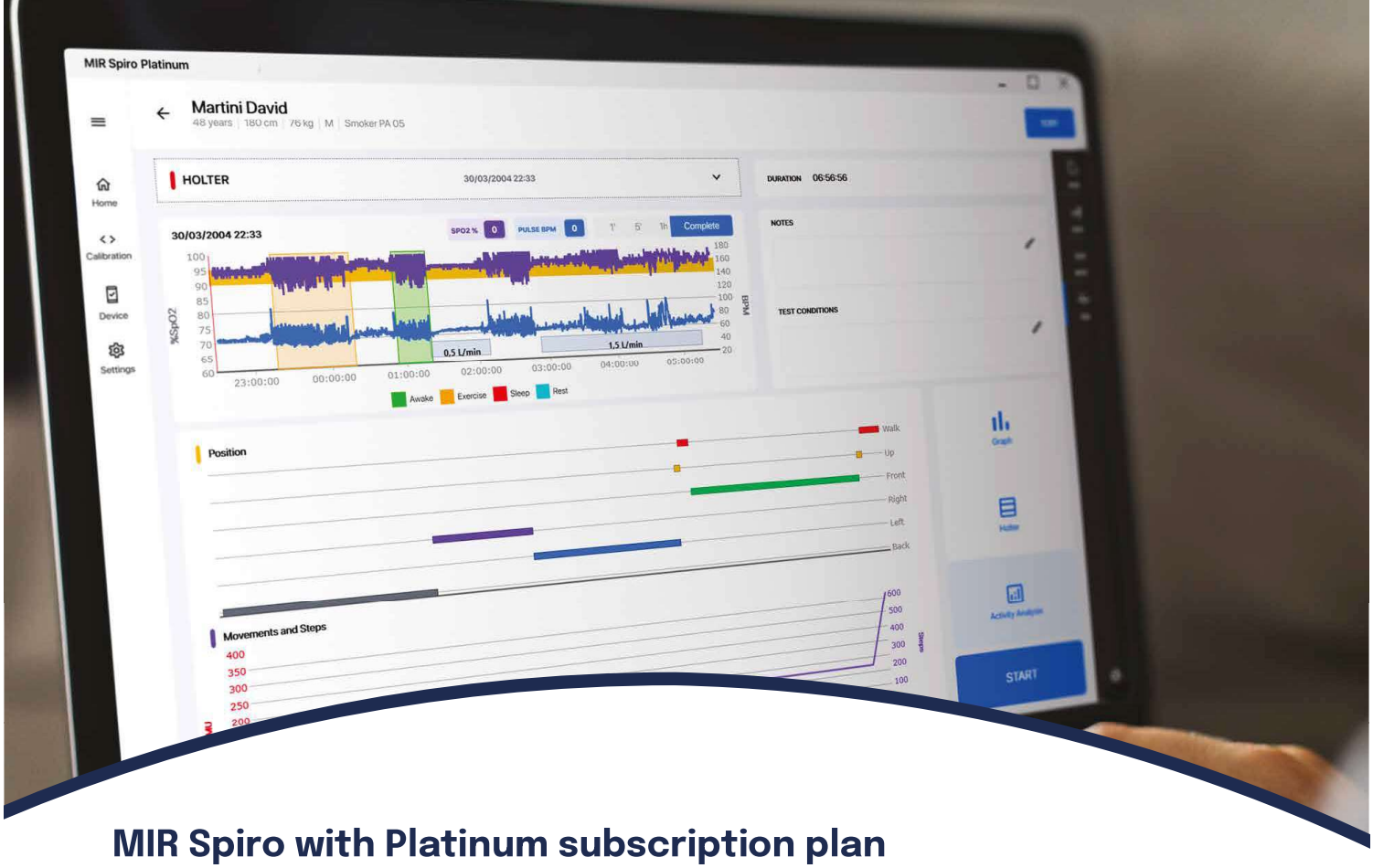
MIR

MIR Spiro

with a **Platinum** subscription plan

- **Comprehensive software for Spirometry and Oximetry**
- **Designed to be integrated with EMR/EHR**
- **Compliant with the latest ATS/ERS guidelines**
- **Available for desktop and laptop**
- **MacOS and Windows**

MIRSPIRO



MIR Spiro with Platinum subscription plan
is the latest-generation Spirometry and Oximetry software available with all MIR professional devices.

