



SOZO® Hardware
SOZO® Software Version 6.2.0.1

Instructions for Use



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1 SYSTEM OVERVIEW

This instructions for use document (IFU) describes the features of the SOZO medical device, including safety, setup, operation, and troubleshooting instructions. It is important to follow the instructions to keep both the hardware and software systems functioning properly.

1.1 Bioimpedance Spectroscopy (BIS) Technology

BIS is the only non-invasive technology available for accurate measurement of body water volumes in a clinical setting. Bioimpedance parameters are measured over a frequency range of 3 - 1000 kHz using 256 frequencies. Extracellular, intracellular, and total body water are calculated from impedance data collected over the frequency range. With additional data, further calculations determine other body composition results. Graphs allow evaluation of quality of measurements in the form of a Cole plot.

The SOZO system offers a rapid, non-invasive measurement of impedance which is used to determine fluid levels for monitoring of a variety of conditions, allows long-term patient monitoring and provides reports to support clinical and research practices.

1.2 Introduction to the SOZO® System

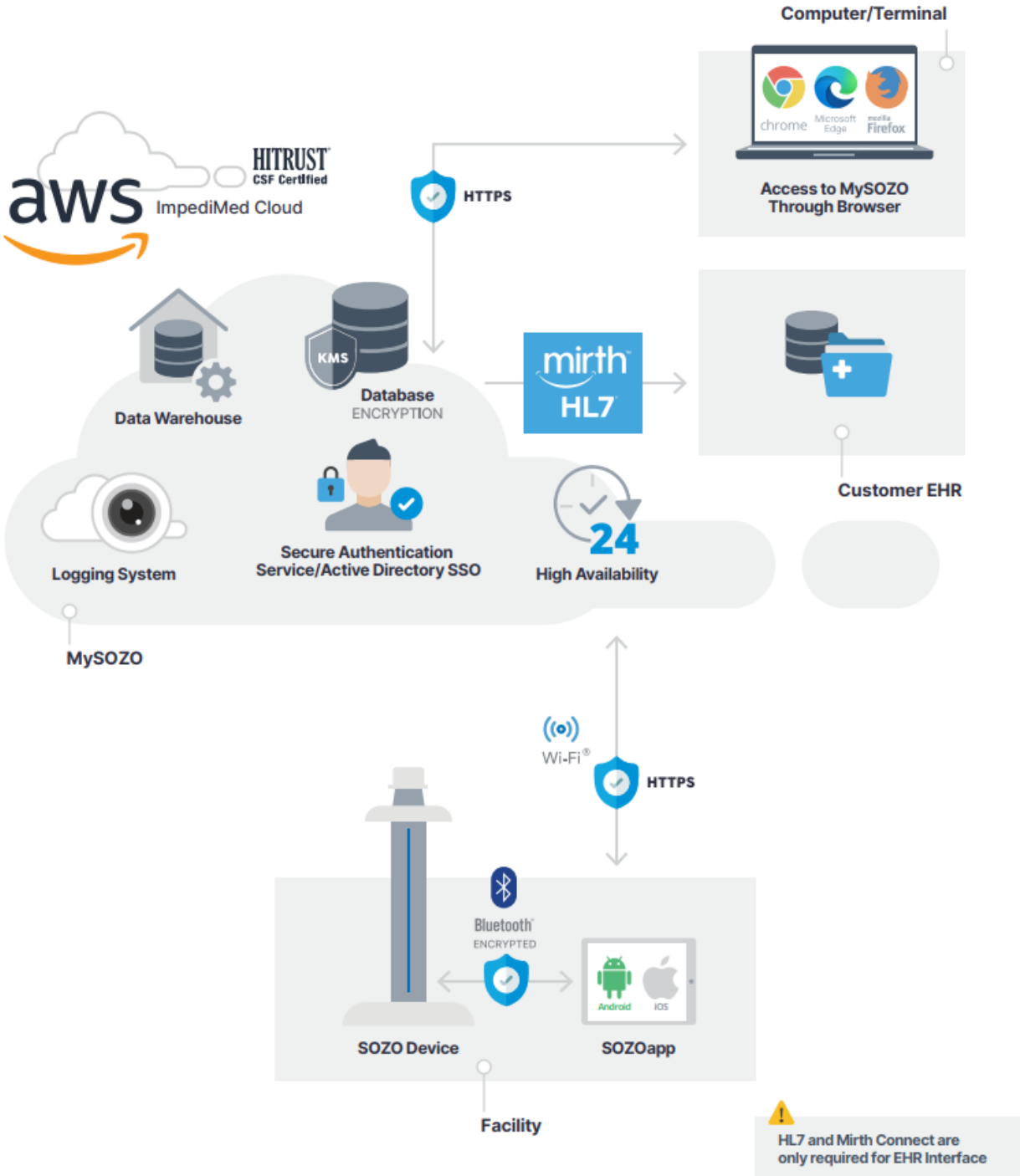
The SOZO Device is a medical device which uses ImpediMed's patented Bioimpedance Spectroscopy (BIS) for fast non-invasive measurement of fluid levels in human patients. ImpediMed's BIS technology provides a user-friendly platform to take quick, accurate patient measurements for assessment of patient body water volume, including extracellular fluid, intracellular fluid, and total body water.

