

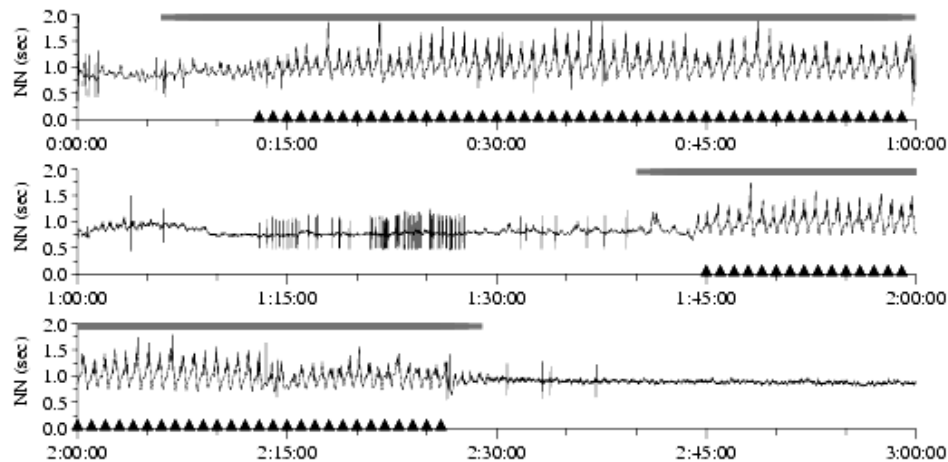


HOLTER

KCI Holter Analyzer Software

Sleep Apnea Detection

- ❖ Developed as a screening tool to assess apneic breathing and relate apneas to cardiac arrhythmias.
- ❖ Screening for Sleep Apnea during a standard 24-hour holter scan allows the practitioner to
 - Refer only those patients with documented increased probability of Sleep Apnea for high-priced, overnight polysomnography
 - Identify patients who might otherwise go undiagnosed
- ❖ Based on detection of the periodic oscillations in cardiac interbeat intervals often associated with prolonged cycles of sleep apnea
 - These cycles tend to oscillate at a frequency of between 0.01 and 0.04 Hz
 - Are a distinctive feature of OSA not found during normal respiration



It has been shown that the KCI Holter Analyzer software model is able to detect prolonged episodes of high-density OSA from single-lead electrocardiograms with a high degree of accuracy, identifying both patients with OSA as well as determining the onset and offset of prolonged high-density OSA. (Mietus, et al, 2000)

In addition, the KCI Holter Analyzer software model is able to quantify both the amplitude of OSA heart rate oscillations and their frequencies. (Mietus, et al, 2000)

Used in conjunction with a standard 24-hour Holter study, the KCI Holter Analyzer software provides a simplified, unattended, ambulatory sleep-monitoring device for the investigation of OSA that would allow the patient to be studied at home, rather than in the sleep laboratory (Chesson 1997).

Please call us at (800) 276-0234 or email us at sales@kcitechnology.com for more information.