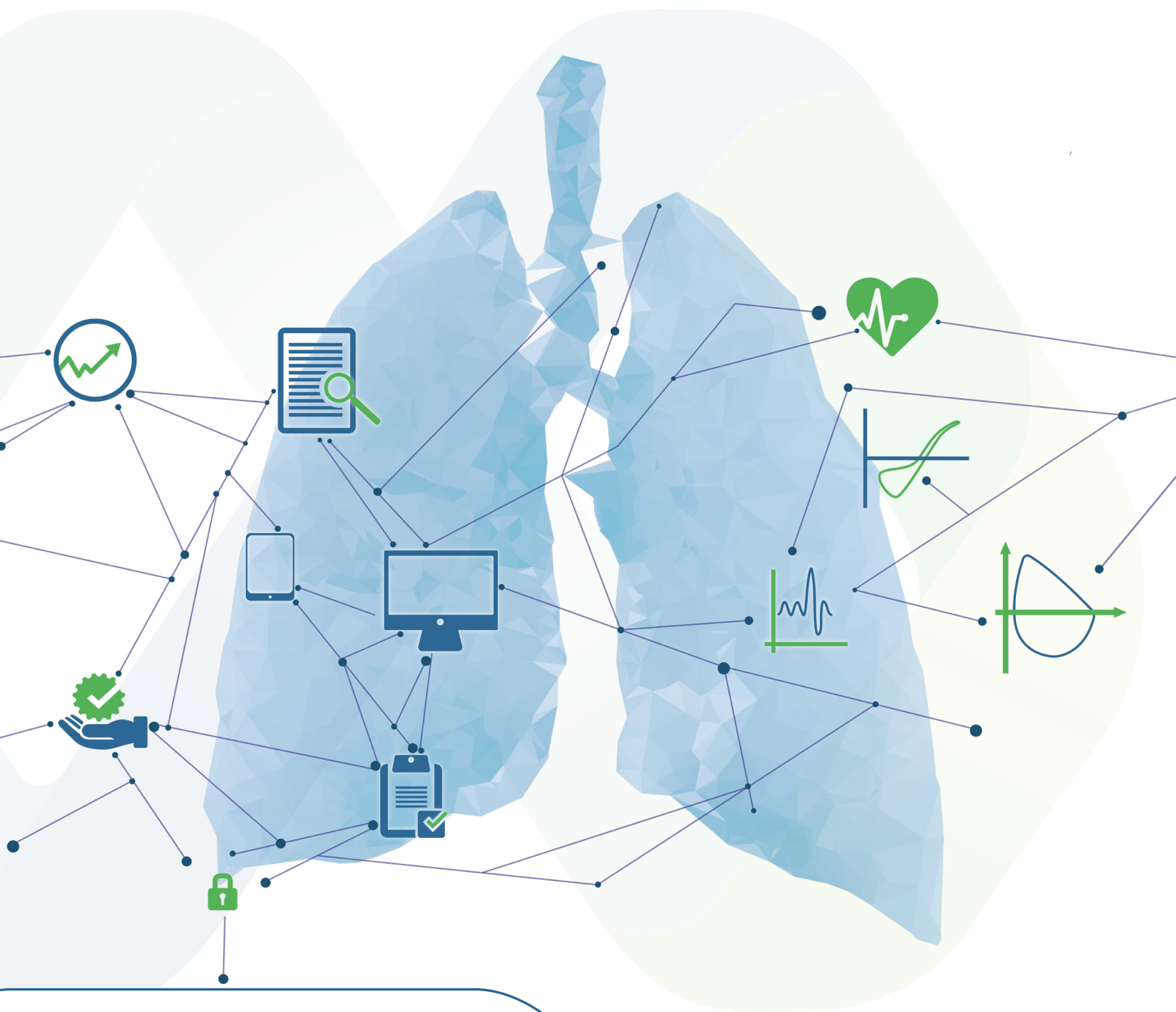




SentrySuite™

Software platform for
intelligent respiratory
diagnostics



SentrySuite™ software 360°- one screen, all in

Quick change to different levels like Pre, Post, etc.

Clear overview about applied medication

Quickly view, print or store reports

Direct access to calibration programs

Available in 18 languages

Switch into Edit Mode



Automated interpretation with a choice of different authors

Quick patient data access

Easily switch between measurement programs

Detailed information about quality and repeatability of the test according to ATS/ERS

All test results in one adjustable table

Color-coded classification bar or grading

All important graphs in one view

Ease-of-use measurement concept

Keep the overview

without switching programs. **All important steps:** calibration, patient data entry, measurements, interpretation and reporting can be navigated **within ONE screen.**