The SOZO System may assist with early detection of lymphoedema by giving an "early warning" of patient fluid status change. It may also be used to track fluid levels in patients living with heart failure or end stage kidney disease. The SOZO system may be an integral part of a treatment plan for a lymphoedema and heart failure patient. Using the SOZO system, a Clinician may also track patient progress, including using the establishment of a baseline to track patient historical measurements.

All other patients may also benefit from the SOZO BodyComp™ and Segmental BodyComp™ modules, to monitor and track relevant parameters of their body composition, such as fat mass (FM), fat free mass (FFM) and skeletal muscle mass (SMM).

1.3 The SOZO[®] System Architecture

The SOZO system is a medical device system made up of hardware and software.



The SOZO system hardware components are the SOZO Device and a Tablet, either an Android Tablet or an Apple iPad (iOS), which communicate using *Bluetooth*^{®1} technology.

The SOZO system software is made up of the SOZOapp and MySOZO. The SOZOapp is a software application on the Tablet and provides the main user interface for the SOZO system.

The SOZO Device and SOZOapp are used in conjunction with MySOZO, a cloud-based system. Users may access and use the SOZO system through the SOZOapp on the Tablet, or access SOZO patient records online at MySOZO.com.

Security Controls

In the SOZO System Architecture diagram above, security controls are identified by a blue shield. In the table below, security controls are further described.

System Element	What It Is	Security Control Applied
SOZO Device to Tablet	Local link carrying raw measurement data	Encrypted Bluetooth (Security Mode 4, Secure Simple Pairing). No patient identifiers traverse this link.
SOZOapp to MySOZO	App-to-cloud transmission of demographic and measurement data	TLS 1.2 over port 443
Browser to MySOZO	Clinician and Administrator web portal access	TLS 1.2 over port 443
Browser/Tablet to SSO.MySOZO.com	Single Sign-On, where the tenant is SSO-enabled	TLS 1.2 over port 443; SAML 2.0 authentication
MySOZO to Customer EHR	HL7 interface via Mirth, EHR-enabled tenants only	TLS 1.2 over port 443 (inbound to customer)
Data at rest in MySOZO	Patient demographic, measurement, and result data	AES-256 encryption at the database and storage-media level; keys managed by AWS KMS
Access to MySOZO	User authentication and authorization	Secure Authentication Service, role-based access, optional MFA, account lockout, and session timeout
Activity across MySOZO	Security and audit events	Logging system; logs cannot be modified by end users or ImpediMed staff

1.3.1 Tablet Function

The Tablet is the primary user interface for the SOZO Device. Clinicians use the Tablet for all SOZO Device functions, including management of patient profiles, performing patient measurements, and reviewing data for SOZO Assessments. For

¹ The *Bluetooth*[®] word mark and logos are registered trademarks owned by Bluetooth SIG, Inc., and any use of such marks by ImpediMed is under license. Other trademarks and trade names are those of their respective owners.

product details on the Tablet, review www.samsung.com, www.lenovo.com or www.apple.com and associated User Guides.

Android: The SOZOapp for Android is pre-installed on the Tablet.

iOS: Contact ImpediMed Technical Support for download instructions.

NOTE: Screenshots throughout this Instructions for Use are based on the Android SOZOapp and Chrome browser. The iOS SOZOapp screens will look nearly identical.

