RESULTS

BACKGROUND AND PURPOSE

Very strong association identified between SFI ≤ 6 and self-reports of time-loss musculoskeletal injury during previous 12-month period

Table 1

<table>
<thead>
<tr>
<th>Lower Extremity</th>
<th>Cut-point</th>
<th>Sensitivity</th>
<th>Specificity</th>
<th>OR</th>
<th>95% CI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hip/Groin</td>
<td>≤ 4</td>
<td>62%</td>
<td>61%</td>
<td>4.85</td>
<td>2.06, 11.40</td>
</tr>
<tr>
<td>Knee</td>
<td>≤ 4</td>
<td>68%</td>
<td>70%</td>
<td>4.85</td>
<td>2.06, 11.40</td>
</tr>
<tr>
<td>Thigh</td>
<td>≤ 4</td>
<td>71%</td>
<td>63%</td>
<td>4.24</td>
<td>1.77, 10.97</td>
</tr>
<tr>
<td>Hip/Leg</td>
<td>≤ 4</td>
<td>75%</td>
<td>57%</td>
<td>3.94</td>
<td>1.73, 8.96</td>
</tr>
<tr>
<td>Knee/Leg</td>
<td>≤ 4</td>
<td>70%</td>
<td>75%</td>
<td>2.83</td>
<td>1.22, 6.79</td>
</tr>
</tbody>
</table>

Sensitivity and Specificity Estimated Using Receiver Operating Characteristic (ROC) Analyses

CLINICAL RELEVANCE

SFI score appears to provide an exceptionally good means to quantify pendulous adverse effects of previous injuries on functional capabilities.

CONCLUSION

• Painful hip/groin dysfunction was identified as the primary risk factor; any time-loss musculoskeletal injury that occurred within the previous 12 months, as well as the existence of ankle instability

• Strongest DF relevance to functional limitations was bilateral difference of 4° or higher; stronger effect of asymptomatic magnitude

• Excellent reliability observed for DF measures derived from either inclinometer or trigonometric method, but magnitudes differed

• DF values derived from trigonometric method were substantially lower than those from inclinometer; probably due to different angle definitions

• Self-ratings of functional capabilities obtained from SFI items can provide information that is highly relevant to injury risk screening, and may serve as a means to identify individuals who need further assessment (e.g., DF measurement) to improve function and reduce injury risk.

REFERENCES


