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Title

Dealing with Complications and Long Term Results

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Summary

This presentation will report on how to deal with complications when using bone anchored amputation prostheses as well as report on the long term results from the experience with this treatment since 1990

Introduction

Treatment with osseointegrated transfemoral prostheses (OI-prosthesis) has been performed in Sweden since 1990. It comprises two surgery sessions (S1 and S2) and rehabilitation. Patients treated during the first couple of years did not follow any specified training. A treatment protocol named OPRA (Osseointegrated Prostheses for the Rehabilitation of Amputees) was developed during the subsequent years and has been followed since 1999.

Methods

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Results

Complications can be soft tissue or hard tissue related as well as implant related. Soft tissue complications can be handled using ordinary surgical principles, but hard tissue complications and implant related complications require special attention. Experience from dealing with complications will be reported. No long term studies are completed, but preliminary results from the since 1999 ongoing OPRA study will be reported. As of December 2009, 42 (21 male, 21 female, mean age at inclusion 44 years (Sd 12,9), cause of amputation; 26 trauma, 12 tumour, 4 other) of the 51 patients included in the OPRA study had been followed until 2 years after S2. Among the 42 patients 35 had a unilateral transfemoral amputation (6 bilateral transfemoral, 1 transfemoral and transtibial). Of these 42 patients 4 have had their implants removed due to loosening and or deep infection.

Conclusion

Most complications can be handled without the removal of the implant . Preliminary long term results will be presented as well as an update from the ongoing prospective study.

References

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