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Table 1. Preoperative Demographic, Ocular, and Function Characteristics of Subjects Who Underwent Unilateral Eye versus Bilateral Eye Cataract Surgery

Characteristics		1-eye Surgery(n=61)	2-eye Surgery(n=92)	P-Value
Patient Characteristics				
Age(yrs)	Mean±SD	67.9±8.2	66.9±9.4	0.50
	Range	50~84	50~89	
Sex(%)	Male	34.4	35.9	0.86
Education(%)	1~6 yrs	31.0	38.8	0.67
	7~12 yrs	31.0	29.9	
	>=13 yrs	38.1	31.3	
Married(%)	59.0	59.8	0.93	
Living alone(%)	11.5	6.5	0.28	
Ocular Characteristics at Baseline				
First surgical eye visual acuity				0.59
	Mean	20/118	20/106	
	Range	20/20-HM	20/15-HM	
Fellow eye visual acuity				0.50
	Mean	20/60	20/53	
	Range	20/15-CF	20/15-CF	
Weighted average visual acuity†				0.90
	Mean	20/61	20/62	
	Range	20/20-20/300	20/15-CF	
Ocular comorbidity		16.1	11.9	0.48
Functional Characteristics at Baseline				
VF-14				0.99
	Mean±SD	68.5±25.1	68.5±21.3	
	Range	37.5-100	25-100	
Symptom score				0.07
	Mean±SD	4.1±4.6	5.5±4.8	
	Range	0-15	0-18	
Trouble with vision, %				0.03*
	None	3.4	2.2	
	A little	28.8	14.1	
	A great deal	30.5	53.3	

* P<0.05, ** P<0.01, *** P<0.001.

SD = standard deviation, CF=count fingers, HM=hand motions.

† Weighted average VA : 75%(better eye VA) + 25%(worse eye VA).

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= ABSTRACT =

A Comparison of Clinical Results in Unilateral and Bilateral Cataract Surgeries

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Purpose : This study compares the outcomes of unilateral cataract surgery to those of bilateral cataract surgery in patients with cataract of both eyes.

Methods : Among a total of 153 patients, 61 underwent unilateral surgery and 92 bilateral surgery.

Results : The unilateral and bilateral surgeries were similar in demographic and ocular characteristics including visual acuity and visual function-14, except patient-reported factor, such as trouble with vision at baseline. The patient-reported factor was more serious in bilateral surgery than in unilateral surgery. The changes of three outcomes were associated not with unilateral eye or bilateral eye surgery, but with each baseline condition.

Conclusions : The patient-reported factors such as symptom score, trouble with vision were the significant outcomes to decide unilateral or bilateral surgery in patients with cataract of both eyes. The result of unilateral or bilateral surgery did not affect the outcomes of cataract surgery after 12 months.

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Key Words : Cataract surgery, Bilateral surgery, Patient-reported factors, Unilateral surgery

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