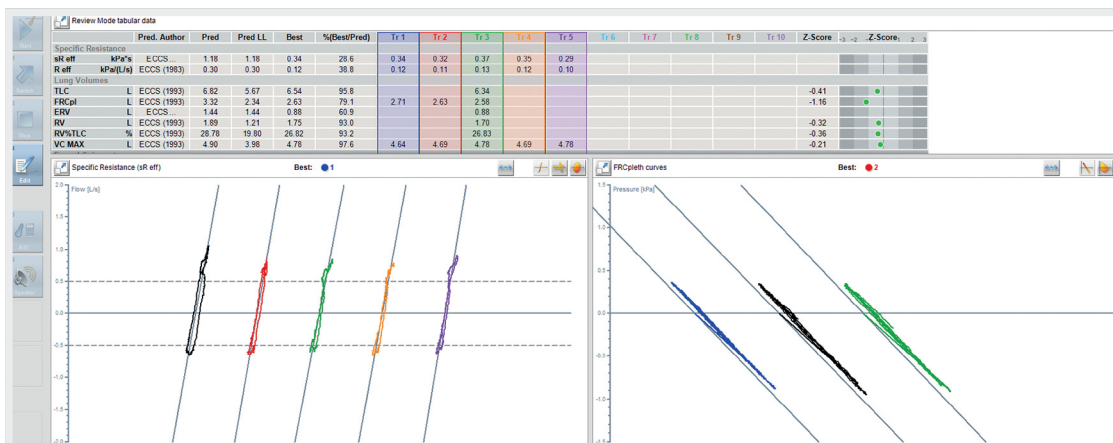
SentrySuite™ supports a comprehensive list of PFT and CPET measurements



The latest **Vyntus™** series are all **powered by SentrySuite™** – from small PC spirometers to high-end PFT to ECG and CPET devices.

All PFT measurement programs show the same graph and table arrangement with **a consistent user interface. Intuitive operation** and quick learning of new measurements are guaranteed.

Body Plethysmography



CO Diffusion SB Real-time



Measurement capabilities

Slow Spirometry

Forced Spirometry

MVV

Bronchial Challenge Testing

Body Plethysmography

FRC N₂ Washout

FRC HE Rebreathing

SB Diffusion Real-time

SB Diffusion Intrabreath

NO Diffusion

Rocc

Impulse Oscillometry (IOS)

