

SLEEPVIEW[®] BY MIDMARK



HST
Home Sleep Test



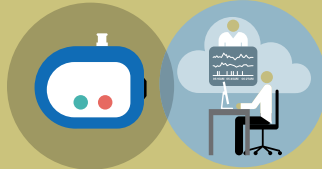
Introducing SleepView®. Better for your patients, designed for your practice.

Home sleep testing (HST) brings the diagnosis and management of OSA to the front lines of primary care.

Patients can be tested in the comfort and convenience of their own homes without an observer and with fewer sensors attached to their body. This reduces anxiety, leads to a more natural night of sleep and improves patient acceptance of test protocol.

Reimbursement for Type III Unattended Sleep Test

CMS has found sufficient evidence to support Type III unattended sleep testing devices to aid in the diagnosis of OSA. However, coverage will vary by payor and geographical location. Check with your local payors or visit midmark.com for the latest reimbursement information.



SleepView® Monitor SleepView® Portal

SleepView® provides a monitor for home recording of sleep and a web portal for access to registered polysomnographic technologists and board-certified sleep physicians who provide scoring, professional interpretation and treatment recommendations.

Clinical Validity

The SleepView® Monitor is an FDA-cleared medical device that meets all American Academy of Sleep Medicine (AASM) and CMS guidelines for a Type III Home Sleep Test. It simultaneously records seven channels and is based on polysomnography (PSG) technology utilizing similar airflow, respiratory effort, pulse oximetry and body position sensors.

In a study involving 100 patients, the SleepView® scoring algorithm was shown to be 91% accurate in detecting respiratory events and calculating apnea hypopnea index (AHI) when directly compared to 14-channel PSG scoring.¹⁰



What is Sleep Apnea?

Sleep apnea is the repeated interruption of normal breathing during sleep. Obstructive sleep apnea (OSA) is the most common type of breathing-related sleep disorder. In patients with OSA, the airway collapses, temporarily restricting airflow to the lungs.

A GROWING CLINICAL PROBLEM

Sleep disorders affect millions of people and are associated with serious health consequences and diminished daily functionality. Unfortunately, 80 to 90% of adults with OSA remain undiagnosed and untreated.¹ But the good news is that OSA is relatively easy to diagnose, and effective treatment is available.

Why is OSA still such a problem?

- Limited awareness of OSA and its comorbid relationships
- Patient anxiety and resistance to overnight sleep labs
- High cost and limited access to in-lab testing facilities

In 2009, mindful of these factors, the Centers for Medicare and Medicaid Services (CMS) approved coverage at the national level for unattended sleep testing devices whether used inside or outside of a sleep lab facility.

OSA is linked to major chronic diseases...

Stroke²



Obesity^{3,4}



Congestive Heart Failure⁵



Type II Diabetes⁶



Coronary Heart Disease⁷



Hypertension⁸



Prevalence of sleep disordered breathing among medical conditions



20% of all serious car crash injuries are associated with driver sleepiness.⁹

The SleepView[®] Workflow

The SleepView[®] Monitor and SleepViewSM Portal work together, offering a holistic approach to the testing, diagnosis and management of patients with OSA.

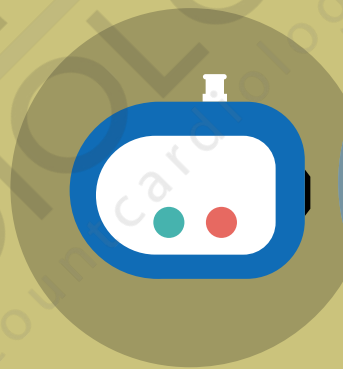
- 1 Suspecting OSA, physician interviews patient about sleep health and medical history to determine candidacy for home sleep testing.



- 2 Physician orders home sleep test study, prepares monitor and instructs patient on proper setup and use of sleep monitor.



- 6 Follow-up visit with patient to review test results, treatment recommendations and long-term management, ensuring treatment effectiveness.



SleepView[®] Monitor



SleepViewSM Portal

Portable Monitor Report	
Study ID:	10000000000000000000
Study Name:	Home Sleep Test
Study Date:	10/10/2010
Study Time:	10:00 AM - 10:00 PM
Study Location:	Home
Study Status:	Completed
Study Type:	Home Sleep Test
Study Category:	Respiratory
Study Sub-category:	OSA
Study Description:	Home Sleep Test for OSA
Study Notes:	Home Sleep Test for OSA
Study Results:	Home Sleep Test for OSA
Study Summary:	Home Sleep Test for OSA
Study Details:	Home Sleep Test for OSA
Study Data:	Home Sleep Test for OSA
Study Analysis:	Home Sleep Test for OSA
Study Interpretation:	Home Sleep Test for OSA
Study Recommendations:	Home Sleep Test for OSA
Study Follow-up:	Home Sleep Test for OSA
Study Contact:	Home Sleep Test for OSA
Study Footer:	Home Sleep Test for OSA



- 5 Board-certified sleep physician interprets sleep study and makes recommendation for treatment. Prescribing physician is notified when sleep study report is ready.

3 Patient leaves office same day prepared to self-administer home sleep test in the comfort and convenience of his own home and bed.



4 Patient returns sleep study kit to physician's office. Sleep test data is checked into portal for sleep lab quality scoring by a registered polysomnographic technologist.



The SleepViewSM Portal Advantage

The SleepViewSM Portal is a secure, HIPAA compliant, web-based tool that offers:

- Scoring of sleep study by registered polysomnographic technologist
- Interpretation and recommendation of treatment from board-certified sleep physician licensed in your state
- Consistent and timely delivery of professional sleep study reports that can be printed or easily saved into most EMRs or EHRs
- Centralized management of patient sleep studies and reports stored in a private and safeguarded database
- Access to patient education, office visit screening tools (Epworth and Mallampati Scales, STOP-BANG Chart and sleep questionnaire) and patient instructions for home sleep testing
- Complimentary software upgrades and support for SleepViewSM Portal
- Webinar training for initial setup and use of the SleepViewTM system

Note: Benefits provided through the SleepViewSM Portal are billed on a per-study basis.

midmarksleepview.com



RETHINK THE CLINICAL SPACE

At the core of Midmark is a new way to think about caregiver/patient interaction and the delivery of efficient patient care. We are dedicated to working together with you to redefine the future of the clinical space.

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SleepView® Monitor Kit Contents:

- a) SleepView® Monitor
- b) USB Data Cable
- c) Carry Case
- d) Pulse OX Sensor
- e) Effort Belt
- f) DVD Patient Instructions
- g) SleepView® Manager Software
- h) Sleep Apnea Brochure (pack of 10)
- i) Sleep Apnea Screening Tools (pack of 5)
- j) User's Guide (not shown)
- k) AAA Alkaline Battery (qty = 4)
- l) Nasal Cannula (qty = 4)
- m) How to Use SleepView® Patient Instructions (qty = 4)
- n) Post Sleep Test Questionnaire (qty = 4)

Items (k) through (n) are part of a disposable sleep study kit.

Specifications:

Sleep Device Type: Type III

Channel Count: 7

- Heart rate
- Pulse oximetry
- Respiratory airflow
- Respiratory effort (chest)
- Snore
- Body position
- Thermal airflow

Dimensions: 3" x 2.2" x 0.7"

Weight: 2 oz.

Memory: 1 GB internal flash
Allows multiple-night recording

Device to PC Download Time:
2 minutes

Power: 1 AAA battery
Powers 1 sleep study

Programmable ON/OFF Time:
Automatic turn on of device
simplifies patient responsibility

Indicator Lights:
Visual indication and reassurance
of proper sensor connection/function

Smart Check:
Allows patient verification of good
test before returning monitor

Ordering Information

- 4-000-0600 SleepView® Monitor Kit
- 2-000-0610 Disposable Sleep Study Kit (contains 10 kits)
- 2-000-0625 Disposable Sleep Study Kit (contains 25 kits)
- 2-000-0645 Thermistor
- 2-000-0680 Sleep Apnea Brochure (pack of 50)

Minimum System Requirements

- Windows® XP SP3, Vista or 7
- Internet Explorer® 7.0 or Firefox® 5.0
- Microsoft® Word 2003
- 2.4 GHz processor
- 1 GB of RAM
- 2 GB available hard disk space
- CD-ROM drive
- USB port

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Footnotes

- 1 American Academy of Sleep Medicine. Sleep Apnea Fact Sheet 2008. www.aasmnet.org/Resources
- 2 NorAdina – Singapore Med J 2006
- 3 Strohl KP, Redline S. Recognition of obstructive sleep apnea. Am J Respir Crit Care Med 1996; 154:279–86
- 4 Guilleminault C, Tikian A, Dement W. The sleep apnea syndromes. Annu Rev Med 1976; 27:465–84
- 5 Jiang – Journal of Cardiac Failure 2007
- 6 Einhorn – Endocr Pract. 2007
- 7 Moeë –Am J Respir Crit Care Med 2001
- 8 Nieto – JAMA 2000
- 9 Institute of Medicine. Sleep disorders and sleep deprivation: an unmet public health problem. Washington, DC: The National Academies Press; 2006. www.iom.edu/cms/3740/23160/33668.aspx
- 10 Foldvary-Schaefer, Nancy D.O., Kaw, Roop M.D. and Collop, Nancy M.D. – Accuracy of automated respiratory scoring algorithm using portable monitoring

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Midmark is an ISO 13485 and ISO 9001 Certified Company
For more information or a demonstration, contact your Midmark dealer or call: 1-800-MIDMARK Fax: 1-800-365-8631
Outside the U.S.A. call: 1-937-526-3662 Fax: 1-937-526-8392 or visit our website at midmark.com

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Because we care.