



O2:104

## **A new Score for the evaluation of radiographic and functional outcomes of custom made tumoral prosthesis.**

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### Introduction

Local control of tumors is achieved with resection followed by replacement by non-conventional endoprosthesis. The Literature has many publications on the best score to assess the long-term follow-up of conventional joint replacements. Each joint, among them the knee, hip and shoulder, has several scores attempting to analyze and evaluate the functional and radiographic outcomes. Despite the use of unconventional endoprosthesis for several years for treatment of bone tumors we did not find a specific index for its evaluation regarding clinical and surgery outcomes.

### Objective

The objective of this study is to carry out a score for the evaluation of non-conventional endoprosthesis used for treatment of bone tumors around the shoulder, hip and knee, based on the questionnaires and scores used in conventional knee prostheses.

### Methods

We review the English Literature related to the scores for assessing follow-up concerning function, complications of the prosthesis and clinical outcomes.

### Results

We compared the most useful questionnaires for conventional joint replacement and proposed a new one to patients submitted to non-conventional endoprosthesis. We identified the parameters that are not addressed satisfactorily in the assessment of a patient treated surgically by means of non-conventional endoprosthesis. This will allow us to evaluate the results of the prosthesis.

Regarding the assessment rates of patients with bone tumors, the questionnaires TESS and MSTS were suitable for comparison of patients before and after treatment but not for the evaluation of endoprosthesis.

### Conclusion

Current Literature do not use a specific "score" in order assessing the outcome of non-conventional endoprosthesis used for the treatment of patients with primary tumors.

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