Rhinomanometry

P0.1

MIP/MEP

SNIP

Compliance

Resting ECG

Stress ECG

CPET breath-by-breath

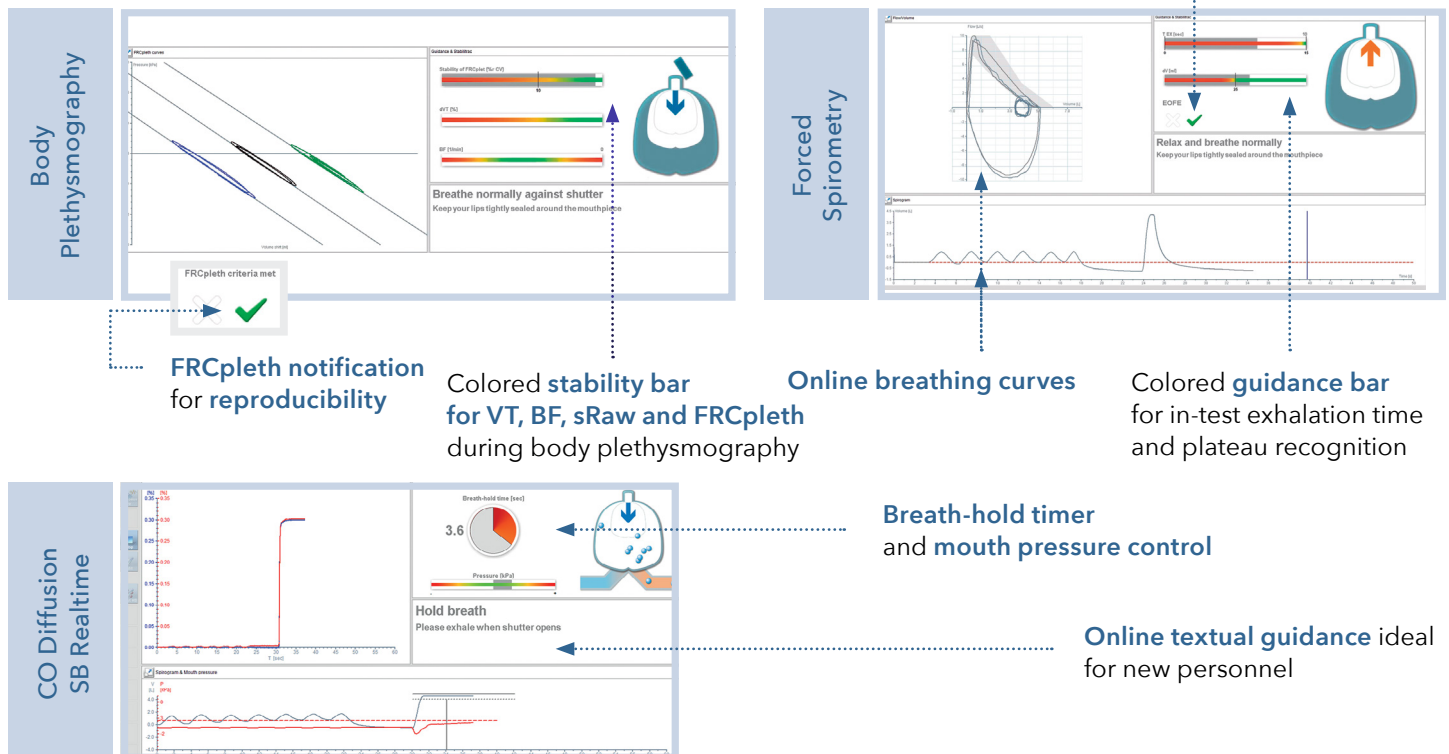
CPET mixing chamber

CPET High/Low FIO₂

CPET Canopy

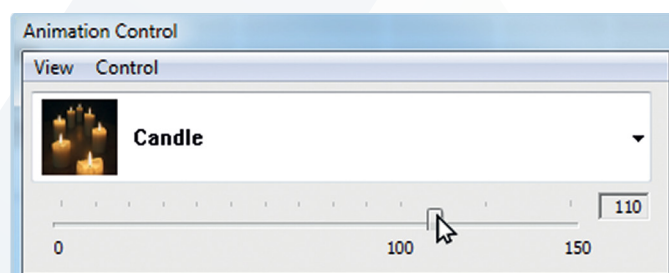
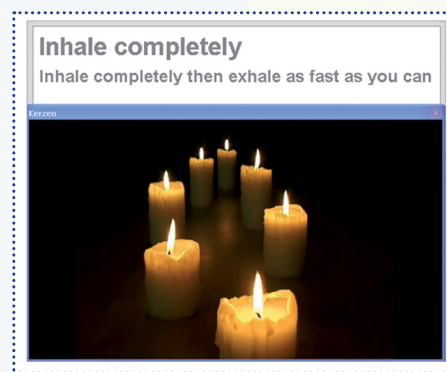
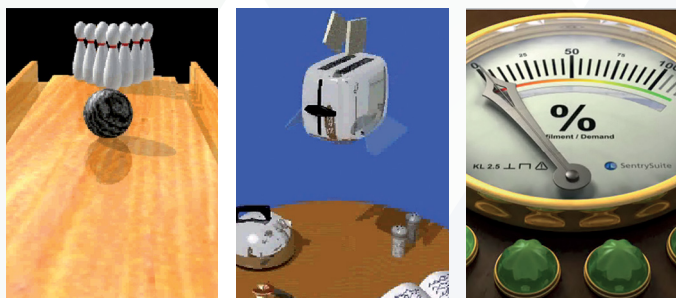
Guidance and Quality

Coaching for operator and patient



Animation incentives

Choose from 10 different patient animations for forced spirometry.

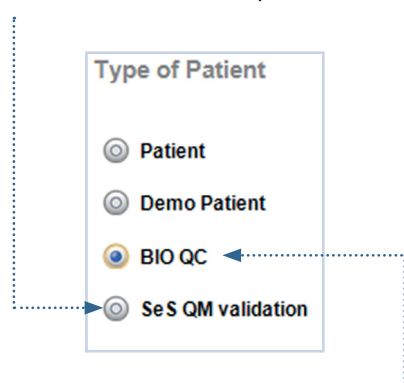


Adjust the target scale to your patient needs.

SentrySuite™ Quality Assurance - approved results

SentrySuite™ offers many tools to approve the quality and accuracy of your measurements.

With **SentrySuite™ Quality Management**, you can validate your measurement device using calibrated syringes, FRCpleth or DLCO simulators. Pre-defined special SeS QM patients automatically switch-off BTPS compensation and correct appropriately for mechanical dead space.



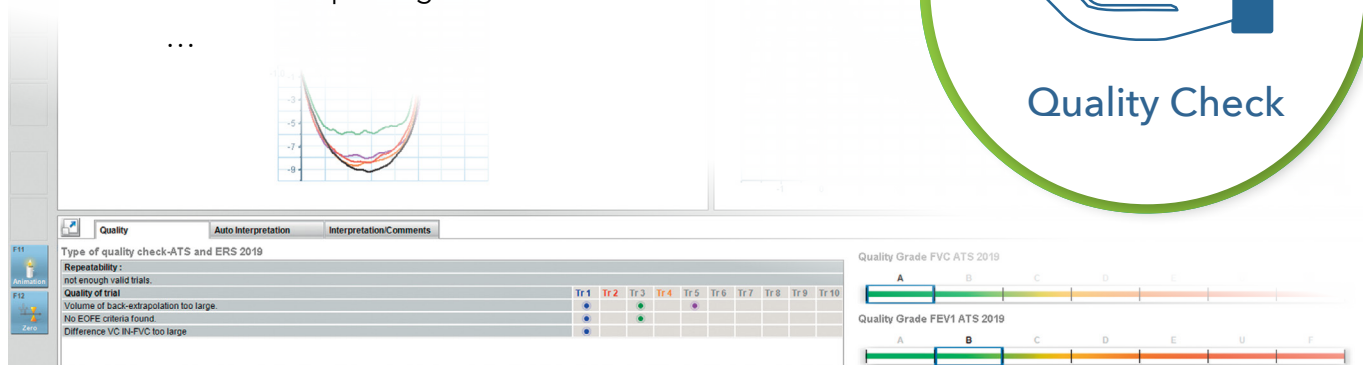
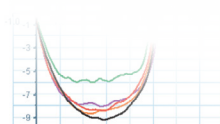
SentrySuite™ supports biologic control testing with a separate **BIO QC database**. The BIO QC data is easily identified and separated out for trending and further analysis.