It offers **a wide range of advanced capabilities** in a new graphic style and customizable settings that allow for more in-depth diagnosis, ease of use, support in clinical assessments and decisions, integration with medical records (EMR/EHR).

Key features

- **Advanced Spirometry Analysis:** Session summary with FVC, SVC, MVV; FVC History for session comparisons.
  Editing tools for:
  - Set Best Test
  - Disable/enable/delete/retrieve the tests
  - Configure additional parameters to display in a customized order

- **Advanced Oximetry Analysis:** Application of specific analyses:
  - Walk Test (6MWT)
  - Sleep test
  - Holter for 24h saturation with adjustable titration

Data Delivery Service* (DDS):
Data delivery service from local database to third-party platforms and EMR/EHR

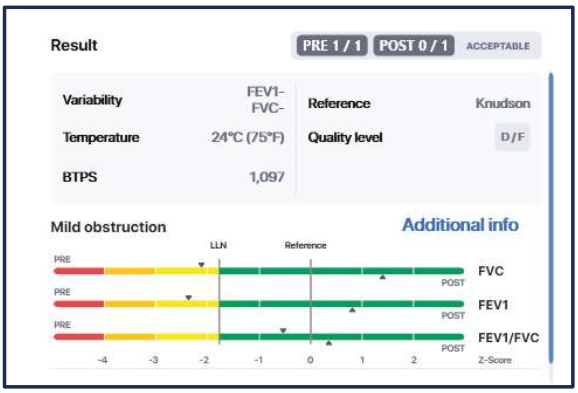
Privacy and Security:
- **Multi-user mode**: each **MIR Spiro** user can log in with their account
- **Anonymisation feature:** print, patient list, export data

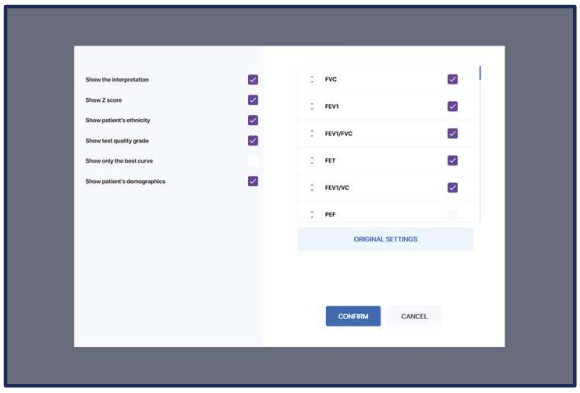
EMR/EHR Integration:
Highly interoperability oriented architecture that optimizes workflows and data exchange with EMR/EHR. Many supported standards such as *HL7, FHIR (Json) GDT, DICOM, eXchange Protocol*, and more

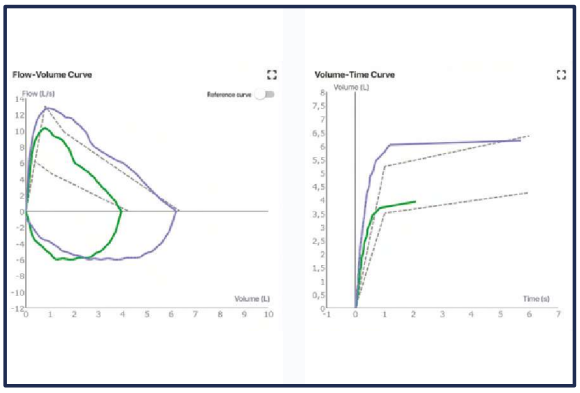
Complete and Customizable Prints:
ATS2019, Winspiro classic, NIOSH-OSHA