NOTE: Instructions in this IFU are for SOZOapp and MySOZO versions 6.2. Not all functionality in later versions is present in earlier ones.

NOTE: Products manufactured by a third-party, such as Tablets, are not covered by ImpediMed's warranty. For further information, see [13, PRODUCT WARRANTY](#).

1.4 Cybersecurity Information

1.4.1 Cybersecurity Overview and Shared Responsibility

The SOZO device is a connected medical device system. This chapter describes the cybersecurity features built into the SOZO System, the supporting environment the system needs to operate securely, and the responsibilities shared between ImpediMed and the customer.

The SOZO System is made up of the SOZO Device, the SOZOapp on an Android or iOS Tablet, and MySOZO, a cloud application hosted and managed by ImpediMed on Amazon Web Services. The SOZO Device and SOZOapp do not store patient data. Patient demographic data and raw measurement data are transmitted from the SOZOapp to the customer's logically separated MySOZO database, where all patient data resides.

The diagrams in Section 1.3 (SOZO System Architecture) and the data flow described in the in Section 5 of the IFU illustrates how the components communicate and where the cybersecurity controls described in this chapter are applied: an encrypted Bluetooth link between the SOZO device and the Tablet, an encrypted TLS 1.2 connection over port 443 between the SOZOapp and MySOZO, and encryption of data at rest within MySOZO.

Shared responsibility:

ImpediMed is responsible for the security of MySOZO and its AWS hosting environment, for the integrity of the SOZOapp and SOZO Device firmware it distributes, and for monitoring and responding to vulnerabilities across the SOZO ecosystem.

The customer (the healthcare organization) is responsible for the security of its own network and Tablets, including enabling Tablet encryption, applying mobile device management, managing user accounts and credentials within MySOZO, and ensuring its network meets the requirements listed in the Supporting Infrastructure and Deployment Requirements section below.

1.4.2 Security Specifications and Controls

Authentication and Passwords

- MySOZO passwords must be 8 to 20 characters and include at least one uppercase letter, one lowercase letter, one number, and one special character. The previous three passwords cannot be reused.
- After five failed login attempts, the account is locked for 30 minutes to protect against brute-force and dictionary attacks.
- Sessions require re-authentication after a period of inactivity (60 minutes by default, configurable by an Administrator).
- Password expiration defaults to three months and is configurable by an Administrator.
- Administrators may enable Multi-Factor Authentication (MFA) for all users. Users may use a Time-based One Time Password (TOTP) authenticator application of their choice.
- Where the customer integrates an identity provider using SAML 2.0, password policy, password history, and MFA are managed in the customer's directory.

Encryption

- SOZO to Tablet: encrypted Bluetooth (Security Mode 4, Secure Simple Pairing). No patient identifiers are carried over this link.
- SOZOapp to MySOZO and web browser to MySOZO: TLS 1.2 over HTTPS port 443.
- Tablet data at rest: the Tablet supports native encryption (AES-128 with CBC and ESSIV:SHA256). ImpediMed recommends that customers enable Tablet encryption.
- MySOZO data at rest: AES-256 encryption at both the database level and the storage media level; credentials are additionally salted.

Anti-Malware and Firewall

The SOZO firmware is a closed embedded system and does not run user-installable software, so anti-malware on the SOZO is neither applicable nor required. For the Tablet, ImpediMed recommends that customers manage anti-malware, OS patching, and firewall posture through their mobile device management solution; the Tablet supports most MDM applications. Network firewall configuration at the customer site is described in Section 18.4 (the SOZOapp requires outbound access to the endpoints listed there over port 443).

1.4.3 Network Ports and Data Flows

The SOZO System uses a small, fixed set of network connections. All connections that carry patient data use TLS 1.2 over port 443.

Connection	Port	Direction	Purpose
SOZO Device ↔ Tablet	n/a (Bluetooth)	Local	Encrypted Bluetooth link carrying raw measurement data. No network port; no patient identifiers.
SOZOapp → MySOZO.com	443	Outbound	TLS 1.2. Patient demographic data, raw measurement data, and results.

