



**PEER-REVIEW REPORT**

**Name of journal:** World Journal of Orthopedics

**Manuscript NO:** 41439

**Title:** Validation of the Danish version of the Musculoskeletal Tumour Society Score questionnaire.

**Reviewer’s code:** 02710967

**Reviewer’s country:** United States

**Science editor:** Fang-Fang Ji

**Date sent for review:** 2018-08-24

**Date reviewed:** 2018-08-27

**Review time:** 3 Days

| SCIENTIFIC QUALITY                                     | LANGUAGE QUALITY  | CONCLUSION                                 | PEER-REVIEWER STATEMENTS                                  |
|--|---|--|---|
| <input type="checkbox"/> Grade A: Excellent            | <input type="checkbox"/> Grade A: Priority publishing                 | <input type="checkbox"/> Accept            | Peer-Review:  |
| <input checked="" type="checkbox"/> Grade B: Very good | <input checked="" type="checkbox"/> Grade B: Minor language polishing | (High priority)                            | <input checked="" type="checkbox"/> Anonymous             |
| <input type="checkbox"/> Grade C: Good                 |   | <input checked="" type="checkbox"/> Accept | <input type="checkbox"/> Onymous                          |
| <input type="checkbox"/> Grade D: Fair                 | <input type="checkbox"/> Grade C: A great deal of language polishing  | (General priority)                         | Peer-reviewer’s expertise on the topic of the manuscript: |
| <input type="checkbox"/> Grade E: Do not publish       | <input type="checkbox"/> Grade D: Rejection                           | <input type="checkbox"/> Minor revision    | <input type="checkbox"/> Advanced                         |
|  |   | <input type="checkbox"/> Major revision    | <input checked="" type="checkbox"/> General               |
|  |   | <input type="checkbox"/> Rejection         | <input type="checkbox"/> No expertise                     |
|  |   |  | Conflicts-of-Interest:                                    |
|  |   |  | <input type="checkbox"/> Yes                              |
|  |   |  | <input checked="" type="checkbox"/> No                    |

**SPECIFIC COMMENTS TO AUTHORS**

A well conducted and written study

**INITIAL REVIEW OF THE MANUSCRIPT**



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**PEER-REVIEW REPORT**

**Name of journal:** World Journal of Orthopedics

**Manuscript NO:** 41439

**Title:** Validation of the Danish version of the Musculoskeletal Tumour Society Score questionnaire.

**Reviewer’s code:** 03708308

**Reviewer’s country:** Italy

**Science editor:** Fang-Fang Ji

**Date sent for review:** 2018-08-24

**Date reviewed:** 2018-08-31

**Review time:** 7 Days

| SCIENTIFIC QUALITY                                     | LANGUAGE QUALITY  | CONCLUSION   | PEER-REVIEWER STATEMENTS                      |
|--|---|--|---|
| <input type="checkbox"/> Grade A: Excellent            | <input type="checkbox"/> Grade A: Priority publishing       | <input type="checkbox"/> Accept                    | Peer-Review:                                  |
| <input checked="" type="checkbox"/> Grade B: Very good | <input checked="" type="checkbox"/> Grade B: Minor language | (High priority)                                    | <input checked="" type="checkbox"/> Anonymous |
| <input type="checkbox"/> Grade C: Good                 | polishing   | <input type="checkbox"/> Accept                    | <input type="checkbox"/> Onymous              |
| <input type="checkbox"/> Grade D: Fair                 | <input type="checkbox"/> Grade C: A great deal of           | (General priority)                                 | Peer-reviewer’s expertise on the              |
| <input type="checkbox"/> Grade E: Do not               | language polishing  | <input checked="" type="checkbox"/> Minor revision | topic of the manuscript:                      |
| publish  | <input type="checkbox"/> Grade D: Rejection                 | <input type="checkbox"/> Major revision            | <input type="checkbox"/> Advanced             |
|  |   | <input type="checkbox"/> Rejection                 | <input checked="" type="checkbox"/> General   |
|  |   |  | <input type="checkbox"/> No expertise         |
|  |   |  | Conflicts-of-Interest:                        |
|  |   |  | <input type="checkbox"/> Yes                  |
|  |   |  | <input checked="" type="checkbox"/> No        |

