

LITERATURE SEARCHES FOR REFRACTIVE ERRORS & REFRACTIVE SURGERY PPP

Literature searches of the PubMed and Cochrane databases were conducted in May 2016; the search strategies were as follows. Specific limited update searches were conducted after July 2017.

PubMed Searches (Limits: English, Humans, Publication Types, Publication Date 12/11/2011–05/24/2016)

Refractive Errors – Epidemiology & Risk Factors

((("refractive errors/epidemiology"[MAJR:noexp]) OR ("refractive errors/ethnology"[MAJR:noexp]) OR (hyperopia/epidemiology[MAJR:noexp]) OR (hyperopia/ethnology[MAJR:noexp]) OR (myopia/epidemiology[MAJR:noexp]) OR (myopia/ethnology[MAJR:noexp]) OR (astigmatism/epidemiology[MAJR:noexp]) OR (astigmatism/ethnology[MAJR:noexp]) OR (presbyopia/epidemiology[MAJR:noexp]) OR (presbyopia/ethnology[MAJR:noexp])) OR ((Refractive Errors[MAJR:noexp]) OR (Hyperopia[MAJR:noexp]) OR (Myopia[MAJR:noexp]) OR (Astigmatism[MAJR:noexp]) OR (Presbyopia[MAJR:noexp])) AND (Prevalence[MeSH Terms]) OR ((Refractive Errors[MAJR:noexp]) OR (Hyperopia[MAJR:noexp]) OR (Myopia[MAJR:noexp]) OR (Astigmatism[MAJR:noexp]) OR (Presbyopia[MAJR:noexp])) AND (Risk Factors[MeSH Terms]) OR (("myopia/epidemiology"[MeSH Terms]) OR (("myopia"[MeSH Terms]) AND ("risk factors"[MeSH Terms]))) AND ((reading[tiab]) OR (near work[tiab]) OR (nearwork[tiab]) OR (cylinder power[tiab]) OR (optical power[tiab]) OR (accommodation[tiab])) OR (refractive error*[tiab] OR hyperopia[tiab] OR myopia[tiab] OR astigmatism[tiab] OR presbyopia[tiab]) AND (epidemiolog*[tiab] OR ethnolog*[tiab] OR prevalen*[tiab] OR risk factor*[tiab])) OR (myopia[tiab]) AND (reading[tiab] OR nearwork[tiab] OR near work[tiab])). 613 references

Diagnosis – Reproducibility of Results

((("refractive errors/diagnosis"[MAJR]) AND ("reproducibility of results"[MeSH Terms])) OR ((refractive error*[tiab] OR hyperopia[tiab] OR myopia[tiab] OR astigmatism[tiab] OR presbyopia[tiab]) AND (diagnos*[tiab] OR reproducib*[tiab])) OR ((refractive error*[tiab] OR hyperopia[tiab] OR myopia[tiab] OR astigmatism[tiab] OR presbyopia[tiab]) AND (accur*[tiab] OR detect*[tiab])). 608 references

Refractive Errors – Prevention & Control

((hyperopia[MAJR:noexp]) OR (myopia[MAJR:noexp]) OR (astigmatism[MAJR:noexp]) OR (presbyopia[MAJR:noexp])) AND (disease progression[MeSH Terms]) OR ((("refractive errors/prevention and control"[MAJR:noexp]) OR ("hyperopia/prevention and control"[MAJR:noexp]) OR ("myopia/prevention and control"[MAJR:noexp]) OR ("astigmatism/prevention and control"[MAJR:noexp]) OR ("presbyopia/prevention and control"[MAJR:noexp])) AND ("myopia"[MeSH Terms]) AND ((("atropine"[MeSH Terms]) OR ("cyclopentolate"[MeSH Terms]) OR ("tropicamide"[MeSH Terms]) OR ("pirenzepine"[MeSH Terms]))) OR (refractive error*[tiab] OR hyperopia[tiab] OR myopia[tiab] OR astigmatism[tiab] OR presbyopia[tiab]) AND (progress*[tiab] OR prevent*[tiab] OR atropine[tiab] OR cyclopentolate[tiab] OR tropicamide[tiab] OR pirenzepine[tiab])). 527 references

