

R1.2 **Supplementary Table 1** DKI z-scores in CEL of 10 patients obtained 0-7 days before (pre-BEV) and 28 days after (post-BEV) initiating BEV treatment

No.	Time	DKI z-scores						
		MD	D_{\perp}	D_{\parallel}	FA	MK		
						K_{\perp}	K_{\parallel}	
1	Pre-BEV	0.98	1.30	0.34	-1.29	-4.45	-3.37	-2.28
	Post-BEV	0.66	1.03	0.02	-1.23	-3.43	-2.79	-1.56
2	Pre-BEV	3.64	3.96	2.13	-1.99	-4.21	-2.85	-2.71
	Post-BEV	1.33	1.80	0.25	-1.79	-2.88	-2.28	-1.23
3	Pre-BEV	3.26	3.78	1.84	-2.28	-3.04	-2.49	-1.39
	Post-BEV	0.91	1.32	0.13	-1.74	-0.55	-1.15	0.79
4	Pre-BEV	1.66	2.05	0.83	-1.91	-2.37	-2.15	-1.34
	Post-BEV	2.09	2.54	1.13	-2.09	-2.83	-2.44	-1.43
5	Pre-BEV	3.37	3.83	1.81	-2.10	-2.62	-1.94	-1.48
	Post-BEV	2.52	2.98	1.20	-1.88	-2.35	-1.77	-1.34
6	Pre-BEV	5.42	6.03	3.21	-2.42	-5.03	-3.24	-3.25
	Post-BEV	4.62	5.35	2.45	-2.55	-3.72	-2.63	-2.22
7	Pre-BEV	1.36	1.56	0.70	-1.46	-1.90	-1.42	-1.29
	Post-BEV	-0.75	-0.44	-1.13	-0.78	0.79	0.10	1.51
8	Pre-BEV	3.75	3.91	2.33	-1.91	-3.77	-2.63	-2.52
	Post-BEV	2.06	2.34	0.94	-1.75	-3.00	-2.28	-1.67
9	Pre-BEV	3.49	4.06	1.28	-2.68	-3.00	-2.48	-1.11
	Post-BEV	1.64	2.40	-0.18	-2.43	-0.86	-1.63	1.40
10	Pre-BEV	1.45	1.83	0.51	-1.54	-1.57	-1.54	-0.26
	Post-BEV	0.97	1.46	0.01	-1.77	0.13	-0.64	1.16

Supplementary Table 2 10th percentile DKI z-scores in CEL of 10 patients obtained 0-7 days before (pre-BEV) and 28 days after (post-BEV) initiating BEV treatment

No.	Time	DKI z-scores						
		MD _{10%}	D _{⊥10%}	D _{∥10%}	FA _{10%}	MK _{10%}		
						K _{⊥10%}	K _{∥10%}	
1	Pre-BEV	0.06	0.28	-0.41	-2.05	-5.22	-3.90	-3.07
	Post-BEV	-0.53	-0.28	-0.93	-2.15	-4.61	-3.57	-2.57
2	Pre-BEV	1.98	2.46	0.69	-2.50	-4.84	-3.19	-3.31
	Post-BEV	0.05	0.48	-0.71	-2.19	-4.52	-3.07	-2.88
3	Pre-BEV	2.18	2.48	0.85	-2.99	-4.47	-3.33	-2.76
	Post-BEV	0.21	0.45	-0.74	-2.76	-2.26	-2.39	-0.71
4	Pre-BEV	0.54	0.87	-0.07	-2.63	-4.20	-3.25	-2.49
	Post-BEV	0.66	0.98	0.05	-2.70	-4.10	-3.22	-2.44
5	Pre-BEV	1.37	1.69	0.44	-2.85	-3.74	-2.48	-2.58
	Post-BEV	0.41	1.06	-0.66	-2.53	-3.07	-2.15	-2.14
6	Pre-BEV	3.48	4.07	1.71	-2.90	-6.00	-3.77	-3.91
	Post-BEV	2.77	3.40	1.18	-2.95	-4.58	-3.07	-2.97
7	Pre-BEV	0.33	0.58	-0.28	-1.89	-3.30	-2.14	-2.77
	Post-BEV	-1.37	-0.95	-1.92	-1.40	-0.60	-0.63	-0.29
8	Pre-BEV	1.09	1.38	0.13	-2.26	-4.85	-3.20	-3.58
	Post-BEV	0.22	0.59	-0.56	-2.13	-4.01	-2.80	-2.79
9	Pre-BEV	2.17	2.92	0.08	-2.95	-4.56	-3.20	-2.07
	Post-BEV	-0.78	0.23	-1.91	-2.75	-2.72	-2.38	-0.52
10	Pre-BEV	0.53	1.02	-0.35	-1.99	-2.97	-2.17	-1.35
	Post-BEV	-0.93	-0.34	-1.55	-2.09	-2.29	-1.84	-1.03