According to the ATS/ERS guidelines, tests should be performed on a "standard subject."

After each trial, SentrySuite™ provides feedback on the **acceptability** and **repeatability** of the measurement, checking the results against the **ATS/ERS guidelines** or other defined standards.

- ATS/ERS Spirometry Guidelines 2019
- ATS/ERS Diffusion Guidelines 2017
- ATS/ERS Reporting Guidelines 2017

...



Networking

The united data of SentrySuite™

Devices powered by SentrySuite™ Software

Vyntus™ PFT Systems
SentrySuite™ Software



Vyntus™ CPX
SentrySuite™ Software



Vyntus™ SPIRO
SentrySuite™ Software



Vyntus™ WALK
Mobile six-minute walk test



Workstation
SentrySuite™ Software



Workstation
SentrySuite™
Mobile Review



Workstation
e.g. CITRIX



CITRIX

Non-Jaeger Medical
data import



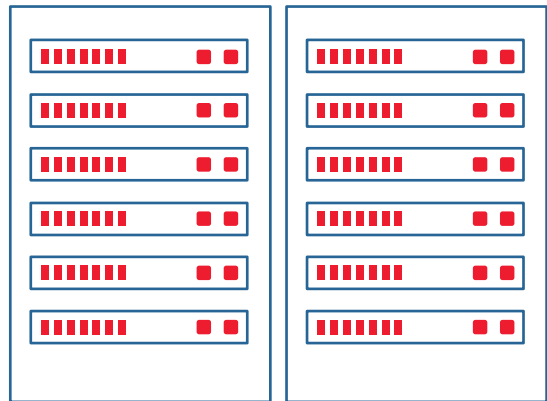
Physician's review workplace

Use your existing
network environments:
client-based,
web-based, Citrix.

Central Patient Database and HIS Interface

Server – SQL unlimited – HL7 – web-based – HIS – DICOM – GDT

SentrySuite™ SQL Server



One central patient database, so many advantages:

One-time patient data entry saves time

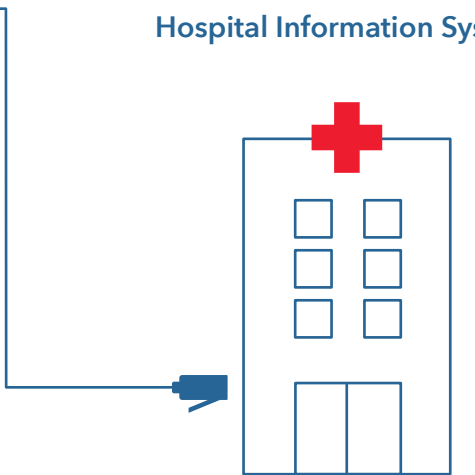
Several measurements from different devices on **one single report**

Measure **spirometry once** and use it for further tests like SB Diffusion or CPET

Avoid duplication of effort – changes or new reports, layouts, and predicted sets are globally deployed

Automatic backup ensures the security of important patient data

Hospital Information System



Connect your cardiopulmonary lab with your HIS using SentryConnect

The powerful interoperability solution. Create your individual solution. Our **experienced IT specialists** are there for you every step of the way

Easily **retrieve patient data from your HIS and send back** measurement results

HL7 messaging with discrete data and **pdf** graphics providing full visual reporting to clinicians

Use **orders with worklists**

Modules for advanced tasks like **billing**

GDT interface for praxis systems

Save time with the workflow driven physician's review tool

Date	Name	Patient ID	Date of Birth	HIS Order ID	HIS Visit ID	Visit Status
04/27/2012 11:12 AM	SeS Sample	CFNSPJ0750209	02/09/1975	-	-	In Review
_COMPLETE_PULMONARY			12/10/2020 3:27 PM	Preliminary		
SPIR_FVC			12/23/2020 9:52 AM	Preliminary		
Report Actions: New Upload Update Delete Send Patient Actions: Patient Details						
09/09/2011 12:57 PM	SeS Sample	CFNSPJ0750209	02/09/1975	-	-	Testing Complete
_COMPLETE_PULMONARY			12/23/2020 9:50 AM	Preliminary		

Visit Levels

- Pre
- 11:13 AM: Spiro: FVC
- 12:37 PM: Body: Sq Standard
- 1:25 PM: Diff SB: Diff SB CO/He
- 11:22 AM: MIP / MEP: MIP,MEP
- 11:16 AM: P 0.1: P 0.1 Rest

