

Dyna Ankle

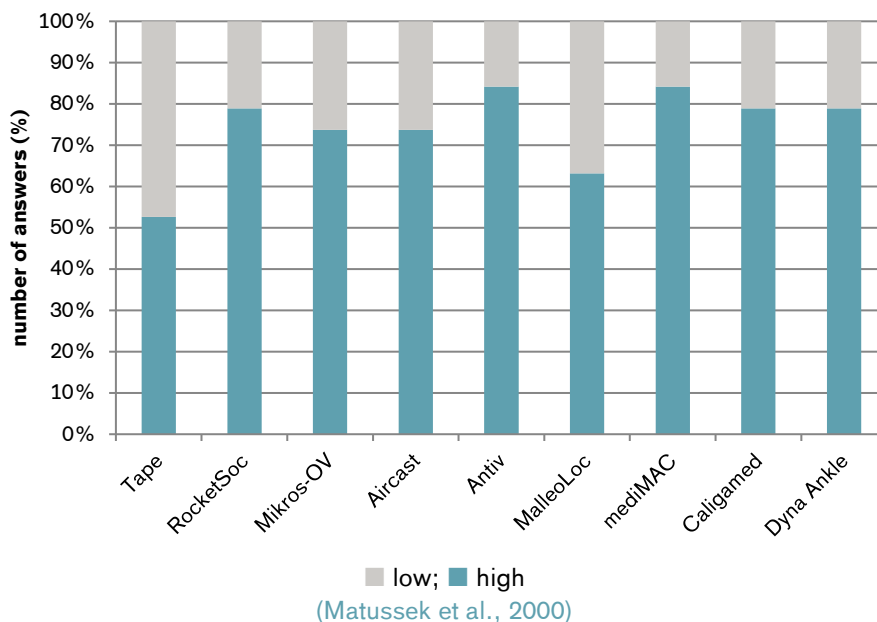
Satisfaction

Major Findings

With Dyna Ankle:

- high sense of security in 15 of 19 subjects
- good wearing comfort in 16 of 19 subjects
- easy to learnable handling in 18 of 19 subjects
- low to moderate feeling of restriction in 15 of 19 subjects

Perceived sense of security



Clinical Relevance

Satisfaction can be measured to determine the general well-being of a person and the fulfilment of his expectations to the medical device. It is a very meaningful parameter to investigate since it has a direct impact on the patient's well-being and compliance. It is influenced by additional categories and can therefore be seen as a summary of possible pain reduction and better performance of ADLs.

Additionally, the patients' satisfaction is also correlated with the usage of the medical device. Studies on the non-use of devices suggest that, on average, a third of all devices provided are not used (Scherer 2002). The lack of consumer involvement or consumer dissatisfaction with the device were shown as predictors of non-use (Wielandt & Strong, 2000). In addition, a number of problems have been identified as reasons for non-use: inadequate performance of the product; poor function of the product; difficulty in operating the product; and the high cost of the products and their maintenance (Batavia & Hammer 1990, Goodacre & Turner, 2005). Obtaining user perspectives is therefore fundamental to address these issues.

Summary

Each of the orthoses tested gives most test persons a sense of safety. As expected, this is often described as "high" in the rigid and semi-rigid orthoses.

As expected, wearing comfort with soft and semi-rigid orthoses was also described more frequently as "hardly irritating". Within the group of rigid orthoses, the Dyna Ankle offers clearly higher wearing comfort.

The handling of the Dyna Ankle was predominantly assessed as "easy" 8/19 and "learnable" 10/19. The bandage and the stirrup orthoses were most frequently rated as "easy".

Likewise, the result on the feeling of limitation was as expected. The soft orthoses were most frequently rated as "low" and the rigid orthoses as "moderate" to "strong". Within the group of rigid orthoses, the Dyna Ankle also shows clear advantages here. (Matussek et al., 2000)

References of summarized studies

Matussek, J.; Bröcker, L.; Mellerowicz, H.; Neff, G. (2000). Sprunggelenksorthesenprüfung unter Einsatz eines neuen plyometrischen Testverfahrens – Versuchsbeschreibung und Analyse der Daten. Testing ankle orthoses by means of a new plyometric technique. *Medizinisch Orthopädische Technik*, 120: 72-81.

Other References

Batavia, A. I.; Hammer, G. S. (1990). Toward the development of consumerbased criteria for the evaluation of assistive devices. *Journal of rehabilitation research and development*, 27(4): 425-436.

Goodacre, L.; Turner, G. (2005). An investigation of the effectiveness of the Quebec user evaluation of satisfaction with assistive technology via a postal survey. *British Journal of Occupational Therapy*, 68(2): 93-96

Scherer, M. J. (2002). The change in emphasis from people to person: introduction to the special issue on Assistive Technology. *Disability and rehabilitation*, 24(13): 1-4.

Wielandt, T.; Strong, J. (2000). Compliance with prescribed adaptive equipment: a literature review. *The British Journal of Occupational Therapy*, 63(2): 65-75.

© 2014, Otto Bock HealthCare Products GmbH ("Otto Bock"), All Rights Reserved. This article contains copyrighted material. Wherever possible we give full recognition to the authors. We believe this constitutes a 'fair use' of any such copyrighted material according to Title 17 U.S.C. Section 107 of US Copyright Law. If you wish to use copyrighted material from this site for purposes of your own that go beyond 'fair use', you must obtain permission from the copyright owner. All trademarks, copyrights, or other intellectual property used or referenced herein are the property of their respective owners. The information presented here is in summary form only and intended to provide broad knowledge of products offered. You should consult your physician before purchasing any product(s). Otto Bock disclaims any liability related from medical decisions made based on this article summary.