Supplementary Table 3 90th percentile DKI z-scores in CEL of 10 patients obtained 0-7 days before (pre-BEV) and 28 days after (post-BEV) initiating BEV treatment

No.	Time	DKI z-scores						
		MD _{90%}	D _{L90%}	D _{H90%}	FA _{90%}	MK _{90%}	K _{L90%}	K _{H90%}
1	Pre-BEV	2.01	2.47	1.10	-0.47	-3.53	-2.81	-1.37
	Post-BEV	2.39	2.96	1.17	-0.33	-2.35	-2.12	-0.63
2	Pre-BEV	5.22	5.48	3.47	-1.50	-3.45	-2.47	-1.88
	Post-BEV	2.45	2.99	0.97	-1.31	0.98	-0.45	2.61
3	Pre-BEV	4.59	5.26	3.02	-1.29	-1.77	-1.73	0.21
	Post-BEV	1.75	2.28	1.19	0.15	1.63	0.01	2.69
4	Pre-BEV	3.48	4.08	2.15	-1.42	-1.61	-1.74	-0.37
	Post-BEV	3.85	4.46	2.43	-1.39	-1.36	-1.55	-0.20
5	Pre-BEV	5.09	5.64	3.15	-1.27	-1.36	-1.31	-0.29
	Post-BEV	4.84	5.34	2.85	-1.09	-1.26	-1.22	0.01
6	Pre-BEV	7.39	8.11	4.58	-1.85	-3.93	-2.64	-2.51
	Post-BEV	6.28	7.10	3.59	-2.08	-2.68	-2.10	-1.40
7	Pre-BEV	2.68	2.80	1.84	-0.94	-0.58	-0.77	0.21
	Post-BEV	-0.08	0.19	-0.36	-0.07	2.65	0.86	3.59
8	Pre-BEV	7.53	7.41	5.52	-1.40	-2.89	-2.11	-1.71
	Post-BEV	5.02	5.13	3.38	-1.29	-2.21	-1.87	-0.70
9	Pre-BEV	6.17	6.60	2.88	-2.55	-2.54	-2.31	-0.18
	Post-BEV	4.02	4.57	1.48	-2.05	1.44	-0.66	3.76
10	Pre-BEV	2.79	3.06	1.66	-0.97	-0.53	-1.04	0.74
	Post-BEV	2.77	3.18	1.49	-1.46	2.84	0.67	3.69

Supplementary Table 4 DKI z-scores in NEL of 10 patients obtained 0-7 days before (pre-BEV) and 28 days after (post-BEV) initiating BEV treatment

