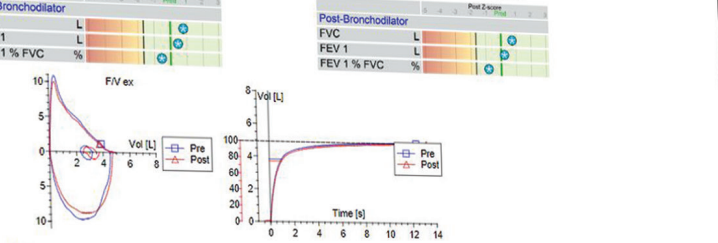




2023_TLCP

	Pre	LLN	Pre Z...	Pre%Pred	Post	Pat Zsc	Pat%Pred	%Chg	Pred Auth
L	4.94	3.38	0.81	111.6 %	4.90	0.74	110.7 %	-0.9 %	Bowerman GL...
L	3.82	2.73	0.46	108.4 %	3.70	0.22	103.0 %	-3.4 %	Bowerman GL...
% FVC	77.41	70.00	-0.55	95.8 %	75.58	-0.84	93.6 %	-2.3 %	Bowerman GL...
75/25	3.21	1.95	-0.25	92.7 %	2.96	-0.90	85.2 %	-7.4 %	Bowerman GL...
L/s	10.88	7.40	0.97	113.5 %	10.04	0.34	104.8 %	-8.7 %	Bowerman GL...
sec	12.38				13.21				Bowerman GL...
Grade FVC...	C				E				Bowerman GL...
Grade FEV1...	B				E				Bowerman GL...



	Pre	LLN	ULN	Pre Z-Score	Pre%Pred	Pred Auth
L	6.86	5.44	8.03	0.17	102 %	Bowerma...
L	4.94	4.11	6.18	-0.31	96 %	Bowerma...
L	3.78	2.58	4.62	-0.25	104 %	Bowerma...
L	3.08	2.13	4.38	-0.06	99 %	Bowerma...
L	1.47	0.59	2.44	0.17	107 %	Bowerma...
L	1.61	0.92	2.44	0.02	101 %	Bowerma...
Cpl% TLC	44.96	42.16	64.34	-1.23		Bowerma...
% TLC	23.54	14.88	32.97	-0.03		Bowerma...
Pr FRCpl ATS...	1					Bowerma...
kPa/(L/s)	0.24	0.30			79 %	Bowerma...
kPa*s	0.82	1.18			70 %	Bowerma...
(L/s)/kPa	4.24	3.33			127 %	Bowerma...



Date: 02/26/2020 6:01 PM
 Name: TEST PFT
 Patient ID: PFT123
 Visit Status: In Review
 Doctor Account: [icon] (00:09:57)

Physician

B I U Times New Roman 11

Normal lung function.
 No significant bronchodilator response. Change in FEV1 of -3.2%, and FVC of -0.9%.
 Normal airway resistance.
 Normal diffusion capacity.

This is a computer interpretation; review by a physician is required.

Save Sign Cancel Batch

Technician comments

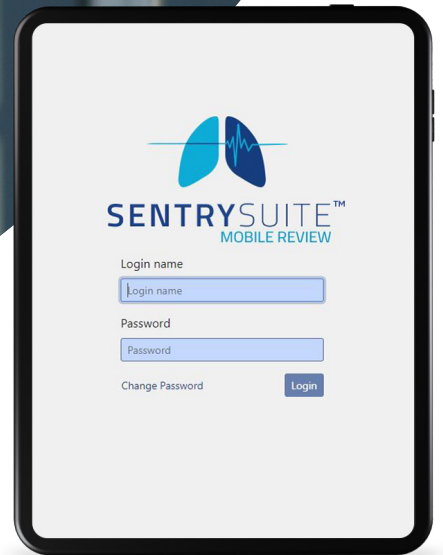
Pre First attempt at spirometry.
 08/18/2023
 Default

Post
 08/03/2023
 Administrator

Comment History

SentrySuite™

Software platform for intelligent review and reporting



Log in to
Mobile Review
from anywhere using
your organizations single-
sign-on (SSO) technology.

The power of SentrySuite™ review and reporting

SentrySuite™ software powers all your Vyntus™ devices and provides a user-friendly platform for patient testing. And it does not stop there. The interface also supports the comprehensive needs of the physician review and reporting process. SentrySuite™ is designed to improve how physicians engage with patient data in a more convenient and efficient manner.

