

# LITERATURE SEARCHES FOR THIS PPP

Literature searches of the PubMed and Cochrane databases were conducted in February 2017; the search strategies were as follows. Specific limited update searches were conducted after June 2018.

## **Bacterial Keratitis:**

(eye infections, bacterial[MeSH Terms]) OR ("eye infections, bacterial/epidemiology"[MeSH Terms] OR ("eye infections, bacterial/ethnology"[MeSH Terms]) OR ("eye infections, bacterial/microbiology"[MAJR]) OR ("eye infections, bacterial/diagnosis"[MeSH Terms]) OR ("eye infections, bacterial/pathology"[mh:noexp] OR "eye infections, bacterial/physiopathology"[mh:noexp] OR "eye infections, bacterial/physiology"[mh:noexp]) OR (bacteria\*[tiab]) AND (keratitis[tiab])

OR ((cornea\*[tiab] AND (keratitis[tiab] OR ulcer\*[tiab])) OR (("keratitis"[MeSH Terms] OR Corneal Ulcer[MeSH Terms]) AND (bacteria\*[tiab]) OR (bacteria\*[tiab])) OR (cornea\*[ti] AND ulcer\*[ti]) OR (ulcer\*[ti] AND keratitis[ti])) OR (eye infections, bacterial[MeSH Terms]) AND (keratitis[tiab] OR (ulcer\*[tiab]) AND (Disease Progression[MeSH Terms]) OR (bacterial keratitis[tiab])

## **Epidemiology:**

("Eye Infections, Bacterial/epidemiology"[mh]) AND "bacterial keratitis" [tiab]) OR ("bacterial keratitis" [tiab] AND epidemiology) OR ("eye infections, bacterial/ethnology"[mh] AND (keratitis[tiab])

## **Etiology:**

((("bacterial keratitis" [tiab]) AND (etiology OR "etiologic agents" OR "gram-positive isolates" OR "gram-positive cocci" OR "staphylococcus aureus" OR "Coagulase negative Staphylococci" OR "Streptococcus pneumoniae" OR "Streptococcus viridans group" OR "Gram-positive Bacilli" OR "Corynebacterium species" OR "Propionibacterium species" OR "Mycobacterium species" OR "Gram-Negative Isolates" OR "Gram-negative Bacilli" OR "Pseudomonas aeruginosa" OR "Serratia marcescens" OR "Proteus mirabilis" OR "Enteric gram-negative bacilli") OR (("bacterial keratitis"[tiab] AND (etiology OR "etiologic agents" OR "gram-negative coccobacillary" OR haemophilus OR moraxella OR "gram-negative cocci" OR neisseria)) OR ("Eye Infections, Bacterial/etiology"[mh] AND "bacterial keratitis"[tiab])

## **Risk:**

("eye infections, bacterial"[MeSH Terms]) AND ("risk factors"[MeSH Terms]) OR ulcer\*[tiab])

## **Risk - Exogenous factors:**

((("Contact Lenses"[Mesh] OR orthokeratology [All Fields] OR "Wounds and injuries"[Mesh] OR "Ophthalmologic Surgical Procedures"[Mesh] OR "Pharmaceutical Preparations"[Mesh] OR "Drug

Eruptions"[Mesh] OR "Immunosuppression"[Mesh] OR "Sutures"[Mesh] OR "Factitious Disorders"[Mesh])) AND (("Risk Factors"[Mesh] AND "bacterial keratitis"[TIAB]) OR ("eye infections, bacterial"[MAJR]) AND ("contact lenses"[MAJR]))

**Risk - Ocular Surface Disease:**

("Eyelashes"[Mesh] OR "Eyelids"[mh] OR "Eyelid Diseases"[Mesh] OR "Tears"[mh] OR "Conjunctivitis"[mh]) AND "bacterial keratitis"[tiab]

**Risk - Corneal Epithelial Abnormalities:**

("Trigeminal Nerve Diseases"[mh] OR "Keratitis, Herpetic"[mh] OR "Cornea/abnormalities"[mh] OR "Corneal Edema"[mh] OR "Epithelium, Corneal"[mh] OR "Cornea/pathology"[mh] OR "Corneal Diseases"[mh]) AND ("bacterial keratitis"[tiab])

**Risk - Systemic Conditions:**

("Diabetes Mellitus"[Mesh] OR "Diabetes Complications"[Mesh] OR "Malnutrition"[Mesh] OR "Ventilators, Mechanical"[Mesh] OR "Vascular Diseases"[Mesh] OR "Substance-Related Disorders"[Mesh] OR "Skin Diseases"[Mesh] OR "Mucus"[Mesh] OR "Immunocompromised Host"[Mesh] OR "Dermatitis, Atopic"[Mesh] OR "Neisseriaceae Infections"[Mesh] OR "gonococcal"[All Fields] OR "Vitamin A Deficiency"[Mesh]) AND ("bacterial keratitis"[All Fields])

**BK and sterile hypopyon:**

(hypopyon AND "bacterial keratitis")

**Cultures and smears in the management of BK:**

("Culture Techniques"[Mesh] OR smear\*) AND "bacterial keratitis"

**Culture yield improvement:**

"Culture Techniques"[Mesh] AND "Anesthetics"[Mesh] AND "Preservatives, Pharmaceutical"[Mesh]

**Treatment:**

("Therapeutics"[Mesh] OR "therapy "[Subheading] OR treatment\* OR "Treatment Outcome"[Mesh] OR "Disease Management"[Mesh]) AND "bacterial keratitis") OR (("eye infections, bacterial/drug therapy"[MeSH Terms] OR "eye infections, bacterial/therapy"[MeSH Terms]) AND (keratitis[tiab])) OR (ulcer\*[tiab]) OR (besifloxacin[tiab]) AND ("bacterial keratitis"[tiab])

**Drug Resistance:**

("Fluoroquinolones"[Mesh] AND "bacterial keratitis" AND ("Drug Resistance"[Mesh]) OR (("drug resistance"[MAJR]) AND ("eye infections, bacterial"[MAJR]))

**Increased risk of perforation:**

"Fluoroquinolones/adverse effects"[Mesh] AND "Corneal Ulcer"[Mesh]

**Keratitis due to Pseudomonas**

"Pseudomonas"[Mesh] AND "Keratitis"[Mesh] AND "Inflammation/prevention and control"[Mesh]

**Prolonged use of topical antibiotics – toxicity:**

"Anti-Bacterial Agents/toxicity"[Mesh] AND "Administration, Topical"[Mesh] AND "bacterial keratitis"

**Adjunctive therapies for BK:**

"Complementary Therapies"[Mesh] AND "bacterial keratitis"

**Corticosteroids in the management of BK:**

Corticosteroid\* AND "bacterial keratitis"

**Correcting co-existing factors:**

("Comorbidity"[Mesh] OR "Eyelids/abnormalities"[Mesh]) AND "bacterial keratitis"

**Cost analysis:**

(eye infections, bacterial[MeSH Terms]) AND ("cost of illness"[MeSH Terms] OR "cost benefit analysis"[MeSH Terms]) AND (keratitis[tiab] OR ulcer\*[tiab])

**Socioeconomic:**

("eye infections, bacterial"[MESH Terms]) AND (keratitis[tiab] OR ulcer\*[tiab]) AND (economics[MeSH Terms] OR cost[MeSH Terms] OR "quality of life"[MeSH Terms])