



## Morgan—More than a Vendor—Truly a Partner

At Morgan Scientific, we put the highest possible emphasis on product in-service and after sales support. Customers enjoy direct communication with our specialists without having to deal with annoying voice mail menus. From the initial delivery of equipment through training of staff and customizing of reports, our aim is to make sure customers are completely delighted with their purchase.

On-site training is usually achieved by two coordinated visits. Initially, one of our product specialists will spend two days covering equipment use and basic pulmonary physiology. Having used the product for several weeks, a follow-up visit is scheduled to go over any questions and introduce additional information.

The ComPAS Software Help is very extensive and thoroughly illustrated. It covers complete background on pulmonary physiology, instrument calibration, testing and maintenance. If questions cannot be answered in the Help menus, our cheerful and attentive staff are only a phone call away.

### The Personal Touch

Your input into product development is truly encouraged and appreciated. Nearly all of the product features detailed over have come as a result of customer requests and suggestions.



Morgan Scientific, Inc  
151 Essex Street  
Haverhill, MA 01832  
800-525-5002 ph  
978-521-4445 fax  
www.morgansci.com

ISSUE

01

# MorganTimes

## Morgan focus on the challenge of CF testing and interpretation

Dating back to 1980 and our first introduction with Dr. Mary Ellen Wohl at Children's Hospital in Boston, we have concentrated on the particular challenges associated with pulmonary function testing in children.

From appropriate hardware design to highly capable and attuned software, Morgan products are an ideal partner in CF clinics and pediatric pulmonary centers.

It is time to boast that your data has been "ComPAS Certified".



### this issue

- ComPAS and CF **P.2**
- Task Manager **P.3**
- EMR Interfacing **P.3**
- Truly a Partner **P.4**

## Morgan Serving Many of the Top Children's Hospitals

Since the early days of pioneering work by Philip K. Morgan in the 1950s to today, Morgan Scientific products offer measurements based on sound, verifiable scientific principles.

We are a proudly independent US company that has worked closely with leading pediatric centers.

We would be pleased to speak to you about your particular requirements and our exciting new products focused on CF work.



Standard CompPAS features include:

1 Easily customizable predicted equation sets for children including those recommended by the CFF Task Force. Patients falling outside of height, weight or BMI norms are identified.

Standard deviation (Z-) scores are also calculated, reportable and available for queries.

2 Test efforts are qualified using guidelines from ATS and the AJRCCM 175, p1304-1345, 2007 "An official ATS/ERS Statement : Pulmonary Function Testing in Pre-school Children". Constructive feedback is given to the technician to ensure maximum data reliability.

3 Serial data trending including percent predicted. Trend data is presented to the physician at the time of interpretation. Graphs can be configured by each user to their own preference.

4 A computer impression developed in conjunction with Children's Hospital Boston helps reduce time spent in interpretation as well as identifies the patient's baseline lung function for rapid comparison to current test.



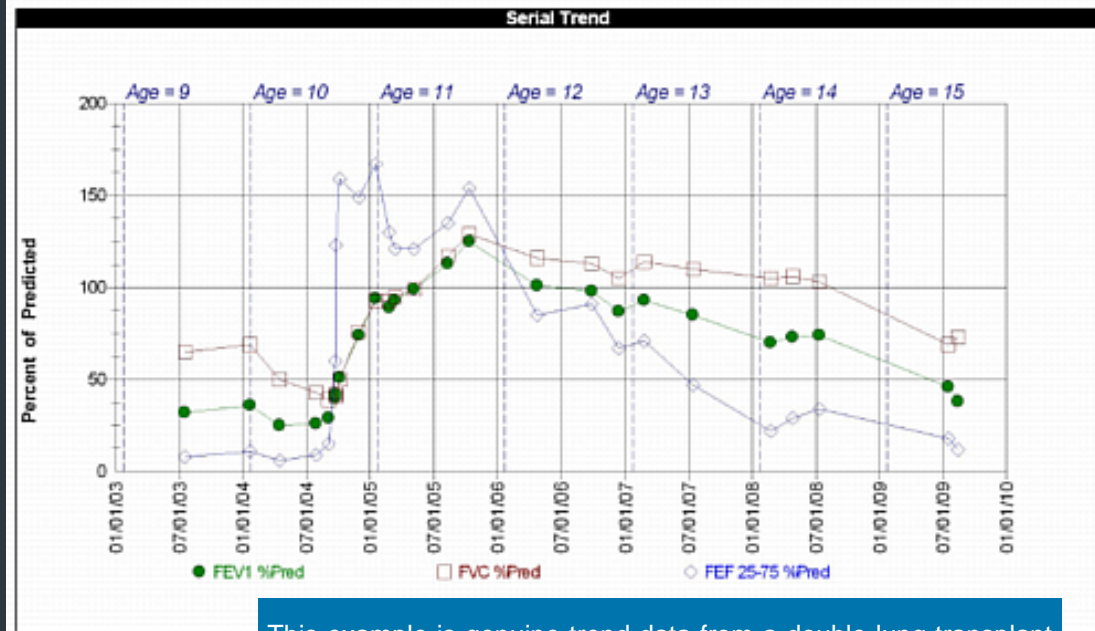
Key reasons why CompPAS is the ideal software for CF clinics.