Connection	Port	Direction	Purpose
Browser → MySOZO.com	443	Outbound	TLS 1.2. Clinician/Administrator access to the web portal.
Browser/Tablet → SSO.MySOZO.com	443	Outbound	TLS 1.2. Single Sign-On, where the tenant is SSO-enabled.
Browser → *.quicksight.aws.amazon.com and regional CloudFront endpoints	443	Outbound	TLS 1.2. Analytics module reporting (workstation browser only).
MySOZO → Customer EHR (Mirth, 44.205.49.238)	443	Inbound to customer	TLS 1.2. Only required where EHR integration is implemented.

No inbound ports need to be opened on the customer network for routine SOZO operation. The EHR connection above is the only inbound flow, and it applies only to customers who implement EHR integration.

1.4.4 Supporting Infrastructure and Deployment Requirements

To operate the SOZO System securely, the customer environment must meet the following requirements. Internet speed, browser, screen resolution, and supported Tablet requirements are listed in the Minimum Internet Requirements Section; the endpoints that must be reachable are listed in the Websites to Whitelist Section.

- Wi-Fi: the Tablet requires an encrypted Wi-Fi connection. WPA2-PSK and WPA2-Enterprise with 802.1x authentication are supported. The Tablet supports 802.11 a/b/g/n/ac.
- Supported encryption interfaces: TLS 1.2 for all connections to MySOZO over port 443; encrypted Bluetooth between the SOZO and Tablet.
- Outbound access: the customer network and any web proxy or firewall must allow outbound HTTPS (port 443) to the endpoints listed in the Websites to Whitelist Section.
- Tablet management: ImpediMed recommends enrolling Tablets in a mobile device management solution to enforce device encryption, OS updates, and access controls.

ImpediMed Technical Support can assist with secure network deployment and SSO or EHR configuration on request.

1.4.5 Software Bill of Materials (SBOM)

ImpediMed maintains a Software Bill of Materials (SBOM) for the SOZO System software, identifying the third-party and open-source software components, their versions, their support status, and known vulnerabilities. The SBOM is maintained as part of configuration management and is updated to reflect changes in marketed software.

Customers may request a current, machine-readable SBOM for their deployed SOZO software version by contacting ImpediMed Technical Support at

tsu@impedimed.com. ImpediMed will provide or make the SBOM available on a continuing basis.

1.4.6 Software and Firmware Updates

ImpediMed distributes only version-identifiable, ImpediMed-authorized software and firmware. The SOZO System is not updated from public app stores.

- Android: the SOZOapp is pre-installed on the Tablet. Updates are distributed by ImpediMed through Managed Google Play.
- iOS: the SOZOapp is distributed through Apple Business Manager. Contact ImpediMed Technical Support for download instructions.
- SOZO Device firmware updates, when required, are delivered and applied through ImpediMed-authorized channels.

How users know an update is available: MySOZO and the SOZOapp display the running software version. ImpediMed notifies customers when a new authorized version is released and, where distribution is managed (Managed Google Play, Apple Business Manager), authorized updates are made available to enrolled Tablets. Available updates also appear as a notification within the MySOZO portal. Users should only install SOZO software obtained through these ImpediMed-authorized channels.

1.4.7 Detection of and Response to Anomalous Conditions

The SOZO System is designed to detect and respond to anomalous and security-relevant conditions. Security events such as failed and successful login attempts, account lockouts, and creation, modification, or deletion of users and records are logged in MySOZO with the user and a timestamp. After five failed login attempts an account is automatically locked for 30 minutes, and inactive sessions are automatically ended and require re-authentication.

MySOZO is hosted on AWS infrastructure protected by network firewalls with intrusion prevention, and back-end application errors and operational anomalies are monitored centrally. Administrators can review security logs and audit reports in MySOZO to identify suspicious activity. If a user suspects a cybersecurity incident, they should contact ImpediMed Technical Support tsu@impedimed.com.

1.4.7.1 Responding to a Suspected Cybersecurity Vulnerability or Incident

- Stop using the affected Tablet or account if you believe it is compromised, and do not attempt to investigate by altering device configuration.
- Have an Administrator review the MySOZO security and audit logs and, where appropriate, reset credentials or disable affected accounts.
- Report the suspected vulnerability or incident to ImpediMed Technical Support at tsu@impedimed.com or by phone. ImpediMed will investigate, perform a security risk analysis, and coordinate remediation and any required notifications.

1.4.8 Features that Protect Critical Functionality

The SOZO System is designed so that a security event does not compromise the integrity of stored patient data or the safety of a measurement.

- The SOZO and SOZOapp hold no patient data at rest; results are calculated server-side in MySOZO and only held in volatile memory on the Tablet during use. Loss or theft of a Tablet therefore does not expose stored patient records.
- Each customer’s data is held in a logically separated MySOZO database, limiting the impact of any single account compromise to that tenant.
- Account lockout, automatic session timeout, and role-based access limit the ability of a compromised credential to act.
- If network connectivity to MySOZO is unavailable, the SOZOapp cannot transmit or retrieve patient data; it does not fall back to an insecure local store. Connectivity troubleshooting is described in Section 11.

1.4.9 Backup, Restore, and Configuration Recovery

Patient data and configuration reside in MySOZO, not on the SOZO or Tablet, so backup and recovery are managed centrally by ImpediMed.

- ImpediMed backs up the MySOZO databases as part of its managed hosting on AWS, supporting restoration of patient data and tenant configuration.
- Tenant configuration (users, roles, password and MFA policy, patient groups and tags, device naming) is stored in MySOZO and is recoverable by ImpediMed as part of a tenant restore.
- Authorized, authenticated Administrators retain and recover their own configuration through the MySOZO Administrator settings, where they can re-create or restore users, reset credentials, and reapply settings.
- Because the Tablet holds no patient data, replacing a Tablet does not require a data restore; the replacement Tablet is enrolled and the SOZOapp is provisioned through the customer’s managed distribution, then signs in to the existing MySOZO tenant.

1.4.10 Secure Configuration of Shipped Devices

SOZO Tablets are shipped as “out-of-the-box” and are not configured/managed by ImpediMed. The SOZO firmware is shipped in a fixed, hardened configuration that is not user-modifiable.

User-configurable settings and their security implications:

Setting	Recommended secure configuration	Risk if weakened
Tablet encryption	Enable native Tablet encryption.	Data on a lost Tablet could be accessible (note: no patient records are stored at rest).
Mobile device management	Enroll Tablet in MDM; enforce OS patching, anti-malware, and lock policy.	Unmanaged Tablets may run outdated or unauthorized software.
MFA	Enable MFA for all users.	Credential theft alone could grant access.

Setting	Recommended secure configuration	Risk if weakened
Password expiration / inactivity timeout	Retain defaults or apply organizational policy.	Long-lived sessions or passwords increase exposure.
Multi-Role accounts	Provision only where required.	Over-broad privileges increase impact of a compromise.
Network endpoint allow-list	Allow only the Section 1.6 endpoints over port 443.	Overly open egress increases attack surface.

Credential reset for any user can be performed by an Administrator in MySOZO. Anti-malware and firewall posture for the Tablet are managed by the customer through MDM and the customer network.

1.4.11 Security Logging and Forensic Information

MySOZO records security-relevant events to support detection, investigation, and forensic review. These logs cannot be modified by end users or by ImpediMed staff.

What is logged:

- Login events: successful and failed logins, the user account, and timestamp.
- Data and patient records: creation, modification, and deletion, including the targeted record, the user, and timestamp.
- Administrative functions: creation, access, modification, deletion, and export of data, users, and settings, including the user and timestamp.

How logs are stored and consumed:

Logs are generated and stored within the MySOZO environment on AWS, separately from the SOZO and Tablet, so that forensic evidence is retained even if a Tablet is lost. Administrators can view and run audit and security reports through the MySOZO web portal which can be exported in .CVS format and uploaded into the customer SIEM. Application and infrastructure events are additionally monitored centrally by ImpediMed. Customers who operate a SIEM and require log feeds for their own monitoring can implement Single Sign-On to integrate access logs.

1.4.12 End of Support and End of Life

ImpediMed maintains the SOZO System software, including security updates, while a software version is supported. ImpediMed communicates end-of-support and end-of-life information for software versions and components to customers in advance.

At end of support, ImpediMed may no longer be able to provide security patches or software updates for that version. If a device or software version remains in use after end of support, cybersecurity risk can be expected to increase over time, and that risk transfers to the operating organization. Customers should plan to move to a supported version before end of support and should contact ImpediMed Technical Support for the current support status of their SOZO software and Tablet operating system.

Tablet operating system support is governed by the Tablet manufacturer. The recommended minimum operating system versions in the Minimum Internet

Requirements section are intended to keep Tablets within their manufacturer security-update window.