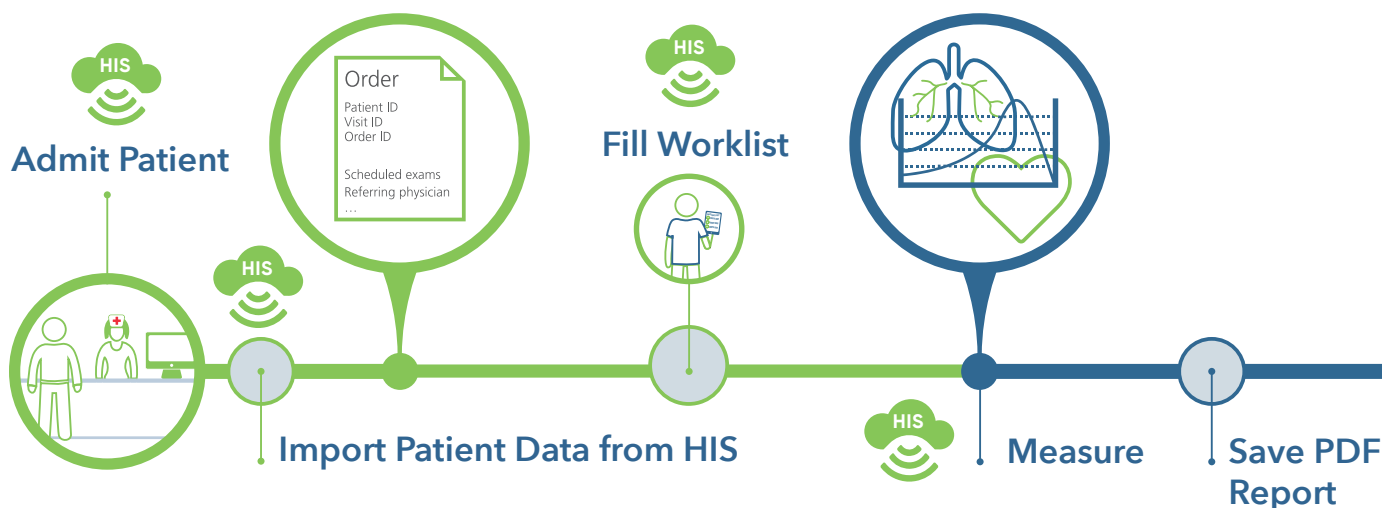
With SentrySuite™ software, technician and physician work hand in hand

The technician performs the measurement and saves the proper report.

The physician sees all visits with their associated reports for interpretation.

Flexible workflow status design allows for optional steps such as a preliminary interpretation by a fellow, with subsequent confirmation or revision by the attending physician.

Apply filters to create individual work lists.



Review Tool

A standard with SentrySuite™ software

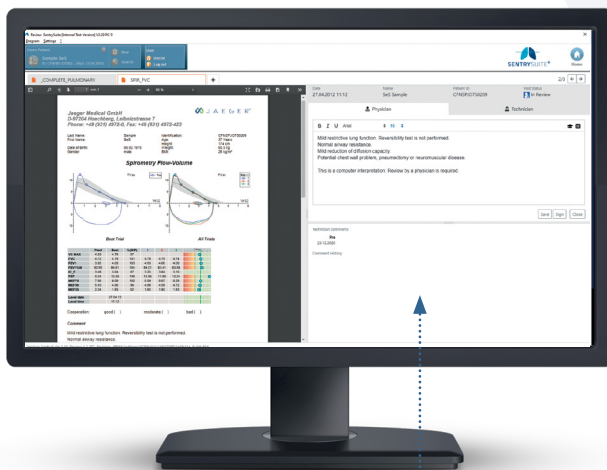
- **Ultra-fast report view** with results on the left and interpretation on the right
- Customised interpretation templates and macros
- **Electronic signature**
- Automated Send-To-HIS functionality
- Status management
- Also available as **web-based solution** named **SentrySuite™ Mobile Review**

Artificial Intelligence meets PFT interpretation

Seamless workflow integration

ArtiQ.PFT fully automates the interpretation of pulmonary function tests and provides AI-based disease probabilities to support diagnosis. Allowing pulmonologists to focus on clinical decision making and patient consultation.

- spend your time wisely
- boost consistency
- maximise your diagnostic accuracy
- define your next steps