I am pleased and full of gratitude that we are utilizing Mobile Review successfully throughout our 4 labs. This has made the process of MD interpretation efficient and organized as well as staff workflow less cumbersome. We were able to decrease our workflow from 15 steps to 4. The feedback from our physicians has been extremely positive. Staff satisfaction has increased. Congratulations on a wonderful product and providing a fantastic support system."

Respiratory Care Director, Pennsylvania

Taking data review to the next level!

The SentrySuite™ Mobile Review application addresses the need for flexibility and mobility in accessing and reviewing patient data for physicians. Physicians can efficiently manage their tasks, provide timely feedback, and make informed decisions regardless of their physical location.

The screenshot displays the SentrySuite Mobile Review application interface. At the top, there is a header with the logo and navigation options. Below the header, there are filters for Date (12/13/2021 to 08/24/2023), Visit Status, Physician, and Patient Type (Patient). A search bar and filter options are also visible. The main content area shows a list of patient visits with columns for Date, Name, Patient ID, Date of Birth, and Visit Status. A sidebar on the right shows Visit Levels. Three numbered callouts highlight key features: 1. Report Actions (New, Upload, Update, Delete, Patient Details), 2. Visit Status indicators (New, Testing, Testing Complete, In Review, Final), and 3. Visit Levels (Pre, Spiro, CPET, ABG, Usr Par, ECG-Stress).

Date	Name	Patient ID	Date of Birth	Visit Status
08/17/2023 12:29 PM	K J	2221144DDD	02/12/1964	New
08/17/2023 12:28 PM	Patient Sick	Patient	12/12/1987	Testing
05/02/2023 12:03 PM	Vyair CPET	Max_bike	11/10/1976	Testing Complete
Report Actions: New, Upload, Update, Delete, Patient Details				
04/24/2023 10:25 AM	CPET_CS_Ramp_Bruce Male 21	B-to-B	09/16/2002	Testing Complete
03/02/2023 10:17 AM	Rup J	Rup	12/02/1972	Testing Complete
06/03/2022 3:31 PM	S E	ACSM88	10/04/1990	In Review
06/03/2022 1:46 PM	F A	ACSM6	03/21/1989	Final
06/03/2022 11:08 AM	Khan Arsalan	ACSM	06/26/1989	Final

- 1 Users can upload a new report, delete a report, and upload an external pdf report.
- 2 Clear status indicators inform the user where the current patient visit is in the workflow
- 3 Click on any patient and you can quickly see the tests performed during that visit.

Filtering down to a manageable worklist

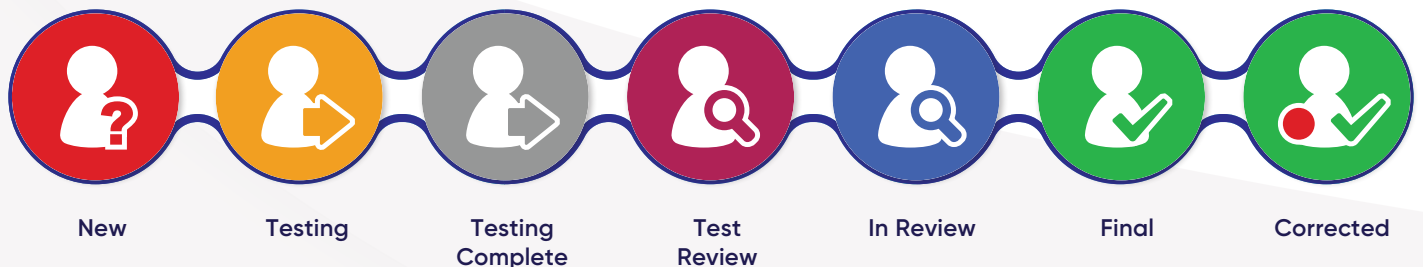
Large data sets and patient lists can be overwhelming and a challenge to manage. By expanding to the rapid filtering preferences window, SentrySuite™ helps zone in to the task at hand, creating more time-efficient workflows. Save these preferences and they will be available the next time you open Mobile Review.

The screenshot displays the SentrySuite Mobile Review interface. At the top, there's a header with the logo and 'MOBILE REVIEW'. Below it, a filtering window is open, showing various filters for Date, Visit Status, Physician, Patient Type, Last Name, First Name, Operator, Ref. Physician, Report Status Preliminary, Report Status Final, Report Status Correction, Patient ID, Location, and Doctor Account. The 'Date' filter is set to 12/13/2021 to 08/24/2023. The 'Patient Type' is set to 'Patient'. The 'Doctor Account' is set to '(00:09:59)'. The 'Filter Actions' section includes 'Use & hide' and 'Clear All' buttons. Below the filters, a summary shows '14 visit(s) found'. The main table displays a list of visits with columns for Date, Name, Patient ID, Date of Birth, and Visit Status. The table contains 14 rows of data, each representing a visit with associated patient information and report status.