1.4.13 Decommissioning and Data Sanitization

When a SOZO System or component is retired, the following steps ensure that confidential, sensitive, and proprietary data and software are removed.

1. Tablet: remove the Tablet from the customer’s MySOZO tenant and from MDM, then perform a factory reset to erase the SOZOapp and all local data. Because the SOZOapp stores no patient records at rest, a factory reset removes any residual application data.
2. SOZO Device: the SOZO Device does not store patient data or operational data; only firmware is present. Disconnect and return or recycle the Device per the instructions below.
3. MySOZO tenant: when a customer ends services, the customer receives a copy of their data, verifies receipt, and ImpediMed securely destroys the tenant database using a purge and re-write method and provides a certificate of destruction.

EU customers: products at end of life may be returned to ImpediMed for recycling, as indicated by the symbol in Section 2.1. Contact ImpediMed Technical Support to arrange decommissioning or return.

1.5 Radio Frequency Wireless Specifications

Radio Frequency Wireless Technology Requirements	
Radio Frequency / Wireless Characteristics	Description
Technology Description	The radio frequency device system utilizes Bluetooth™ Low Energy Peripheral.
Operating characteristics	The operating characteristics met the Bluetooth Low Energy standard requirements and passed radiated emissions testing performed by a third party. Emissions requirements are documented and passed via design control verification and validation testing. The RF power amplifier is limited by the Laird module to within the allowable limits for Bluetooth™ devices.
Quality of Service	QoS is not applicable to Bluetooth Low Energy as the device has no control over the prioritization of Bluetooth Low Energy traffic.
Recommended wireless security measures	The device uses Bluetooth Low Energy pairing and bonding to encrypt connections; however, there is no attempt made to authenticate the tablet or ImpediMed device during the initiation of the connection. No PII is transmitted across the connection and the ImpediMed device is only able to connect to a single central device (tablet) at a time, so it is immediately evident to the operator if the ImpediMed device is not connected to the tablet that the operator is using. Therefore, risk is extremely low that an attacker could either extract sensitive information or inject clinically relevant false information into the connection.
Wireless connection and troubleshooting	ImpediMed device selection, pairing, and pairing tools are included in the "Select and Pair Device" section of the IFU.

Wireless coexistence issues / mitigations	Bluetooth Low Energy is highly robust and insensitive to other wireless protocols while also emitting at such low power that it does not meaningfully interfere with most other wireless protocols even in the same 2.5GHz frequency band.
EMC and telecommunication compliance	EMC testing compliance is documented in Section 15, Product Specifications.
RF Wireless Communication Information	ImpediMed devices comply with Part 15 of the FCC Rules. For further discussion, see the Regulatory Statement section of the IFU.
RF Source Warnings	RF emissions are discussed in the Safety Information section of the IFU.
RF Reference Standards Information	RF reference standard application and descriptions are included in Safety Information section of the IFU.

1.6 Assessment Licences

Clinicians use the SOZO system to perform measurements and assessments on patients. As an ImpediMed customer, a Clinic must purchase a separate licence for each Assessment. A Clinic may purchase a licence to use one, some, or all Assessments offered in their geographic region by ImpediMed, depending upon the needs of the Clinic and its patients. Once the Clinic purchases Assessment licences, ImpediMed makes licenced Assessments available on the SOZOapp and MySOZO.

1.7 Minimum Internet Requirements

Users may access MySOZO.com with any device, including a PC, laptop, or mobile device, with internet access and a Google Chrome, Mozilla Firefox or Chromium-based Edge web browser.

The minimum and recommended requirements for internet access are as follows.

Minimum and Recommended Requirements

Component	Requirements
Internet Speed	Minimum: >15 Mbps download, 5 Mbps upload Recommended: >25Mbps download, 5 Mbps upload
Web Browser	Google Chrome, Mozilla Firefox, Chromium Based Edge
Minimum Screen Resolution (Tablet or PC)	≥ 1024 pixels for horizontal screen resolution
Minimum Tablet Specifications	The following Tablets have been verified to function with the SOZO App and use of some Tablets may be disabled within the app: <ul style="list-style-type: none"> ○ All iOS iPad Tablets (except iPad Mini 1st Gen)

Component	Requirements
	<ul style="list-style-type: none"> ○ Android Tablets – Lenovo TB125FU and Samsung Model SM-T580, SM-T500, SM-T510, X210, and Lenovo M-10
Recommended Tablet Specifications	<ul style="list-style-type: none"> • Android devices must run Android OS version 10 or later, to ensure continued support through official security updates. • iPad devices must run iPad iOS version 13 or later, to ensure continued support through official security updates.

