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2 Figure S1 Clinical photograph of cases (a-b) with corneal decompensation with poor corneal
3 visualization that underwent mi-OCT guided DMEK

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Table S1 - Baseline Characteristic and Outcome of Cases Undergoing MI-OCT guided DMEK

S.No	Age/ Sex	Primary diagnosis	Duration of cornea edema (months)	Cause for poor visualizatio n	Pre-op CDVA (logMAR)	Pre- op CCT (μ m)	Intra-op Mi- OCT finding	Post- operative Outcome	Post-op CDVA (logMAR)	Post -op CCT (μ m)
1	58/ M	PBK	24	Severe corneal edema with Stromal haze	1.77	839	Retained DM tag	Rebubbling for Graft detachmen t	0.18	560
2	55/F	PBK	6	Severe corneal edema	2	800	Retained DM tag	Graft attached	0	550
3	62/ M	FECD with pseudophakic corneal decompensat ion	12	Severe corneal edema	2	910	Retained DM tag, Orientation of graft when S mark not visible	Rebubbling for graft detachmen t	0.3	540
4	41/F	PBK with IFC	24	Severe corneal edema with Stromal haze	2	890	Missing DM noted, Retained DM tag, Orientation of graft when S mark not visible	Graft attached	1.3	550
5	68/F	PBK	12	Severe corneal edema	1	820	Retained DM tag	Graft attached	0.18	540
6	54/F	PBK	12	Stromal haze	1.3	710	Retained DM tag	Graft attached	0.3	530
7	51/F	PBK	10	Severe corneal edema	2	980	Retained DM tag, S mark not visible, Graft fold noted (upward)- successful unfolding	Graft attached	0.3	550
8	60/F	FECD with pseudophakic corneal decompensat ion	8	Stromal haze	0.78	642	Retained DM tag	Graft attached	0.3	520
9	58/F	PBK	12	Stromal haze	0.78	620	Retained DM tag	Graft attached	0.48	525
10	70/ M	FECD with pseudophakic corneal decompensat ion	6	Stromal haze	0.78	625	Retained DM tag	Graft attached	0.18	520
11	65/ M	PBK with secondary glaucoma	18	Severe corneal edema	2	839	Retained DM tag, Graft fold noted (downward) - successful unfolding	Graft attached	0.18	540
12	45/ M	PBK	14	Severe corneal edema	1	790	Retained DM tag	Graft attached	0.18	543
13	45/ M	PBK	12	Severe corneal edema	2	910	Missing DM noted, Retained	Graft attached	0.3	544

							DM tag, Orientation of graft when S mark not visible			
14	75/ M	PBK	12	Severe corneal edema	2	890	Surgical site modified due to previous surgical scar, Retained DM tag, Orientation of graft when S mark not visible	Graft attached	0.3	534
15	50/ M	PBK	12	Severe corneal edema	1.77	820	Retained DM tag	Graft attached	0	532
16	60/ M	PBK with operated Trabeculecto my	14	Stromal haze	0.78	710	Retained DM tag	Graft attached	0.6	523
17	66/ M	PBK	18	Severe corneal edema with stromal haze	2	965	Missing DM noted, Retained DM tag, Orientation of graft when S mark not visible	Rebubbling for Graft detachmen t	0.18	535
18	65/ M	PBK	12	Stromal haze	0.78	642	Retained DM tag	Graft attached	0.48	527
19	63/F	FECD with pseudophakic corneal decompensat ion		Stromal haze	0.78	620	Retained DM tag	Graft attached	0.48	524
20	56/F	Failed DSAEK	12	Severe corneal edema with stromal haze	2	845	S mark not visible	Graft attached	0.18	530
21	42/F	Failed graft	12	Severe corneal edema	1.77	800	Retained DM tag	Graft attached	0.6	520
22	42/F	ICE syndrome	24	Severe corneal edema	2	910	PAS noted and released	Graft attached	0.3	550
23	72/F	PBK	18	Severe corneal edema	2	885	Surgical site modified due to previous surgical scar, Retained DM tag	Rebubbling for graft detachmen t	0.3	550
24	58/F	Failed graft	18	Severe corneal edema	1	820	Retained DM tag, Graft fold noted (upward)- could not be unfolded	Peripheral DM fold, Graft attached	0.13	540
25	60/F	PBK	16	Stromal haze	0.78	710	Retained DM tag	Graft attached	0.48	530