Send to HIS



Interpret

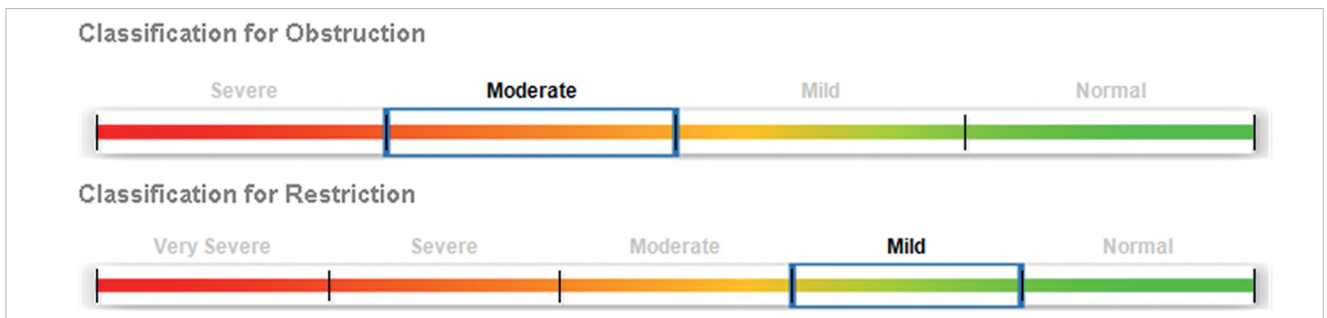
Electronic Signature

Tools go hand in hand with the workflow

	Pred Auth	Pred	Pred LL	Best	%(Best/Pred)	Tr 1	Tr 2	Tr 3	Z-Score		Z-Score
FVC	L	Quanjer GLI (2012)	5.06	4.05	4.84	96	4.84	4.78	4.68	-0.37	
FEV 1	L	Quanjer GLI (2012)	4.13	3.28	4.07	98	4.07	4.02	3.97	-0.12	
FEV 1 % FVC	%	Quanjer GLI (2012)	81.86	71.28	84.15		84.15	84.10	84.82	0.40	
PEF	L/s	ECCS (1993)	9.33	7.34	11.09	119	11.09	10.87	10.53	1.46	
MFEF 75/25	L/s	Quanjer GLI (2012)	4.14	2.48	4.26	103	4.26	4.23	4.18	0.10	
Quality Grade FVC ATS 2019				A							
Quality Grade FEV1 ATS 2019				A							

Scoring

SentrySuite™ offers all important parameter related scores: %Predicted, Lower Limit, Upper Limit, Z-Score, Standard Deviation



Classification

Each measurement program shows a classification bar indicating the possible limitation

Guidance Quality Auto Interpretation Interpretation/Comments

SeS Sample, a 42 years old male patient, was referred to this laboratory for evaluation dyspnoea. Spirometry data is ACCEPTABLE and REPRODUCIBLE.

The measured FEV1 was 3.99 L, 102.57 % to reference value GLI.
The Forced Vital Capacity FVC was 4.72 L, 100.55 % reference value GLI.
The Airway Resistance with 0.12 kPa/(L/s) is within normal limits of < 0.3.

Interpretation Templates

Create your own templates with macros

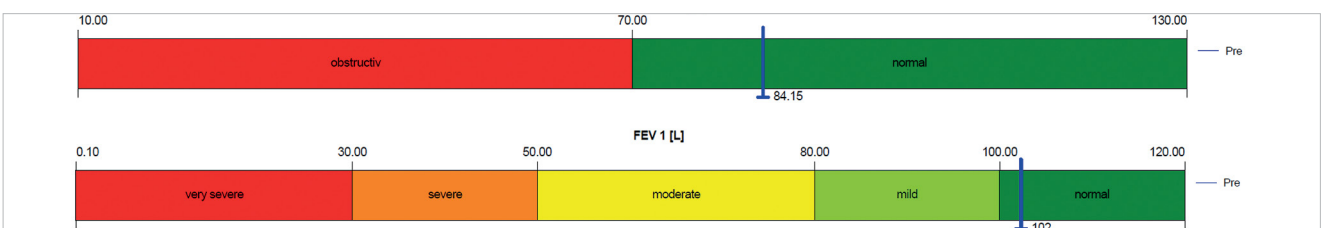
Guidance Quality Auto Interpretation Interpretation/Comments

Interpretation of visit Intermountain Thoracic Society (1984)

This combination of findings is consistent with the following: Moderate Chest Restriction is indicated by the reduced TLC. The Diffusing Capacity (DLCO) is Moderately Reduced. The DLCO (corrected)/VA is reduced. The reduced DLCO may be caused by an altered gas exchanging surface. Spirometric results are within normal limits. This is a computer interpretation; review by a physician is required.

Automatic Interpretation

Several authors come standard: Ellis, Jaeger (1994), ATS/ERS 2005, Intermountain Thoracic Society (1984), Methodist Hospital (1994), IOS, CPET Eschenbacher/Mannina (1990), Fukuda Sangyo



