

LITERATURE SEARCHES FOR THIS PPP

Literature searches of the PubMed and Cochrane databases were conducted in July 2021; the search strategies were as follows.

Refractive cataract surgery:

("refractive cataract surgery"[tiab]) OR (((("cataract extraction"[mh] OR "cataract surgery"[tiab] OR "cataract extraction"[tiab] OR Lens implantation, intraocular[mh] OR cataract[tiab]) AND (refractive[tiab] OR "power calculation" OR toric[tiab] OR multifocal[tiab] OR presbyopic[tiab] OR multifocality[tiab])))

Intraoperative refractive guidance:

(((((("cataract extraction"[mh] OR "cataract surgery"[tiab] OR "cataract extraction"[tiab]))) AND (((((((("image guidance") OR ("image guidance system" OR "image guidance systems")) OR "intraoperative aberrometry") OR (intraoperative[tiab] AND aberrometry[tiab])) OR "fluoroscopic guidance"[tiab] OR (fluoroscopic[tiab] AND guidance[tiab])) OR ((("intracameral illumination" OR "intracameral illuminations")) OR "intraoperative oct") OR "intraoperative optical coherence tomography") OR "monitoring, intraoperative"[mh] OR "tomography, optical coherence/methods"[mh]) OR "microscopy"[tiab] OR "monitoring, intraoperative/instrumentation"[mh] OR "optical imaging/methods"[mh]))) OR ((("intraoperative refractive monitoring") OR (intraoperative[tiab] AND refractive[tiab] AND guidance[tiab]))

Alternative technologies for nucleus disassembly:

(((((nucleus[tiab]) AND (removal[tiab] OR disassembly[tiab] OR dropped[tiab] OR division[tiab])) AND ("cataract extraction"[mh] OR "cataract surgery"[tiab] OR "cataract extraction"[tiab] OR cataract[tiab])) OR (((("flacs"[tiab] OR "femtosecond laser assisted surgery"[tiab] OR "miloop" OR "microfilament" OR "small incision cataract surgery"[tiab] OR sics[tiab])) AND ("cataract extraction"[mh] OR "cataract surgery"[tiab] OR "cataract extraction"[tiab] OR cataract[tiab])) AND nucleus[tiab])) OR (((("nucleus disassembly") OR "nucleus removal")) Alternative to drops for postoperative drug delivery: (((("cataract extraction"[mh] OR "cataract surgery"[tiab] OR "cataract extraction"[tiab])) AND (postoperative[tiab] OR postop[tiab])) AND (((("drug delivery"[tiab] OR drug[tiab] OR drugs[tiab] OR antibiotic[tiab] OR antibiotics[tiab]) AND (intracameral[tiab] OR "sub tenons"[tiab] OR subtenon[tiab] OR "intracanalicular"[tiab] OR "reservoir devices"[tiab] OR dropless[tiab] OR nondropless[tiab] OR alternative[tiab] OR dual[tiab] OR drug delivery systems[mh] OR "glucocorticoids/administration and dosage"[mh] OR "injections, intraocular"[mh] OR "postoperative complications/prevention and control"[mh] OR "drug delivery systems/methods"[mh] OR "sustained-release"[tiab] OR drop-free[tiab] OR topical[tiab] OR subconjunctival[tiab] OR "slow-release"[tiab] OR irrigative[tiab]))

Surgical care delivery settings:

((("cataract extraction"[mh] OR "cataract surgery"[tiab] OR "cataract extraction"[tiab])) AND ("office-based"[tiab] OR "office"[tiab] OR "hopd"[tiab] OR "hospital outpatient department"[tiab] OR "asc"[tiab] OR "ambulatory surgery center"[tiab] OR outpatient[tiab] OR hospital[tiab] OR ambulatory[tiab] OR "emergency department"[tiab] OR outpatients[mh] OR ambulatory[mh] OR "ambulatory care facilities"[mh] OR ambulatory care facilities/trends[mh])

Timing of second eye surgery:

(((((("cataract extraction"[mh] OR "cataract surgery"[tiab] OR "cataract extraction"[tiab])) AND (((("second eye" AND surg*)) OR "same day"[tiab] OR "second eye"[tiab])) OR (((("second eye surgery" AND cataract)) OR ("second eye cataract" OR "second eye cataract extraction" OR "second eye cataract patients" OR "second eye cataract surgeries" OR "second eye cataract surgery"))

