BIOSEB
In Vivo Research Instruments

For Electronic Von Frey applications on human subjects - autonomous control for precise sensitivity threshold identification

Electronic Von Frey with patient Switch

Application on human subjects

INSTRUMENT OVERVIEW

Using Electronic Von Frey on human subjects is an easy and reproducible way to measure mechanical sensitivity threshold.

Our **Electronic Von Frey BIO-EVF4** provides all the features to assess this sensitivity threshold with high accuracy and repeatability. It comes with **a control unit with a large backlighted screen** and a **designed stimulation handle** for easy and balanced manipulation.

Additionally, we offer a special version for applications on human subjects including a **Patient Switch** as handheld controller for the subject to **freeze the measurement** immediately when the level of sensitivity/pain is perceived.

HOW DOES IT WORK?

Using the stimulation handle, **stimulus is applied by the physician to the anatomy** (fingers, hand palm, foots, teeth face…) with an increasing pressure, until the **subject demonstrates aversive sensation and triggers the patient switch**. At this moment, the maximum value of stimulus applied prior to trigger is recorded. The measure is displayed on the control unit. All values can be **recorded in the internal memory** of the instrument and later exported to a computer and saved in Excel file using an optional BIO-CIS Software.

KEY FEATURES

- Specific instrument for human application
- Internal memory and statistics
- Patient freezes measurement in one click with the thumb
- Hygienic design : easily disposable stimulation tips

WARNING

It is important to note that the Patient Switch stops the instrument from recording subsequent force measurement. Cessation of the aversive stimulation remains operator-dependent.

The Bioseb Electronic Von Frey is a device used **for research purpose only**. It cannot be considered as a medical device and thus a Medical CE marking is not applied.

HIGHLIGHTHED BIBLIOGRAPHY Exhaustive list on our website

GABAergic modulation in central sensitization in humans: a randomized placebo-controlled pharmacokinetic-pharmacodynamic study comparing clobazam with clonazepam in healthy volunteers, Pain (2015), Besson M. et al.

Buccal acetaminophen provides fast analgesia: two randomized clinical trials in healthy volunteers, Drug Des Devel Ther. (2014), Pickering G. et al.

An Experimental Paradigm for the Prediction of Post-Operative Pain (PPOP), Journal of Visualized Experiments (2010), Landau R. et al.

ORDERING INFORMATION

Reference	Description
BIO-**EVF4**	Electronic Von Frey 0-500g
BIO-**EVF2-PS10**	Patient switch for BIO-EVF4
BIO-**CIS**	Dedicated Software
BIO-**EVF-D**	Replacement Hard Plastic tips (x10)

APPLICATIONS

- Mechanical allodynia & hyperalgesia
- Diabetic neuropathy and sensivity loss
- Post operative pain
- Buccal and teeth sensitivity
- Orofacial & neuropathic pain
- Pharmacology

FOR MORE INFORMATION, VISIT OUR WEBSITE: WWW.BIOSEB.COM/EVF

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