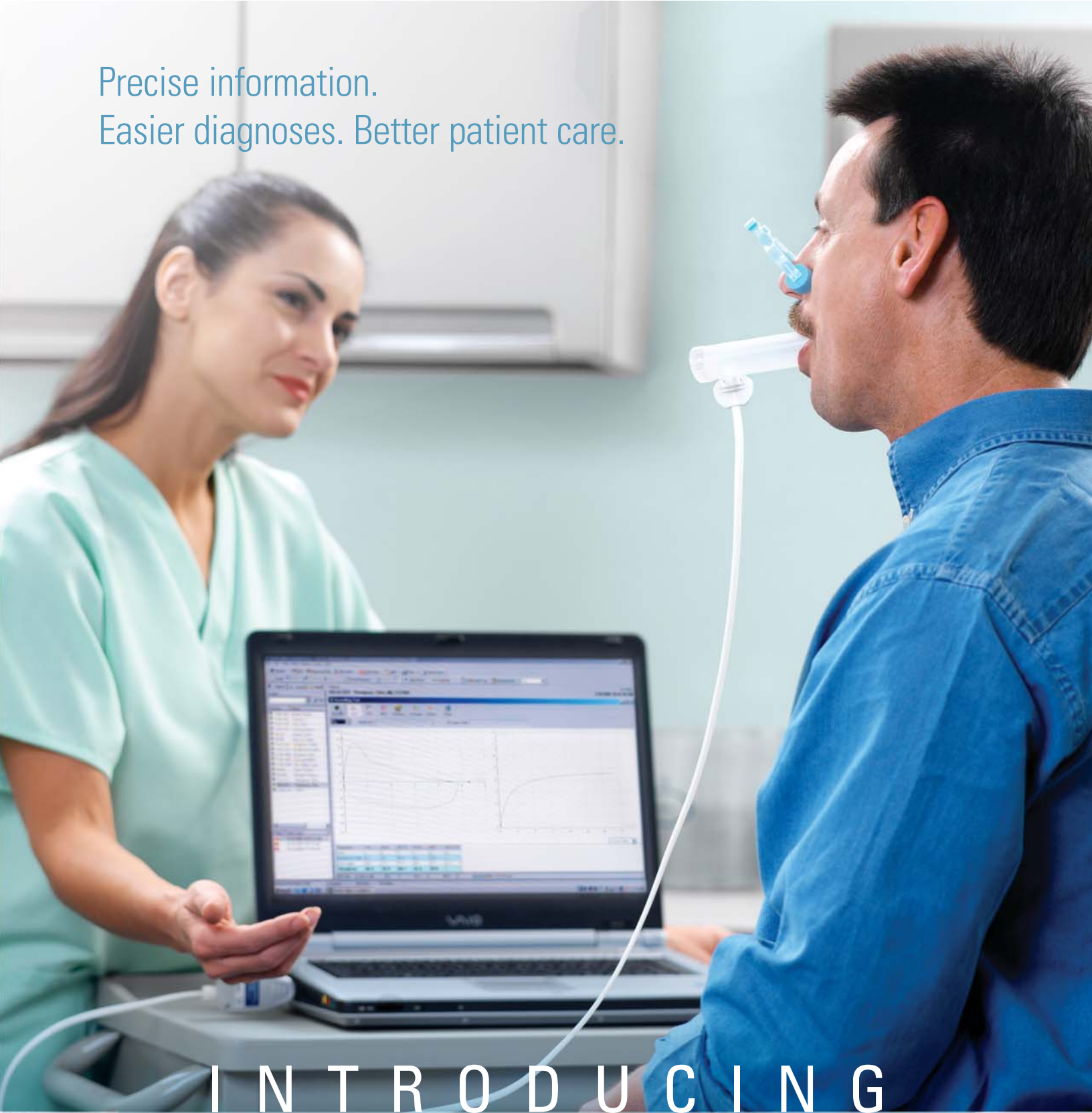Precise information.
Easier diagnoses. Better patient care.