Date	Name	Patient ID	Date of Birth	Visit Status
05/02/2023 12:03 PM	Vyaire CPET	Max_bike	11/10/1976	Testing Complete
	.US_CPET_ALL_2023	08/17/2023 12:10 PM		Preliminary
	CardiosoftECG_Report.pdf	08/17/2023 12:10 PM		Preliminary
04/24/2023 10:25 AM	CPET_CS_Ramp_Bruce Male 21	B-to-B fast_optimal_Pace_cardiomyopathy	09/16/2002	Testing Complete
	.US_CPET_BLOODGASES_2023	08/17/2023 12:50 PM		Preliminary
03/02/2023 10:17 AM	Rup J	Rup	12/02/1972	Testing Complete
	_COMPLETE_PULMONARY	08/17/2023 12:22 PM		Preliminary
05/15/2022 2:12 PM	ATS ATS	ATS	12/01/1972	Testing Complete
	.US_2023_TLCPL	08/17/2023 1:23 PM		Preliminary
04/14/2022 1:09 PM	ATS7 ATS7	ATS7	05/03/1964	Testing Complete
	.US_2023_TLCPL	08/17/2023 1:23 PM		Preliminary
04/14/2022 11:50 AM	ats6 ats6	ats6	12/02/1972	Testing Complete
	.US_EIA_TESTLVL	08/17/2023 1:24 PM		Preliminary

Other filters include **date ranges, location, physician, referring physician,** and more.

Customizable workflow steps



Batch Mode - the ultimate in time-saving workflow

Batch mode queues up the worklist and allows users to move through the review process sequentially. In one screen, users can view technician comments and add their own physician test interpretations using templates, macros, speech-to-text, or ArtiQ.PFT automated interpretation.

The screenshot displays the SENTRY SUITE MOBILE REVIEW interface. The top navigation bar includes the logo, patient information (Date: 02/26/2020 6:01 PM, Name: TEST PFT, Patient ID: PFT123), and user status (Doctor Account, 00:09:57). The main content area is divided into several sections:

- Spirometry:** A table of pre- and post-bronchodilator values.

	Pre	LLN	Pre Z-Score	Pre%Pred	Post	Pat Zscr	Pat%Pred	%Chg	Pred Auth
FVC	L 4.94	3.38	0.81	111.6 %	4.90	0.74	110.7 %	-0.9 %	Bowerman GLI...
FEV1	L 3.82	2.73	0.48	108.4 %	3.70	0.22	103.0 %	-3.4 %	Bowerman GLI...
FEV1 % FVC	% 77.41	70.00	-0.53	95.8 %	75.58	-0.94	93.6 %	-2.3 %	Bowerman GLI...
MFEF75/25	L/s 3.21	1.95	-0.25	92.7 %	2.96	-0.50	82.2 %	-7.4 %	Bowerman GLI...
PEF	L/s 10.88	7.40	0.97	113.6 %	10.04	0.34	104.8 %	-8.7 %	Bowerman GLI...
FET	sec 12.38				13.21				Bowerman GLI...
Quality Grade FVC	C				E				Bowerman GLI...
Quality Grade FEV1	B				E				Bowerman GLI...
- Lung Volumes:** A table of lung volume parameters.

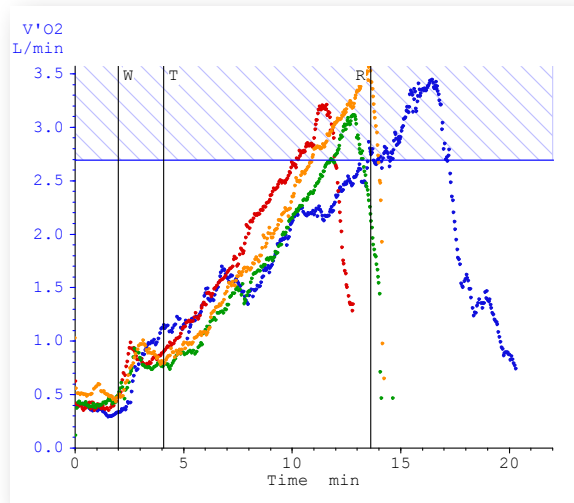
	Pre	LLN	ULN	Pre Z-Score	Pre%Pred	Pred Auth
TLC	L 6.86	5.44	8.03	0.17	102 %	Bowerma...
VC MAX	L 4.94	4.11	6.18	-0.31	96 %	Bowerma...
IC	L 3.78	2.58	4.62	0.25	104 %	Bowerma...
FRCpleth	L 3.08	2.13	4.38	-0.06	99 %	Bowerma...
ERV	L 1.47	0.99	2.44	0.17	107 %	Bowerma...
RV	L 1.61	0.92	2.44	0.02	101 %	Bowerma...
FRCpl% TLC	% 44.96	42.16	64.34	-1.23		Bowerma...
RV % TLC	% 23.54	14.88	32.97	-0.03		Bowerma...
Error FRCpl ATS	1					Bowerma...
Raw kPa/(L/s)	0.24	0.30		79 %		Bowerma...
sRaw kPa*s	0.82	1.18		70 %		Bowerma...
Gaw (L/s)/kPa	4.24	3.33		127 %		Bowerma...
- Diffusing Capacity:** A table of diffusing capacity parameters.