Legal Risks: (((("cataract extraction"[mh] OR "cataract surgery"[tiab] OR "cataract extraction"[tiab])) OR (((((((("retinal detachment"[tiab] OR "capsule tear"[tiab] OR "dropped nucleus"[tiab] OR perforation[tiab] OR perforated[tiab])) OR ((wrong[tiab] AND (lens OR "intraocular lens"[tiab]))) OR (((lens[tiab] OR iol[tiab])) AND

(removal[tiab] OR exchange[tiab])))) AND cataract))) AND (((legal[tiab] OR law[tiab] OR lawsuit[tiab] OR problem* OR Liability, legal[mh] OR malpractice[mh] OR medical errors[mh] OR cataract extraction/legislation and jurisprudence[mh] OR diagnostic errors[mh] OR medicolegal[tiab])) OR (litigation[tiab] OR litigations[tiab] OR malpractice[tiab] OR medicolegal[tiab] OR misdiagnosis[tiab]))

General:

"cataract extraction"[mh] OR "cataract surgery"[tiab] OR "cataract extraction"[tiab]

Diagnosis:

"cataract"[tiab] AND (diagnosis[majr] OR diagnose[tiab] OR diagnosis[tiab] OR detect[tiab])

Therapy:

"cataract extraction"/therapy[mh]

Lens Implantation:

"lens implantation, intraocular"[mh] OR lens implantation[tiab]

Endophthalmitis:

(endophthalmitis[mh] OR endophthalmitis[tiab]) AND ("cataract extraction"[mh] OR "cataract surgery"[tiab] OR "cataract extraction"[tiab] OR cataract[tiab])

Corneal Transplantation/Penetrating Keratoplasty:

("cataract extraction"[mh] OR "cataract surgery"[tiab] OR "cataract extraction"[tiab] OR cataract[tiab]) AND (Keratoplasty, Penetrating [mh] OR "corneal transplantation"[mh] OR "Endothelial Keratoplasty" OR DSAEK OR DSEK OR DMEK OR DLEK OR "posterior lamellar keratoplasty")

Risk Factors:

((("cataract/etiology"[mh] OR "cataract/epidemiology"[mh] OR "cataract/ethnology"[mh]) AND "risk factors"[mh])) OR (((("cataract/prevention and control"[majr] OR ("cataract/epidemiology"[mh])) AND "prevalence"[mh])

Rate – Appropriateness:

((("cataract extraction[mh] AND "statistics and numerical data"[MeSH Subheading])) AND appropriate*[tiab])) OR ((cataract extraction[MeSH Terms] AND appropriateness))

Visual Function and Quality of Life:

((("cataract extraction"[mh] OR "cataract surgery"[tiab] OR "cataract extraction"[tiab])) AND ((("Quality of Life"[mh] OR "qol"[tiab] OR "Activities of Daily Living"[mh] OR "Disability Evaluation"[mh] OR "Automobile Driving"[mh] OR depression[mh] OR anxiety[mh] OR "stress, Psychological"[mh] OR "accidental falls"[mh]))

Evaluation of Visual Impairment:

((("cataract/diagnosis"[MeSH Terms]) AND ("visual acuity"[mh] OR "contrast sensitivity"[mh] OR "vision tests"[mh] OR Questionnaires[mh])) OR ((cataract[mh] AND ((Questionnaires[tiab] OR "sickness impact profile"[mh]))

Supplemental Ophthalmic Testing:

((("cataract"[MeSH Terms]) AND ("ultrasonography"[MeSH Terms] OR ultrasonography[tiab])) OR (((cataract[mh] OR ("cataract extraction"[mh])) AND ((("potential vision"[tiab] OR "ocular wavefront"[tiab] OR "corneal topography"[tiab] OR "potential acuity"[tiab] OR "near card"[tiab] OR glare disab*[tiab] OR glare test*[tiab])OR "scanning laser"[tiab] OR "laser interferometer"[tiab] OR "fluorescein angiography"[mh] OR "Tomography, Optical Coherence"[MAJR] OR "corneal pachymetry"[tiab] OR specular microscop*[tiab] OR "evoked potential"[tiab]))

Nonsurgical Management:

((("cataract/chemically induced"[MeSH Terms]) AND ((corticosteroid*[tiab] OR steroid*[tiab] OR glucocorticoid*[tiab] OR glucosteroid*[tiab]))) OR ((cataract[mh]) AND (smoking[mh] OR "dietary supplements"[mh] OR vitamins[mh] OR antioxidants[mh])))

Preoperative Medical Evaluation:

((("cataract extraction"[mh] OR "cataract surgery"[tiab] OR "cataract extraction"[tiab] OR cataract[mh])) AND ("diagnostic tests, routine"[mh] OR "preop"[tiab] OR preoperative[tiab] OR "diagnostic test"[tiab] OR "diagnostic evaluation"[tiab]))

Anesthesia:

((("cataract extraction"[mh] OR "cataract surgery"[tiab] OR "cataract extraction"[tiab])) AND ((Anesthesia[mh] OR aenesth*[tiab] OR anesthet*[tiab]))

TASS (Toxic anterior segment syndrome):

("tass"[tiab]) OR ("toxic anterior segment syndrome" OR "toxic anterior segment syndrome tass" OR TASS[tiab])

TPSS (Toxic posterior segment syndrome):

((("toxic posterior segment syndrome") OR (toxic[tiab] AND posterior[tiab] AND segment[tiab] AND syndrome[tiab])) OR ((("cataract extraction"[mh] OR "cataract surgery"[tiab] OR "cataract extraction"[tiab]) AND TPSS))

HORV (Hemorrhagic Occlusive Retinal Vasculitis):

(((((("cataract extraction"[mh] OR "cataract surgery"[tiab] OR "cataract extraction"[tiab] OR cataract[tiab])) AND horv)) OR "hemorrhagic occlusive retinal vasculitis"

Surgical Techniques:

(((((("cataract extraction"[mh] OR "cataract surgery"[tiab] OR "cataract extraction"[tiab])) AND ((((((("incision"[tiab]) OR "microincision"[tiab]) OR "femtosecond"[tiab]) OR "minimally invasive surgical procedures"[mh]) OR "phaco"[tiab]) OR "phacoemulsification"[tiab]) OR "femtosecond laser")

Outcomes:

("cataract extraction"[MeSH Terms]) AND ("visual acuity"[majr] OR "treatment outcome"[majr] OR "outcome assessment, health care"[majr])

Complications of Surgery & Complications of IOLs:

(((((((((("cataract extraction"[majr]) AND ((("postoperative complications"[majr]) OR "intraoperative complications"[majr])) OR "cataract extraction/adverse effects"[MeSH Major Topic]) OR ((("lenses, intraocular/adverse effects"[majr]) AND (cataract[tiab] OR cataracts[tiab])) OR ((("lenses, intraocular"[MAJR]) AND ("Postoperative Complications"[MAJR]) AND (cataract[tw] OR cataracts[tw])) OR ((("lenses, intraocular"[MAJR]) AND ("Intraoperative Complications"[MAJR]) AND (cataract[tw] OR cataracts[tw])) OR "lens implantation, intraocular/adverse effects"[MeSH Terms]) OR ("lens capsule, crystalline/injuries"[MeSH Terms]) AND (cataract[tw] OR cataracts[tw]))

Ocular Comorbidities:

((((((((((((((("uveitis"[mh] OR uveitis[tiab])) OR ("diabetic retinopathy"[mh] OR "diabetic retinopathy"[tiab])) OR ("macular degeneration"[mh] OR "macular degeneration"[tiab])) OR ("amblyopia"[mh] OR amblyopia[tiab])) OR (glaucoma[mh] OR glaucoma[tiab])) OR ("exfoliation Syndrome"[mh] OR "exfoliation syndrome"[tiab] OR "retinopathy of prematurity"[mh] OR "retinopathy of prematurity"[tiab])) OR (fuchs*[tiab] AND dystrophy[tiab])) OR ("cloudy cornea"[tiab] OR "cloudy corneas"[tiab] OR (cloud*[tiab] AND cornea*[tiab])) OR ((miotic[tiab] OR miosis[tiab]) AND pupil[tiab])) OR ((high[tiab] OR highly[tiab]) AND myop*[tiab])) OR ((high[tiab] OR highly[tiab]) AND hyperopi*[tiab])) OR (scleral[tiab] AND buckling[tiab])) OR "posterior synechiae"[tiab])) AND (((("cataract extraction"[mh] OR "cataract surgery"[tiab] OR "cataract extraction"[tiab] OR cataract[tiab])) AND ("comorbidity"[mh] OR complications[tiab])) OR "cataract/complications"[mh])) OR (((("cataract extraction"[mh] OR "cataract surgery"[tiab] OR "cataract extraction"[tiab] OR cataract[tiab])) AND ("comorbidity"[mh] OR comorbidities[tiab]))

