**Appendix 1.** A list of Patient-reported Outcome Measurements (PROMs) and their descriptions

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| Patient-reported outcome measures (PROMs) | Description |
| All PROMIS instruments | A score of 50 points represents the mean and every 10 points away from 50 is a SD away from the mean for a general population in the States United. Higher scores reflect greater levels of the measured construct. For instance, a higher PROMIS UE implies greater upper extremity physical function and a higher PROMIS Depression reflects greater levels of depression. |
| PROMIS PF (v1.0) | PROMIS PF (v1.0) assesses the ability to accomplish physical activities ranging from low-intensity tasks (such as dressing) to strenuous sports. Lower scores indicate greater limitations. |
| PROMIS UE (v1.0) | Assesses arm- and hand-specific limitations (for example, writing, lifting heavy objects) |
| QuickDASH | Assesses physical functioning (like daily tasks) and arm symptoms (such as pain) using 11 items (10–13). Total scores are scaled from 0 to 100 with higher scores representing greater limitations. |
| EQ-5D-3L | Assesses five health domains, such as mobility, self-care, usual activities, pain/discomfort and anxiety/depression, each requiring three response levels providing a five-digit number that can be converted to a total index score. Higher scores represent greater overall health. |
| OSS/OES | Assess the impact on pain, function and activities of daily life pertaining to the shoulder and elbow in the previous 4 weeks respectively. Twelve items each with five response categories form a total score ranging from 0 to 48 with lower scores representing greater disability. |
| PRWE | Assesses wrist pain and disability in activities of daily living with specific wrist problems. The pain subscale contains five items each rated from 1 to 10 with a maximum score of 50 and a function subscale with 10 items each rated from 0 to 5 with a maximum score of 50. |

PROMIS = Patient-reported Outcome Measurement Information System; UE = upper extremity; PF = physical function; EQ-5D-3L = European Quality of Life Index-version 3L; OSS = Oxford Shoulder Score; OES = Oxford Elbow Score, PRWE = Patient-rated Wrist Evaluation.