BOS score Report – BOS30127022
for fracture risk prediction in femoral bone metastases

In the figure below, you can find the calculated BOS score of patient BOS30127022 relative to the patients in the BOS database. As you can see, patient BOS30127022 has a **BOS score of 12.86** which is higher than the threshold of 7.5, indicating a low fracture risk.

**Conclusion:**
Patient BOS30127022 has a low fracture risk.

Additional results (weakest location of the bone and the value of the BOS score) can be found on the next page.

**Terms and conditions**
No information provided in this report will give any guarantees. It is explicitly the responsibility of the physician to use and interpret the outcomes from this report correctly. Health care providers should always also exercise their own independent clinical judgement when using the BOS score in conjunction with patient care.

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Value of the BOS score

Diagnostic values obtained from the patients in the BOS database: sensitivity, specificity, positive and negative predictive values are calculated using a threshold of 7.5 for distinguishing between high and low fracture risk.

<table>
<thead>
<tr>
<th>Term</th>
<th>Formula</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Sensitivity = 92%</td>
<td>( \frac{TP}{TP + FN} )</td>
<td>Number of fractured femurs that has been correctly predicted as high-fracture risk</td>
</tr>
<tr>
<td>Specificity = 71%</td>
<td>( \frac{TN}{TN + FP} )</td>
<td>Number of non-fractured femurs that has been correctly predicted as low-fracture risk</td>
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<tr>
<td>Positive predictive value = 35%</td>
<td>( \frac{TP}{TP + FP} )</td>
<td>Number of high-fracture risk femurs that would have fractured</td>
</tr>
<tr>
<td>Negative predictive value = 98%</td>
<td>( \frac{TN}{TN + FN} )</td>
<td>Number of low-fracture risk femurs that would not have fractured</td>
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