Aniseikonia

"aniseikonia"[MeSH Terms] OR aniseikonia[tiab]. 10 references

Contact Lenses

((("contact lenses"[MAJR]) AND ("keratitis"[MeSH Terms])) OR ("contact lenses/adverse effects"[MAJR]) OR ((contact lens*[tiab]) AND (keratitis[tiab] OR ulcer*[tiab])) OR ((contact lens*[tiab]) AND (dry eye*[tiab] OR meibomian[tiab] OR cornea*[tiab] OR inflamm*[tiab] OR ptosis[tiab] OR adverse[tiab])). 670 references

Orthokeratology

(orthokeratology[tw]) 84 references

Keratorefractive Surgery

((("keratomileusis, laser in situ"[MeSH Terms]) OR ("photorefractive keratectomy"[MeSH Terms]) OR ("keratectomy, subepithelial, laser assisted"[MeSH Terms]) OR (epi-LASIK[tw]) OR (epi-laser in situ keratomileusis[tw]) OR (epipolis-laser in situ keratomileusis[tw]) OR (epi-LASEK[tw]) OR (epi-Laser-Assisted Sub-Epithelial Keratectomy[tw]) OR (epi-Laser-Assisted Subepithelial Keratectomy[tw]) OR Laser Epithelial Keratomileusis[tw])) AND ((Quality of Life[MeSH Terms]) OR (Patient Satisfaction[MeSH Terms])) OR ("pregnancy"[MeSH Terms]) OR ("lactation"[MeSH Terms])) AND ((("keratectomy, subepithelial, laser assisted"[MeSH Terms]) OR ("photorefractive keratectomy"[MeSH Terms]) OR ("keratomileusis, laser in situ"[MeSH Terms]) OR (Lasers, Excimer[MeSH Terms])) OR ((Norplant[tw]) OR (levonorgestrel[tw])) AND ((("keratectomy, subepithelial, laser assisted"[MeSH Terms]) OR ("photorefractive keratectomy"[MeSH Terms]) OR ("keratomileusis, laser in situ"[MeSH Terms]) OR (Lasers, Excimer[MeSH Terms])) OR ("wound healing"[MeSH Terms]) AND ((("colchicine"[MeSH Terms]) OR ("levonorgestrel"[MeSH Terms]) OR ("sumatriptan"[MeSH Terms]) OR (norplant[tw])) AND ((Retina[MeSH Terms]) OR (Cornea[MeSH Terms])) OR ((("keratectomy, subepithelial, laser assisted"[MeSH Terms]) OR ("photorefractive keratectomy"[MeSH Terms]) OR ("keratomileusis, laser in situ"[MeSH Terms]) OR (Lasers, Excimer[MeSH Terms])) AND ((("colchicine"[MeSH Terms]) OR ("levonorgestrel"[MeSH Terms]) OR ("sumatriptan"[MeSH Terms]) OR (norplant[tw])) OR (lasik[tiab] OR prk[tiab] OR lasek[tiab] OR epi-lasik[tiab] OR epi-lasek[tiab] OR laser in situ keratomileusis[tiab] OR photorefractive keratectomy[tiab] OR subepithelial laser-assisted keratectomy[tiab] OR surface ablation*[tiab]) AND (quality of life[tw] OR patient satisfaction[tw] OR pregnan*[tw] OR lactat*[tw] OR norplant[tw] OR levonorgestrel[tw] OR sumatriptan[tw] OR colchicine[tw])). 63 references

Wavefront Aberrometry

(wavefront[tw]) AND (aberromet*[tw]). 169 references

PRK

("photorefractive keratectomy/adverse effects"[MeSH Terms]) OR (photorefractive keratectomy[MeSH Terms]) AND (Treatment Outcome[MeSH Terms]) OR (photorefractive keratectomy[MeSH Terms]) AND (Time Factors[MeSH Terms]) OR (photorefractive keratectomy[MeSH Terms]) OR (photorefractive keratectomy[tiab] OR PRK[tiab]). 344 references

LASEK

(keratectomy, subepithelial, laser assisted[MeSH Terms]) OR (LASEK[tiab]) OR (laser-assisted subepithelial keratectomy[tiab]) OR (lasek[tiab] OR laser assisted subepithelial keratectomy[tiab]). 75 references

