### Appendix. Classification of the used search strategy by the electronic database source

| Database  | Search strategy                                                                                                                                 |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| PubMed    | Search: (((microimplant assisted rapid palatal expan*[Title/Abstract] OR microimplant assisted rapid maxillary expan*[Title/Abstract] OR microimplant assisted maxillary expan*[Title/Abstract] OR mini implant assisted rapid palatal expan*[Title/Abstract] OR mini implant assisted rapid maxillary expan*[Title/Abstract] OR mini implant assisted maxillary expan*[Title/Abstract] OR microimplant assisted rapid palatal expan*[Title/Abstract] OR microimplant assisted rapid maxillary expan*[Title/Abstract] OR microimplant assisted maxillary expan*[Title/Abstract] OR mini implant assisted rapid maxillary expan*[Title/Abstract] OR mini implant assisted maxillary expan*[Title/Abstract] OR microimplant assisted rapid palatal expan*[Title/Abstract] OR microimplant assisted rapid maxillary expan*[Title/Abstract] OR microimplant assisted maxillary expan*[Title/Abstract] OR mini implant assisted rapid maxillary expan*[Title/Abstract] OR miniscrew assisted rapid palatal expan*[Title/Abstract] OR miniscrew assisted rapid maxillary expan*[Title/Abstract] OR miniscrew assisted maxillary expan*[Title/Abstract] OR microscrew assisted rapid palatal expan*[Title/Abstract] OR microscrew assisted rapid maxillary expan*[Title/Abstract] OR microscrew assisted maxillary expan*[Title/Abstract] OR microimplant assisted rapid palatal expan*[Title/Abstract] OR microimplant assisted rapid maxillary expan*[Title/Abstract] OR microimplant assisted maxillary expan*[Title/Abstract] OR bone anchored rapid palatal expan*[Title/Abstract] OR Bone anchored rapid maxillary expan*[Title/Abstract] OR Bone anchored maxillary expan*[Title/Abstract] OR Bone anchored hybrid Hyrax expan*[Title/Abstract] OR Hybrid Hyrax expan*[Title/Abstract] OR Hybrid maxillary expan*[Title/Abstract] OR Hybrid maxillary skeletal expan*[Title/Abstract] OR Tooth bone borne rapid maxillary expan*[Title/Abstract] OR Tooth bone borne maxillary expan*[Title/Abstract] OR Tooth bone borne RPE*[Title/Abstract] OR Surgically assisted rapid palatal expan*[Title/Abstract] OR Surgically assisted rapid maxillary expan*[Title/Abstract] OR Surgically assisted Rapid Palatometric Expan*[Title/Abstract] OR MARPE*[Title/Abstract] OR MSE*[Title/Abstract] OR MARME*[Title/Abstract] AND CBCT*[Title/Abstract] OR Cone Beam CT*[Title/Abstract] OR Cone beam computed tomography*[Title/Abstract] AND (Expansion*[Title/Abstract]) AND (Maxilla*[Title/Abstract] OR Maxillary*[Title/Abstract]) AND Tooth*[Title/Abstract] AND maxilla*[Title/Abstract] OR maxillary*[Title/Abstract]) |
### Appendix. Continued

| Database       | Search strategy                                                                 |
|----------------|--------------------------------------------------------------------------------|
| Web of Science | "microimplant assisted rapid palatal expan*" OR "microimplant assisted palatal expan*" OR "microimplant assisted rapid maxillary expan*" OR "microimplant assisted maxillary expan*" OR "mini implant assisted rapid palatal expan*" OR "mini implant assisted palatal expan*" OR "mini implant assisted rapid maxillary expan*" OR "mini implant assisted maxillary expan*" OR "mini implant maxillary expan*" OR "miniscrew assisted rapid palatal expan*" OR "miniscrew assisted palatal expan*" OR "miniscrew assisted rapid maxillary expan*" OR "miniscrew assisted maxillary expan*" OR "miniscrew assisted maxillary expan*" OR "miniscrew assisted rapid palatal expan*" OR "miniscrew assisted rapid maxillary expan*" OR "miniscrew assisted rapid maxillary expan*" OR "miniscrew assisted rapid maxillary expan*" OR "miniscrew assisted rapid maxillary expan*" OR "miniscrew assisted rapid maxillary expan*" OR "miniscrew assisted rapid maxillary expan*" OR "miniscrew assisted rapid maxillary expan*" OR "miniscrew assisted rapid maxillary expan*" OR "Bone anchored rapid palatal expan*" OR "Bone anchored maxillary expan*" OR "Hybrid Hyrax expan*" OR "hybrid rapid maxillary expan*" OR "maxillary skeletal expan*" OR "Tooth bone borne rapid maxillary expan*" OR "Tooth and bone borne expan*" OR "Tooth bone borne RME" OR "Tooth bone borne RPE" OR "Surgically assisted rapid palatal expan*" OR "SARPE OR "Surgically assisted rapid maxillary expan*" OR "SARME OR "Surgically Assisted Rapid Palatalmaxillary Expan* OR MARPE OR MSE OR MARME) AND ALL FIELDS: (CBCT OR "Cone Beam CT" OR "Cone beam computed tomography") AND ALL FIELDS: (Expansion) AND ALL FIELDS: (Maxilla OR Maxillary) |
| Cochrane Library | "microimplant assisted rapid palatal expan*" OR "microimplant assisted palatal expan*" OR "microimplant assisted rapid maxillary expan*" OR "microimplant assisted maxillary expan*" OR "mini implant assisted palatal expan*" OR "mini implant assisted rapid maxillary expan*" OR "mini implant assisted maxillary expan*" OR "miniscrew assisted palatal expan*" OR "miniscrew assisted maxillary expan*" OR "microscrew assisted palatal expan*" OR "microscrew assisted maxillary expan*" OR "Bone anchored rapid palatal expan*" OR "Bone anchored maxillary expan*" OR "Hybrid Hyrax expan*" OR "hybrid rapid maxillary expan*" OR "maxillary skeletal expan*" OR "Tooth bone borne rapid maxillary expan*" OR "Tooth and bone borne expan*" OR "Tooth bone borne RME" OR "Tooth bone borne RPE" OR "Surgically assisted rapid palatal expan*" OR "SARPE OR "Surgically assisted rapid maxillary expan*" OR "SARME OR "Surgically Assisted Rapid Palatalmaxillary Expan* OR MARPE OR MSE OR MARME in Title Abstract Keyword AND CBCT OR "Cone Beam CT" OR "Cone beam computed tomography" in Title Abstract Keyword AND Expansion in Title Abstract Keyword AND Maxilla OR Maxillary in Title Abstract Keyword - (Word variations have been searched) |