**Appendix 2.** Definition of reporting classifications during the identification, screening, and eligibility phase

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| Category  | Subcategory  | Definition  |
| Upper extremity regions  | N/A | Classification by shoulder (including shoulder girdle, clavicle, brachial plexus) or humeral shaft or elbow (distal humerus, olecranon, proximal ulna, radial head-neck) or forearm or wrist-hand or combinations thereof |
| Etiology | Nontrauma | Upper extremity musculoskeletal conditions not associated with an index traumatic event, eg, OA, RA, trigger finger, carpal tunnel syndrome, Dupuytren's contracture |
| Trauma | Upper extremity musculoskeletal conditions associated with index traumatic event, eg, fracture, dislocation, subluxation, ligament/tendon rupture  |
| Posttrauma | Upper extremity musculoskeletal conditions associated with complication or sequelae of index traumatic event in a delayed setting, eg, corrective surgery for malunion, nonunion surgery, stabilization procedure |
| Combination  | Combined traumatic and nontraumatic conditions |
| Outcome measures | Disability (PRO measure)  | Subjective, patient-reported generic or specific measures reflecting disability, eg, DASH |
| Clinician-based(CBO measure) | Objective, partial or fully a clinician-based measure, eg, Constant Murley score  |
| Impairment (objective metrics) | Objective metrics fully derived from the clinician forming part of clinical managementie, Clinical assessment, eg, ROM, grip strength, special tests, eg, Tinel’s signie, Clinical investigations, eg, MRI, radiograph, imaging classifications, eg, Anderson criterianb. Process-level features, eg, length of stay, complications and imaging findings excluded |
| Psychological  | Psychological measure, measuring mental health domain only, eg, PCS, not a psychological domain within a generic, eg, EQ-5D, or specific PRO measure, eg, DASH, unless included as a specific variable in analysis, eg, SF-36 MCS  |
| Social  | Social metric, measuring social aspect only, eg, work status, workers’ compensation, marital status, return to work, not social domain within a generic, eg, EQ-5D, or specific PRO measure, eg, DASH, unless included as a specific variable in analysis, eg, DASH-Work module  |
| Pain | Pain and symptom measure, measuring symptomatic aspect only, eg, pain VAS, not a pain measure within a generic, eg, EQ-5D, or specific PRO measure, eg, DASH, unless included as a specific variable in analysis, eg, PRWE pain subscale  |
|
| Other  | Any other measure or metric not conforming to aforementioned categories, eg, aesthetics/cosmetic/experience/activation scores, measures, scales  |

N/A = not applicable; PRO = patient-reported outcome; CBO = clinical-based outcome; OA = osteoarthritis; RA = rheumatoid arthritis; DASH = Disabilities of the Arm, Shoulder and Hand; PCS = Pain Catastrophizing Scale; MCS = Mental Component Scale; VAS = visual analog score; PRWE = Patient-Rated Wrist Evaluation.