Epi-LASIK

(epi-LASIK[tw]) OR (epi-laser in situ keratomileusis[tw]) OR (epipolis-laser in situ keratomileusis[tw]). 18 references

Epi-LASEK

(epi-LASEK[tw]) OR (epi-Laser-Assisted Sub-Epithelial Keratectomy[tw]) OR (epi-Laser-Assisted Subepithelial Keratectomy[tw]) OR (epi-Laser Epithelial Keratomileusis[tw]). 0 references

LASIK

(keratomileusis, laser in situ/adverse effects[MAJR])

OR

(keratomileusis, laser in situ[MAJR]) AND (Treatment Outcome[MeSH Terms])

OR

(keratomileusis, laser in situ[MAJR]) AND (Time Factors[MeSH Terms])

OR

(keratomileusis, laser in situ[MAJR])

OR

(lasik[tiab] OR laser in situ keratomileusis[tiab]) AND (outcome*[tiab] OR adverse[tiab] OR long-term[tiab]

OR effect*[tiab] OR complication*[tiab] OR safety[tiab] OR trial[tiab] OR random*[tiab] OR review[tiab] OR comparative[tiab]) NOT (rabbit*[tiab] OR mouse[tiab] OR mice[tiab] OR animal*[tw]). 734 references

Intrastromal Corneal Ring Segments

(intrastromal corneal ring*[tw]) OR (intacs[tw]) OR ((intracorneal[tw]) AND ((implant*[tw]) OR (ring*[tw]) OR inlay*[tw])) OR ((ICRS[tw]) AND (cornea*[tw])). 107 references

Radial Keratotomy

Keratotomy, Radial[MAJR] OR (radial keratotomy[tiab]). 26 references

Thermal Keratoplasty

(thermal keratoplasty[tw]) OR (conductive keratoplasty[tw]). 5 references

Incisional Astigmatic (Transverse or Arcuate) Keratotomy

(keratotomy[tiab]) AND ((astigmatic[tiab]) OR (arcuate[tiab]) OR (transverse[tw])). 15 references

Automated Lamellar Keratoplasty

(Automated Lamellar Keratoplasty[tw]). 1 reference

Epikeratoplasty

(Epikeratoplasty[tw]) OR (Epikeratophakia[tw]). 4 references

Intracorneal Alloplastic Inlays

(intracorneal inlay*[tiab]) OR (intracorneal lens*[tiab]) OR (intracorneal implant*[tiab]). 7 references

Intraocular Refractive Surgery

"phakic intraocular lenses"[MeSH Terms] OR (phakic intraocular lens*[tiab]) OR (refractive lens exchange[tw]) OR (clear lens extraction[tw]). 168 references

Refractive Surgery for Presbyopia

"presbyopia/surgery"[MeSH Terms] OR ((photoablation[tw]) OR (ablation[tw])) AND (presbyop*[tw]) OR (anterior ciliary sclerotomy[tw]) OR ((Sclerostomy[MeSH Terms]) AND (Ciliary Body[MeSH Terms])) OR (scleral expansion[tw]) OR (presbyop*[tiab]) AND (surg*[tiab]) OR (sclerostomy[tiab]) AND (ciliary[tiab]) OR scleral expan*[tiab]). 113 references

Surface Ablation

(Surface ablation*[tiab]). 87 references

Socioeconomic

"refractive errors"[MeSH Terms] AND "refractive surgical procedures"[MeSH Terms] AND "economics"[MeSH Terms]
"refractive errors"[MeSH Terms] AND "refractive surgical procedures"[MeSH Terms] AND "quality of life"[MeSH Terms]. 20 references

Cochrane Searches (Limits: Publication Date 2011–2016)