INTRODUCING

The Welch Allyn SpiroPerfect™ PC-Based Spirometer

WelchAllyn®

Advancing Frontline Care™

Accurate, integrated patient information at your fingertips

In seconds, you and your staff can see and compare accurate results from pulmonary function tests with the friendly, featherweight Welch Allyn SpiroPerfect™ PC-Based Spirometer. You can clearly evaluate pulmonary obstruction or restriction, increase success rates of patients who are undergoing smoking cessation, show progress, and help pediatric patients comply with test procedures.
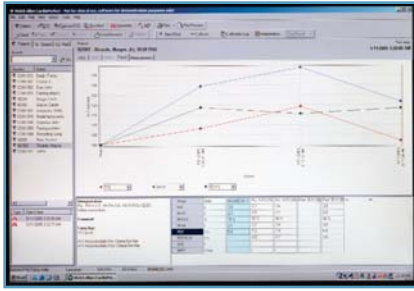
- Fast, reliable pre- and post-bronchodilator FVC, SVC and MVV testing with automatic interpretation and reversibility analysis

  > View real-time Flow/Volume Loop and Volume/Time graphs

  > Instantly verify quality and variability of proper test performance

  > Motivate children with incentive graphic—for pediatric patient coaching

  > Reduce risk of cross contamination with single-use disposable transducers

  > Select single and multiple flow calibration protocols

- Easily monitor, review, store and print on your existing computer with the Welch Allyn CardioPerfect™ Workstation

  > Choose from multiple predicted norms and report formats

  > Compare previous tests with the Trending tool

  > Make available to multiple staff via computer network

  > Interface with Electronic Medical Records or patient management systems for onsite or offsite review of key data. Telemedicine option is available for e-mail transfer.

Integrated. Customizable. Intuitive.

1. **Patient records**
2. **Identify type and date**
3. **Automatic interpretation**
4. **Customizable parameters**
5. **Display real time curves**

1. Store, retrieve, print or edit **patient records** using the Welch Allyn CardioPerfect Workstation database.

2. Easily **identify** all diagnostic test types and dates each procedure was performed.

3. **Automatic interpretation** follows ATS Interpretative Strategies and test reproducibility criteria.

4. See a quick snapshot of patient results. Select from 6 parameters to show real-time testing and summary. View measurement tables with 19 fully **customizable parameters**.

5. **Display real time curves** as Flow/Volume, Volume/Time, Flow/Time or Pre, Post. All efforts or best effort can be displayed on the same graph for easy comparison.

Compare tests done on different days and clearly see progress. View three parameters at once as a percentage of predictive values or of absolute value.

Enjoy the convenience of our accurate patented **Disposable Flow Transducers**. Designed for use by an adult or child, these single-use disposables minimize the risk of cross contamination. No sterilization, no cleanup—just safety and savings.

Coach, motivate and make testing more fun. Because children understand how to help the fireman put out the fire, the **Incentive Screen** helps children understand your goals and comply with testing protocols.

Get connected to your EMR through Welch Allyn's CardioPerfect™ Workstation Software

Welch Allyn SpiroPerfect™ PC-Based Spirometer

Welch Allyn CardioPerfect™ Workstation Software

Transfers Test Data to Electronic Medical Records Systems

The Welch Allyn SpiroPerfect™ PC-Based Spirometer downloads information to the Welch Allyn CardioPerfect™ Workstation Software, which provides paperless efficiency as well as connectivity to many leading EMR systems. This software puts patient records from a variety of Welch Allyn diagnostic instruments at your fingertips, giving you the ability to store, access, review, compare and edit diagnostic test data from any computer on your network.

- Retrieve records with the touch of a key, and review and edit right on the screen
- Store thousands of records with ease
- Access information from your exam rooms, your office, or at home
- Fax or e-mail reports directly for consults

- Add additional cardiopulmonary diagnostic testing devices like ECG, ABPM, or Holter as your practice grows
- Copy and paste spirographs into Microsoft® Word
- Integrate with other patient information systems
- Uses passwords to assign/limit tasks so that data integrity is maintained

