

Fig. E-1

Line graph showing the mean estimates for the Ankle Osteoarthritis Scale (AOS) pain scores versus time. The p values are for testing for a group difference at the particular time point; the values for the fixed (no motion) group have been moved slightly to the right to make the plot more readable. \*P < 0.05.

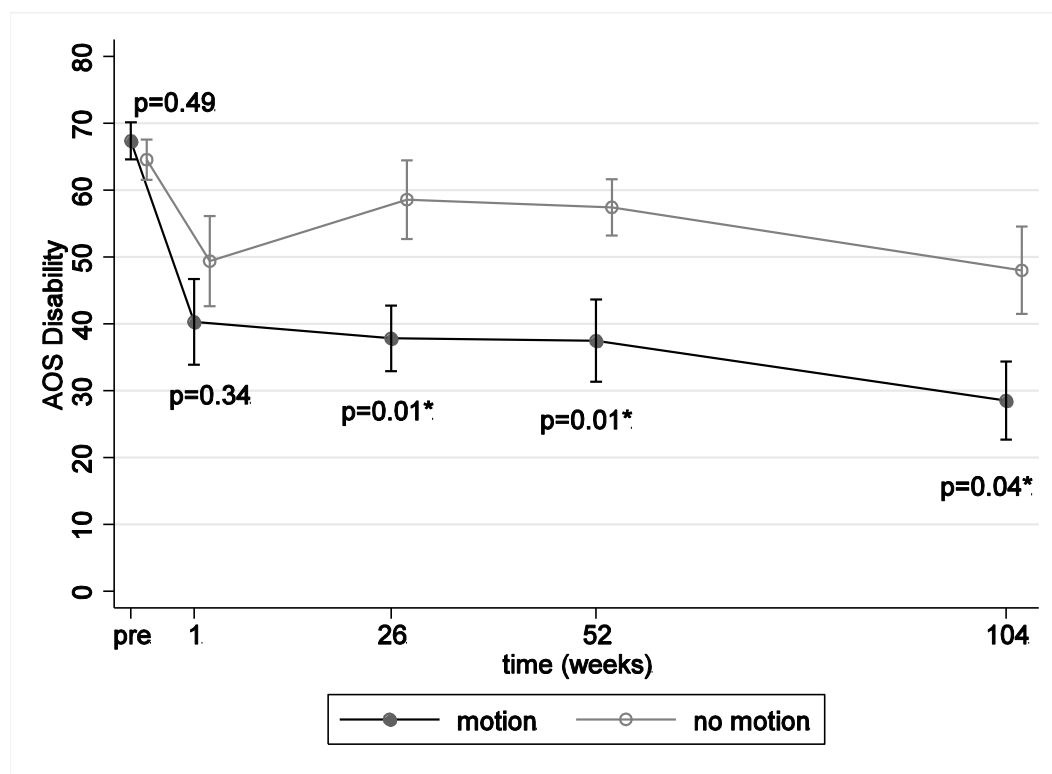


Fig. E-2

Line graph showing the mean estimates for the Ankle Osteoarthritis Scale (AOS) disability scores versus time. The p values are for testing for a group difference at the particular time point; the values for the fixed (no motion) group have been moved slightly to the right to make the plot more readable. \*P < 0.05.

