

Supplementary Materials for

Long-term implant of intramuscular sensors and nerve transfers for wireless control of robotic arms in above-elbow amputees

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Published 17 July 2019, *Sci. Robot.* **4**, eaaw6306 (2019)
DOI: 10.1126/scirobotics.aaw6306

The PDF file includes:

Legends for movies S1 and S2

Other Supplementary Material for this manuscript includes the following:

(available at robotics.sciencemag.org/cgi/content/full/4/32/eaaw6306/DC1)

Movie S1 (.mp4 format). SHAP and CPRT of patient II.

Movie S2 (.mp4 format). Accuracy test of patient III with six myosignals and surface electrodes compared with implanted electrodes.

SUPPLEMENTARY MATERIALS

Movie S1. SHAP and CPRT of patient II.

Movie S2. Accuracy test of patient III with six myosignals and surface electrodes compared with implanted electrodes. Accuracy Test Patient III with 6 myosignals and surface electrodes compared to implanted electrodes. The patient is asked to perform the movements, which are shown by the examiner. Within the first sequence, the patient is using surface electrodes. Here, unintended movements due to interference of different muscle signals can be noticed. This is shown additionally by the simultaneous activation of different myosignals on the screenshot. In the second sequence, the patient is using the implanted electrodes together with the telemetry socket. The simultaneously recorded EMG data are displayed. There are no unintended movements noticeable and the EMG data show only one myosignal at a time active.