No.	Time	DKI z-scores						
		MD	D_{\perp}	D_{\parallel}	FA	MK	K_{\perp}	K_{\parallel}
1	Pre-BEV	1.19	1.49	0.55	-1.25	-3.13	-2.47	-1.49
	Post-BEV	0.74	1.03	0.18	-1.08	-1.88	-1.69	-0.59
2	Pre-BEV	3.52	3.88	1.96	-2.03	-3.81	-2.63	-2.40
	Post-BEV	1.42	1.83	0.41	-1.65	-2.54	-2.02	-1.13
3	Pre-BEV	3.14	3.47	2.00	-1.87	-3.53	-2.51	-2.30
	Post-BEV	1.49	1.69	0.90	-1.14	-2.38	-2.06	-0.99
4	Pre-BEV	1.26	1.54	0.67	-1.50	-2.57	-2.13	-1.42
	Post-BEV	1.01	1.31	0.43	-1.49	-2.24	-1.97	-1.07
5	Pre-BEV	2.95	3.36	1.57	-1.99	-3.25	-2.16	-2.18
	Post-BEV	2.80	3.30	1.34	-2.14	-3.02	-2.10	-1.85
6	Pre-BEV	4.10	4.70	2.24	-2.29	-4.13	-2.65	-2.76
	Post-BEV	4.34	4.95	2.41	-2.24	-3.20	-2.26	-2.03
7	Pre-BEV	1.77	1.80	1.31	-1.12	-2.34	-1.51	-1.95
	Post-BEV	1.01	1.00	0.81	-0.65	-1.46	-0.91	-1.34
8	Pre-BEV	3.02	3.01	2.13	-1.38	-3.28	-2.25	-2.37
	Post-BEV	2.80	2.80	1.96	-1.33	-3.20	-2.21	-2.28
9	Pre-BEV	2.87	3.15	1.22	-1.77	-2.81	-2.18	-0.97
	Post-BEV	2.55	2.78	1.12	-1.60	-2.42	-1.99	-0.63
10	Pre-BEV	1.09	1.22	0.62	-0.76	-1.79	-1.25	-1.16
	Post-BEV	0.83	0.95	0.44	-0.66	-1.50	-1.02	-0.98

Supplementary Table 5 10th percentile DKI z-scores in NEL of 10 patients obtained 0-7 days before (pre-BEV) and 28 days after (post-BEV) initiating BEV treatment

No.	Time	DKI z-scores						
		MD _{10%}	D _{⊥10%}	D _{∥10%}	FA _{10%}	MK _{10%}	K _{⊥10%}	K _{∥10%}
1	Pre-BEV	-0.05	0.12	-0.51	-2.22	-4.50	-3.39	-2.57
	Post-BEV	-0.65	-0.42	-0.95	-2.18	-3.32	-2.71	-1.69
2	Pre-BEV	1.71	2.11	0.52	-2.43	-4.61	-3.05	-3.29
	Post-BEV	0.35	0.70	-0.45	-2.31	-4.15	-2.91	-2.40
3	Pre-BEV	1.46	1.66	0.62	-2.76	-4.52	-3.27	-3.16
	Post-BEV	0.00	0.03	-0.37	-2.48	-4.27	-3.40	-2.50
4	Pre-BEV	0.27	0.42	-0.12	-2.27	-3.62	-2.88	-2.26
	Post-BEV	0.13	0.37	-0.34	-2.29	-3.57	-2.92	-2.10
5	Pre-BEV	1.29	1.69	0.23	-2.65	-4.18	-2.65	-3.13
	Post-BEV	0.79	1.25	-0.27	-2.85	-4.37	-2.80	-3.15
6	Pre-BEV	1.51	1.89	0.48	-3.11	-5.67	-3.58	-3.76
	Post-BEV	1.39	1.78	0.48	-2.94	-4.71	-3.12	-3.11
7	Pre-BEV	0.43	0.41	0.20	-1.90	-3.32	-2.13	-3.00
	Post-BEV	0.08	0.00	-0.09	-1.46	-2.47	-1.60	-2.52
8	Pre-BEV	1.25	1.29	0.59	-2.03	-4.34	-2.87	-3.39
	Post-BEV	1.05	1.09	0.46	-2.00	-4.31	-2.85	-3.35
9	Pre-BEV	0.62	0.76	-0.24	-2.85	-4.36	-3.07	-2.07
	Post-BEV	0.40	0.63	-0.63	-2.63	-4.08	-2.86	-2.11
10	Pre-BEV	0.01	0.00	-0.17	-1.72	-2.89	-2.07	-2.28
	Post-BEV	-0.20	-0.23	-0.38	-1.66	-2.63	-1.85	-2.09

Supplementary Table 6 90th percentile DKI z-scores in NEL of 10 patients obtained 0-7 days before (pre-BEV) and 28 days after (post-BEV) initiating BEV treatment

