	1.97	8	
73	1.62	8.5	
74	1.72	12	
75	1.66	12.8	
77	1.93	17.4	
79	1.95	14.5	Resolving
80	1.64	19.1	
82	1.99	23.3	

84	1.66	12.9	
85	1.87	15.3	BL
86	1.58	13.2	
89	1.92	9.3	
92	1.74	12.3	
96	1.57	16.6	
99	1.63	11.9	
100	1.53	14.7	
105	1.64	8	
110	1.52	6.3	
114	1.44	5.9	
121	1.42	4.7	
128	1.44	5.9	
131	1.36	3.7	
135	1.26	3.2	
142	1.42	2.6	
147	1.56	0	
156	1.36	0	
162	1.24	0	
166	1.31	0	
169	1.44	0	
173	1.29	0	
177	1.32	0	
183	1.33	0	
191	1.55	0	
195	1.29	0	
205	1.47	0	
219	1.47	0	
233	1.45	0	
250	1.53	0	
282	1.42	0	
308	1.53	0	
359	1.59	0	
387	1.51	0	
443	1.38	0	
536	1.48	0	
626	1.48	0	
722	1.45	0	

Patient 4			
PTD	SCr (mg/dL)	TAC level (ng/mL)	BANFF Score
0	3.34	0	
1	3.8	0	
2	2.81	0	
3	2.13	0	
4	1.94	0	
5	1.61	0	
8	1.41	0	
12	1.51	0	
15	1.44	0	
19	1.56	0	
22	1.6	0	
25	1.71	0	
29	1.84	0	

36	1.4	0	
43	1.55	0	
57	1.42	0	
66	2	0	
73	3.31	0	
74	3.4	0	
75	3.42	0	
80	1.82	0	
82	1.76	0	
89	1.93	0	1B
92	2.18	20.6	
94	2.35	21.1	
96	2.09	27.6	
99	2.07	16.9	
103	2.55	17.7	
106	2.25	17.4	
108	2.03	21.6	
110	1.97	28.3	Resolving
115	1.97	22.9	
117	2	17.4	
122	2.02	12.3	
127	1.84	12	
131	2.1	13.4	
134	1.79	10.2	
141	1.56	6.3	
149	1.62	6	
155	1.74	6	
164	1.71	7.2	
170	1.7	2.3	
184	1.59	0	
204	1.43	0	
211	1.43	0	
222	1.4	0	
240	1.44	0	
253	1.63	0	
267	1.39	0	
282	1.55	0	
295	1.34	0	
311	1.67	0	
323	1.81	0	
330	1.79	0	
337	1.72	0	
339	1.74	0	
361	1.63	0	
367	1.69	0	
372	1.54	0	
381	1.54	0	
395	1.71	0	
407	1.56	0	
410	1.54	0	
424	1.65	0	
438	1.4	0	
452	1.55	0	
466	1.53	0	
480	1.56	0	
489	1.55	0	

506	1.64	0	
508	1.55	0	
523	1.47	0	
535	1.7	0	
536	1.64	0	
537	1.86	0	
550	1.49	0	
563	1.39	0	
579	1.41	0	

Patient 5			
PTD	SCr (mg/dL)	TAC level (ng/mL)	BANFF Score
0	4.76	0	
1	2.91	0	
2	2.84	0	
3	2.19	0	
4	1.52	0	
5	1.24	0	
10	0.93	0	
13	1.0	0	
28	1.02	0	
53	0.95	0	
61	0.85	0	
71	1.14	0	
77	1.76	0	
78	1.55	0	
79	1.66	0	
80	1.34	0	
81	1.16	6.9	
84	1.02	10	
87	1.03	15.7	2A
90	1.14	17.6	
91	1.22	15.7	
95	1.14	9.9	
101	1.1	9	BL
109	1.18	7.1	
112	1.17	6.8	
116	1.18	8.3	
123	1.09	8.1	
124	2.44	8	
125	2.02	5.3	
129	1.24	10.6	
132	1.12	4.3	
133	1.2	3.1	BL
140	0.98	2.2	
145	1.02	4.2	
166	0.93	4	
168	0.95	3.4	
178	0.97	4	
186	0.99	0	
198	-	-	Resolving
251	1.01	0	
363	0.99	0	
466	1.06	0	

Patient 6			
PTD	SCr (mg/dL)	TAC level (ng/mL)	BANFF Score
0	5.63	0	
1	3.4	0	
2	2.13	0	
3	1.68	0	
4	1.73	0	
8	1.61	0	
10	1.84	0	
13	1.52	0	
27	1.62	0	
71	1.45	0	
85	1.26	0	
93	1.45	0	
99	1.39	0	
126	1.46	0	
132	1.7	0	
169	1.39	0	
183	1.58	0	
190	2.76	0	
192	3.17	0	
193	3.2	2.6	2B
194	2.73	8.9	
196	2.44	12	
198	2.29	12.3	
200	1.84	11.2	
202	2.01	11.7	
206	1.62	13.2	
209	1.69	14.1	2A
216	1.75	3.3	
219	1.74	18.1	2A
220	1.7	20.3	
222	1.57	12.6	
224	1.6	16.7	
226	1.64	14.3	
230	1.54	15	
233	-	-	Resolving
234	1.44	13.4	
240	1.53	18.1	
247	1.62	13.8	
254	1.45	15	
261	1.56	10.7	
268	1.64	10.5	
279	1.75	0	
281	-	-	BL
282	1.35	0	
287	1.39	0	
293	1.31	0	
300	1.44	0	
309	1.4	0	
316	1.4	0	
323	-	-	No rejection
324	1.32	0	
332	1.32	0	
360	1.49	0	
374	1.33	0	

387	1.55	0	
401	1.45	0	
415	1.36	0	

Patient 7			
PTD	SCr (mg/dL)	TAC level (ng/mL)	BANFF Score
0	5.77	0	
1	2.48	0	
2	1.36	0	
3	1.27	0	
6	1.38	0	
10	1.59	0	
13	1.68	0	
15	1.55	0	
20	1.72	0	
21	1.66	0	
22	1.5	0	
27	1.48	0	
28	-	-	No rejection
64	1.45	0	
78	1.47	0	
111	1.76	0	
112	1.7	0	2B
113	1.63	0	
114	1.52	3.5	
115	1.29	5.6	
116	1.36	9.7	
118	1.56	16.6	
119	1.58	14.8	
122	1.74	21.4	
125	1.82	20	
128	1.7	17	
129	-	-	BL, BKVN
136	1.68	9.6	
142	1.56	5	
150	1.58	5.5	
154	1.59	2	
155	-	-	BKVN
165	1.51	0	
170	1.47	0	
176	1.61	0	
185	1.76	0	
188	1.69	0	
195	1.53	0	
203	1.54	0	
216	1.67	0	
244	1.48	0	
269	1.47	0	
281	1.52	0	
295	1.45	0	

Patient 8			
PTD	SCr (mg/dL)	TAC level (ng/mL)	BANFF Score

0	4.72	0	
1	2.26	0	
2	1.29	0	
3	1.11	0	
4	0.94	0	
13	1.06	0	
27	1.14	0	
55	1.28	0	
111	1.23	0	
226	1.55	0	
232	1.72	0	
246	1.86	0	
247	2.12	0	
248	2.02	0	
268	1.9	0	
274	1.91	0	
280	2.01	0	
281	-	-	2A
282	1.88	0	
288	1.98	26.6	
290	2.03	17.8	
295	2.13	9.8	
296	-	-	1A
301	2.2	9.8	
302	2.13	17	
315	1.85	9	
317	-	-	BL
325	1.86	12.8	
329	1.98	6	
330	-	-	BL
337	1.89	7.2	
342	1.86	2	
352	1.8	0	
354	-	-	No Rejection
360	1.82	0	

Supplemental table 1. Daily serum creatinine and tacrolimus trough levels in the 8 patients discussed in this study. PTD; post-transplant day.

Supplemental table 2. Banff classification of rejection for BEST trial patients undergoing BRR.

