

Supplemental Table 6: Univariable and Multivariable Hazard Ratios of Rhegmatogenous Retinal Detachment (RRD) or Retinal Tears (RT) After Cataract Surgery by Demographic Feature, Ocular Comorbidity, and Cataract Surgery Complexity.

Demographic Characteristics														
Demographic Category	Group	Cataract Procedures	Retinal Events (RRD or RRT)			RRD					RRT			
			Uni HR (95% CI)*	P Value	Multi HR (95% CI)**	P Value	Uni HR (95% CI)*	P Value	Multi HR (95% CI)**	P Value	Uni HR (95% CI)*	P Value	Multi HR (95% CI)**	P Value
All Procedures	NA	5,191,753	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Age at Surgery (years)	> 70	2,619,596	[Ref]	[Ref]	[Ref]	[Ref]	[Ref]	[Ref]	[Ref]	[Ref]	[Ref]	[Ref]	[Ref]	[Ref]
	61-70	1,959,850	2.58 (2.47-2.7)	<0.001	2.36 (2.26-2.47)	<0.001	2.56 (2.41-2.72)	<0.001	2.54 (2.39-2.7)	<0.001	2.71 (2.54-2.88)	<0.001	2.22 (2.08-2.37)	<0.001
	51-60	518,486	4.95 (4.7-5.22)	<0.001	3.87 (3.67-4.09)	<0.001	6.13 (5.73-6.57)	<0.001	5.48 (5.11-5.87)	<0.001	3.96 (3.65-4.29)	<0.001	2.58 (2.37-2.8)	<0.001
	40-50	93,821	6.64 (6.08-7.25)	<0.001	4.51 (4.12-4.93)	<0.001	9.76 (8.8-10.83)	<0.001	7.8 (7.02-8.66)	1.18032 282791 474e-320	3.59 (3.04-4.23)	<0.001	1.97 (1.67-2.33)	<0.001
Sex	Female	3,114,700	[Ref]	[Ref]	[Ref]	NA	[Ref]	NA	[Ref]	NA	[Ref]	[Ref]	[Ref]	[Ref]
	Male	2,077,053	2.39 (2.31-2.48)	<0.001	2.35 (2.26-2.44)	<0.001	3.14 (2.98-3.3)	<0.001	3.07 (2.92-3.23)	<0.001	1.79 (1.7-1.89)	<0.001	1.75 (1.66-1.84)	<0.001
Race	Caucasian	3,930,898	[Ref]	[Ref]	[Ref]	NA	[Ref]	NA	[Ref]	NA	[Ref]	[Ref]	[Ref]	[Ref]
	Asian	114,508	0.81 (0.71-0.92)	0.001	0.72 (0.63-0.81)	<0.001	0.67 (0.56-0.81)	<0.001	0.59 (0.49-0.71)	<0.001	0.92 (0.77-1.1)	0.37156	0.84 (0.71-1.01)	0.05956
	Black or African American	308,503	0.62 (0.57-0.69)	<0.001	0.64 (0.58-0.7)	<0.001	0.57 (0.5-0.64)	<0.001	0.56 (0.49-0.63)	<0.001	0.66 (0.58-0.76)	<0.001	0.71 (0.63-0.81)	<0.001
	Other	45,612	1.42 (1.22-1.66)	<0.001	1.19 (1.02-1.39)	0.03177	1.25 (1-1.55)	0.04779	1.02 (0.82-1.27)	0.87669	1.63 (1.32-2.02)	<0.001	1.42 (1.14-1.75)	0.00154
	Unknown	792,232	0.54 (0.5-0.58)	<0.001	0.64 (0.6-0.69)	<0.001	0.51 (0.47-0.56)	<0.001	0.61 (0.55-0.67)	<0.001	0.55 (0.5-0.61)	<0.001	0.67 (0.6-0.75)	<0.001
Ethnicity	Not Hispanic or Latino	4,000,848	[Ref]	[Ref]	[Ref]	[Ref]	[Ref]	NA	[Ref]	NA	[Ref]	[Ref]	[Ref]	[Ref]
	Hispanic or Latino	292,868	0.83 (0.77-0.9)	<0.001	0.98 (0.9-1.06)	0.60648	0.83 (0.74-0.92)	<0.001	0.94 (0.84-1.05)	0.30224	0.81 (0.72-0.91)	0.00057	1 (0.89-1.13)	0.97144