	Pre	LLN	Pre Z-Score	Pre%Pred	CH4 [ml/min*%Pa]	CO [ml/min*%Pa]
DLCO unadj. SBml/(min*%Pa)	10.49	7.36	0.65	110 %	0.30	
DLCO PB adj. SBml/(min*%Pa)	10.39	7.36	0.58	109 %	0.25	
- Technician Comments:** A text area containing the technician's report: "Normal lung function. No significant bronchodilator response. Change in FEV1 of -3.2%, and FVC of -0.9%. Normal airway resistance. Normal diffusion capacity." Below the text is a note: "This is a computer interpretation; review by a physician is required." Buttons for "Save", "Sign", and "Cancel Batch" are visible.
- Signing Modal:** A pop-up window titled "Signing" with a close button (X). It contains the text: "Signing as Doctor. The selected report will be saved to the database. Please select the state it should be saved in". Below the text are three buttons: "Preliminary", "Final" (which is highlighted), and "Correction". At the bottom of the modal are "Cancel" and "Sign" buttons.

After interpretation, the Save/Sign/Send functionality allows the user to save for further review, finalize and lock the visit, and send data to the EMR, all with minimal clicks.

The importance of trending

The SentrySuite™ ability to provide both PFT and CPET graphical and tabular trending is advantageous for healthcare professionals seeking comprehensive insights into patient progress. This approach enhances the visualization of clinical data and overall patient management.



This CPET example shows the percent change between the last two visits

	NOW	PREV	% DIFF	PREV-1	PREV-2	PREV-3	PREV-4	PREV-5
Measurement date	10/25/18	10/25/18		03/29/16	12/16/15			
Age	41 Years	38 Years		38 Years	38 Years			
SLOPES								
VECO2s	23.08	31.16	-25.9	31.65	27.48			
VO2Ws (mL/min)/W	5.63	10.71	-47.4	10.02	10.40			
SPIROMETRY								
FVC	L	4.81	4.81	0.0	5.52	5.46		
FEV1	L	3.85	3.85	0.0	4.24	4.23		
MVV	L/min				203	189		
PEAK CARDIOVASCULAR RESPONSES								
V'O2	L/min	3.4	3.2	6.3	3.1	3.5		
V'O2/kg	(mL/min)/kg	41.8	34.5	21.1	33.0	37.7		
V'CO2	L/min	3.9	4.0	-2.3	3.9	4.0		
Load	W	415	284	46.1	292	312		
HR	BPM	171	162	5.6	171	181		
O2pulse	mL	20.0	19.8	0.7	17.9	19.3		
Psys	mmHg	150	187	-19.8	195	140		
Pdia	mmHg	80	92	-13.1	87	86		
PEAK VENTILATORY RESPONSES								
VE	L/min	94	123	-23.6	124	132		
VTex	L	3,286	3,924	-16.3	3,677	3,709		
RR	1/min	28.7	31.5	-8.8	33.7	35.5		
BR FEV%	%	39	8	359.4	16	11		
PEAK GAS EXCHANGE RESPONSES								
RER		1.14	1.24	-8.0	1.26	1.14		
SpO2	%	93	98	-5.1	100	100		
EqCO2		23.2	30.1	-22.8	31.0	31.8		
EqO2		26.4	37.3	-29.0	39.1	36.3		
PETCO2	mmHg	47.13	36.17	30.3	35.89	35.17		
PETO2	mmHg	103.31	117.10	-11.8	117.50	117.59		

Each test maneuver allows users to choose the graphical and tabular data to trend

