

Guideline-conform SEP recording in the ICU: Easy, fast and reliable.

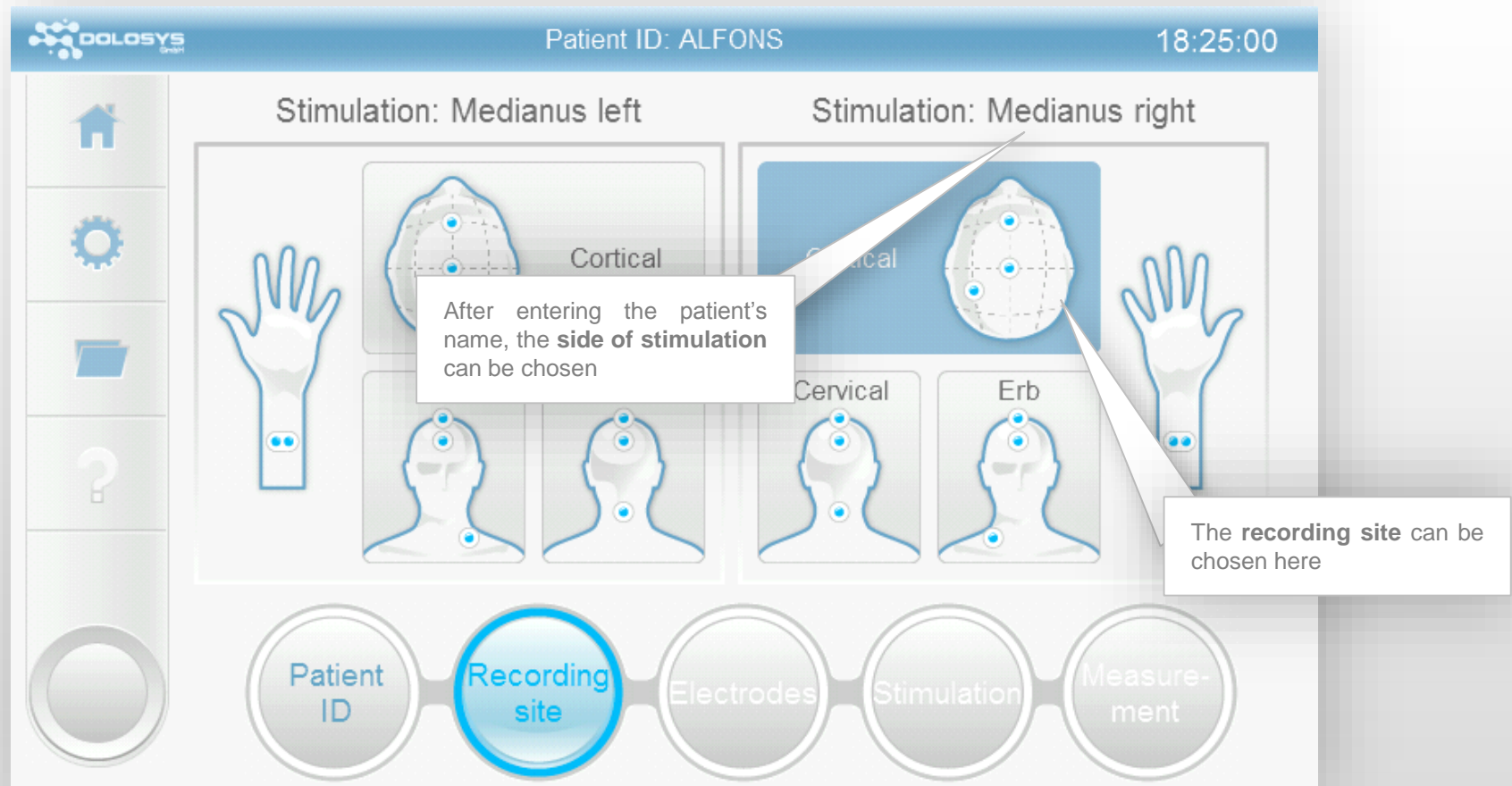
The ERC-ESICM guidelines recommend a recording of the N20 peak of median nerve SEP as a prediction parameter for patients after cardiac arrest*.

Dolosys provides a small stimulation/recording unit that guides the user step by step through the measurement procedures.

