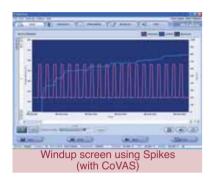
# **Evaluation of Temporal Summation** (Pain Windup)

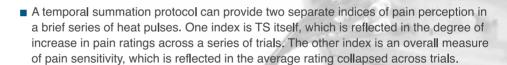


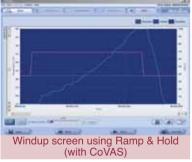
**The PATHWAY** Pain & Sensory Evaluation System is an advanced, computerized, thermal stimulator designed for neurological and pain research. Through rapid and precise thermal stimulation oscillation control, PATHWAY (CHEPS Model) enables the evaluation of Temporal Summation, providing unique information regarding central pain processing mechanisms related to central sensitization.

# Temporal Summation can be an important component of a thermal sensory evaluation protocol:



- Exaggerated temporal summation (TS) of pain characterizes several chronic pain disorders, suggesting that mechanisms supporting TS may be involved in the onset or maintenance of clinical pain. Assessment of TS can help characterize the perceptual disturbances experienced by these patients.
- Temporal summation of pain is the most widely applicable quantitative sensory testing method that invokes neural mechanisms related to central sensitization. Central sensitization is believed to be an important determinant of many chronic pain conditions; therefore, technology/protocols that simulate such processes are particularly important.
- Temporal summation can be an important outcome measure in clinical trials. If a patient displays enhanced TS and if TS reflects some of the neurochemical processes underlying central sensitization, then effective treatments would be expected to reverse the condition.





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#### Medoc Advanced Medical Systems, U.S. • Compass Medical Technologies, Inc

1502 West Highway 54 - Suite 404 Durham, North Carolina 27707 phone: 919.402.9600 • fax: 919.402.9607 • medoc@mindspring.com

## Medoc Ltd. Advanced Medical Systems • World Headquarters

1 Ha'Dekel St. PO.Box 423 Ramat Yishai, Israel 30095

phone: +972-4-903.8800 • fax: +972-4-903.8808 • medoc@medoc-web.com

#### **EU Authorized Representative** CEpartner4U BV

Esdoornlaan 13 3951 DB Maarn, The Netherlands, office@CEpartner4U.nl phone: +31-343-442.524 • mobile: +31-6-516-536.26 • fax: +31-343-442.162