1.8 Websites to Whitelist

To be able to take measurements and update the SOZOapp, the Tablet will need access to the following websites:

- MySOZO.com

To be able to access all functionality of MySOZO.com from a PC, the following additional websites require access:

- *.Quicksight.aws.amazon.com – Wildcard whitelist entry used for the Analytics Module of MySOZO.com. (Workstation Browser)
- The following endpoints are utilised for reports in the Analytics Module of MySOZO.com.

NOTE: Each endpoint corresponds with the tenant region:










- d758cqe2bs24d.cloudfront.net (US)
- d39m61wgn4vuk2.cloudfront.net (APAC)
- d3oh9w26wrjsck.cloudfront.net (EU)

If the Tablet is used on a restricted or managed network, the above websites may need to be whitelisted.

2 SAFETY

2.1 Signs and Symbols

The warning signs and the symbols below are listed to use this product safely and prevent injury.

Symbol	Definition
	This is an alert to the possibility of a problem with the device associated with its use or misuse that may result in bodily harm or device damage.
	What you should NOT do.
	This information is extremely important and should be followed closely.
	Follow instructions for use.
	Refer to the Instructions for Use
	A note refers to important information to which the user should pay special attention. Notes provide added insight and helpful information which can be useful to the operator.
	For EU Customers. All products at the end of their life may be returned to ImpediMed for recycling.
	This device is rated BF as per IEC60601-1. This device meets the standard IEC60601-1-2.
	This is a Class 2 medical device.
IP21	Protected from touch by fingers and objects greater than 12 millimetres. Protected from condensation.
Rx only	Prescription use only medical device.

2.2 Intended Use

Ensure that you have read and understand this entire Instructions for Use (IFU) before using the SOZO Device. No other specific skill or training is required to take measurements using the SOZO Device.

The SOZO Device is a medical device intended for clinical use by operators who have read this IFU. The SOZO Device is intended for use, under the direction of the operator, for the non-invasive monitoring and management of fluid levels in patients. This includes use under direction of a physician in patients with fluid management problems in a variety of medically accepted clinical applications.

2.3 Indication for Use

The SOZO Body Fluid Analyser has the following uses:

For adult human patients at risk of lymphoedema:

A bioimpedance spectroscopy device for use on adult human patients, utilising impedance ratios that are displayed as an L-Dex ratio that supports the measurement of extracellular volume differences between the limbs and is presented to the clinician on an L-Dex scale as an aid to their clinical assessment of lymphoedema.

The use of the device to obtain an L-Dex score is only indicated for patients who will have or who have had lymph nodes, from the axillary and/or pelvic regions, either removed, damaged or irradiated.

The SOZO Pro Body Fluid Analyzer is intended for adult patients living with heart failure.

This device is intended for use, under the direction of a physician, for the noninvasive monitoring of patients with fluid management problems suffering from heart failure. Data from the device should be considered in conjunction with other clinical data.

The SOZO Pro system may be used as an adjunct to existing methods by aiding clinicians who are using Subjective Global Assessment (SGA) tools to assess patients at risk of protein-calorie malnutrition (PCM).

The SOZO system may be further used to estimate the following body composition parameters in humans to track clinically relevant body composition parameters over time:

- Fat mass
- Fat-free mass
- Total body water
- Intracellular fluid
- Extracellular fluid
- Skeletal muscle mass
- The following outputs are also presented:
- Body Mass Index (BMI)
- Basal metabolic rate (BMR; based on Mifflin – St. Jeor’s algorithm) displayed in calories per day

- Protein and mineral (also known as 'dry lean mass') represents the content of a body that is not fat or fluid; calculated by subtracting total body water weight from fat-free mass weight.
- The SOZO Device measures current (I), voltage (V) and phase angle (Phi), and from these values calculates resistance (R), reactance (Xc), and impedance (Z), which are used to estimate the above body composition parameters. The device/software will also display the Cole plot, subject height, weight, age and sex.

