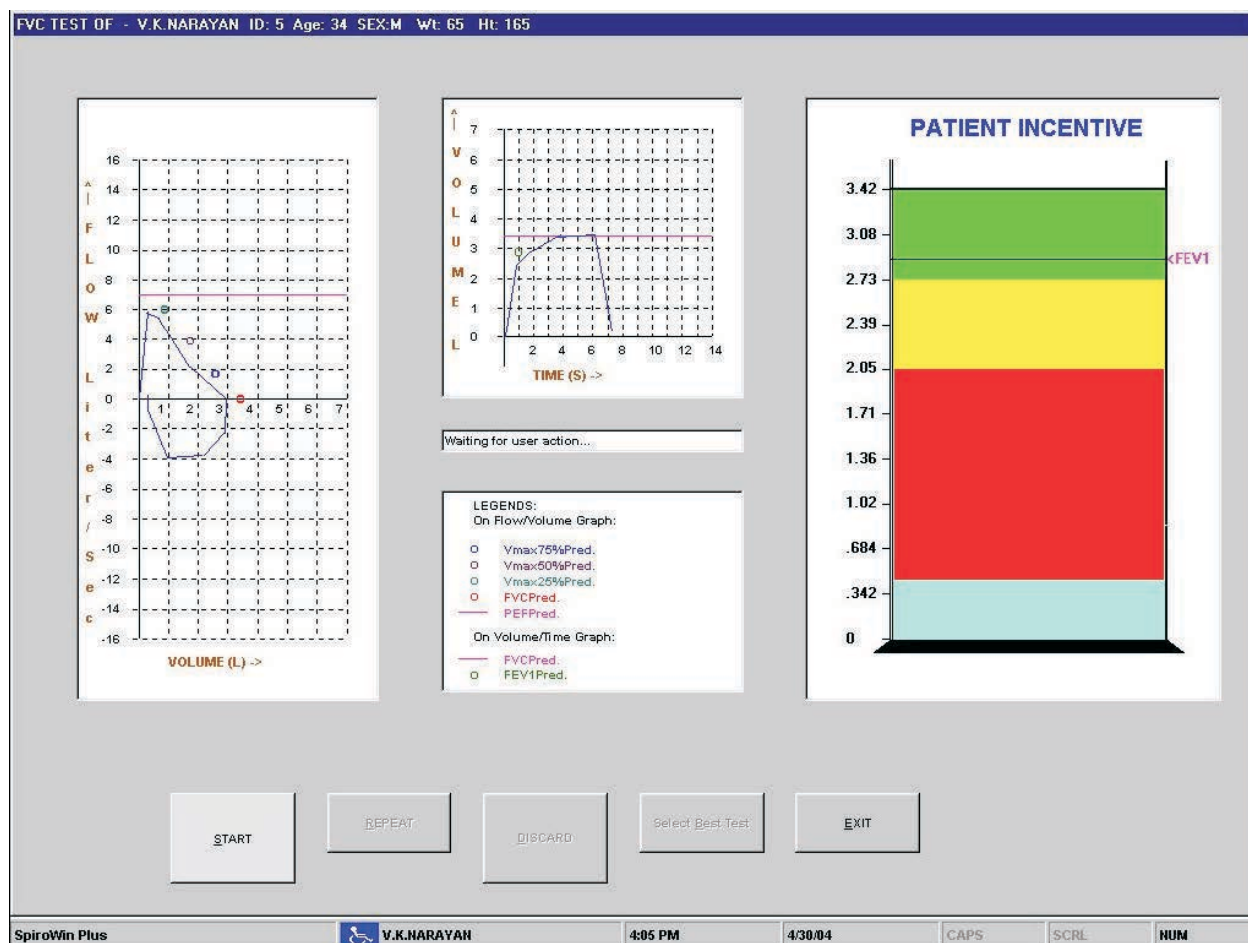




Windows* based Pulmonary Function Analysis System

SpiroWin



SpiroWin is the-state-of-the-art PC Windows* based Pulmonary Function Analysis System with interpretation.

The system is useful to conduct FVC, SVC, MVV tests. It gives exhaustive information in terms of various parameters and an accurate interpretation. It can analyze Medication responses of the pulmonary system of the patient with maximum possible ease of operation. The start of each maneuver is indicated to the patient by a Traffic light system. A unique patient target is incorporated to induce maximal patient effort.

SpiroWin software provides with Automatic / manual best test selection, detailed printing of F/V, V/t graphics, post analysis with overlapping of tests performed in different test sessions, Seven pre-defined and one user definable Predicted values etc. It also provides Internet connectivity with dedicated view software.