Individual Bar Graphs

Create your own interpretation bar with the flexible Report Designer

Trending—monitor patient results over time



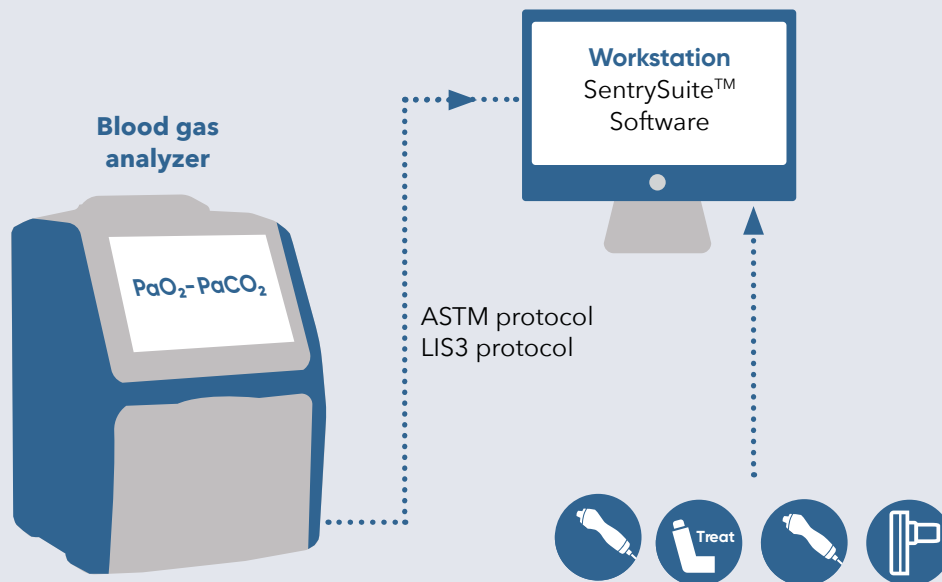
Measurement Parameter		Medication	Spiro		
Date	Time		FVC (L)	FEV1 (L)	MMEF (L/s)
21.07.2010	16:26:28	Salbutamol	4.85	4.07	3.81
21.07.2010	16:32:53		4.87	4.05	3.70
25.01.2011	13:22:44		4.84	4.07	3.99
09.09.2011	12:57:24		4.72	4.02	4.26
27.04.2012	11:12:17		4.79	4.03	4.19
13.04.2013	10:55:39		4.57	3.73	3.64
Mean value			4.77	3.99	3.93
Standard dev.			0.10	0.12	0.23
Var. coeff. [%]			2.13	2.94	5.96



Trending reports are standard in SentrySuite™. Show your long term data with one click for any parameter.

Respiratory data transfer

Connect your stand alone Jaeger spirometry devices with SentrySuite™



Blood gas online connection

Connect your blood gas analyser with SentrySuite™

- Automate import and storing of blood gas measurements into the SentrySuite™ patient data record
- PFT / CPET and blood gas results on one report ready for interpretation
- Supports many types of blood gas analysers

Questionnaires

Digitally integrated into SentrySuite™ – paperless and mobile solutions

Collect patient answers electronically and integrate them seamlessly into the SentrySuite™ database. The completed questionnaires are saved into the patient's database and can become part of your report. Choose from our standard questionnaires or create your own with the optional Questionnaire Designer with six different question types.

SentrySuite™ even brings scoring functionality to your questionnaires.

Tobacco smoking

1 Have you ever smoked cigarettes? (NO means less than 20 packs of cigarettes or less than 1 cigarette a day for 1 year.)

1 Yes ☒ 2 No ☐

2 Do you now smoke cigarettes (as of 1 month ago)?

1 Yes ☒ 2 No ☐ 3 Does not apply ☐

3 How old were you when you first started cigarette smoking? (-1 = Does not apply)

15 Age in Years

4 How many cigarettes do you smoke per day now? (-1 = Does not apply)

20 Cigarettes/day

5 Do or did you inhale the cigarette smoke?

1 Does not apply ☐ 2 Not at all ☐ 3 Slightly ☐ 4 Moderate ☒ 5 Deeply ☐

Thank you

Total score: 8

Offline data input

Offline data input – a standard in SentrySuite™

Extend and feed your SentrySuite™ database with further external measurements like exhaled NO, lactate values and blood gases.

1



Create a new parameter set or use implemented parameter sets like blood gases

2



Type in and save your measurement results into the SentrySuite™ database

3



Interpret, view and print together with your PFT / CPET data on one common report

		Pred	Best	%(B/P)	1	2	3	-3	-2	-Z-Score	2	3
Spirometry												
FVC	L	4.69	4.57	97	4.57	4.31	4.46					
FEV 1	L	3.89	3.73	96	3.73	3.54	3.71					
FEV 1 % VC MAX	%	80.37	81.67	102	81.67	77.38	81.17					
Exhaled NO												
NO	ppb		23									
Level date			13.04.13									
Level time			10:55									

Example of a spirometry report showing also an offline typed in Nitric Oxide measurement





Clinical research

Sentry CIS DataCube

- Access your lung function data for clinical research and statistics using the **Sentry CIS DataCube**.
- Define and deploy tailored research databases, based on SentrySuite™ patient demographics and visit data, standard questionnaires, predicted information and measurement parameters.
- Easy **Query Builder** user interface
- Direct output into Microsoft Excel or others
- Profit from various table configurations
- Customise, save and load your queries

All_Best

Visit Date

is after

2012-01-01

-

+

AND

Visit Date

is before

2016-10-01

-

+

AND

Gender

is

male

-

+

AND

FEV 1 %PRED

less than

60

-

+

SentrySuite™ provides access to your patient data for clinical research.
From SentrySuite™ Query Builder to Excel Outcome