[*Sandroni et al. Intensive Care Med. 2014; 40\(12\): 1816-1831](#)

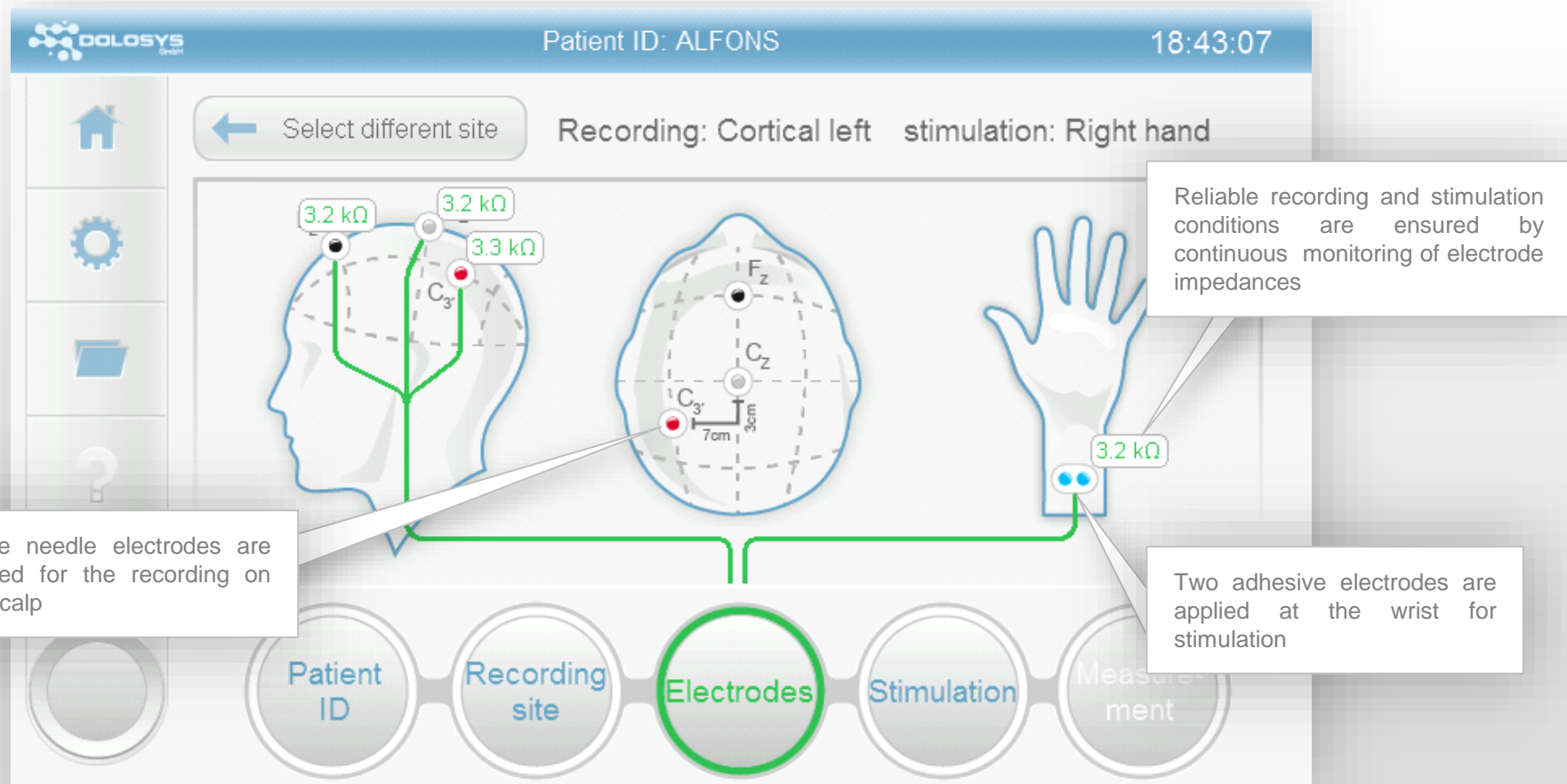


Choosing the recording site



The screenshot displays the Dolosys Paintracker software interface. At the top, the patient ID is 'ALFONS' and the time is '18:25:00'. The interface is divided into two main sections: 'Stimulation: Medianus left' and 'Stimulation: Medianus right'. Each section shows a hand icon and a head icon with electrode placement options: 'Cortical', 'Cervical', and 'Erb'. A callout box points to the 'Cortical' option in the 'Stimulation: Medianus right' section, stating: 'After entering the patient's name, the **side of stimulation** can be chosen'. Another callout box points to the 'Cortical' option in the 'Stimulation: Medianus left' section, stating: 'The **recording site** can be chosen here'. At the bottom, a navigation bar contains five buttons: 'Patient ID', 'Recording site' (highlighted in blue), 'Electrodes', 'Stimulation', and 'Measurement'.

Application of the electrodes



Patient ID: ALFONS 18:43:07

Select different site Recording: Cortical left stimulation: Right hand

3.2 kΩ 3.2 kΩ 3.3 kΩ

3.2 kΩ

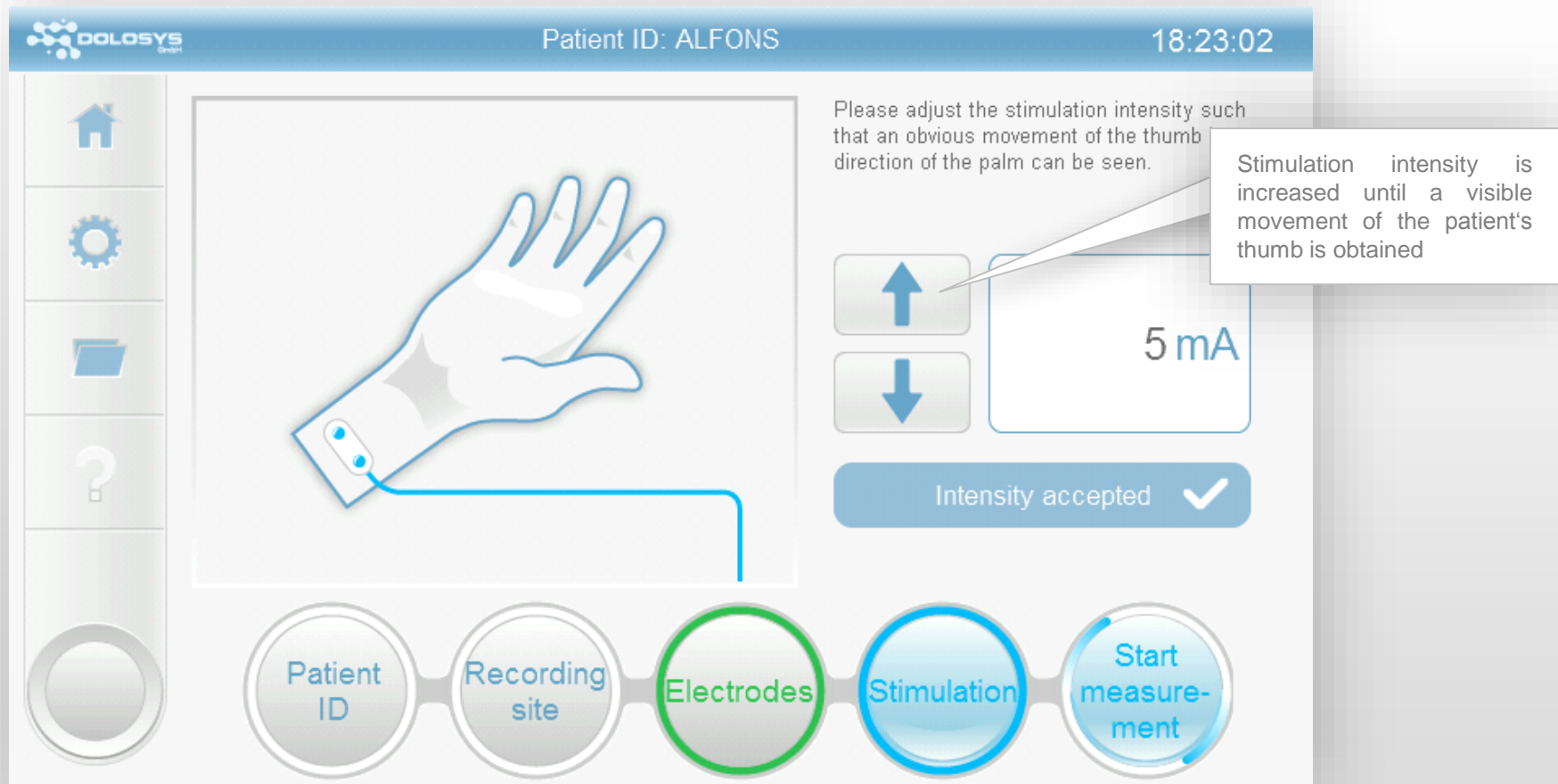
Reliable recording and stimulation conditions are ensured by continuous monitoring of electrode impedances

