Clinical Newsletter

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STUDY FOCUS



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KNEE OA PATIENTS REPORT IMPROVED PAIN, FUNCTION AND MOBILTY WITH OA DEFIANCE

Effects of a ser	ni-rigid knee brace on mobility and pain in people with knee
osteoarthritis.	
Authors	Dries T, van der Windt JW, Akkerman W, Kluijtmans M, Janssen RPA.
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Place of origin	Livit Orthopedie, The Netherlands; Eindhoven University of Technology and Fe University of Applied Sciences, Eindhoven, The Netherlands.
Background	Several systematic reviews have quantified the effectiveness of unloader brac improving clinical outcomes and mechanical leverage However, to the best of authors' knowledge, there is a significant research gap in perception-based st understanding the short- and long-term consequences of these braces on the the knee joint, including the cartilage and ligaments.

Objective	The aim of this perception-based study is to evaluate the short- and long-term effects of conservative therapeutic use of a semi-rigid knee brace for management of patients with knee osteoarthritis, using patient-reported outcomes (PROM).
Tested products	Donjoy OA Defiance Ottobock Agillium Reactive
dy design & thods	 Perception-based evaluation study. <u>Subjects</u>: 381 patients with Knee OA who were allocated treatment with a semi-rigid knee brace (both new users and repeat users). The diagnosis of OA was confirmed by a medical doctor (MD) for all patients. The diagnosis was mostly made based on X-rays and/or MRI. <u>Methods</u>: Patients were provided with either a Donjoy OA Defiance brace or a Ottobock Agillium Reactive brace (both selected for their unloading capabilities). Patients were asked to complete a questionnaire about the effectiveness of the brace after wearing it for 3 weeks. <u>Outcomes</u>: Mobility, assessed using an ordinal scale with and without use of the knee brace, Pain symptoms, Overall daily functioning.
Results	 The results show considerably improved mobility while using a knee brace in different mobility groups. The number of respondents who were limited to their home environment decreased from 29% without using a knee brace to 8% while using a knee brace. The number of respondents who were able to walk to a nearby shop increased from 18% without using a knee brace to 28% while using a knee brace. The group experiencing no mobility restrictions increased from 3% without using a knee brace to 13% while using a knee brace. The group experiencing no mobility restrictions increased from 3% without using a knee brace to 13% while using a knee brace. The group experiencing no mobility restrictions increased from 3% without using a knee brace to 13% while using a knee brace. The group experiencing no mobility restrictions increased from 3% without using a knee brace to 13% while using a knee brace. The group experiencing no mobility restrictions increased from 3% without using a knee brace to 13% while using a knee brace. Mobility without a knee brace Mobility without a knee brace Mobility without a knee brace Mobility with a knee brace Fg. 2. Results for the question: "Please indicate how mobility the knee brace" (0A indication)

• 54% of respondents reported a reduction in pain symptoms.

	 62% of respondents reported an improvement in overall daily functioning while using knee brace. 29% indicated that daily functioning improved significantly, and 7% very significantly.
	Remark
	• The study did not compare results between the two braces
Conclusion	 Use of semi-rigid knee braces in patients with knee OA contributes to general daily functioning, reduces pain, and increases the possibility to perform daily activities.
	• For patients with OA, reduced pain enables increased mobility away from the home environment, resulting in a more active life and increased quality of life.
	• Knee brace should be considered a useful non-surgical treatment method for use in patients with knee osteoarthritis.
Key message	Based on patient feedback in this study, Donjoy OA Defiance can be considered a useful non-surgical treatment method for knee OA patients, offering pain relief, improved daily functioning and increased mobility and freedom of movement.
Pubmed	Pubmed link
iDJO	iDJO Link
Website	OA Defiance web page

Francine Van Steenkiste Intl. Clinical & Education Projects

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Enovis 1a Guildford Business Park Guildford, Surrey GU2 8XG UNITED KINGDOM

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