Welch Allyn SpiroPerfect™ PC-Based Spirometer

Technical Specifications

SpiroPerfect	Computer-based full diagnostic spirometer
Tests	FVC, SVC, MVV, Pre- and Post-BD
Sensor Type	Pneumotach
Power Equipment	None, obtained from USB port
Accuracy	Meets or exceeds 1994 ATS standard
Reproducibility	Meets or exceeds 1994 ATS standard
Volume Range	0-14 L
Flow Range	±14 L/sec
Software	Microsoft® Windows® 2000 and XP compatible
Predictive Norms	Berglund 1963, Crapo 1981, Composite, Dockery 1983, ECCS/Quanjer 1993, Falaschetti 1995, Gulsvik 2001, Hedenström 1986, Hsu 1979, Knudson 1976, Koillinen 1998, Kory 1961, Morris 1971, NHANES III 1999 [Default], Polgar 1971, Schoenberg 1978, Solymar 1980, Viljanen 1981, Zapletal 1969
	Additional predictive norms can be added upon customer request
Interpretation	1991 ATS Interpretation Standards. Automatic can be disabled. Manual interpretation available. Lung age calculation
Reports	Multiple report templates including FVC, SVC, MVV, measurement, and trend
Incentive Graphic	Fireman
Parameters	FVC, FIVC, FIV1, FIV1%, FEV0.5, FEV1, FEV2, FEV3, FEV5, FEV6, FEV0.5%, FEV1%, FEV2%, FEV3%, FEV5%, FEV6%, PEF, FEF25 (MEF75), FEF50 (MEF50), FEF75 (MEF25), FEF0.2-1.2, FEF25-75, FEF75-85, PIF, FIF50, FEF50/FIF50, FET SVC, ERV, IRV, VT, IC, BF, MV, Tin, Tex, Tin/Tex

Quality Checks	Effort Acceptability and Test Reproducibility checks
	Audio and visual incentive for assistance in coaching patients
Connectivity	Part of the CardioPerfect™ Diagnostic Suite
	Export compatible with most electronic medical records programs
	Available in multiuser network
	Telemedicine option for e-mail transfer

Minimum Computer Requirements (Recommended)

Processor	Intel® Pentium® III (Pentium IV or higher)
Hard Drive	2 GB (4 GB or more)
RAM	256 MB (512 MB or higher)
Monitor Resolution	(1024 x 768 true color)
Operating Systems	Microsoft® Windows® 2000 or XP
CD-ROM	Required for installation
Printers	Color printer recommended. Compatible with inkjet and laser printers. Laser printers require a minimum of 2 MB of memory

Performance Standards

SpiroPerfect meets or exceeds the following standards:

ATS—American Thoracic Society, Standardization of Spirometry, 1994 Update

ERS—European Respiratory Society

NIOSH—National Institute for Occupational Safety and Health

OSHA—Occupational Safety and Health Administration

SSD—Social Security Disability

ECCS—European Community for Coal & Steel

Ordering Information

SPIRO-S	SpiroPerfect™ PC-Based Spirometer Module: PC Spirometer Module with 3 L calibration syringe. Includes: sensor, pressure tubing, 4 flow transducers, electronic operator's manual, Welch Allyn CardioPerfect™ Workstation Software CD, 2 training posters, and quick reference card
SPIRO-NS	SpiroPerfect™ PC-Based Spirometer Module: PC Spirometer Module without 3 L calibration syringe. Includes sensor, pressure tubing, 4 flow transducers, electronic operator's manual, Welch Allyn CardioPerfect™ Workstation Software CD, 2 training posters, and quick reference card
703418	Disposable Spirometer Flow Transducer, 25 pk
703419	Disposable Spirometer Flow Transducer, 100 pk
703415	Pressure Tubing, 2 m
100680	Nose Clip (25 pk)
703480	Calibration Syringe (3 liters)

CPT Codes

94010	Basic Spirometry—Spirometry including graphic record, total and timed vital capacity, expiratory flow rate measurement(s), with or without maximal voluntary ventilation
94060	Pre- and Post-BD—Bronchospasm evaluation: spirometry as in 94010, before and after bronchodilator (aerosol or parental), or before and after exercise

To learn more about the Welch Allyn SpiroPerfect PC-Based Spirometer or to request a demonstration, contact your Welch Allyn representative. You'll find a solution that not only improves patient care, but provides priceless peace of mind.

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