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INSTRUMENT STANDARD OPERATING PROCEDURE MANUAL

College of Medicine

SAFETY AND LABORATORY COOMMITTEE, C.O.M, K.F.U.

Prepared by

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Revision Number	**Approved by**		
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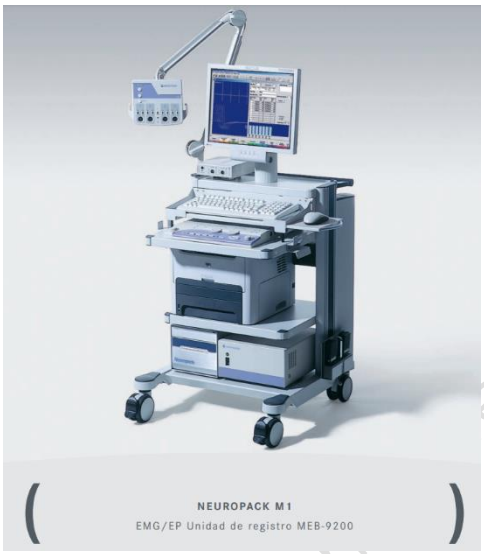
Document History

Document Section	Details of Amendments	Date	Modified by (Initials)
SOP	First Draft on SOP for the operation of Neuropack M1		

1.OBJECTIVE:

- The document describes the operation of Neuropack M1



2.OVERVIEW OF THE INSTRMENT:

The Neuropack M1 is the EMG/EP measuring system for comprehensive diagnostics. Even the basic equipment includes modules for all areas of neurography, somatosensory evoked potentials .and electromyography

The modular design allows additional EMG and EP test capabilities to be added at any time – and it is even possible to add 32-channel EEG .recording

System features:

Measuring system for EMG, evoked potentials and neurography • Recording of 4, 8 or 16 channels • 2 independently triggered electrical stimulators • Freely configurable measuring systems (also online) • Reporting in HTML, Excel • Simple operation via a special ergonomic High-quality workmanship ensures a long service life • keyboard Optional connection of a Nihon Kohden EEG amplifier

3.RESPONSIBILITIES:

- It is the responsibility of designated personnel in the lab to train new staff and students on this procedure and to ensure adherence to this procedure under supervision.
- It is the responsibility of designated personnel (staff or Student) to follow the instructions of this procedure under supervision.
- The head of the physiology department must resolve any problem with the process and difficulties in using this SOP.

4.REFERENCES:

- Neuropack M1 MEB- 9200 Series Operators Manual, Nihon Kohden.

5.DEFINITIONS:

EP: Evoked potential

EMG: Electromyography

NCS: Nerve Conduction Study

ABR : Auditory Brainstem Response

6.SAFETY PRECAUTIONS:

- Wear gloves, a lab coat.

7.PROCEDURE FOR OPERATING of Neuropack M1

7.1.Turning on the instrument:

1-Press the power button on the device
2-Turn on the computer

7.2.Quick Examination:

Quick menu→Examination program→After finish examination then click save data.

7.3.Reports:

Three types of reports can be generated by clicking the report button. A.Microsoft® ExcelTM/WordTM reports
B.Screen hard copy of waveforms
C.Waveforms, data and information on one page

7.4.On-screen examination guide NeuroNavi:

The NeuroNavi on screen examination guide shows examination information and electrode and stimulation positions for NCS and other examinations. On-screen operation manuals are also available. You can refer to NeuroNavi and operation manuals anytime.

7.5.Software:

EMG: includes measurement of motor units and turns/amplitude analysis of the interference pattern; data acquisition is fast and convenient without the need to use a mouse

Neurography: measuring programs for motor and sensory nerve conduction velocity, myasthenia test, skin reflex test, blink reflex, F-Wave, collision test

SEP: ECG-triggered measurement allows, for example, artefact-free averaging of the SEP during the resting phase of the ECG

7.6.Turning off the Instrument:

1-Turn off the computer
2-Press the power off button for the device

7.7.Warning:

In order to use the Neuropack M1 safely and effectively, and avoid possible dangers caused by improper operation, please read through the user

manual and be sure to be familiar with all functions of the equipment and proper operation procedures before use.
