Supplementary Table 1. ICD-10 codes used to define cataract diagnoses included in the analysis

ICD-10 Code	Description	
H25.011	Cortical age-related cataract, right eye	
H25.012	Cortical age-related cataract, left eye	
H25.013	Cortical age-related cataract, bilateral	
H25.11	Age-related nuclear cataract, right eye	
H25.12	Age-related nuclear cataract, left eye	
H25.13	Age-related nuclear cataract, bilateral eye	
H25.89	Other age-related cataract	
H25.21	Age-related cataract, morgagnian type (hypermature), right eye	
H25.22	Age-related cataract, morgagnian type (hypermature), left eye	
H25.23	Age-related cataract, morgagnian type (hypermature), bilateral	
H25.811	Combined forms of age-related cataract, right eye	
H25.812	Combined forms of age-related cataract, left eye	
H25.813	Combined forms of age-related cataract, bilateral	

Abbreviations: ICD-10=International Classification of Diseases, 10th revision.

Supplementary Table 2. IOL model names and keywords to identify brand and type of IOL

TD.	Brand		
Туре	Alcon	Johnson & Johnson	
Monofocal	SN60WF, SA60WF,	ZCB00	
Monoral	SN60AT, SA60AT		
	SN6AT3, SN6AT4,	ZCT150, ZCT225, ZCT300, ZCT400, ZCT425, ZCT525, ZCT600	
	SN6AT5, SN6AT6,		
	SN6AT7, SN6AT8,		
Monofocal toric	SN6AT9, SA6AT3,		
	SA6AT4, SA6AT5,		
	SA6AT6, SA6AT7,		
	SA6AT8, SA6AT9		
	SN6AD1, SV25T0,	ZKB00, ZLB00, ZMB00, keywords: "Tecnis multifocal"	
Diffractive multifocal	SN6AD3,		
	keywords:		
	"ReSTOR multifocal"		
	SND1T3, SND1T4,	NA	
	SND1T5, SND1T6,		
Diffractive multifocal	SV25T3, SV25T4,		
toric	SV25T5, SV25T6,		
toric	keywords:		
	"ReSTOR multifocal		
	toric"		
	NA	ZXR00,	
Diffractive		keywords:	
EDOF/EDF		"Tecnis Symfony",	
22 01/221		"Symfony", "EDOF",	
		"EDF"	
	NA	ZXT150,ZXT225,	
		ZXT300, ZXT375,	
Diffractive		keywords:	
EDOF/EDF toric		"Tecnis Symfony toric",	
		"Symfony toric",	
		"EDOF toric", "EDF	
		toric"	

Abbreviations: EDOF/EDF=extended depth of focus; IOL=intraocular lens

Supplementary Figure 1. Patient attrition

Patients in the IRIS Registry database between January 1, 2016 and March 31, 2018 N=36,015,428 Patient eyes with a CPT code for cataract surgery^a n=3,777,028 Patients aged \geq 45 years on the date of the cataract surgery n=3,688,233 Patient eyes with an accompanying ICD code for cataract 30 days prior to

and including the day of the CPT code for cataract surgery^a

n=3,659,092

Patient eyes with at least 2 visits in the IRIS database within 180 days of the cataract procedure

n=2,990,015

Patient eyes attending a practice which contributes data to the IRIS registry for ≥365 days following the cataract surgery procedure

n=2,598,115

Exclude patient eyes with an ICD code for any of the conditions to be excluded present at any time in the patient eye's record

n=2,595,267

Exclude patient eyes with a CPT code for any of the procedures to be excluded present at any time in the patients eye record

n=2,571,698

Exclude patient eyes without an identifiable brand and type of IOL implanted from phsycian notes

n=89,947

Abbreviations: CPT, current procedural terminology; ICD, International Classification of Diseases; IRIS, Intelligent Research in Sight; IOL, intraocular lens.

^aIncluded information on the laterality of the diagnosis