

Supplementary Table 1. List of Investigative Sites

S.No.	Site Name
1	Access Eye
2	Albany Regional Eye Surgery Center
3	Allied Physician Surg Ctr
4	Amelia Island Surgery Center
5	American Eye Surgery Center
6	American Surg Ctr of S TX
7	Avon Surgery Center LLC
8	BDP - Flagstaff
9	BDP - Phoenix
10	BDP - Sedona
11	Beltway Surgery Ctr Springmill
12	Birmingham Outpatient Surg Ctr
13	Brecksville Surgery Center
14	Camp Lowell Surgery Center
15	Carondelet Foothills Surgery Center
16	Central NY Eye Ctr
17	Chesapeake Eye Surgery Center
18	Clarkston ASC Partners LLC
19	Clearview Surgery Center
20	CLI SURGERY CENTER
21	Doctors Outpatient Surgery Center
22	Eastern Orange ASC
23	El Paso Day Surgery, LLC
24	Evergreen Eye Center- Federal Way
25	Eye Academy Am Grand Junction

26	Eye Surgery Center Ltd
27	Eye Surgery Center of Tulsa
28	Eye Surgery Ctr of GA
29	Eye Surgi CTRs Carolinas
30	Eye Surgical Center
31	Eyesight Laser and Surgery Center
32	Family Surgery Center
33	Florissant Surgery Center
34	Freedom Vision Surgery Center
35	Gainesville Eye Center
36	Glenbrook Hospital
37	Hallandale Outpatient Surg Ctr
38	Hartford Hospital Eye Center
39	Hawaiian Eye Center
40	HFHS Lakeside
41	Highsmith Rainey Hospital
42	Idaho Eye Center
43	Insight Surgery Center LLC
44	Jackson Madison County
45	Kernersville Medical Center
46	Lexington Surgery Center
47	Lind Eyecare
48	Nashua Eye Surgery Center
49	North Coast Surgery Center
50	North Georgia Eye Clinic
51	North Kitsap Ambulatory Srg Ctr
52	North Shore Same Day Surgery

53	Novamed Eyecare - Atlanta
54	Ophthalmology Surgery Center
55	Oregon Eye Surgery Center
56	Palisades Eye Surgery Center
57	Palm Beach Outpatient Surg CTR
58	Park Hill Surgery CTR LLC
59	Physicians Surgery Center of Downey
60	Richens Eye Center
61	Rocky Hill ASC LLC
62	Rush Surgicenter Ltd
63	Salem ASC LLC
64	Santa Barbara Surgery Center
65	Scripps Encinitas Surgery Center
66	Scripps Mercy Ambulatory
67	SIEHT Falkenberg Eye & Laser Center
68	Southwestern Eye Center - Cottonwood
69	Southwestern Eye Ctr - Casa Grande
70	Specialist Surgery Center of Del Mar
71	St Lucy's Outpatient Surgery Center
72	Staten Island Univ Hospital
73	Surgery Center of Kalamazoo
74	Surgery Center of Plano
75	Surgery Center of Weston LLC
76	SurgiSite Boston
77	Texas Eye and Laser Center
78	The Surg Center of N Central OH LLC
79	UCLA - Jules Stein Eye Institute

80	Univ of CA Davis Eye Ctr
81	Utah Valley Eye Center
82	Valley Eye Associates
83	Vision Quest Medical Center PA
84	West Health Inc
85	West Valley Peaks
86	Western Carolina Surgery Center
87	Wilshire Center for Ambulatory Surg

Supplementary Table 2. Summary of prediction errors ≥ 1 month (30 days) postoperative (all-implanted analysis set)

Endpoint	Statistic	Clareon All eyes (Total = 1404)	Clareon non-Toric (Total = 1084)	Clareon Toric (Total = 320)	
Absolute ORA Prediction Error (D)	N	619	481	138	
	Mean (SD)	0.33 (0.32)	0.33 (0.38)	0.31 (0.30)	
	Median	0.26	0.26	0.26	
	Min, Max	0.00, 3.82	0.00, 3.82	0.00, 1.76	
Absolute Biometry Prediction Error (D)	N	619	481	138	
	Mean (SD)	0.32 (0.30)	0.33 (0.30)	0.32 (0.27)	
	Median	0.26	0.25	0.28	
	Min, Max	0.00, 3.65	0.00, 3.65	0.00, 1.54	
Abs (ORA Prediction Error) – Abs (Biometry Prediction Error) (D)	N	619	481	138	
	Mean (SD)	0.01 (0.22)	0.01 (0.24)	-0.01 (0.16)	
	Median	-0.01	0.00	-0.02	
	Min, Max	-0.58, 1.72	-0.58, 1.72	-0.34, 0.45	
Prediction Error range	N	619	481	138	
	≤ -1.00 D	n (%)	0 (0.0)	0 (0.0)	0 (0.0)
	< -1.00 D to ≤ -0.75 D	n (%)	0 (0.0)	0 (0.0)	0 (0.0)
	< -0.75 D to ≤ -0.50 D	n (%)	7 (1.1)	7 (1.5)	0 (0.0)
	< -0.50 D to ≤ -0.25 D	n (%)	59 (9.5)	49 (10.2)	10 (7.2)
	No change (> -0.25 D to < 0.25 D)	n (%)	487 (78.7)	368 (76.5)	119 (86.2)
	≥ 0.25 D to < 0.50 D	n (%)	53 (8.6)	44 (9.1)	9 (6.5)
	≥ 0.50 D to < 0.75 D	n (%)	9 (1.5)	9 (1.9)	0 (0.0)
	≥ 0.75 D to < 1.00 D	n (%)	3 (0.5)	3 (0.6)	0 (0.0)
	≥ 1.00 D	n (%)	1 (0.2)	1 (0.2)	0 (0.0)

Abs = absolute value; All eyes = eyes in all-implanted analysis set (AAS); D = diopter; MRSE = Manifest refraction spherical equivalent; N = number of eyes in analysis set; n = number of eyes in category; SD = standard deviation

Percentages are calculated as $(n/N) * 100$.

ORA Prediction Error = MRSE after surgery minus ORA predicted residual spherical equivalent

Biometry Prediction Error = MRSE after surgery minus biometry predicted refraction

Clareon non-Toric consists of all eyes in the AAS with a non-Toric IOL implanted

Clareon Toric consists of all eyes in the AAS with a Toric IOL implanted

Supplementary Table 3. ORA influence on IOL power selection (Spherical equivalent)

Group	Sample size (eyes)	Surgeon Preop Calculation Chosen	ORA match Surgeon Choice	ORA Influenced Surgeon Choice
Clareon All eyes	1404	20.9%	29.1%	49.9%
Clareon non-Toric	-	22.8%	27.9%	49.4%
Clareon Toric	-	14.7%	33.4%	51.8%

All eyes = eyes in all-implanted analysis set (AAS)

Surgeon Preop Calculation Chosen = Surgeon preop selection overrides ORA suggestion for IOL power

ORA Match Surgeon Choice = Surgeon preop selection matches ORA suggestion for IOL power

ORA Influenced Surgeon Choice = ORA suggestion overrides surgeon preop selection for IOL power

Clareon non-Toric consists of all eyes in the AAS with a non-Toric IOL implanted

Clareon Toric consists of all eyes in the AAS with a Toric IOL implanted