Systemic Comorbidities:

((("cataract extraction"[mh] OR "cataract surgery"[tiab] OR "cataract extraction"[tiab] OR cataract[tiab]))) AND ((((((systemic[tiab]) AND (comorbidity[tiab] OR comorbidities[tiab]))) OR (("systemic comorbidity"[tiab]) OR "systemic comorbidities"[tiab]))) OR ((hypertension[tiab] OR diabetes[tiab] OR diabetic[tiab] OR myocardial infarct[tiab] OR cardiac[tiab] OR asthma[tiab] OR thyroid disease[tiab] OR thyroid[tiab] OR hiv[tiab] OR "renal disease"[tiab] OR angina[tiab] OR cancer[tiab] OR stroke[tiab] OR "chronic disease"[tiab] OR anticoagulants[mh] OR "platelet aggregation inhibitors"[mh])))

Cataract Surgery & Vitreoretinal Surgery:

((("cataract extraction"[mh] OR "cataract surgery"[tiab] OR "cataract extraction"[tiab] AND cataract[tiab]))) AND (((("vitrectomy"[tiab] OR "vitreoretinal surgery"[tiab])) OR (vitreoretinal[tiab] AND (surgery[tiab] OR surgeries[tiab]))) OR "vitrectomy"[mh])

Cataract in the Functionally Monocular Patient:

((("cataract extraction"[mh] OR "cataract surgery"[tiab] OR "cataract extraction"[tiab]))) AND (Vision, Monocular[mh])

Presbyopia-correcting intraocular lenses:

("presbyopia"[mh]) AND ("lenses, intraocular"[mh] OR "intraocular lenses"[tiab])

Simultaneous Bilateral Cataract Surgery:

((("cataract extraction"[mh] OR "cataract surgery"[tiab] OR "cataract extraction"[tiab]))) AND (bilateral[tiab] OR "same-day"[tiab] OR simultaneous[tiab] OR sequential[tiab])

Postoperative Management, Postoperative Follow-up:

("cataract extraction"[mh] OR "cataract surgery"[tiab] OR "cataract extraction"[tiab]) AND ("Postoperative Care"[mh]) AND ("time factors" [mh])

Posterior Capsular Opacification:

("cataract extraction"[mh] OR "cataract surgery"[tiab] OR "cataract extraction"[tiab]) AND ("posterior capsular opacification"[tiab])

Cost of Cataract Sx:

((("cataract extraction"[mh] OR "cataract surgery"[tiab] OR "cataract extraction"[tiab]))) AND (("cost benefit analysis"[mh] OR "cost control"[mh] OR "cost savings"[mh] OR cost[tiab]))

Nutrition:

((("cataract"[majr]) OR "cataract/epidemiology"[mh]) OR ("cataract/prevention and control"[mh]))) AND (((("nutrition assessment"[mh]) OR ("diet"[mh]) OR (diet surveys[mh]) OR ("nutritional physiological phenomena"[mh]) OR (fruit[mh]) OR (vegetables[mh]) OR ("vitamins"[mh]) OR ("minerals"[mh]) OR ("antioxidants"[mh]) OR ("dietary supplements"[mh]) OR ("beta carotene"[mh]) OR ("riboflavin"[mh]) OR ("niacin"[mh]) OR ("ascorbic acid"[mh]) OR ("vitamin e"[mh]))))

Cataract Surgery & Uveitis:

("cataract extraction"[mh] OR "cataract surgery"[tiab] OR "cataract extraction"[tiab]) AND (Uveitis[mh] OR uveitis[tiab])

Cataract Surgery & Immunosuppression:

("cataract extraction"[mh] OR "cataract surgery"[tiab] OR "cataract extraction"[tiab]) AND "Immunosuppression"[Mesh]