	A	B	C	D	E	F	G	H	I	GT	HC	HI	JK	JN	LA	LD	U	LY
1	Visit Date	Patient ID	Gender	Race	Test Date	Age	Height	Weight	LevelType	FEV 0.5	FEV 1	FEV 1 % FVC	FVC	FVC In	MEF 25	MEF 50	MEF 75	MFEF 75/25
4	27.11.2014	GAB10031963	male	Caucasian	27.11.2014	51	1,74	90	1	3,492	4,255	83,613	5,089	5,484	1,137	4,788	11,253	4,643
5	13.04.2013	CFNSPIO750209	male	Caucasian	13.04.2013	38	1,74	80	1	3,129	3,986	84,485	4,718	4,691	1,974	4,819	8,318	4,179
6	27.04.2012	CFNSPIO750209	male	Caucasian	27.04.2012	37	1,74	80	1	3,24	4,139	84,014	4,965	5,002	1,868	4,898	9,183	4,188
7	09.09.2011	CFNSPIO750209	male	Caucasian	12.09.2011	36	1,74	80	1	3,145	4,024	85,226	4,721	4,766	2,015	4,785	8,101	4,339
8	25.01.2011	CFNSPIO750209	male	Caucasian	25.01.2011	36	1,74	80	5	2,984	3,779	91,57	4,127	3,408	2,506	5,183	7,748	4,733
9	25.01.2011	CFNSPIO750209	male	Caucasian	25.01.2011	36	1,74	80	5	3,022	3,873	91,855	4,216	3,622	2,642	5,196	7,761	4,748
10	25.01.2011	CFNSPIO750209	male	Caucasian	25.01.2011	36	1,74	80	5	1,424	1,848	91,439	2,021	1,399	1,2	2,424	3,628	2,276
11	25.01.2011	CFNSPIO750209	male	Caucasian	25.01.2011	36	1,74	80	6	3,041	3,911	82,642	4,732	4,485	1,74	4,502	7,489	3,997
12	25.01.2011	CFNSPIO750209	male	Caucasian	25.01.2011	36	1,74	80	5	3,203	3,378	91,731	3,688	2,856	2,252	4,886	7,815	4,558

SentrySuite™ Cybersecurity



SentrySuite™ software protects you against cybersecurity threats by implementing a whole set of technical safeguards.

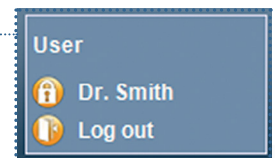
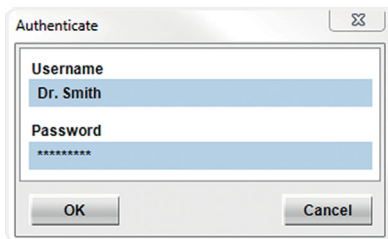
Data security and access control are the keys to protecting health information. SentrySuite™ offers several security features and comprehensive user administration.

Three steps to secure your patient data:



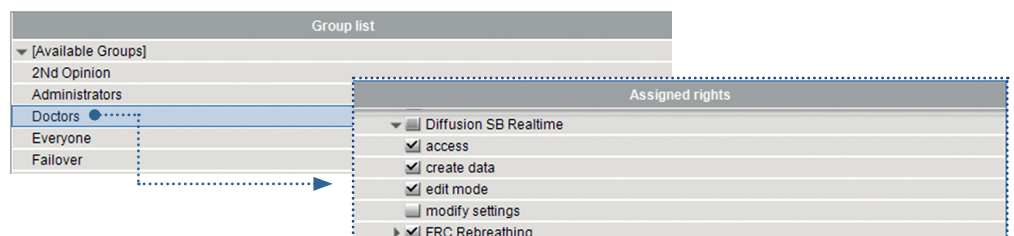
1. Authentication

SentrySuite™ offers **comprehensive settings for your password protection** including the use of Single Sign On and Active Directory linking through **LDAP**.



2. Authorization

The SentrySuite™ program **User Administration** allows easy to **create user and user groups** with their **assigned rights**. Make sure that only authorized users have access to the different sub programs.



2. Audit



The program **Log File Viewer** reports all proceeded steps within the SentrySuite™ Software with their appropriate user.

Date Time	User name	Workstation ID	Site	Event ID	Event text	Application
✓ 2017-02-14 10:59:26,070	Dr. Smith	LWDEU073XL56R1	n/a	4021	Startup program	Bodyplethysmography
✓ 2017-02-14 10:59:25,250	n/a	LWDEU073XL56R1	n/a	4013	Dr. Smith	Session Manager
✓ 2017-02-14 10:59:24,090	Dr. Smith	LWDEU073XL56R1	n/a	4021	Exit program	Spirometry
✓ 2017-02-14 10:20:25,880	Dr. Smith	LWDEU073XL56R1	n/a	4021	Startup program	Spirometry
✓ 2017-02-14 10:20:25,150	n/a	LWDEU073XL56R1	n/a	4013	Dr. Smith	Session Manager
✓ 2017-02-14 10:20:23,800	n/a	LWDEU073XL56R1	n/a	4021	Starting Application 'Spirometry'	SentryDesktop
✓ 2017-02-14 10:20:14,030	n/a	LWDEU073XL56R1	n/a	1000	Run Automatic: Completed Task 'Start up database'	SentryDesktop



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ArtiQ.PFT
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