

Supplementary Table. General Characteristics of the Patients in the Control Group (n = 28) Undergone Conventional Vitreoretinal Surgery under Various Status

No.	Sex	Age, year	Eye	BCVA	Main Dx	Various Factor	Main Surgical Procedure	Duration, minute	Endoillu, lux	Difficulty Rating	Ergonomics Rating
1	M	21	OD	20/1,000	RD	Recurrent RD, CD	PPV+SOI	48	1926.0	1	3
2	M	19	OS	HM	RD	SOT, recurrent RD, cataract	Phaco+SOR+PPV+SOI	65	1912.3	2	3
3	F	64	OD	HM	RD	PVR, CD	PPV+MP+SOI	40	1908.0	2	3
4	F	50	OS	CF	RD	PVR, CD	PPV+MP+SOI	55	1909.7	1	4
5	M	53	OD	CF	PDR	PVR, TRD	PPV+MP+SOI	45	1903.0	2	3
6	M	48	OS	20/400	SOT	Cataract	Phaco+SOR	30	1913.3	1	5
7	F	60	OS	CF	RD	PVR, CD	PPV+MP+SOI	40	1917.7	1	3
8	F	37	OS	HM	RD	Recurrent RD, PVR, CD	PPV+MP+SOI	60	1907.0	2	2
9	F	25	OS	20/400	PDR	PVR, VH, TRD	PPV+SOI	55	1898.7	2	3
10	F	48	OD	HM	RD	Recurrent RD, PVR, cataract	Phaco+SOR+PPV+MP +SOI	70	1894.3	1	2
11	F	41	OD	20/100	PDR	PVR, TRD, VH	PPV+MP+SOI	60	1901.0	2	3
12	F	51	OD	20/250	PRD	VH, PVR	PPV+MP+air tamponade	40	1902.0	1	4
13	M	58	OD	CF	RD	Recurrent RD, highly myopic, PVR	PPV+MP+SOI	55	1919.7	2	4
14	M	52	OS	20/200	RD	CD	PPV+SOI	30	1919.0	1	5
15	F	65	OS	HM	RD	SOT, recurrent RD, CD, opacity of lens capsule	Lensectomy+SOR+PPV+retinotomy+SOI	80	1909.3	4	2
16	M	53	OS	20/500	SOT	Cataract	Phaco+SOR	35	1913.7	1	4
17	M	34	OS	CF	RD	SOT, recurrent RD, CD	SOR+PPV+SOI	50	1913.7	2	3

18	M	45	OD	HM	RD	SOT, recurrent RD, CD	SOR+PPV+MP+SOI	44	1895.3	2	2
19	F	44	OD	20/2,000	RD	Highly myopic, macular hole	PPV+ILMP+SOI	40	1923.0	2	2
20	M	34	OS	20/500	RD	Highly myopic, PVR, CD	PPV+SOI	48	1903.0	1	3
21	M	81	OD	HM	RD	CD, PVR	PPV+air tamponade	30	1916.3	1	4
22	F	62	OD	HM	PDR	PVR, TRD, VH	PPV+SOI	38	1915.3	2	3
23	M	68	OD	20/1,000	RD	PVR, CD	PPV+MP+SOI	36	1889.3	1	4
24	M	63	OS	CF	RD	SOT, recurrent RD, PVR	SOR+PPV+retinotomy+SOI	65	1943.0	3	1
25	F	54	OD	20/1,000	RD	SOT, recurrent RD	SOR+PPV+SOI	45	1923.3	1	3
26	M	74	OS	CF	PDR	PVR, VH, TRD	PPV+SOI	52	1943.7	2	4
27	M	46	OS	HM	RD	PVR, CD	PPV+MP+SOI	35	1916.7	1	5
28	M	54	OD	HM	RD	Highly myopic, PVR	PPV+SOI	40	1925.3	2	2

BCVA: best corrected visual acuity; CD: choroidal detachment; CF: counting fingers; Dx: diagnosis; Endoillu: endoillumination; F: female; HM: hand movements; ILMP: internal limiting membrane peeling; lux: luminous emittance; M: male; MP: membrane peeling; OD: right eye; OS: left eye; PDR: proliferative diabetic retinopathy; Phaco: phacoemulsification; PPV: pars plana vitrectomy; PVR: proliferative vitreoretinopathy; RD: retinal detachment. SOI: silicone oil infusion; SOR: silicone oil removal; SOT: silicone oil tamponade; TRD: tractional retinal detachment; VH: vitreous hemorrhage.

Questionnaire to the Surgeon and Assistants

- 1) Question to the Surgeon: Please rate the general difficulty of the whole surgery ranging from cores 1-5 (1 = not difficult, 5 = absolutely difficult).
- 2) Question to the Surgeon: Please rate the general ergonomics during this of surgery from score 1-5 (1 = very uncomfortable; 5 = very comfortable).
- 3) Question to the Surgeon: What satisfied you during this time of surgery when using the 3D heads-up display surgical platform? (open question)
- 4) Question to the Surgeon: Are there any Advantages and/or Disadvantages you would like to describe when using the 3D heads-up display surgical platform at this time of surgery? (open question)
- 5) Question to the Surgeon and assistants: The main difficulties and discomforts occurred to you during the surgery when you were using the 3D heads-up display surgical platform. (open question)
- 6) Question to the Surgeon and Assistants: What's your preference to 3D surgical platform and convention eyepiece?
A. 3D surgical platform B. Conventional eyepiece C. I am not sure

And what's your main reason? _____