Materials List for:

Surface Electromyographic Biofeedback as a Rehabilitation Tool for Patients with Global Brachial Plexus Injury Receiving Bionic Reconstruction

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Materials

Name	Company	Catalog Number	Comments
dry EMG electrodes	Ottobock Healthcare, Duderstadt, Germany	13E202 = 50	The EMG electrodes used in this study were bipolar and included a ground. They can be used both for EMG training with the Myoboy and for the control of a prosthetic device.
Myoboy	Otto bock Healthcare, Duderstadt, Germany	Myoboy	This device that can be used as stand alone device or with a computer. It allows to display EMG activity while using the dry EMG electrodes that can also be impeded in the prosthetic socket.
SensorHand Speed	Ottobock Healthcare, Duderstadt, Germany		All patients used this commercially available myoelectrical prosthesis as their standard prosthetic device and during functional testing. Fitting of patients undergoing this procedure is, however, not restricted to this device.
Standard laptop with Microsoft operating system			Usually, devices for EMG biofeedback connected to a computer do not require much computing power and thus work on any regular laptop
TeleMyo 2400T G2	Noraxon, US		A surface EMG biofeedback set-up used in our protocol, connected to TeleMyo-Software, which displays the recorded EMG activity as color-coded graphs on the computer screen
wet EMG electrodes	Ambu	Ambu Blue Sensor VL Adhesive Electrodes	These adhesive electrodes can be used in combination with many different EMG biofeedback devices, including the TeleMyo 2400T. While they cannot be moved easily, the wet contacts usually allow to detect very faint EMG signals as well.