

Materials List for:

Electrophysiological Measurement of Noxious-evoked Brain Activity in Neonates Using a Flat-tip Probe Coupled to Electroencephalography

Noemi Klarer^{*1}, Hanna Rickenbacher^{*1}, Severin Kasser¹, Antoinette Depoorter², Sven Wellmann¹

¹Division of Neonatology, University of Basel Children's Hospital

²Division of Neuropediatrics and Developmental Medicine, University of Basel Children's Hospital

*These authors contributed equally

Correspondence to: Sven Wellmann at sven.wellmann@ukbb.ch

URL: <https://www.jove.com/video/56531>

DOI: [doi:10.3791/56531](https://doi.org/10.3791/56531)

Materials

Name	Company	Catalog Number	Comments
Easycap	EASYCAP GmbH	AC-32-C	EEG caps for infants sizes 34 and 36
actiCAP	Brain Products GmbH	BP-04243-SIG	active electrodes
ImpBox	Brain Products GmbH		impedance measurement
V-Amp	Brain Products GmbH		EEG recording device
Contact trigger for pinprick stimulation	MRC Systems GmbH		
PinPrick stimulator set	MRC Systems GmbH		
EEG prepping paste	USB Pharmacy		contains sodium chloride, pumice stone, propylene glycol
SuperVisc	EASYCAP GmbH		Electrolyte-Gel for active electrodes
Brain Vision Recorder	Brain Products GmbH		
Brain Vision Analyzer	Brain Products GmbH		
MATLAB using EEGLAB	Swartz Center for Computational Neuroscience, University of California San Diego		For EEG processing, including averaging of all EEG epochs