# Appendix 1: Search strategies

No limits or filters were selected when searching the databases.

## MEDLINE

Syntax : Ovid

|  |  |
| --- | --- |
| **Result set** | **Search statement** |
| 1 | Photochemotherapy/ orPhototherapy/ orLow-Level Light Therapy/ or"photoinactivat\*".ti,ab. or"photo-inactivat\*".ti,ab. or"antimicrobial photodynamic therap\*".ti,ab. or"apdt".ti,ab. or"photodynam\*".ti,ab. or"photo-dynam\*".ti,ab. or"photosensib\*".ti,ab. or"photo-sensib\*".ti,ab. or"photosensit\*".ti,ab. or"photo-sensit\*".ti,ab. or"phototox\*".ti,ab. or"photo-tox\*".ti,ab. or"photodamage\*".ti,ab. or"photo-damage\*".ti,ab. or"light damage\*".ti,ab. or"Phototarget\*".ti,ab. or"Photo-target\*".ti,ab. or"phototherap\*".ti,ab. or"photo-therap\*".ti,ab. or"photoradiat\*".ti,ab. or"photo-radiat\*".ti,ab. or"photolysis\*".ti,ab. or"photo-lys\*".ti,ab. or"photolysit\*".ti,ab. or"photo-lyt\*".ti,ab. or"Photobiomodulat\*".ti,ab. or"Photo-biomodulat\*".ti,ab. or((light or laser\* or photo\*) adj10 (kill\* or inactivat\* or Sensitiv\* or Disinfect\* or sterili\*)).ti,ab. or((light or laser\* or photo\*) adj1 (therap\* or treatment\*)).ti,ab. |
| 2 | Bacteria/ orBacterial Infections/ orBiofilms/ orDisinfection/ or"microb\*".ti,ab. or"antimicrob\*".ti,ab. or"anti-microb\*".ti,ab. or"bacter\*".ti,ab. or"antibacter\*".ti,ab. or"anti-bacter\*".ti,ab. or"antiinfect\*".ti,ab. or"anti-infect\*".ti,ab. or"biofilm\*".ti,ab. or"pathogen\*".ti,ab. or"infect\*".ti,ab. or"disinfect\*".ti,ab. orexp Staphylococcus/ orexp Aggregatibacter/ orexp Porphyromonas/ orBacteroides/ orexp Actinomyces/ orActinomycosis/ orexp Streptococcus/ orexp Prevotella/ orexp Enterococcus/ orexp Fusobacterium/ orexp Campylobacter/ orexp Lactobacillus/ orexp Treponema/ or"Staphylococcus".ti,ab. or"MRSA".ti,ab. or"Aggregatibacter".ti,ab. or"Porphyromonas".ti,ab. or"Actinomyces".ti,ab. or"Streptococcus".ti,ab. or"Prevotella".ti,ab. or"Enterococcus".ti,ab. or"Fusobacterium".ti,ab. or"Campylobacter".ti,ab. or"Tannerela".ti,ab. or"Lactobacillus".ti,ab. or"Treponema".ti,ab. or"Veilonella".ti,ab. |
| 3 | exp Periodontal Diseases/ orexp Dental Caries/ ord.sb. or"oral".ti,ab. or"dental".ti,ab. or"endodon\*".ti,ab. or"periodon\*".ti,ab. or"gingiva\*".ti,ab. or"subgingival".ti,ab. or"sub-gingival".ti,ab. or"dentist\*".ti,ab. or"caries".ti,ab. or"carious ".ti,ab. or"tooth".ti,ab. or"teeth".ti,ab. or"odonto\*".ti,ab. or"root canal".ti,ab. or"peri-implant disease\*".ti,ab. or"periimplant disease\*".ti,ab. or"periimplantitis".ti,ab. or"peri-implantitis".ti,ab. or(implant\* adj5 (inflamm\* or infect\* or diseas\*)).ti,ab. |
| 4 | 1 and 2 |
| 5 | 3 and 4 |

## Embase

Ovid syntax

|  |  |
| --- | --- |
| **Result set** | **Search statement** |
| 1 | photodynamic therapy/ orphotodynamics/ orphotodynamic therapy device/ orexp phototherapy/ orphototoxicity/ orlight damage/ or"photoinactivat\*".ti,ab. or"photo-inactivat\*".ti,ab. or"antimicrobial photodynamic therap\*".ti,ab. or"apdt".ti,ab. or"photodynam\*".ti,ab. or"photo-dynam\*".ti,ab. or"photosensib\*".ti,ab. or"photo-sensib\*".ti,ab. or"photosensit\*".ti,ab. or"photo-sensit\*".ti,ab. or"phototox\*".ti,ab. or"photo-tox\*".ti,ab. or"photodamage\*".ti,ab. or"photo-damage\*".ti,ab. or"light damage\*".ti,ab. or"Phototarget\*".ti,ab. or"Photo-target\*".ti,ab. or"phototherap\*".ti,ab. or"photo-therap\*".ti,ab. or"photoradiat\*".ti,ab. or"photo-radiat\*".ti,ab. or"photolysis\*".ti,ab. or"photo-lys\*".ti,ab. or"photolysit\*".ti,ab. or"photo-lyt\*".ti,ab. or"Photobiomodulat\*".ti,ab. or"Photo-biomodulat\*".ti,ab. or((light or laser\* or photo\*) adj10 (kill\* or inactivat\* or Sensitiv\* or Disinfect\* or sterili\*)).ti,ab. or((light or laser\* or photo\*) adj1 (therap\* or treatment\*)).ti,ab. |
| 2 | antimicrobial therapy/ orbacterium/ orbacteriostasis/ orbacterial infection/ orbiofilm/ ordisinfection/ or"microb\*".ti,ab. or"antimicrob\*".ti,ab. or"anti-microb\*".ti,ab. or"bacter\*".ti,ab. or"antibacter\*".ti,ab. or"anti-bacter\*".ti,ab. or"antiinfect\*".ti,ab. or"anti-infect\*".ti,ab. or"biofilm\*".ti,ab. or"pathogen\*".ti,ab. or"infect\*".ti,ab. or"disinfect\*".ti,ab. orexp Staphylococcus/ orStaphylococcus infection/ orexp Aggregatibacter/ orexp Porphyromonas/ orexp Actinomyces/ oractinomycosis/ orRothia dentocariosa/ orexp Streptococcus/ orStreptococcus infection/ orexp Prevotella/ orexp Enterococcus/ orenterococcal infection/ orexp Fusobacterium/ orFusobacterium infection/ orexp Campylobacter/ orexp Lactobacillus/ orexp Treponema/ or"Staphylococcus".ti,ab. or"MRSA".ti,ab. or"Aggregatibacter".ti,ab. or"Porphyromonas".ti,ab. or"Actinomyces".ti,ab. or"Streptococcus".ti,ab. or"Prevotella".ti,ab. or"Enterococcus".ti,ab. or"Fusobacterium".ti,ab. or"Campylobacter".ti,ab. or"Tannerela".ti,ab. or"Lactobacillus".ti,ab. or"Treponema".ti,ab. or"Veilonella".ti,ab. |
| 3 | 1 and 2 |
| 4 | "photodynamic inactivation of bacteria"/ |
| 5 | 3 or 4 |
| 6 | exp periodontal disease/ orexp tooth infection/ or"oral".ti,ab. or"dental".ti,ab. or"endodon\*".ti,ab. or"periodon\*".ti,ab. or"gingiva\*".ti,ab. or"subgingival".ti,ab. or"sub-gingival".ti,ab. or"dentist\*".ti,ab. or"caries".ti,ab. or"carious ".ti,ab. or"tooth".ti,ab. or"teeth".ti,ab. or"odonto\*".ti,ab. or"root canal".ti,ab. or"peri-implant disease\*".ti,ab. or"periimplant disease\*".ti,ab. or"periimplantitis".ti,ab. or"peri-implantitis".ti,ab. or(implant\* adj5 (inflamm\* or infect\* or diseas\*)).ti,ab. |
| 7 | 5 and 6 |

## Web of Science / Science Citation Index Expanded

Syntax: Web of Science

|  |  |
| --- | --- |
| **Result set** | **Search statement** |
| # 1 | TS="Photochemotherap\*" ORTS="Photo-chemotherap\*" ORTS="photoinactivat\*" ORTS="photo-inactivat\*" ORTS="antimicrobial photodynamic therap\*" ORTS="apdt" ORTS="photodynam\*" ORTS="photo-dynam\*" ORTS="photosensib\*" ORTS="photo-sensib\*" ORTS="photosensit\*" ORTS="photo-sensit\*" ORTS="phototox\*" ORTS="photo-tox\*" ORTS="photodamage\*" ORTS="photo-damage\*" ORTS="light damage\*" ORTS="Phototarget\*" ORTS="Photo-target\*" ORTS="phototherap\*" ORTS="photo-therap\*" ORTS="photoradiat\*" ORTS="photo-radiat\*" ORTS="photolysis\*" ORTS="photo-lys\*" ORTS="photolysit\*" ORTS="photo-lyt\*" ORTS="Photobiomodulat\*" ORTS="Photo-biomodulat\*" ORTS=((light or laser\* or photo\*) NEAR/10 (kill\* or inactivat\* or Sensitiv\* or Disinfect\* or sterili\*)) ORTS=((light or laser\* or photo\*) NEAR/1 (therap\* or treatment\*)) |
| # 2 | TS="microb\*" ORTS="antimicrob\*" ORTS="anti-microb\*" ORTS="bacter\*" ORTS="antibacter\*" ORTS="anti-bacter\*" ORTS="antiinfect\*" ORTS="anti-infect\*" ORTS="biofilm\*" ORTS="pathogen\*" ORTS="infect\*" ORTS="disinfect\*" ORTS="Bacteroides" ORTS="Actinomycosis" ORTS="Staphylococcus" ORTS="MRSA" ORTS="Aggregatibacter" ORTS="Porphyromonas" ORTS="Actinomyces" ORTS="Streptococcus" ORTS="Prevotella" ORTS="Enterococcus" ORTS="Fusobacterium" ORTS="Campylobacter" ORTS="Tannerela" ORTS="Lactobacillus" ORTS="Treponema" ORTS="Veilonella" |
| # 3 | TS="oral" ORTS="dental" ORTS="endodon\*" ORTS="periodon\*" ORTS="gingiva\*" ORTS="subgingival" ORTS="sub-gingival" ORTS="dentist\*" ORTS="caries" ORTS="carious " ORTS="tooth" ORTS="teeth" ORTS="odonto\*" ORTS="root canal" ORTS="peri-implant disease\*" ORTS="periimplant disease\*" ORTS="periimplantitis" ORTS="peri-implantitis" ORTS=(implant\* NEAR/5 (inflamm\* or infect\* or diseas\*)) |
| # 4 | #2 AND #1 |
| # 5 | #4 AND #3 |