

## Appendix List of pain and distress measures by category

| Children and adolescents                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Non-specific                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| <p>Adolescent pediatric pain tool</p> <p>Alder hay triage pain score</p> <p>Analogue chromatic continuous scale</p> <p>Behavioural pain assessment scale</p> <p>Children's and infants' post-operative pain scale</p> <p>Children's anxiety and pain scale</p> <p>Children's comprehensive pain questionnaire</p> <p>Children's global rating scale</p> <p>Children's hospital of eastern ontario pain scale</p> <p>Comfort pain scale</p> <p>Derbyshire children's hospital paediatric pain chart</p> <p>Face, legs, activity, cry, consolability pain assessment tool</p> <p>Faces pain rating scale</p> <p>Facial action coding system</p> <p>Family pain questionnaire</p> <p>Infant pain profile</p> <p>Initial pain assessment tool</p> <p>Liverpool infant distress scale</p> <p>London hospital pain chart</p> <p>Modified behavioral pain scale</p> <p>Neonatal infant pain scale</p> <p>Non-communicating children pain checklist</p> <p>Ontario pain scale</p> <p>Oucher scale</p> <p>Paediatric pain profile</p> <p>Pain</p> <p>Pain indicator for communicatively impaired children</p> <p>Pediatric pain assessment tool</p> <p>Pediatric pain inventory</p> <p>Pediatric pain questionnaire</p> <p>Poker chip tool</p> <p>Princess margaret hospital pain assessment tool</p> <p>Riley infant pain scale</p> <p>Scheffield children's hospital pain tool</p> <p>Seven point faces pain scale</p> <p>Wong baker faces pain rating scale</p> | <p>Beck depression inventory</p> <p>Breakthrough pain questionnaire</p> <p>Brief pain impact questionnaire</p> <p>Brief pain inventory</p> <p>Brief pain inventory short form</p> <p>Chronic pain assessment tool</p> <p>Chronic pain coping inventory</p> <p>Chronic pain grade</p> <p>Comprehensive pain evaluation questionnaire</p> <p>Distress checklist pain relief scale</p> <p>Electronic diaries for pain assessment</p> <p>Fear of pain questionnaire</p> <p>Functional pain scale</p> <p>Glasgow pain questionnaire</p> <p>Graded chronic pain scale</p> <p>Hopkins pain rating scale</p> <p>Interactive computer animation</p> <p>Karolinska hospital pain questionnaire</p> <p>Lowa pain thermometer</p> <p>McGill pain questionnaire</p> <p>McGill pain questionnaire- short form</p> <p>McGill present pain intensity</p> <p>Number of words chosen</p> <p>Pain and distress scale</p> <p>Pain beliefs and perceptions inventory</p> <p>Pain beliefs questionnaire</p> <p>Pain catastrophizing scale</p> <p>Pain chart</p> <p>Pain disability index</p> <p>Pain drawing</p> <p>Pain inventory</p> <p>Pain questionnaire</p> <p>Pain rating index</p> <p>Pain rating scale</p> <p>Pain ruler</p> <p>Pain thermometer</p> <p>Pain-o-meter</p> <p>Philadelphia pain intensity scale</p> <p>Present pain index</p> <p>Present pain intensity</p> <p>Rand coop chart</p> <p>SF-12</p> <p>SF-36</p> <p>Sickness impact profile</p> <p>Structured pain interview</p> <p>Total pain relief</p> <p>University of alabama birmingham pain behavior scale</p> <p>Vanderbilt pain management inventory</p> <p>West-haven yale multidimensional pain inventory</p> <p>Wong baker faces pain rating scale</p> |
| Adults and older people                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <p>Abbey pain scale</p> <p>Arthritis impact measurement scale</p> <p>Assessment for discomfort in dementia protocol</p> <p>Checklist of nonverbal pain indicators</p> <p>Discomfort scale for those with advanced dementia of the alzheimer type</p> <p>Doloplus 2</p> <p>Face, legs, activity, cry, consolability pain assessment tool</p> <p>Faces pain rating scale</p> <p>Facial action coding system</p> <p>Geriatric center pain intensity scale</p> <p>Geriatric depression scale</p> <p>Geriatric pain measure</p> <p>No pain-non-communicative patient's pain assessment instrument</p> <p>Pain assessment checklist for seniors with limited ability to communicate (pacslac)</p> <p>Pain assessment for the dementing elderly (pade)</p> <p>Pain assessment in advanced dementia (painad)</p> <p>Pain assessment tool in confused older adults (patcoa)</p> <p>Roland and morris disability questionnaire</p> <p>Seven point faces pain scale</p> <p>Sf-36</p> <p>Wong baker faces pain rating scale</p>                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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| <b>Neuropathic pain</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Knee and hip pain</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Dartmouth pain questionnaire<br>Euroqol (eq-5d)<br>Leeds assessment of neuropathic symptoms and signs<br>Neuropathic pain questionnaire<br>Neuropathic pain scale<br>Neuropathic pain symptom inventory<br>Neuropathy pain scale<br>Sf-12                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Activity rating scale<br>Anterior knee pain questionnaire<br>Arthritis