No.	Time	DKI z-scores						
		MD _{90%}	D _{L90%}	D _{H90%}	FA _{90%}	MK _{90%}	K _{L90%}	K _{H90%}
1	Pre-BEV	2.55	3.00	1.64	-0.18	-1.60	-1.38	-0.23
	Post-BEV	2.65	3.10	1.68	-0.03	-0.53	-0.76	0.57
2	Pre-BEV	5.11	5.48	3.18	-1.55	-2.83	-2.13	-1.35
	Post-BEV	2.55	3.04	1.24	-0.94	-1.01	-1.01	0.09
3	Pre-BEV	4.71	5.25	3.19	-0.72	-2.35	-1.64	-1.22
	Post-BEV	3.28	3.62	2.59	0.35	-0.72	-0.69	0.65
4	Pre-BEV	2.23	2.60	1.48	-0.59	-1.51	-1.32	-0.49
	Post-BEV	2.28	2.68	1.42	-0.70	-1.01	-1.09	-0.08
5	Pre-BEV	4.47	4.87	2.81	-1.25	-2.18	-1.58	-1.15
	Post-BEV	4.69	5.21	2.76	-1.36	-1.13	-1.14	0.00
6	Pre-BEV	6.81	7.68	4.01	-1.23	-2.56	-1.66	-1.71
	Post-BEV	7.85	8.56	4.84	-1.39	-1.49	-1.30	-0.85
7	Pre-BEV	3.10	3.13	2.50	-0.17	-1.18	-0.68	-0.85
	Post-BEV	2.04	2.03	1.88	0.20	-0.45	-0.07	-0.18
8	Pre-BEV	5.06	4.93	3.85	-0.64	-2.10	-1.54	-1.26
	Post-BEV	4.74	4.63	3.57	-0.58	-2.05	-1.54	-1.12
9	Pre-BEV	5.86	6.12	3.12	-0.41	-1.28	-1.21	0.21
	Post-BEV	5.77	5.90	3.27	-0.45	-0.41	-0.93	1.48
10	Pre-BEV	2.23	2.52	1.42	0.31	-0.62	-0.28	-0.03
	Post-BEV	2.02	2.27	1.32	0.49	-0.32	-0.09	0.17

R1.6 **Supplementary Table 7** CEL and NEL volume of 10 patients obtained 0-7 days before (pre-BEV) and 28 days after (post-BEV) initiating BEV treatment

No.	Time	Volume (cm ³)	
		CEL	NEL
1	Pre-BEV	18.31	43.43
	Post-BEV	7.21	22.40
2	Pre-BEV	8.72	81.87
	Post-BEV	0.58	56.48
3	Pre-BEV	15.56	132.13
	Post-BEV	1.70	55.77
4	Pre-BEV	42.58	96.24
	Post-BEV	36.73	42.38
5	Pre-BEV	11.11	88.88
	Post-BEV	0.34	116.28
6	Pre-BEV	24.16	141.60
	Post-BEV	7.25	25.57
7	Pre-BEV	6.12	71.73
	Post-BEV	1.95	44.41
8	Pre-BEV	1.13	29.97
	Post-BEV	0.45	28.53
9	Pre-BEV	5.94	48.67
	Post-BEV	1.38	59.41
10	Pre-BEV	1.57	39.89
	Post-BEV	0.39	39.73

Supplementary Table 8 Correlations of imaging measures in CEL, including DKI z-scores and CEL volume, and PFS/OS. Imaging measures were obtained 0-7 days before (pre-BEV) and 28 days after (post-BEV) initiating BEV treatment