**SPECIFIC COMMENTS TO AUTHORS**

The manuscript is the validation of the Danish version of the Musculoskeletal Tumour Society Score (MSTS), questionnaire developed in 1985 to measure functional outcome in patients with neoplasm and revised in 1993. Many are the MSTS translate validated



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versions, for example Brazilian Portuguese, Chinese and Japanese. The Danish translation was made by two independent translators and tested on 240 sarcoma-suffered patients. Statistical validation was made using the Spearman's rank coefficient was used to test the validity by comparing with the Toronto Extremity Salvage Score (TESS) and Timed Up & Go (TUG), the Intraclass Correlation Coefficient (ICC), Cronbach's alpha test. The authors concluded their MSTS version has good reliability and validity. Comment 1: The authors should report the types and the number of the surgeries performed.

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**PEER-REVIEW REPORT**

**Name of journal:** World Journal of Orthopedics

**Manuscript NO:** 41439

**Title:** Validation of the Danish version of the Musculoskeletal Tumour Society Score questionnaire.

**Reviewer’s code:** 02695986

**Reviewer’s country:** Egypt

**Science editor:** Fang-Fang Ji

**Date sent for review:** 2018-08-24

**Date reviewed:** 2018-09-05

**Review time:** 11 Days

| SCIENTIFIC QUALITY                                     | LANGUAGE QUALITY   | CONCLUSION                                 | PEER-REVIEWER STATEMENTS                                  |
|--|--|--|---|
| <input type="checkbox"/> Grade A: Excellent            | <input checked="" type="checkbox"/> Grade A: Priority publishing     | <input type="checkbox"/> Accept            | Peer-Review:  |
| <input checked="" type="checkbox"/> Grade B: Very good | <input type="checkbox"/> Grade B: Minor language polishing           | (High priority)                            | <input checked="" type="checkbox"/> Anonymous             |
| <input type="checkbox"/> Grade C: Good                 |  | <input checked="" type="checkbox"/> Accept | <input type="checkbox"/> Onymous                          |
| <input type="checkbox"/> Grade D: Fair                 | <input type="checkbox"/> Grade C: A great deal of language polishing | (General priority)                         | Peer-reviewer’s expertise on the topic of the manuscript: |
| <input type="checkbox"/> Grade E: Do not publish       | <input type="checkbox"/> Grade D: Rejection                          | <input type="checkbox"/> Minor revision    | <input type="checkbox"/> Advanced                         |
|  |  | <input type="checkbox"/> Major revision    | <input checked="" type="checkbox"/> General               |
|  |  | <input type="checkbox"/> Rejection         | <input type="checkbox"/> No expertise                     |
|  |  |  | Conflicts-of-Interest:                                    |
|  |  |  | <input type="checkbox"/> Yes                              |
|  |  |  | <input checked="" type="checkbox"/> No                    |

**SPECIFIC COMMENTS TO AUTHORS**

The authors aim of the work was to validate the Danish version of the upper and lower extremity version of the Musculoskeletal Tumour Society Score (MSTS). The translation of the MSTS was conducted in accordance with international guidelines. The



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psychometric properties of the Danish version of the MSTS were tested in terms of validity and reliability and for the risk of floor or ceiling effect. Spearman's rank coefficient was used to test the validity by comparing with the Toronto Extremity Salvage Score (TESS). Spearman's rank coefficient was used to compare the MSTS lower extremity version with the objective test, Timed Up & Go (TUG). The upper extremity version demonstrated an intraclass correlation coefficient (ICC) of 0.95 in the inter-rater reliability test. The lower extremity version had an ICC of 0.88 in the inter-rater reliability test, respectively. Both MSTS versions showed a ceiling effect. The strengths and limitations of the study were discussed by the authors. The authors concluded that the Danish version of the MSTS questionnaires were found to have good reliability and validity, but a substantial ceiling effect was identified. The study is very valuable for the Danish researchers.

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