**Appendix 1：search strategy**

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| **Database** | **Retrieval strategy** |
| **Cochranne** | **#1**(anterior cruciate ligament reconstruction):ti,ab,kw OR (anterior cruciate ligament):ti,ab,kw OR (acl):ti,ab,kw OR (aclr):ti,ab,kw |
| #2(gait):ti,ab,kw OR (walking):ti,ab,kw |
| #3 #1 AND #2 |
| **Embase** | **#1** ('anterior cruciate ligament reconstruction'/exp OR 'anterior cruciate ligament':ti,ab OR acl:ti,ab OR aclr:ti,ab) |
| #2 ('gait'/exp OR walking:ti,ab) |
| #3 #1 AND #2 |
| **Web of Science** | **#1** ((TS=(ACL) OR TS=(ACLR) OR TS=(“anterior cruciate ligament\*”) OR TS=(“anterior cruciate ligament reconstruction”)) |
| #2 (TS=(gait\*) OR TS=(Walking)) |
| #3 #2 AND #1 |
| **PubMed** | **#1**(("ACL"[Title/Abstract] OR "ACLR"[Title/Abstract] OR "anterior cruciate ligament\*"[Title/Abstract] OR "anterior cruciate ligament reconstruction"[Title/Abstract]) |
| #2("gait\*"[Title/Abstract] OR "Walking"[Title/Abstract])) |
| #3 #1 AND #2 |
| **Sportdiscus** | **#1**((TI "anterior cruciate ligament reconstruction" OR AB "anterior cruciate ligament reconstruction" OR TI "anterior cruciate ligament" OR AB "anterior cruciate ligament" OR TI ACL OR AB ACL OR TI ACLR OR AB ACLR) |
| #2(TI gait OR AB gait OR TI walking OR AB walking)) |
| #3 #1 AND #2 |