SpiroWin can be viewed as a complete system dedicated to provide a simple solution for evaluation of pulmonary function and the effect of medication on the patient.

Windows* based **SpiroWin** software, PC powered Hardware & serial port communication with the **SpiroWin** instrument turns any PC into a full-fledged Pulmonary function Analysis system, with online real time graphs on screen. It gives a **multicolor** / B&W two-page report on A4 size paper. In-built patient database with more than 1000 patients memory helps you keep track of patient history. All at your mouse clicks in a very user-friendly **SpiroWin** software environment.

TECHNICAL SPECIFICATIONS[§]

Instrument Specifications:

Flow meter

Method: Bi-directional digital turbine
Flow Detection: Opto-electronic Semiconductor sensor
Volume Range: 8 liters BTPS
Flow Range: 0.03 – 14 l/s BTPS
Flow resistance: < 7mm of H₂O/l/s @ 12 l/s
Accuracy: ± 3%

User selectable Predicted Values:

ERS93, Knudson83, ITS White, ITS Black, LAM, Barcelona, Indian, User programmable

Test Method

FVC, SVC, MVV tests conducted sequentially/optionally

Database

MSAccess Easy recall of any previous test

Data Acquisition

Data storage: Raw data on HDD.
Interface: RS232C Serial

Internet Connectivity

Remote Review: Dedicated SpiroWinView Software.
Upload Method: Test file sent as e-mail Attachment.

PC Specifications:

OS: Windows*95/98SE/XP
CPU: Intel* Celeron* 455MHz/P4* or better
HDD: 4.3 GB min.
RAM: 32 MB min.
Serial Port: 1 Free serial Port
USB Port: 1 Free USB Port
Printer: Any Windows* compatible Inkjet/LaserJet Printer.

STANDARD ACCESSORIES

SpiroWin Hardware unit – 1 No.
Pneumotch-1 No.
Serial Cable -1 No.
Software CD-1 No.
Pediatric Adapter - 1 No.
Pediatric Mouthpieces - 25 Nos.
Adult Mouthpieces - 25 Nos.

POWER REQUIREMENTS

Voltage 220VAC ± 20VAC
Power Consumption 0.3 A maximum

PHYSICAL CHARACTERISTICS

Instrument Dimensions 50 mm x 100 mm x 25 mm
Approximate Instrument Weight 0.25 kg

ENVIRONMENTAL REQUIREMENTS

Operating and Storage Temperatures 15°C to 45°C
Ambient Relative Humidity 15% to 90%, non-condensing

§ Specifications are subject to change without notice.
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Tests & Results

Pre/Post Medication:

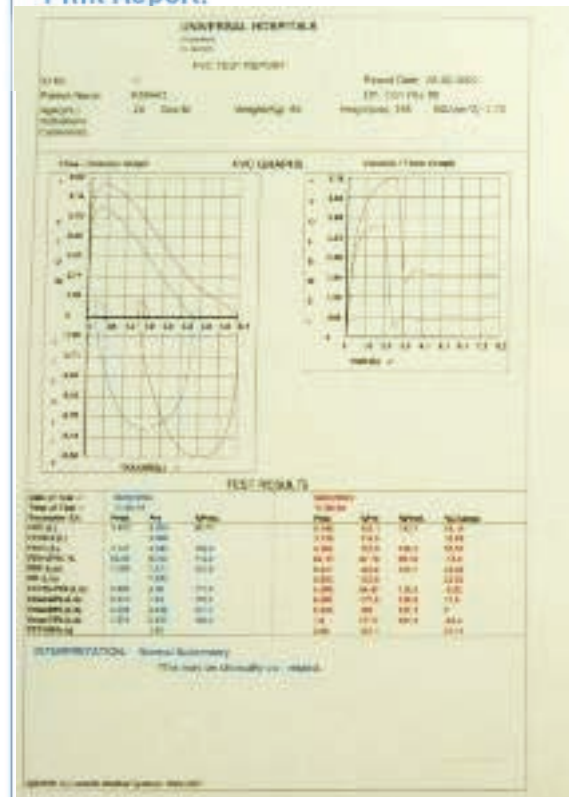
FVC, SVC, MVV,

- FVC • FEV0.5 • FEV1 • PEF • PIF
- FEV1/FVC • FEF 25-75 • FEV1/FVC%
- Vmax25% • Vmax50% • Vmax75%
- FET 100%
- SVC • ERV • IRV • VE • Rf • ti • te
- ti/t.tot • VT/ti
- MVV

Interpretation:

Based User selected or Software selected Best FVC maneuver for both obstruction and/or restriction.

Print Report:



DUE TO OUR CONTINUOUS PRODUCT DEVELOPMENT PROGRAM, THE SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE.

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