Data Import:
Importing tests from MIR professional devices

Virtual Assistant:
For each spirometry session performed, **MIR Spiro** shows the relationship between the interpretation of the spirometry (obstruction/restriction) and the shape of the flow/volume curve, providing support for diagnosis

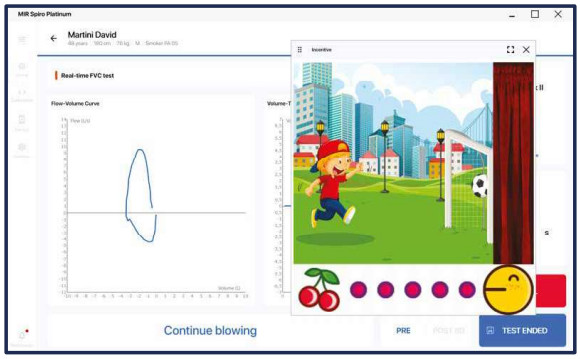


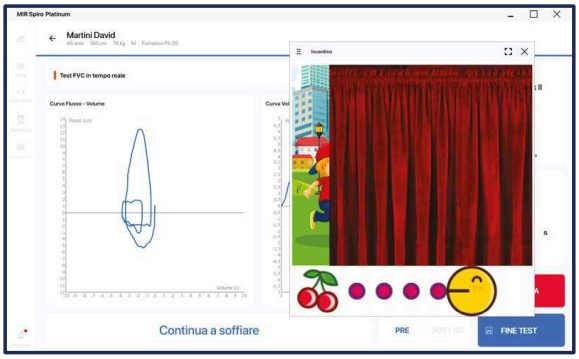




*Only valid for MIR professional devices

- **Pediatric Incentives:** Real-time animation to improve patient collaboration during the test. Based on an algorithm that takes into account both Flow and Volume to make it more reliable and effective





Other features

- **Powerful Data Sharing Capabilities:** Import/export capacity in various formats:

Export	ATS formatted file (Electronic Spirometry Report) .mirX (download the device archive and save to file); Proprietary MIR Spiro format; .csv (Excel); .pdf; .hl7; .gdt; dicom
Import	WinspiroPRO Database; Proprietary MIR Spiro format; .xml (NDD database) mir . mirX (files containing device archive) .hl7

Connectivity
MIR Spiro works with all MIR professional devices by USB connection and Bluetooth Low Energy (BLE ≥4.0)

Reference equations
The user can select primary and secondary authors (used for missing equations in the primary set) from a list of 18 including GLI, NHANES, ERS, KNUDSON and others

Pictograms for zScore & LLN
According to the latest ATS guidelines, MIR Spiro displays LLN, zScore and pictograms showing PRE & POST score for FVC, FEV1 and FEV1/FVC

Deleted data recovery
Retrieve the entire deleted spirometry or oximetry session with one click

Cloud Service for Software and Firmware Updates

Log of critical operations and errors
Advanced system for tracking critical operations and errors

Platinum Card

It is necessary to **have a MIR Spiro Platinum Card** to subscribe to a Platinum subscription plan.

*supplied with all MIR professional devices and available for purchase online (mymir.spirometry.com) or from your trusted MIR distributor

Functionality

Tests supported	• Spirometry • Oximetry
Supported spirometry tests	• FVC (Forced Vital Capacity) PRE and POST bronchodilator • SVC (Slow Vital Capacity) PRE and POST bronchodilator • MVV (Voluntary Maximum Ventilation) PRE and POST bronchodilator
Supported oximetry tests	Spot oximetry Six-minute walk test Sleep oximetry Oximetry holter (24 hours)
Supported languages	Chinese (China), Chinese (Taiwan), Czech (Czechia), Dutch (Netherlands), English (United Kingdom), English (United States), French (France), French (Belgium), Georgian (Georgia), German (Germany), Hungarian (Hungary), Italian (Italy), Japanese (Japan), Latvian (Latvia), Polish (Poland), Portuguese (Portugal), Romanian (Romania), Russian (Russia), Spanish (Spain), Swedish (Sweden), Turkish (Turkey), Ukrainian (Ukraine)
FVC parameters	FVC, FEV1, PEF, FEF75, FEF2575, FET, FEV1/FVC, FEV6, FEV1/FEV6, FEF25, FEF50, FIVC, FEV1/VC, ELA, MVV (cal), Time to PEF, FEV05, FEV05/FVC, FEV075, FEV075/FVC, FEF7585, Extr. Vol, FEV3, FIV1, FIV1/FIVC, PIF, FEV3/FVC, PIF, FEV2, FEV2/FVC, FIF25, FIF50, FIF75, R50, FEV1/PEF (EI), FEV1/FEV05 (RFEV), RR, tI, tE, TV/tI, tI/Ttot, te/ti, VTTI
VC parameters	VC, EVC, IVC, IC, VC, ERV, IRV, TV, VE
MVV parameters	MV, MVV