Refractive Errors – Epidemiology & Risk Factors

((MeSH descriptor Refractive Errors, this term only with qualifiers: EP,EH) OR (MeSH descriptor Hyperopia, this term only with qualifiers: EP,EH) OR (MeSH descriptor Myopia, this term only with qualifiers: EP,EH) OR (MeSH descriptor Astigmatism this term only with qualifiers: EP,EH) OR (MeSH descriptor Presbyopia, this term only with qualifiers: EP,EH))
((MeSH descriptor Refractive Errors, this term only) OR (MeSH descriptor Hyperopia, this term only) OR (MeSH descriptor Myopia, this term only) OR (MeSH descriptor Astigmatism, this term only) OR (MeSH descriptor Presbyopia, this term only)) AND (MeSH descriptor Prevalence, this term only)
((MeSH descriptor Refractive Errors, this term only) OR (MeSH descriptor Hyperopia, this term only) OR (MeSH descriptor Myopia, this term only) OR (MeSH descriptor Astigmatism, this term only) OR (MeSH descriptor Presbyopia, this term only)) AND (MeSH descriptor Risk Factors, this term only) , from 2011 to 2016. 0 references

Diagnosis – Reproducibility of Results

(MeSH descriptor Refractive Errors explode all trees with qualifier: DI) AND (MeSH descriptor Reproducibility of Results explode all trees). 0 references

Refractive Errors – Prevention & Control

((MeSH descriptor Hyperopia, this term only) OR (MeSH descriptor Myopia, this term only) OR (MeSH descriptor Astigmatism, this term only) OR (MeSH descriptor Presbyopia, this term only)) AND (MeSH descriptor Disease Progression, this term only)
(MeSH descriptor Refractive Errors, this term only with qualifier:PC) OR (MeSH descriptor Hyperopia, this term only with qualifier:PC) OR (MeSH descriptor Myopia, this term only with qualifier:PC) OR (MeSH descriptor Astigmatism, this term only with qualifier:PC) OR (MeSH descriptor Presbyopia, this term only with qualifier: PC)
(MeSH descriptor Myopia, this term only) AND ((MeSH descriptor Atropine, this term only) OR (MeSH descriptor Cyclopentolate, this term only) OR (MeSH descriptor Tropicamide, this term only) OR (MeSH descriptor Pirenzepine, this term only)). 4 references

Aniseikonia

MeSH descriptor Aniseikonia, this term only. 0 references

Contact Lenses

(MeSH descriptor Contact Lenses explode all trees) AND (MeSH descriptor Keratitis explode all trees). 0 references

MeSH descriptor Contact Lenses, this term only with qualifier: AE. 0 references

Orthokeratology

(orthokeratology):ti,ab,kw, from 2011 to 2011. 0 references

Keratorefractive Surgery

((MeSH descriptor Keratectomy, Subepithelial, Laser-Assisted, this term only) OR (MeSH descriptor Photorefractive Keratectomy, this term only) OR (MeSH descriptor Keratomileusis, Laser In Situ, this term only) OR (epi-LASIK):ti,ab,kw OR (epi-laser in situ keratomileusis):ti,ab,kw OR (epi-laser in situ keratomileusis):ti,ab,kw OR (epi-LASEK):ti,ab,kw OR (epi-laser-assisted sub-epithelial keratectomy):ti,ab,kw OR (epi-laser-assisted subepithelial keratectomy):ti,ab,kw OR (epi-laser epithelial keratomileusis):ti,ab,kw AND ((MeSH descriptor Quality of Life, this term only) OR (MeSH descriptor Patient Satisfaction, this term only))

((MeSH descriptor Keratectomy, Subepithelial, Laser-Assisted, this term only) OR (MeSH descriptor Photorefractive Keratectomy, this term only) OR (MeSH descriptor Keratomileusis, Laser In Situ, this term only) OR (MeSH descriptor Lasers, Excimer, this term only)) AND ((MeSH descriptor Pregnancy, this term only) OR (MeSH descriptor Lactation, this term only))
((MeSH descriptor Keratectomy, Subepithelial, Laser-Assisted, this term only) OR (MeSH descriptor Photorefractive Keratectomy, this term only) OR (MeSH descriptor Keratomileusis, Laser In Situ, this term only) OR (MeSH descriptor Lasers, Excimer, this term only)) AND ((norplant):ti,ab,kw or (levonorgestrel):ti,ab,kw)
(MeSH descriptor Wound Healing, this term only) AND ((MeSH descriptor Colchicine, this term only) OR (MeSH descriptor Levonorgestrel, this term only) OR (MeSH descriptor Sumatriptan, this term only) OR ((norplant):ti,ab,kw)) AND ((MeSH descriptor Retina, this term only) OR (MeSH descriptor Cornea, this term only))
((MeSH descriptor Colchicine, this term only) OR (MeSH descriptor Levonorgestrel, this term only) OR (MeSH descriptor Sumatriptan, this term only) OR ((norplant):ti,ab,kw)) AND ((MeSH descriptor Keratectomy, Subepithelial, Laser-Assisted, this term only) OR (MeSH descriptor Photorefractive Keratectomy, this term only) OR (MeSH descriptor Keratomileusis, Laser In Situ, this term only) OR (MeSH descriptor Lasers, Excimer, this term only)). 1 reference