Three needle electrodes are applied for the recording on the scalp

Two adhesive electrodes are applied at the wrist for stimulation

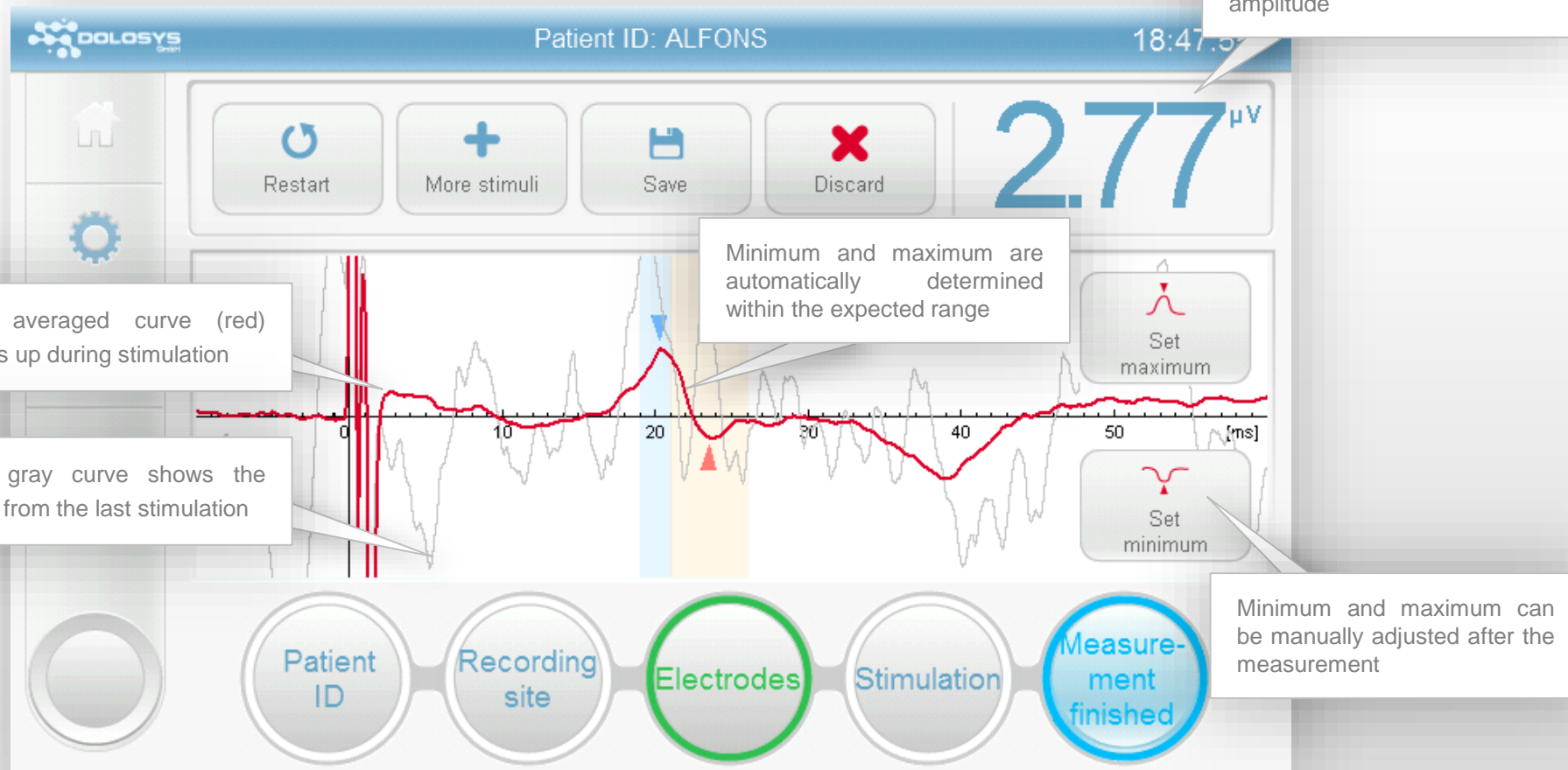
Patient ID Recording site **Electrodes** Stimulation Measurement