	Unknown	898,037	0.56 (0.52-0.59)	<0.001	0.68 (0.63-0.73)	<0.001	0.51 (0.47-0.56)	<0.001	0.61 (0.56-0.67)	<0.001	0.6 (0.55-0.66)	<0.001	0.76 (0.69-0.84)	<0.001
Comorbidities and Cataract Surgery Complexity Indicators														
Condition	Present Prior to Cataract Procedure	Cataract Procedures	Retinal Events (RRD or RRT)			RRD					RRT			
			Uni HR (95% CI)*	P Value	Multi HR (95% CI)**	P Value	Uni HR (95% CI)*	P Value	Multi HR (95% CI)**	P Value	Uni HR (95% CI)*	P Value	Multi HR (95% CI)**	P Value
Lattice Degeneration	No	5,145,732	32.36 (31.04-33.73)	<0.001	23.53 (22.53-24.57)	<0.001	17.04 (15.95-18.2)	<0.001	11.19 (10.46-11.98)	<0.001	57.12 (54.09-60.31)	<0.001	45.82 (43.27-48.52)	<0.001
	Yes	46,021												
High Myopia	No	4,349,430	1.61 (1.54-1.67)	<0.001	1.19 (1.14-1.24)	<0.001	1.63 (1.54-1.71)	<0.001	1.28 (1.22-1.35)	<0.001	1.62 (1.53-1.72)	<0.001	1.11 (1.04-1.18)	0.001
	Yes	842,323												
Posterior Vitreous Detachment	No	4,723,652	1.31 (1.24-1.38)	<0.001	1.12 (1.06-1.19)	<0.001	1.24 (1.15-1.33)	<0.001	1.25 (1.16-1.35)	<0.001	1.39 (1.29-1.5)	<0.001	1 (0.93-1.08)	0.97
	Yes	468,101												
Hypermature Cataract	No	5,181,190	1.71 (1.21-2.4)	0.002	1.44 (1.02-2.03)	0.04	2.07 (1.38-3.12)	<0.001	1.43 (0.95-2.16)	0.09	1.21 (0.67-2.19)	0.52	1.33 (0.74-2.42)	0.34
	Yes	10,563												
Pseudoexfoliation	No	5,017,104	0.99 (0.9-1.1)	0.90	1.02 (0.92-1.13)	0.71	1 (0.88-1.14)	0.99	0.97 (0.85-1.1)	0.61	0.99 (0.86-1.15)	0.90	1.1 (0.95-1.28)	0.19
	Yes	174,649												
Floppy Iris Syndrome	No	5,156,344	1.01 (0.82-1.26)	0.89	0.84 (0.68-1.05)	0.13	1.1 (0.84-1.45)	0.49	0.79 (0.6-1.04)	0.10	0.84 (0.59-1.19)	0.33	0.9 (0.63-1.28)	0.54
	Yes	35,409												
Use of Complex Cataract Surgery CPT Code (66982)	No	4,837,193	1.2 (1.12-1.29)	<0.001	1.24 (1.15-1.33)	<0.001	1.53 (1.41-1.66)	<0.001	1.48 (1.36-1.61)	<0.001	0.79 (0.7-0.89)	<0.001	0.87 (0.77-0.99)	0.03
	Yes	354,560												

Abbreviations: CI = Confidence Interval; CPT = Current Procedural Terminology; HR=Hazard Ratio; [Ref] = Reference; RRD = Rhegmatogenous Retinal Detachments; RRT = Rhegmatogenous Retinal Tears.

Bold HR (95% CI) values indicate statistical significance (P <0.05).

* Univariable Hazard Ratios are based on coefficients from a Cox regression model of the single variable.

** Multivariable Hazard Ratios are based on coefficients from a multivariable Cox regression model contained all of the demographic factors (age at cataract surgery, sex, race, ethnicity, indicator for the presence of bilateral cataract surgeries), comorbidities (lattice degeneration, high myopia, posterior vitreous detachment), and factors associated with cataract surgery complexity (hypermature cataract, pseudoexfoliation, floppy iris syndrome, complex cataract surgery CPT code)