Wavefront Aberrometry

(wavefront):ti,ab,kw and (aberromet*):ti,ab,kw. 0 references

PRK

MeSH descriptor Photorefractive Keratectomy, this term only. 3 references

LASEK

(MeSH descriptor Keratectomy, Subepithelial, Laser-Assisted, this term only) OR ((LASEK):ti,ab,kw or (laser-assisted subepithelial keratectomy):ti,ab,kw). 5 references

Epi-LASIK

(epi-LASIK):ti,ab,kw or (epi-laser in situ keratomileusis):ti,ab,kw or (epipolis-laser in situ keratomileusis):ti,ab,kw. 0 references

Epi-LASEK

(epi-LASEK):ti,ab,kw or (epi-Laser-Assisted Sub-Epithelial Keratectomy):ti,ab,kw or (epi-Laser-Assisted Subepithelial Keratectomy):ti,ab,kw or (epi-Laser Epithelial Keratomileusis):ti,ab,kw,. 0 references

LASIK

MeSH descriptor Keratomileusis, Laser In Situ, this term only. 3 Cochrane Reviews

Intrastromal Corneal Ring Segments

(intrastromal corneal ring*):ti,ab,kw OR (intacs):ti,ab,kw OR ((intracorneal):ti,ab,kw and (implant* OR ring* OR inlay*):ti,ab,kw) OR ((ICRS):ti,ab,kw and (cornea*):ti,ab,kw). 34 references

Radial Keratotomy

MeSH descriptor Keratotomy, Radial, this term only. 0 references

Thermal Keratoplasty

(thermal keratoplasty):ti,ab,kw or (conductive keratoplasty):ti,ab,kw. 0 references

Incisional Astigmatic (Transverse or Arcuate) Keratotomy

(keratotomy):ti,ab,kw and (astigmatic OR arcuate OR transverse):ti,ab,kw. 0 references

Automated Lamellar Keratoplasty

(automated lamellar keratoplasty):ti,ab,kw. 0 references

Epikeratoplasty

(epikeratoplasty):ti,ab,kw or (epikeratophakia):ti,ab,kw. 0 references

Intracorneal Alloplastic Inlays

(intracorneal inlay*):ti,ab,kw or (intracorneal lens*):ti,ab,kw or (intracorneal implant*):ti,ab,kw. 0 references

Intraocular Refractive Surgery

((MeSH descriptor Phakic Intraocular Lenses, this term only) OR ((phakic intraocular lens*):ti,ab,kw) OR (refractive lens exchange):ti,ab,kw, from 2011 to 2016 OR (clear lens extraction):ti,ab,kw. 4 references

Refractive Surgery for Presbyopia

MeSH descriptor Presbyopia, this term only with qualifier: SU, from 2011 to 2016
(photoablation OR ablation):ti,ab,kw and (presbyop*):ti,ab,kw, from 2011 to 2016
((anterior ciliary sclerotomy):ti,ab,kw) OR ((MeSH descriptor Sclerostomy, this term only) AND (MeSH descriptor Ciliary Body, this term only)) OR ((scleral expansion):ti,ab,kw). 0 references

Socioeconomic

MeSH descriptor: [Refractive Errors] this term only AND MeSH descriptor: [Refractive Surgical Procedures] this term only AND MeSH descriptor: [Economics] this term only
"refractive errors"[MeSH Terms] AND "refractive surgical procedures"[MeSH Terms] AND "quality of life"[MeSH Terms]. 0 references

Surface Ablation

"surface ablation":ti,ab,kw (Word variations have been searched). 2 references