Patient Reported Disability of Ankle, Hindfoot, Midfoot and Hallux Metatarsophalangeal Arthritis

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Disclosure

NO CONFLICT TO DISCLOSE

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Our full disclosures are in the Final AOFAS Mobile App. We have no potential conflicts with this presentation.
INTRODUCTION

Glazebrook et al. JBJS Am 2008:

• Compared SF-36 scores of ankle and hip arthritis
• Mental and Physical disability of ankle djd at least as severe as hip djd
INTRODUCTION

- Literature often focuses on treatment of Foot and Ankle Arthritis
- Most focus on arthritis in one joint or location
- There is little reported on disability associated with this disease
- No study compares relative disability between ankle, hindfoot, midfoot, hallux MTP arthritis
METHODS

• Collected SF-12 and FFI scores-
  – First clinic visit
  – Ankle, Hindfoot, Midfoot, Hallux MTP
• 2010-2016
• 18-65yo
• Surgery within 6 months- end stage arthritis
METHODS

• Exclusion
  – Co-morbidities known to affect outcomes
    • Surgical
    • Medical
  – No surgical intervention within 6 months
    • Only capturing end stage/symptomatic arthritis
RESULTS

• Ankle most disabled

• Forefoot least disabled

• Midfoot/Hindfoot in between

• Results significant
RESULTS

- Ankle most disabled
- Forefoot least disabled
- Midfoot/Hindfoot in between
- Results significant
RESULTS

<table>
<thead>
<tr>
<th>Age 50-59 (n=137)</th>
<th>Study Population Mean (SD)</th>
<th>US National Average Mean (SD)</th>
<th>P-Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>SF-12 PCS</td>
<td>35.8 (11.3)</td>
<td>49.1 (10.2)</td>
<td>&lt;0.0001</td>
</tr>
<tr>
<td>SF-12 MCS</td>
<td>53.6 (9.5)</td>
<td>52.9 (9.1)</td>
<td>0.37</td>
</tr>
<tr>
<td>Age 40-49 (n=52)</td>
<td>SF-12 PCS 33.9 (11.4)</td>
<td>51.2 (8.3)</td>
<td>&lt;0.0001</td>
</tr>
<tr>
<td>SF-12 MCS</td>
<td>50.2 (13.6)</td>
<td>53.0 (8.1)</td>
<td>0.01</td>
</tr>
</tbody>
</table>

Patients with Foot/Ankle arthritis are significantly more disabled than Age-Matched Norms in the United States.
DISCUSSION

• Ankle Arthritis
  – most disabling
• Hallux MTP arthritis
  – least disabling
DISCUSSION

• Disability due to Foot/Ankle arthritis is high

• Patients with any Foot/Ankle arthritis are more disabled than general population in US
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References


9. Trnka HJ. Arthrodesis procedures for salvage of the hallux metatarsophalangeal joint. Foot Ankle Clin 2000 Sep;5(3)673-86