Measurement Parameter		Medication	Spiro		
Date	Time		FVC (L)	FEV1 (L)	MMEF (L/s)
21.07.2010	16:26:28		4.85	4.07	3.81
21.07.2010	16:32:53	Salbutamol	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

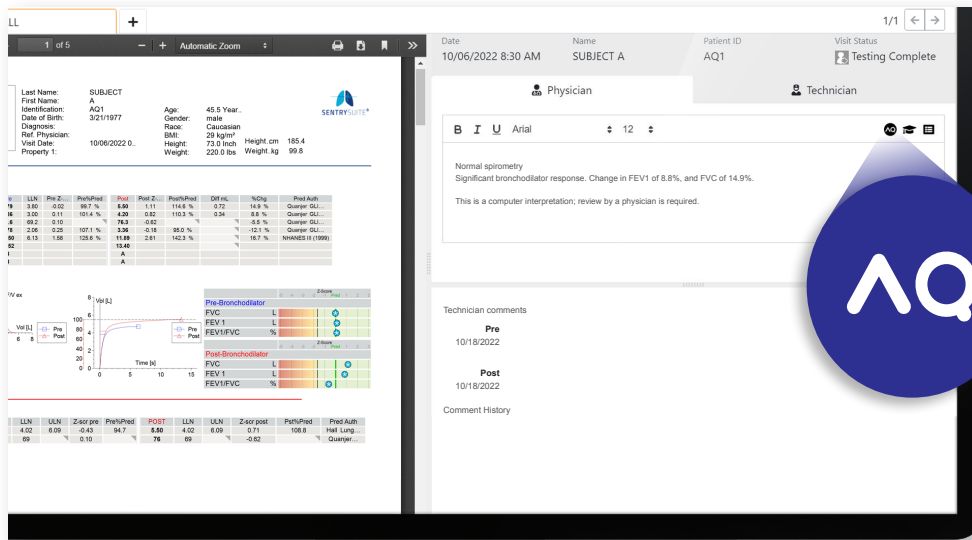


Standards-driven interpretation support with ArtiQ.PFT

ArtiQ.PFT is a secure, cloud-based, application designed for automated interpretation of lung function tests that seamlessly integrates with SentrySuite™ Review. The standout feature of ArtiQ.PFT is its use of ATS/ERS standards to help analyze the measured parameters, generating text statements and classification.



Leverage the power of AI to characterize spirometry, DLCO, LV, methacholine, and FeNO.



Spend your time on clinical decision making and patient consultation, not on administrative tasks.

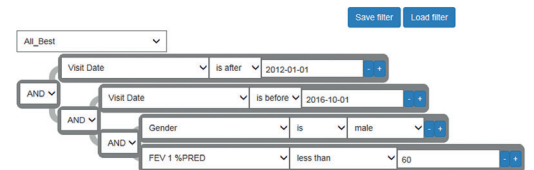


Standardize every PFT report at your center in line with international guidelines.

Data availability beyond SentrySuite™

Utilize the optional Sentry CIS Data Cube to access lung function data for clinical research and statistics.

The Query Builder interface lets you specify the criteria for the lung function data you need. This could include patient demographics, visit data, predicted information, and lung function measurement data.



SentrySuite™ Query Builder lets you customize, save and load your queries

From SentrySuite™ QueryBuilder to Excel outcome

	A	B	C	D	E	F	G	H	I	GT	HC	HI	JK	JN	LA	LD	LJ	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	CFNSPJO750209	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	CFNSPJO750209	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	CFNSPJO750209	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	CFNSPJO750209	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	CFNSPJO750209	male	Caucasian	25.01.2011	36	1,74	80	5	3,032	3,873	91,855	4,216	3,632	2,642	5,196	7,761	4,748

ATS/ERS guideline implementation – Your base for high quality results



✓ **ATS/ERS 2019
spirometry standards¹**



✓ **ATS/ERS 2017
diffusion standards²**



✓ **ATS standardized
PFT reports³**

REFERENCES

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2. Graham BL, Brusasco V, Burgos F, et al. 2017 ERS/ATS standards for single-breath carbon monoxide uptake in the lung. *Eur Respir J* 2017; 49: 1600016.
3. Culver BH, Graham BL, Coates AL, Wanger J, Berry CE, Clarke PK, et al.; ATS Committee on Proficiency Standards for Pulmonary Function Laboratories. Recommendations for a standardized pulmonary function report: an Official American Thoracic Society technical statement. *Am J Respir Crit Care Med* 2017;196: 1463–1472. Culver et al., 2017. SentrySuite version 3.20 or higher.

GLOBAL HEADQUARTERS

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