Supplementary article data

Guideline on anterior cruciate ligament injury
A multidisciplinary review by the Dutch Orthopaedic Association

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Tabel 1. Search strategy

<table>
<thead>
<tr>
<th>Question</th>
<th>Database</th>
<th>Search strategy</th>
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</thead>
<tbody>
<tr>
<td>1. Patient related outcome measures for the evaluation and follow-up of patients with ACL injury.</td>
<td>Medline (OVID) 1950-okt.2009</td>
<td>1. (&quot;patient outcome&quot; or pain or VAS or &quot;muscle strength&quot; or &quot;functional outcome&quot; or &quot;Range of Motion&quot; or &quot;Sport&quot; or Participation or ICF or Tegner or &quot;hop test&quot; or &quot;gait analysis&quot; or &quot;Laxity&quot; or &quot;KT 1000&quot; or Kneelax or laxity or &quot;tunnel placement&quot; or &quot;International knee documentation committee&quot; or KOOS or Lysholm or &quot;knee rating score&quot; or &quot;Marshall HSS score&quot; or &quot;SF 36&quot;). ab,ti. 2. exp &quot;Outcome Assessment (Health Care)&quot;/ or outcome measurement.mp. 3. (outcomes or outcome measure*).ab,ti. 4. &quot;Quality of Life&quot;/ 5. Rehabilitation, Vocational/ 6. Questionnaires/ 7. 11 or 13 or 10 or 9 or 12 or 14 8. &quot;Reproducibility of Results&quot;/ 9. 15 and 16</td>
</tr>
<tr>
<td>2. Which findings or complaints are predictive of a bad result of an ACL injury treatment?</td>
<td>Medline (OVID) 1950-dec. 2009</td>
<td>1. exp &quot;Prognosis/ 2. (prognostis or prognostic or predicti*).ab,ti. 3. Patient Selection/ 4. patient selection.m_titl. 5. or/13-16 6. (retrospective* or prospective*).ab,ti. 7. (predicti* or prognos*).ti. 8. 6 or 7 9. 8 and 5 10. limit 9 to (animals and yr=&quot;1999 -Current&quot;) 11. 9 not 10 12. exp Epidemiologic Studies/ (zie fig.1) 13. 11 and 12 14. limit 13 to (clinical trial, all or clinical trial, phase iii or clinical trial, phase iv or clinical trial or comparative study or consensus development conference or consensus development conference, nih or controlled clinical trial or evaluation studies or government publications or guideline or meta analysis or multicenter study or practice guideline or randomized controlled trial or research support, nih, extramural or research support, nih, intramural or research support, non us gov’t or research support, us gov’t, non phs or research support, us gov’t, phs or review or technical report or validation studies) 32. 13 or 14 Also limited for systematic review and RCT.</td>
</tr>
</tbody>
</table>
### 3. What is the role of physical examination and additional diagnostic tools?

**PubMed**
1950-okt. 2009
Dutch, English, German.

1. exp Anterior Cruciate Ligament/in [Injuries]
2. (rupture* or injur*).ab,ti.
3. ACL.m_titl.
4. anterior cruciate ligament.ab,ti.
5. 1 or 3 or 4
6. 2 and 5
7. 5 or 6
8. "Knee Injuries/di, cl [Diagnosis, Classification]
9. 8 or 7
10. exp Magnetic Resonance Imaging/
11. 8 or 9
12. 9 and 11
13 "Sensitivity and Specificity"/
15. (sensitivity or specificity or agreement or kappa or predict*).ab,ti.
16. or/13-15
17. 18 and 11
18. 18 and 12
20. limit 19 to animals
21. 19 not 20
22. limit 31 to (dutch or english or german)
23. limit 22 to (clinical conference or clinical trial or comparative study or consensus development conference or consensus development conference, nih or controlled clinical trial or evaluation studies or government publications or guideline or meta analysis or multicenter study or practice guideline or randomized controlled trial or research support, nih, extramural or research support, non us gov't or research support, us gov't, non phs or research support, us gov't, phs or "review" or technical report or validation studies)

### 4. What are the relevant parameters that influence the indication for an ACL reconstruction?

**PubMed**
English, Dutch, German, French.

1. Age Factors/
2. Sex Factors/
3. Body Mass Index/
4. "Severity of Illness Index"/
5. Comorbidity/
6. Pregnancy/
7. Risk Factors/ or (gender or age or trauma or pregnancy).ab,ti.
8. exp Epidemiologic Factors/
9 or/ 1-8
10. exp Treatment Outcome/
11. "effect*".af.
12. 10 or 11
13. 9 and 12
15. (indication* or contra-indication* or contraindication* or management).ti.
16 "guideline*".af.
17. "algorithm*".ti.
18. or/15-16
19. 13 and 18
20. Limit 19 clinical trial, all or clinical trial or comparative study or consensus development conference or consensus development conference, nih or controlled clinical trial or government publications or guideline or meta analysis or multicenter study or practice guideline or randomized controlled trial or research support, nih, extramural or research support, nih, intramural or research support, non us gov't or research support, us gov't, non phs or research support, us gov't, phs or "review" or validation studies
21. exp epidemiologic studies/ or exp clinical trials as topic/ or intervention studies/
22. 20 and 19
21. 20 or 22
5. What is the outcome of different conservative treatment modalities?

<table>
<thead>
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6. What is the optimal timing for surgery for an ACL injury?

<table>
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</thead>
<tbody>
<tr>
<td>Medline (Ovid)</td>
<td>1. (early phase or late phase).ab,ti. 2. early.ab,ti. 3. timing.ab,ti. 4. epidemiologic studies/ or prospective studies/ or intervention studies/ MESH-term time factors did not provide adequate titles.</td>
</tr>
</tbody>
</table>

7. Which kind of graft gives the best result in an ACL reconstruction?

<table>
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<tr>
<th>Database</th>
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</thead>
<tbody>
<tr>
<td>Medline (Ovid)</td>
<td>1. Tendons/tr [Transplantation] 2. Transplantation, Autologous/ 3. Tendon Transfer/ 4. 1 or 3 5. (patellar tendon or hamstring tendon).ab,ti. 6. 4 and 5 7. (patellar adj2 tendon).ab,ti. 8. BPTB.ab,ti. 9. (bone adj2 tendon).ab,ti. 10. (hamstring adj2 tendon).ab,ti. 11. AHS.ab,ti. 12. hamstring.ab,ti. 13 or/ 7-13 14. ACL Patella vs Hamstring</td>
</tr>
<tr>
<td></td>
<td>1. ACL Patella vs Hamstring 2. ACL Autograft_allograft 3. Synthetic</td>
</tr>
</tbody>
</table>
2. exp Physical Therapy Modalities/  
3. Gait/  
4. gait training.ab.ti.  
5. (exercise* or brace* or bracing).ti.  
6. or/1-5  
8. rehabilitation.ti.  
9. exp Rehabilitation/  
10. postoperative.ti.  
11. postoperative care/ or postoperative period/  
12. after.m_titl.  
13. ("return to sport" or "return to work").af.  
14. or/8-13  
15. 14 and 6 |