



# MIR Spiro

- \\ 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



# Functionality

<b>Tests supported</b>	<ul style="list-style-type: none"> <li>• Spirometry</li> <li>• Oximetry</li> </ul>	<b>Oximetry parameters</b>	
<b>Supported spirometry tests</b>	<ul style="list-style-type: none"> <li>• FVC (Forced Vital Capacity) PRE and POST bronchodilator</li> <li>• SVC (Slow Vital Capacity) PRE and POST bronchodilator</li> <li>• MVV (Voluntary Maximum Ventilation) PRE and POST bronchodilator</li> </ul>	<b>Spot Test</b>	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
<b>Supported oximetry tests</b>	<ul style="list-style-type: none"> <li>Spot oximetry</li> <li>Six-minute walk test</li> <li>Sleep oximetry</li> <li>Oximetry holter (24 hours)</li> </ul>	<b>Walk Test</b>	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.
<b>Supported languages</b>	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)	<b>Sleep tests</b>	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.)
<b>FVC parameters</b>	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, tl, tE, TV/tl, tl/Ttot, te/ti, VTTI	<b>Equations for the calculation of theoretical Values</b>	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)
<b>VC parameters</b>	VC, EVC, IVC, IC, VC, ERV, IRV, TV, VE		
<b>MVV parameters</b>	MV, MVV		



### 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.