Oximetry parameters	
Spot Test	SpO2 [Baseline, Min, Max, Mean], Pulse frequency [Baseline, Min, Max, Mean], T40, T120, T90, T89, T88, T87, Index [12s], SpO2 Events, Pulse frequency Events [Bradycardia, Tachycardia], Time-Tot, Measured-Time
Walk Test	O2-Gap, Estimated distance, Distance travelled, Estimated distance [Min, Standard], TΔ2% [SpO2≥2%], TΔ4% [ΔSpO2≥4%], Time [Rest, Walk, Recovery], Desaturation area/ Distance Optional data entry: Borg dyspnea [Baseline, End, Change], Borg fatigue [Baseline, End, Change], Blood pressure [Diastolic Systolic], Oxygen administered, SpO2/BPM (Med. Min. Max. In. Fin.), T90,T89,T88,T87, SpO2/BPM Events.
Sleep tests	SpO2 events, Pulse frequency events [Bradycardia, Tachycardia] Desaturation index (ODI), Desaturation [Mean value, Mean duration Maximum duration, Peak Nadir], ΔSpO2 [Minimum drop, Maximum drop], Total pulse changes, Pulse frequency index, NOD time (4%, 89%, 90%), SpO2/BPM (Med. Min. Max. In. Fin.)
Equations for the calculation of theoretical Values	Barcelona Zapletal; ECSC 1971; Chile 2014; Crapo-Bass Knudson; ERS ECCS Knudson; ERS ECCS Zapletal; Forche 2001 Knudson; GLI; Hedenström Solymar; Hong Kong; Thoracic Society; Japan Respiratory Society; Knudson; Nhanes; Pereira; Perez Padilla; Pneumobill Knudson; South Korean (Dél-koreai); Thailand (Thaiföld)

Supported devices	• Spirolab (touchscreen) • Minispir (integrated USB cable) • Minispir Light POST DB • Spirodoc • Spirobank II Smart • Spirobank II Advanced • Spirobank II BASIC

System requirements

Windows	• Windows 7 (32 bit/64 bit), Windows 8 (32 bit/64 bit), Windows 10 (32 bit/64 bit), Windows 11 (32 bit/64 bit) • RAM: 1 gigabyte (GB) for 32 bit or 2 GB for 64 bit • 1 gigahertz (GHz) or higher processor, with two or more cores in a 64-bit processor • XGA screen resolution at 1024 × 768 pixels or higher. 1GB free hard drive space • Administrative rights for the operating system • USB port • Bluetooth Low Energy (Smart Bluetooth) support to connect medical devices with Bluetooth Low Energy connection
MacOS	• 2 GB RAM (recommended 4 GB) • 1GB free hard disk space • Administrative rights for the operating system • USB port • Bluetooth Low Energy (Smart Bluetooth) support to connect medical devices with Bluetooth Low Energy connection

*Spirolab, Minispir, Minispir Light, Spirodoc, Spirobank II with Bluetooth Smart, Spirobank II Advanced, and Spirobank II BASIC connect to **MIR Spiro** software by USB cable. Spirobank II Smart connects to **MIR Spiro** software by both USB cable and Bluetooth Low Energy.

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