

Table 1 - PICOS criteria and framework.

|                                    |                                                                                                                                                                                                                                             | Search strategy (PubMed)                                                                                                                                                                                                                                                                                          | Search strategy (Embase)                                                                                                                                                                                                                     | Search strategy (Cochrane)                                                                                                                                                                                                                                                                                        | Search strategy (Scopus)                                                                                                                                                                                                                                                         | Search strategy (Web of Science)                                                                                                                                          |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Patients or procedure (P) #1       | Health patients requiring mandibular third molar surgery. No other restrictions about sex, gender, or ethnicity were placed on the population of study.                                                                                     | ((((((((molar, third[MeSH Terms]) OR (tooth, unerupted[MeSH Terms])) OR (tooth, impacted[MeSH Terms])) OR (tooth extraction[MeSH Terms])) OR ("wisdom tooth") OR ("wisdom teeth")) OR ("3rd molar")) OR ("third molar"))                                                                                          | ((((((((('third molar'/exp) OR ('unerupted tooth'/exp)) OR ('tooth impaction'/exp)) OR ('tooth extraction'/exp)) OR ('wisdom tooth')) OR ('wisdom teeth')) OR ('3rd molar')) OR ('third molar'))                                             | ((((((((molar, third[MeSH Terms]) OR (tooth, unerupted[MeSH Terms])) OR (tooth, impacted[MeSH Terms])) OR (tooth extraction[MeSH Terms])) OR ("wisdom tooth") OR ("wisdom teeth")) OR ("3rd molar")) OR ("third molar"))                                                                                          | TITLE-ABS-KEY("molar, third" OR "third molar" OR "3rd molar" OR "wisdom tooth" OR "wisdom teeth" OR "tooth, unerupted" OR "tooth, impacted" OR "tooth extraction" OR "wisdom tooth" OR "wisdom teeth" OR "3rd molar" OR "third molar" OR "impacted tooth" OR "tooth extraction") | TS=("molar, third" OR "tooth, unerupted" OR "tooth, impacted" OR "tooth extraction" OR "wisdom tooth" OR "wisdom teeth" OR "3rd molar" OR "third molar")                  |
| Intervention (I) #2                | -                                                                                                                                                                                                                                           | -                                                                                                                                                                                                                                                                                                                 | -                                                                                                                                                                                                                                            | -                                                                                                                                                                                                                                                                                                                 | -                                                                                                                                                                                                                                                                                | -                                                                                                                                                                         |
| Comparator or control group (C) #3 | -                                                                                                                                                                                                                                           | -                                                                                                                                                                                                                                                                                                                 | -                                                                                                                                                                                                                                            | -                                                                                                                                                                                                                                                                                                                 | -                                                                                                                                                                                                                                                                                | -                                                                                                                                                                         |
| Outcomes (O) #4                    | Main outcomes: pain and edema                                                                                                                                                                                                               | (((((((acute pain[MeSH Terms]) OR (pain[MeSH Terms])) OR (pain management[MeSH Terms])) OR (pain)) OR (edema[MeSH Terms])) OR ("facial swelling")) OR (edema)) OR (swelling)                                                                                                                                      | ((((((((('pain'/exp) OR ('pain'/exp)) OR ('analgesia'/exp)) OR ('pain')) OR ('edema'/exp)) OR ('facial swelling')) OR ('edema')) OR ('swelling'))                                                                                            | (((((((acute pain[MeSH Terms]) OR (pain[MeSH Terms])) OR (pain management[MeSH Terms])) OR (pain)) OR (edema[MeSH Terms])) OR ("facial swelling")) OR (edema)) OR (swelling)                                                                                                                                      | TITLE-ABS-KEY("acute pain" OR pain OR "pain management" OR edema OR "facial swelling" OR swelling)                                                                                                                                                                               | TS=("acute pain" OR pain OR "pain management" OR edema OR "facial swelling" OR swelling)                                                                                  |
| Study design (S) #5                | Studies in humans, including only randomized clinical trials.                                                                                                                                                                               | ((((((((((Randomized controlled trial[Publication Type]) OR controlled clinical trial[Publication Type]) OR randomized[Title/Abstract]) OR placebo[Title/Abstract]) OR randomly[Title/Abstract]) OR trial[Title])) OR "Clinical Trials as Topic"[Mesh:NoExp])) NOT ((animals[MeSH Terms]) NOT humans[MeSH Terms]) | ((((((((('randomized controlled trial':it) OR 'controlled clinical trial':it) OR 'randomized':ti,ab,kw) OR 'placebo':ti,ab,kw) OR 'randomly':ti,ab,kw) OR 'trial':ti)) OR 'clinical trial (topic)'/de)) NOT (('animal'/exp) NOT 'human'/exp) | ((((((((((Randomized controlled trial[Publication Type]) OR controlled clinical trial[Publication Type]) OR randomized[Title/Abstract]) OR placebo[Title/Abstract]) OR randomly[Title/Abstract]) OR trial[Title])) OR "Clinical Trials as Topic"[Mesh:NoExp])) NOT ((animals[MeSH Terms]) NOT humans[MeSH Terms]) | ( ( TITLE-ABS ( "randomized controlled trial" OR "controlled clinical trial" OR "controlled clinical trial" OR randomized OR randomly OR placebo OR placebo OR trial OR "clinical trials as topic" ) ) AND NOT ( TITLE-ABS ( animals ) AND NOT TITLE-ABS ( humans ) ) )          | TS=("randomized controlled trial" OR "controlled clinical trial" OR randomized OR randomly OR placebo OR trial OR "clinical trials as topic") NOT TS=(animals NOT humans) |
| Language                           | No restriction                                                                                                                                                                                                                              | -                                                                                                                                                                                                                                                                                                                 | -                                                                                                                                                                                                                                            | -                                                                                                                                                                                                                                                                                                                 | -                                                                                                                                                                                                                                                                                | -                                                                                                                                                                         |
| Focused question                   | What local interventions to reduce postoperative inflammatory complications following mandibular third molar surgery have been adequately tested by randomized controlled trials with low risk of bias and have shown satisfactory results? | #1 AND #4 AND #5                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                  |                                                                                                                                                                           |

MeSH Terms, medical subject headings; ab, abstract; ti, title.