Macros and serial graphing give doctors an edge in preparing interpretations

Note: Height and/or Weight and/or BMI is <3 %tile or >97 %tile for age.

Spirometry (BTPS)

		Ref	Pre	% Ref	Z-score	Post	% Ref	Z-score	% Chg
FVC	L	2.17	1.58	73	-1.95	1.51	70	-2.18	-4
FEV1	L	2.08	0.79	38	-5.04	0.80	38	-5.00	1
FEV1 / FVC	%	85	50		-5.83	53		-5.33	
FEF25-75	L/s	2.83	0.33	12	-4.82	0.32	11	-4.84	-3
PEFR	L/s	4.88	3.04	62	-2.44	3.12	64	-2.34	3
FET	sec		10.62			10.68			1
FEF50 / FIF50			0.32			0.29			-9
Back Volume			0.02			0.01			



This example is genuine trend data from a double lung transplant patient showing significant improvement following transplant and subsequent decline to chronic rejection.



CompPAS guides technicians to ensure the highest quality of test effort and reproducibility



Research Query & EMR Interfacing

**Research Query of Data:** For many Morgan Scientific customers, precise pulmonary function data has been collected through the years, with some customers going back as far as 25 years. For new customers we are able to convert their legacy data from other manufacturers and bring this wealth of data into the CompPAS Freedom™ SQL database. Test data is steadily stored and accumulated providing a valuable resource to be leveraged for research trial identification or reporting purposes. The Query Report feature allows users to search collected data using any of the values stored in CompPAS Freedom™. The data retrieved can be directly exported to Microsoft Excel® for graphing and statistical modeling.

**EMR & RESULTS Interface:** Transmits physician-interpreted tests to Electronic Medical Records system in real-time. Full graphical reports can be transmitted – No need to scan your printed reports! Tests can be corrected and resubmitted if errors are found. Preliminary results available while test is still in progress. *When feasible, CompPAS is ready to export data directly to the CF patient registry.*

**ADT and HL7 ORDERS Interface:** Patient demographics are queued up and easily recalled – eliminating data entry errors in the lab. Order details available to the technician at a glance – no need to keep referring back to an order slip.

**Blood Gas Interface:** Get all of the patient's recent blood work with the click of a button. Eliminate error-prone copying of dozens of complex values.

CompPAS Task Manager

The most advanced interpretation tool ever designed for pulmonary offices and hospital centers:



CompPAS Freedom™ Task Manager™ was co-developed with one of America's most prestigious teaching hospitals. When tests are completed in the pulmonary lab, results can be routed to any network-connected station for physician interpretation.

Internal "Task Notes" can be attached to patient results and sent to colleagues. Tests can be routed to pulmonary fellows for preliminary review and then on to faculty members for final interpretation. If reports need to be printed and sent to referring physicians, completed tests, along with the interpretation, can be sent to the departmental secretary for printing.

High quality testing starts with the finest hardware:

1 Spirometry

The SpiroAir-LT rolling seal spirometer is without equal in accuracy and frequency response. A simple USB connection makes it ideal for any PC configuration.

A close second in quality and accuracy is the new hand-held USB pneumotach. It has superb linearity and adapts to pediatric filters.

2 Lung Volumes & Diffusing Capacity

Two magnificent instruments provide "Gold Standard" options with verifiable quality control: The SpiroAir with helium dilution capability and the renowned Body Plethysmograph. Either instrument offer the most reliable and reproducible DLCO capability.

3 Lung Clearance Index

A measurement of ventilation homogeneity that can be performed on all ages.

Ask about our exciting new CPX and PFT products.