impact measurement scale<br>Cincinnati knee rating scale<br>Edinburgh knee function scale<br>Ikdc subjective knee evaluation form<br>Knee injury and osteoarthritis outcome score<br>Knee outcome survey activities of daily living scale<br>Knee pain scale<br>Knee severity index<br>Lower extremity activity profile<br>Lysholm knee score<br>Movement and pain prediction scale<br>Oxford knee score<br>Pain subscales of the index of severity for osteoarthritis of the hip or of the knee<br>Rheumatoid arthritis pain scale<br>Rowan foot pain assessment<br>Sf-36<br>Sports activity index<br>Sports knee rating scale<br>Western ontario and mcmaster universities osteoarthritis index<br>Wisconsin brief pain inventory<br>Wisconsin brief pain questionnaire<br>Activities of daily living protocol<br>Arthritis impact measurement scale<br>Dallas pain questionnaire<br>Mcmaster university osteoarthritis index pain subscale<br>Modified roland morris disability questionnaire<br>Movement and pain prediction scale<br>Oswestry disability index<br>Oswestry disability score<br>Roland and morris disability questionnaire<br>Sports activity index<br>Vanderbilt pain management inventory<br>Wadell disability index |
| <b>Back pain</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Aberdeen low back pain scale<br>Back pain function scale<br>Extended aberdeen spine pain scale<br>Oswestry low back pain disability questionnaire<br>Low back pain rating scale<br>Quebec back pain disability scale<br>Low back outcome score<br>Activities of daily living protocol<br>Arthritis impact measurement scale<br>Dallas pain questionnaire<br>Mcmaster university osteoarthritis index pain subscale<br>Modified roland morris disability questionnaire<br>Movement and pain prediction scale<br>Oswestry disability index<br>Oswestry disability score<br>Roland and morris disability questionnaire<br>Sports activity index<br>Vanderbilt pain management inventory<br>Wadell disability index |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Arthritis</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Arthritis impact measurement scale<br>Knee injury and osteoarthritis outcome score<br>Mcmaster university osteoarthritis index pain subscale<br>Pain subscales of the index of severity for osteoarthritis of the hip or of the knee<br>Rheumatoid arthritis pain scale<br>Western ontario and mcmaster universities osteoarthritis index                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Neck pain and shoulder pain</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Musculoskeletal pain, fibromyalgia and chronic fatigue syndrome</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Activities of daily living protocol<br>Arthritis impact measurement scale<br>Dallas pain questionnaire<br>Lower extremity activity profile<br>Mcmaster university osteoarthritis index pain subscale<br>Modified roland morris disability questionnaire<br>Movement and pain prediction scale<br>Neck disability index<br>Neck pain and disability scale<br>Northwick park neck pain questionnaire<br>Oswestry disability index<br>Oswestry disability score<br>Roland and morris disability questionnaire<br>Sports activity index<br>Vanderbilt pain management inventory<br>Wadell disability index                                                                                                          | Short musculoskeletal function assessment questionnaire<br>Fibromyalgia impact questionnaire<br>Leeds Assessment of Neuropathic Symptoms and Signs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Migraine and headache</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Cutaneous ulceration and vascular/ischaemic pain</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 24-hour migraine QOL questionnaire<br>Children's headache assessment scale<br>Headache disability inventory<br>Migraine disability assessment questionnaire<br>Migraine disability assessment scale<br>Migraine specific QOL questionnaire                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Face, legs, activity, cry, consolability pain assessment tool<br>Faces pain rating scale<br>Facial action coding system<br>Rowan foot pain assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Chronic chest pain (including cardiac, oesophageal etc)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Chest pain assessment tool                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Cancer pain</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Bone pain score<br>EORTC QLQ C30<br>Face, legs, activity, cry, consolability pain assessment tool<br>Faces pain rating scale<br>Facial action coding system<br>Finger dynamometer<br>McGill melzack pain questionnaire<br>Memorial pain assessment card<br>Memorial pain card subscale<br>Norwegian pain questionnaire<br>Rotterdam symptom checklist<br>Seven point faces pain scale<br>SF-36<br>Wisconsin brief pain inventory                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |