

the difference is clear

OASYS with Vitalograph asma-1 usb monitor

Occupational Asthma expert SYStem

Objective methods of diagnosis are vital in confirming cases of occupational asthma and serial tests provide a low cost and effective solution.

What is OASYS?

OASYS (Occupational Asthma expert SYStem) is free to use software that has proven to be a sensitive and expert tool for detecting work related changes in peak expiratory flow readings. OASYS has been developed by Midlands Thoracic Society and is available for download from their website www.occupationalasthma.com. This simple to use system combats many of the difficulties associated with visual analysis of records: it also supports effective asthma management and provides validated evidence for occupational asthma related insurance claims.

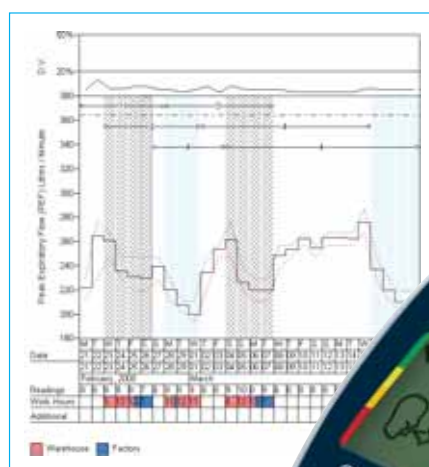
OASYS has been developed by world leaders in occupational medicine and provides:

- Automated data capture, archiving and analysis
- Accurate and reliable asma-1 usb data download
- Validated Work Effect Index of work related asthma

How does OASYS work?

OASYS is a computer diagnostic occupational asthma expert system which assesses the probability of an individual having work-related asthma.

Vitalograph is a world leading provider of outstanding quality respiratory diagnostic devices, clinical trial services and medical equipment servicing. With a pioneering heritage of excellence spanning half a century Vitalograph continues to make valuable contributions to effective medical care and enhanced quality of life.



The OASYS program scores each rest-work-rest or work-rest-work complex in a serial peak flow record between 1 and 4.

OASYS Score	Probability of Occupational Asthma
1	< 1%
2	1% - 49%
3	50% - 99%
4	> 99%

OASYS consists of the following modules:

- A module for allowing entry of PEF readings recorded by the patient for either manual entry of PEF data or automatic capture of PEF data from the Vitalograph asma-1 usb respiratory monitor
- A module to plot these recordings in a graph format. These graphs include a plot of mean PEF for each two hour period separated into work/rest days and plots of daily maximum, minimum and mean readings again divided into work and rest periods
- A module to calculate scores indicating how likely it is that an occupational asthma diagnosis will be supported by this data

Vitalograph are pleased to support this work and have developed an interface to allow use of the asma-1 with OASYS. A donation from the sale of each asma-1 device used with the OASYS web-based software will be used to fund ongoing research in the Midlands Thoracic Society, United Kingdom.



UK Sales
Vitalograph Ltd.
 Maids Moreton Buckingham
 MK18 1SW England
 Tel: 01280 827110
 Fax: 01280 823302
 e-mail: sales@vitalograph.co.uk
 www.vitalograph.co.uk

Export Sales
Vitalograph Ltd.
 Maids Moreton Buckingham
 MK18 1SW England
 Tel: +44 1280 827120
 Fax: +44 1280 823302
 e-mail: sales@vitalograph.co.uk
 www.vitalograph.eu

Vitalograph GmbH
 Rellinger Straße 64a
 20257 Hamburg
 Germany
 Tel: (040) 547391-0
 Fax: (040) 547391-40
 e-mail: info@vitalograph.de
 www.vitalograph.de

Vitalograph Inc.
 13310 West 99th Street
 Lenexa
 Kansas 66215 USA
 Tel: (913) 888 4221
 Fax: (913) 888 4259
 e-mail: vitcs@vitalograph.com
 www.vitalograph.com

Vitalograph (Ireland) Ltd.
 Gort Road Business Park
 Ennis
 Co Clare Ireland
 Tel: (065) 6864100
 Fax: (065) 6829289
 e-mail: sales@vitalograph.ie
 www.vitalograph.ie

Technical Specification for asma-1 usb:

Model Number: 4000

Product: Respiratory Monitor

Parameters Displayed: PEF & FEV₁

Accuracy:

Better than PEF +/-5%, FEV₁ +/-3%

Sensor: Stator rotor

Flow Impedance:

Better than 0.15 kPa/L/s at 14 L/s

Power Supply: AAA batteries

Size: 113 x 63 x 48mm

Weight: 55g

Performance Standards:

ISO 23747:2007, ISO 26782:2009
 ATS/ ERS 2005

Operating Temperature:

17 - 37°C

Safety Standards:

EN ISO 60601-1:2005

Medical Safety Standard:

Medical Devices Directive 93/42/EEC
 (as amended)

Designed & Manufactured Under:

ISO 13485:2003, FDA 21CFR820 and CMDR

Ordering Info:

OASYS software:

<http://www.occupationalasthma.com/oasys.aspx>

40448 4000 Respiratory Monitor asma-1™ usb no software

28350 2820 BVF Bacterial/Viral Filters (50)

20242 2024 SafeTway® mouthpieces (200)

20980 2024 SafeTway® Mini mouthpieces (50)

20303 2030 Noseclips disposable (200)

Selected References:

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www.vitalograph.co.uk

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