Determining the necessary stimulation intensity

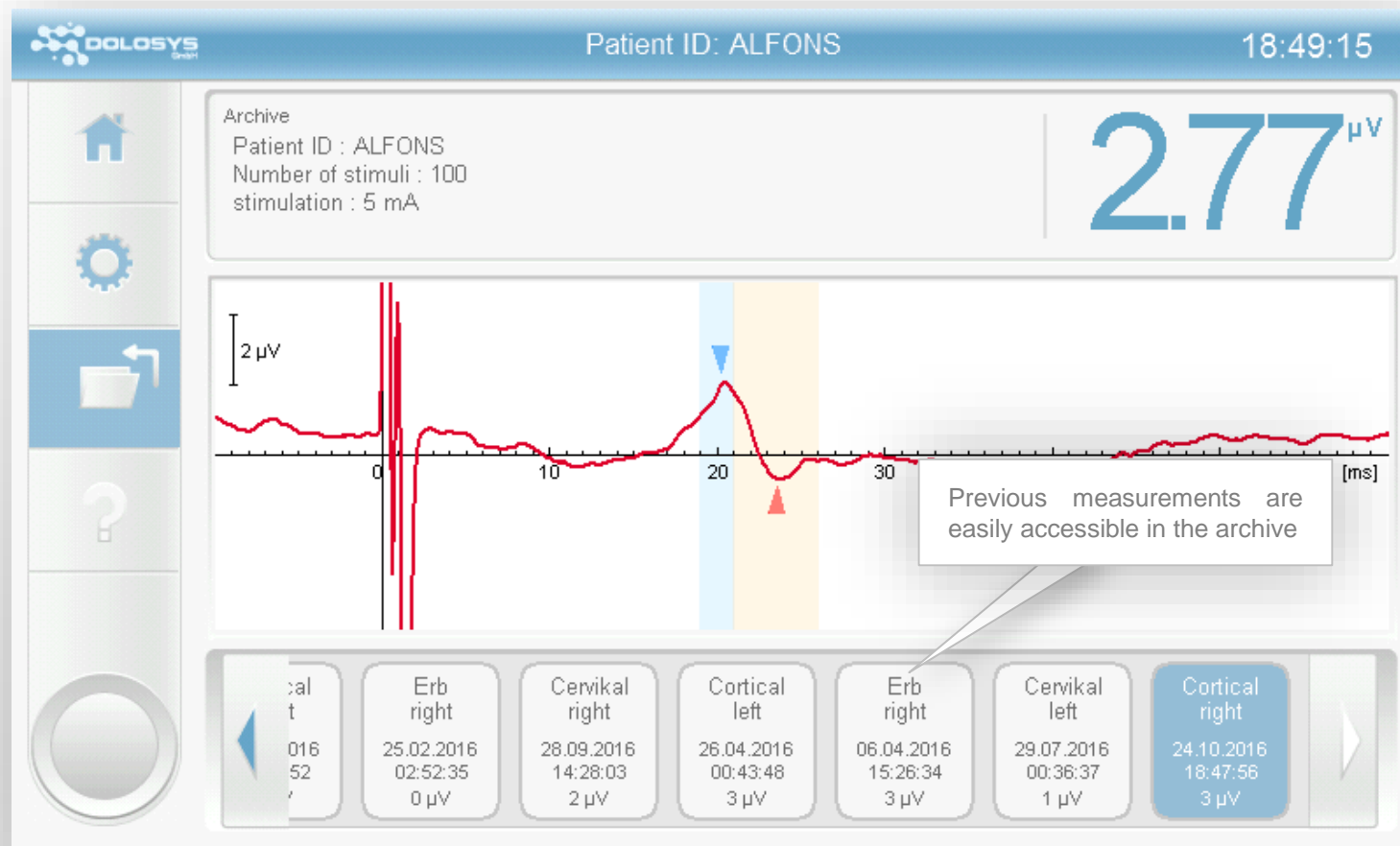


The screenshot displays the software interface for determining stimulation intensity. At the top, it shows "Patient ID: ALFONS" and the time "18:23:02". The main area features a hand diagram with an electrode on the wrist. To the right, a text box instructs: "Please adjust the stimulation intensity such that an obvious movement of the thumb direction of the palm can be seen." Below this, there are up and down arrow buttons, a central display showing "5 mA", and an "Intensity accepted" button with a checkmark. A callout box points to the "5 mA" display with the text: "Stimulation intensity is increased until a visible movement of the patient's thumb is obtained". At the bottom, a navigation bar includes buttons for "Patient ID", "Recording site", "Electrodes" (highlighted in green), "Stimulation", and "Start measurement".

