

Helix^{3D} Hip Joint System vs other prosthetic hip joints

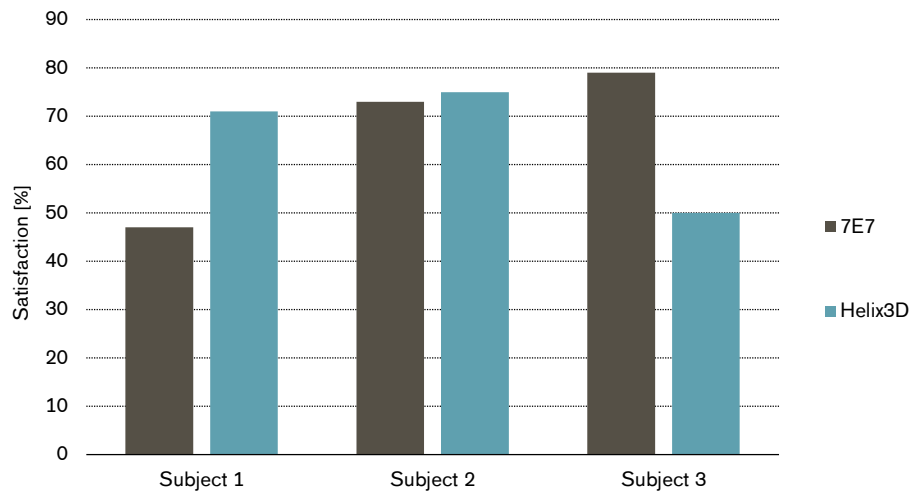
Preference / Satisfaction / Quality of Life (QoL)

Major Findings

With Helix^{3D} Hip Joint System compared to 7E7:

→ **Increased satisfaction in 2 out of 3 subjects after only 4 days of using Helix^{3D}**

Increased satisfaction in 2 out of 3 subjects with Helix^{3D}



Satisfaction was measured after 4 days of using Helix^{3D} (Gailledrat et al. 2013).

Clinical Relevance

Satisfaction and quality of life can be measured to determine the general well-being of a person. They are influenced by other categories and can therefore be seen as a summary of possible activities, independence and perceived safety. Satisfaction can be measured by using the SatPro questionnaire. It includes 15 items estimating comfort, facility to use, and effectiveness of the prosthesis. The result is presented as a satisfaction score expressed in percentage.

Summary

The satisfaction was increased for 2 out of 3 subjects after 4 days of using Helix^{3D} compared to 7E7 by 51%, respectively 3%. 2 out of 3 subjects reported that moving with Helix^{3D} is more difficult than with the 7E7 (Gailledrat et al. 2013). These unsatisfying results are based on the prosthetic set up applied in study: As stated by the authors, the prosthetic set up of the Helix^{3D} prosthetic hip system was not in compliance with the methods recommended by the manufacturer (Ottobock). Furthermore, since it takes time for subjects to get used to the hydraulic control of Helix^{3D}, 4 days of acclimatisation period might have been too short.

References of summarized studies

Gailledrat, E., Moineau, B., Seetha, V., DeAngelis, M., Saurel, B., Chabloz, P., . . . Pérennou, D. (2013). Does the new Helix 3D hip joint improve walking of hip disarticulated amputees? *Annals of Physical and Rehabilitation Medicine*, 56(5), 411–418. doi:10.1016/j.rehab.2013.05.001

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