**Supplementary Material Appendix C:** **Hierarchy of tools for**

**patient-reported outcomes assessment**

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| **Pain outcome** |
| 1.Pain with activity (Visual Analogue Scale (VAS) or Numeric Rating Scales (NRS)) |
| 2.Pain at night (VAS or NRS) |
| 3.Global pain (VAS or NRS) |
| 4.Pain at rest (VAS or NRS) |
| 5.Pain subscale of Shoulder Pain and Disability Index (SPADI) |
| 6.Pain unspecified |
| **Function outcome (activity limitations or participation restrictions)** |
| 1.Disability subscale of SPADI |
| 2.Constant-Murley Total Score |
| 3.Shoulder Disability Questionnaire (SDQ) |
| 4.American Shoulder and Elbow Surgeons (ASES) |
| 5.Shoulder Function Assessment (SFA) |
| 6.the 36-item Short-Form Health Survey (SF-36) |
| 7.Patients global assessments |
| 8.Physicians global assessments |
| **Range of Motion** |
| Abduction  1.Active abduction  2.Passive abduction  3. Not specified if active or passive abduction  Flexion  1.Active flexion |
| 2. Passive flexion  3. Not specified if active or passive flexion  External rotation  1. Active external rotation |
| 2. Passive external rotation  3. Not specified if active or passive external rotation |
| Internal rotation |
| 1.Active internal rotation |
| 2. Passive internal rotation |
| 3. Not specified if active or passive internal rotation |