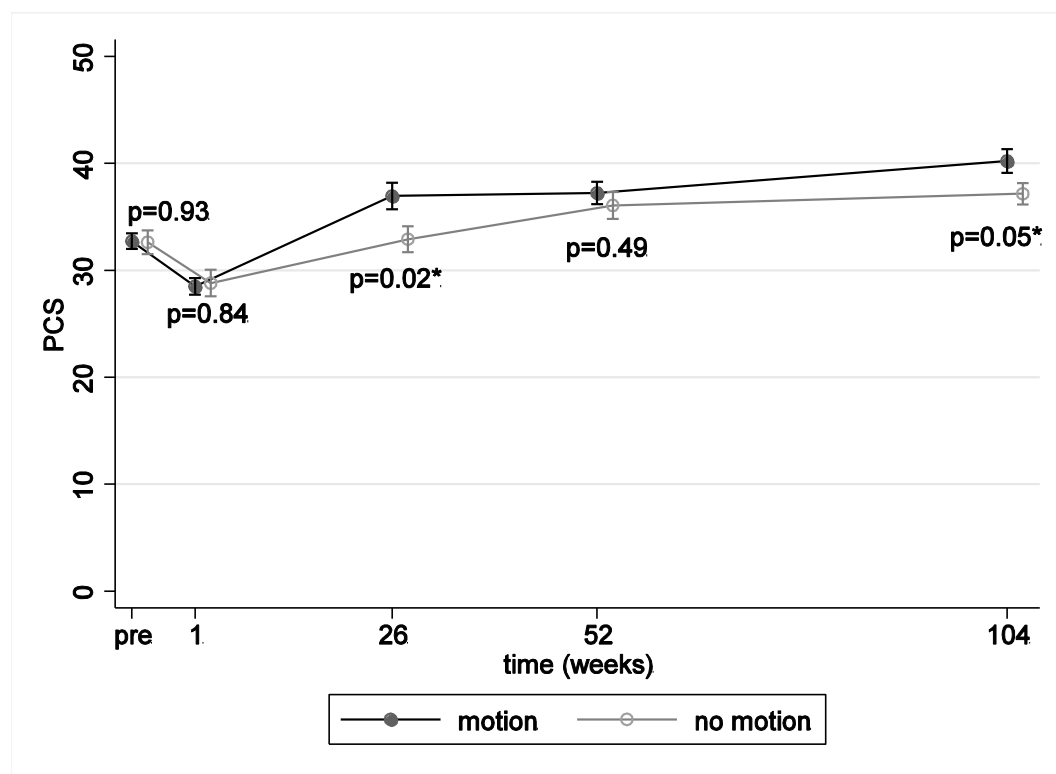


Fig. E-3

Line graph showing the mean estimates for the Physical Component Summary (PCS) outcome scores of the SF-36 versus time. The p values are for testing for a group difference at the particular time point; the values for the fixed (no motion) group have been moved slightly to the right to make the plot more readable. \*P < 0.05.

TABLE E-1 Inclusion and Exclusion Criteria for the Prospective Randomized Controlled Trial\*

Inclusion Criteria	Exclusion Criteria
<ul style="list-style-type: none"> <li>Symptomatic isolated, unilateral Kellgren-Lawrence grade-3 or Kellgren-Lawrence grade-4 ankle osteoarthritis</li> </ul>	<ul style="list-style-type: none"> <li>History, physical findings, and/or imaging studies suggesting inflammatory arthritis, crystal deposition disease, diabetes, systemic illness, fibromyalgia, peripheral neuropathy, reflex sympathetic dystrophy, or previous infection of the ankle or adjacent bones</li> </ul>
<ul style="list-style-type: none"> <li>Skeletally mature and <math>\leq 60</math> years old (children included if growth plates were closed)</li> </ul>	<ul style="list-style-type: none"> <li>Neuroarthropathic ankle</li> </ul>
<ul style="list-style-type: none"> <li>Failure of nonoperative treatment <math>&gt;1</math> year including 3 months of continuous treatment with nonsteroidal anti-inflammatory agents and 3 months of unloading treatment (i.e., unloading brace, crutches, cane, or walker)</li> </ul>	<ul style="list-style-type: none"> <li>Presence of other symptomatic joints of ipsilateral lower extremity</li> </ul>
<ul style="list-style-type: none"> <li>Capacity to maintain extremity non-weight-bearing with use of walking aids</li> </ul>	<ul style="list-style-type: none"> <li>Contralateral ankle arthritis (Kellgren-Lawrence grade 2, 3, or 4)</li> </ul>
	<ul style="list-style-type: none"> <li>Ankle or hindfoot malalignment:               <ul style="list-style-type: none"> <li>On a standing anteroposterior radiograph, a tibial-talar angle of <math>&lt;83^\circ</math> or <math>&gt;94^\circ</math>†</li> <li>On a standing lateral radiograph, a distal tibial angle <math>&lt;77^\circ</math> or <math>&gt;86^\circ</math>†</li> <li>On a standing hindfoot alignment view, an apparent calcaneal moment arm <math>&gt;15</math> mm‡</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>Living <math>&gt;300</math> miles away</li> </ul>
	<ul style="list-style-type: none"> <li>Current history of ethanol or drug abuse</li> </ul>

\*All subjects were selected from among the patients who presented with painful end-stage ankle osteoarthritis to a U.S. tertiary medical center. †Cheng YM, Chang JK, Hsu CY, Huang SD, Lin SY. Lower tibial osteotomy for osteoarthritis of the ankle. Gaoxiong Yi Xue Ke Xue Za Zhi. 1994;10(8):430-7. ‡Saltzman CL, el-Khoury GY. The hindfoot alignment view. Foot Ankle Int. 1995;16(9):572-6.