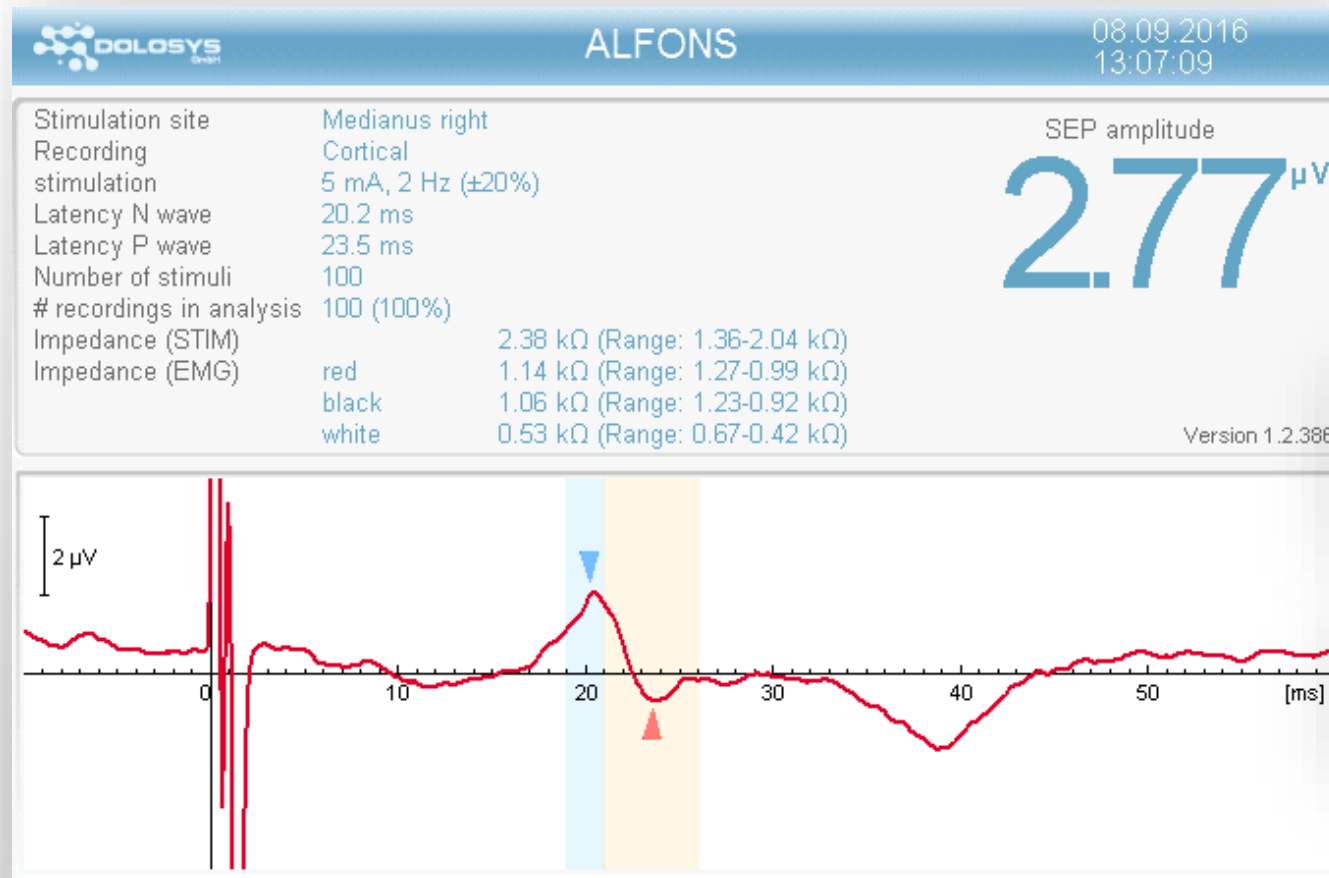
Performing the measurement



Archive data



Measurement report



The results are summarized in a measurement report and saved on the USB drive for transfer to the patient's file

Original recordings can be transferred for remote expert interpretation