Patient 1														
Biopsy Date	Banff Score	i	t	g	v	ptc	ci	ct	cg	mm	cv	ah	c4d	ti
39	BL	1	2	0	X	0	1	1	0	0	X	0	0	1
67	2B	0	0	0	2	0	0	0	0	0	1	0	0	1
95	2A	2	1	0	1	0	3	2	0	1	2	0	0	2
106	Resolving rejection	0	0	0	1	0	0	0	0	1	2	0	0	1

Patient 2														
Biopsy Date	Banff Score	i	t	g	v	ptc	ci	ct	cg	mm	cv	ah	c4d	ti
102	2A	3	3	0	1	0	1	1	0	0	1	0	0	3
113	2A	1	3	0	1	0	1	1	0	0	2	0	0	1
128	BL	1	2	0	0	0	1	1	0	1	1	0	0	1
148	No rejection; chronic changes	0	0	0	0	0	0	0	0	1	3	0	0	1

Patient 3														
Biopsy Date	Banff Score	i	t	g	v	ptc	ci	ct	cg	mm	cv	ah	c4d	ti
56	2A	3	3	0	1	0	0	0	0	0	1	0	0	3
71	2A	0	1	0	1	0	1	1	0	0	1	0	0	2
79	Resolving rejection	1	2	0	0	0	0	0	0	0	1	0	1	2
85	BL	0	1	0	0	0	1	1	0	0	X	0	1	1

Patient 4														
Biopsy Date	Banff Score	i	t	g	v	ptc	ci	ct	cg	mm	cv	ah	c4d	ti
89	1B	3	2	0	0	0	1	1	0	0	0	0	0	2
110	Resolving rejection	1	1	0	0	0	1	1	0	0	0	0	0	1
177	BL	0	1	0	0	0	1	1	0	0	1	0	1	1

Patient 5														
Biopsy Day	Banff Score	i	t	g	v	ptc	ci	ct	cg	mm	cv	ah	c4d	ti
87	2A	3	2	0	1	1	0	0	0	0	0	1	0	1
101	BL	1	1	0	0	1	0	0	0	1	0	0	2	1
120	BL	1	2	0	X	0	1	1	0	0	X	0	2	1
134	BL	0	1	0	0	0	1	1	0	0	0	0	0	0
198	No rejection	0	0	0	0	0	0	0	0	0	0	0	0	0

D140 →

Patient 6														
Biopsy Day	Banff Score	i	t	g	v	ptc	ci	ct	cg	mm	cv	ah	c4d	ti
193	2B	3	3	0	2	1	0	0	0	0	0	0	1	3
209	2A	1	2	0	1	0	0	0	0	0	1	0	1	2
219	2A	3	3	0	1	0	1	1	1	1	2	0	2	3
233	Resolving	1	1	0	0	0	1	1	0	1	1	0	1	1
D282 → 281	BL	1	1	0	0	0	0	0	0	0	0	0	1	1
323	No rejection	0	2	0	0	0	1	1	1	0	0	0	1	1

Patient 7														
Biopsy Day	Banff Score	i	t	g	v	ptc	ci	ct	cg	mm	cv	ah	c4d	ti
28	No rejection	0	0	0	0	0	0	0	0	0	0	0	1	0
112	2B	2	3	0	2	0	0	0	0	0	0	0	0	2
129	BL, BKVN	1	0	0	0	0	X	X	0	0	1	0	0	1
155	BKVN	1	2	0	X	0	1	1	0	0	X	0	1	2

Patient 8														
Biopsy Da	Banff Score	i	t	g	v	ptc	ci	ct	cg	mm	cv	ah	c4d	ti
281	2A	1	3	0	2	0	1	1	0	1	0	0	2	3
D302 → 296	1A	1	2	0	0	0	2	2	0	1	0	0	2	2
317	BL	2	1	0	0	0	2	2	0	1	1	0	2	2
330	BL	0	1	0	0	0	3	3	0	0	1	0	2	1
354	No rejection	0	0	0	0	0	0	0	0	0	1	1	0	0

Supplemental table 2. Banff classification of rejection for patients undergoing BRR in the BEST trial. Arrow indicated PTD of mTORi rescue therapy initiation.