Parameter	Time	PFS		OS	
		<i>r</i> (95% CI)	<i>p</i> -value	<i>r</i> (95% CI)	<i>p</i> -value
MD	Pre-BEV	-0.35 (-0.81, 0.38)	0.331	0.04 (-0.62, 0.67)	0.919
	Post-BEV	-0.41 (-0.83, 0.32)	0.247	-0.19 (-0.74, 0.52)	0.608
	Post - Pre	0.10 (-0.58, 0.70)	0.785	-0.04 (-0.67, 0.62)	0.919
D _⊥	Pre-BEV	-0.27 (-0.78, 0.45)	0.448	0.02 (-0.63, 0.65)	0.973
	Post-BEV	-0.37 (-0.82, 0.36)	0.296	-0.20 (-0.75, 0.51)	0.584
	Post - Pre	0.10 (-0.58, 0.70)	0.785	-0.04 (-0.67, 0.62)	0.919
D _∥	Pre-BEV	-0.43 (-0.84, 0.29)	0.218	-0.12 (-0.71, 0.57)	0.759
	Post-BEV	-0.39 (-0.83, 0.33)	0.263	-0.27 (-0.78, 0.45)	0.448
	Post - Pre	0.04 (-0.62, 0.67)	0.919	-0.07 (-0.68, 0.60)	0.865
FA	Pre-BEV	0.35 (-0.38, 0.81)	0.331	0.16 (-0.54, 0.73)	0.657
	Post-BEV	0.09 (-0.59, 0.69)	0.811	0.07 (-0.60, 0.68)	0.865
	Post - Pre	-0.35 (-0.81, 0.38)	0.331	-0.28 (-0.78, 0.44)	0.427
MK	Pre-BEV	0.16 (-0.54, 0.73)	0.657	0.04 (-0.62, 0.67)	0.919
	Post-BEV	0.14 (-0.55, 0.72)	0.707	-0.01 (-0.65, 0.64)	1.000
	Post - Pre	0.13 (-0.56, 0.71)	0.733	-0.04 (-0.67, 0.62)	0.919
K _⊥	Pre-BEV	-0.04 (-0.67, 0.61)	0.919	-0.13 (-0.71, 0.56)	0.733
	Post-BEV	0.04 (-0.62, 0.67)	0.919	0.03 (-0.62, 0.66)	0.946
	Post - Pre	0.03 (-0.62, 0.66)	0.946	-0.18 (-0.74, 0.53)	0.632
K _∥	Pre-BEV	0.28 (-0.44, 0.78)	0.427	0.12 (-0.57, 0.71)	0.759
	Post-BEV	0.30 (-0.43, 0.79)	0.407	0.13 (-0.56, 0.71)	0.733
	Post - Pre	0.10 (-0.58, 0.70)	0.785	0.03 (-0.62, 0.66)	0.946

Volume	Pre-BEV	-0.03 (-0.66, 0.62)	0.946	-0.54 (-0.88, 0.16)	0.113
	Post-BEV	0.09 (-0.59, 0.69)	0.811	-0.45 (-0.85, 0.27)	0.191
	Post - Pre	-0.21 (-0.75, 0.50)	0.560	-0.52 (-0.87, 0.19)	0.133

CI, confidence interval.

Supplementary Table 9 Correlations of 10th percentile DKI z-scores in CEL and PFS/OS. DKI z-scores were obtained 0-7 days before (pre-BEV) and 28 days after (post-BEV) initiating BEV treatment

Parameter	Time	PFS		OS	
		<i>r</i> (95% CI)	<i>p</i> -value	<i>r</i> (95% CI)	<i>p</i> -value
MD _{10%}	Pre-BEV	-0.30 (-0.79, 0.43)	0.407	-0.19 (-0.74, 0.52)	0.608
	Post-BEV	-0.41 (-0.83, 0.32)	0.247	-0.35 (-0.81, 0.38)	0.331
	Post - Pre	-0.12 (-0.71, 0.57)	0.759	-0.22 (-0.76, 0.49)	0.537
D _{⊥10%}	Pre-BEV	-0.27 (-0.78, 0.45)	0.448	-0.10 (-0.70, 0.58)	0.785
	Post-BEV	-0.44 (-0.84, 0.28)	0.204	-0.28 (-0.78, 0.44)	0.427
	Post - Pre	-0.15 (-0.72, 0.54)	0.682	-0.26 (-0.77, 0.46)	0.470
D _{∥10%}	Pre-BEV	-0.41 (-0.83, 0.32)	0.247	-0.27 (-0.78, 0.45)	0.448
	Post-BEV	-0.28 (-0.78, 0.44)	0.427	-0.19 (-0.74, 0.52)	0.608
	Post - Pre	-0.03 (-0.66, 0.62)	0.946	-0.10 (-0.70, 0.58)	0.785
FA _{10%}	Pre-BEV	0.27 (-0.45, 0.78)	0.448	0.25 (-0.47, 0.77)	0.492
	Post-BEV	0.22 (-0.49, 0.76)	0.537	0.36 (-0.37, 0.81)	0.313
	Post - Pre	-0.39 (-0.83, 0.33)	0.263	-0.31 (-0.79, 0.42)	0.387
MK _{10%}	Pre-BEV	0.15 (-0.54, 0.72)	0.682	0.01 (-0.64, 0.65)	1.000
	Post-BEV	-0.12 (-0.71, 0.57)	0.759	-0.12 (-0.71, 0.57)	0.759
	Post - Pre	-0.48 (-0.86, 0.24)	0.166	-0.43 (-0.84, 0.29)	0.218
K _{⊥10%}	Pre-BEV	0.07 (-0.60, 0.68)	0.865	0.18 (-0.53, 0.74)	0.632
	Post-BEV	-0.21 (-0.75, 0.50)	0.560	-0.07 (-0.68, 0.60)	0.865
	Post - Pre	-0.48 (-0.86, 0.24)	0.166	-0.43 (-0.84, 0.29)	0.218
K _{∥10%}	Pre-BEV	0.35 (-0.38, 0.81)	0.331	0.20 (-0.51, 0.75)	0.584
	Post-BEV	-0.01 (-0.65, 0.64)	1.000	-0.15 (-0.72, 0.54)	0.682
	Post - Pre	-0.52 (-0.87, 0.19)	0.133	-0.49 (-0.86, 0.22)	0.154

CI, confidence interval.

Supplementary Table 10 Correlations of 90th percentile DKI z-scores in CEL and PFS/OS. DKI z-scores were obtained 0-7 days before (pre-BEV) and 28 days after (post-BEV) initiating BEV treatment

Parameter	Time	PFS		OS	
		<i>r</i> (95% CI)	<i>p</i> -value	<i>r</i> (95% CI)	<i>p</i> -value
MD _{90%}	Pre-BEV	-0.38 (-0.82, 0.35)	0.279	0.09 (-0.59, 0.69)	0.838
	Post-BEV	-0.45 (-0.85, 0.27)	0.191	-0.05 (-0.67, 0.61)	0.892
	Post - Pre	0.12 (-0.57, 0.71)	0.759	-0.02 (-0.65, 0.63)	0.973
D _{⊥90%}	Pre-BEV	-0.50 (-0.87, 0.21)	0.143	-0.08 (-0.69, 0.59)	0.919
	Post-BEV	-0.48 (-0.86, 0.24)	0.166	-0.12 (-0.71, 0.57)	0.759
	Post - Pre	0.19 (-0.52, 0.74)	0.608	0.08 (-0.59, 0.69)	0.838
D _{∥90%}	Pre-BEV	-0.47 (-0.85, 0.25)	0.178	-0.04 (-0.67, 0.62)	0.785
	Post-BEV	-0.52 (-0.87, 0.19)	0.133	-0.20 (-0.75, 0.51)	0.584
	Post - Pre	0.10 (-0.58, 0.70)	0.785	-0.13 (-0.71, 0.56)	0.733
FA _{90%}	Pre-BEV	-0.01 (-0.65, 0.64)	1.000	-0.10 (-0.70, 0.58)	0.973
	Post-BEV	-0.15 (-0.72, 0.54)	0.682	-0.19 (-0.74, 0.52)	0.608
	Post - Pre	-0.10 (-0.70, 0.58)	0.785	-0.15 (-0.72, 0.54)	0.682
MK _{90%}	Pre-BEV	0.01 (-0.60, 0.68)	0.865	-0.02 (-0.65, 0.63)	0.657
	Post-BEV	0.33 (-0.39, 0.80)	0.349	0.22 (-0.49, 0.76)	0.537
	Post - Pre	0.52 (-0.19, 0.87)	0.133	0.41 (-0.32, 0.83)	0.247
K _{⊥90%}	Pre-BEV	-0.13 (-0.71, 0.56)	0.733	-0.16 (-0.73, 0.54)	0.973
	Post-BEV	0.26 (-0.46, 0.77)	0.470	0.12 (-0.57, 0.71)	0.759
	Post - Pre	0.60 (-0.07, 0.90)	0.073	0.45 (-0.27, 0.85)	0.191
K _{∥90%}	Pre-BEV	0.13 (-0.56, 0.71)	0.733	-0.02 (-0.65, 0.63)	0.811
	Post-BEV	0.38 (-0.35, 0.82)	0.279	0.27 (-0.45, 0.78)	0.448
	Post - Pre	0.36 (-0.37, 0.81)	0.313	0.36 (-0.37, 0.81)	0.313

CI, confidence interval.