2.4 Contraindications

The SOZO Device should not be used by:

Patients with cardiac arrhythmias who have permanent pacemakers (PPM) or ICDs, or Patients with any other active implanted electronic equipment (e.g., infusion pumps, neurostimulators, brain stimulators, etc.) or Patients undergoing external defibrillation.

2.5 Warnings

Pregnant patients:



While the use of bioimpedance technology in pregnant patients has been shown to have had no adverse effects, the SOZO Device has yet to be clinically validated for use with that population group.

2.6 Precautions



Ensure that you have read and understand these entire instructions for use document before using the SOZO Device. No other specific skill or training is required to take measurements using the SOZO Device.



Do not allow the SOZO Device to encounter any liquids.



Only use the Power Adaptor supplied with the SOZO Device. The use of any other Power Adaptor may expose the patient to the risk of electrocution.



Do not use or operate the SOZO Device in the presence of strong electromagnetic fields. This Medical Device may interfere with other Medical Devices in its vicinity.

Devices or other sources can potentially cause interference problems:



- Example 1: Heat from a radiant heater.
- Example 2: Moisture from a nebuliser.
- Example 3: Devices generating large electromagnetic fields such as MRI or DXA.



Keep away from small children or animals. Strangulation due to cables may occur and small parts may be inhaled or swallowed.



Avoid using on subjects with metal allergies. Allergic reactions may be caused by the stainless steel used in the electrodes of the SOZO Device.



Avoid using accessories, detachable parts and materials not described in the instructions for use, interconnecting the SOZO Device with other equipment not described in the instructions for use, or modifying the SOZO Device in any way.



The use of accessories, transducers, and cables other than those specified may result in increased Emissions or decreased Immunity of the SOZO Device



Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the SOZO system, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.



Degraded sensors and electrodes, or loosened electrodes, can degrade performance or cause other problems.



Ensure that all data collected from the SOZO Device is assessed under supervision of a physician when managing a chronic disease.



The SOZO Device has a maximum weight capacity of 170 kg (375 lbs). Do not use the SOZO Device in a standing position if patient weight exceeds 170 kg (375 lbs).



The SOZO Device is intended for indoor use only. Do not use outdoors.



SOZO impedance measurements require contact with all four (two hand and two foot) electrodes, therefore patients with partial or full limb amputation cannot have their impedance values measured with SOZO.

2.6.1 Prescription Use Only

The SOZO device, MySOZO and the SOZOapp are for prescription use only.

2.6.2 Storage Conditions and Use

2.6.2.1 Environmental Operating Conditions

The SOZO Device must be operated in the following conditions:

- A temperature range of +5°C to +40°C (+41°F to +104°F)
- A relative humidity range of 15% to 93%, non-condensing
- An atmospheric pressure range of 700 hpa to 1060 hpa

The SOZO Device has been validated against applicable electrical safety standards for use in both clinical and home environments.

2.6.2.2 Environmental Transport and Storage Conditions

The SOZO Device must be transported and stored within the following conditions:

-25°C (-13°F) without relative humidity control and +70°C (158°F) at a relative humidity up to 93%, non-condensing.

If the unit has been stored at the extremes of these temperature ranges, allow it to return to within its operating temperature conditions (approximately 35 minutes) before installing or using.

2.6.3 Location for Use

When used with the stand accessory, the SOZO Device should be placed on a flat, stable surface near a standard power outlet, with room on either side to allow free access to the electrodes. If the system is configured for seated use, place on a non-metal desk that allows comfortable access from a seated position to the SOZOstep and SOZOtouch components. For seated use, a non-metal chair should be used.



Do not place SOZO Device on any object or material made of metal, other than the SOZOsupport footplate and handplate.



The SOZO Device should not be used adjacent to or stacked with other equipment and, if adjacent or stacked use is necessary, the SOZO Device should be observed to verify normal operation in the configuration in which it will be used.



Using the SOZO Device on carpet may cause static electricity, which could damage the equipment. If installing the SOZO Device on carpet is unavoidable, please use the SOZOsupport Stand, or an antistatic mat.



Various environmental factors may interfere with the SOZO Device performance including: the effects of lint, dust, light (including direct sunlight), as well as pets, pests, or children. Example: Devices generating large electromagnetic fields such as MRI or DXA.



Do not use in the presence of flammable anaesthetic gasses or in an oxygen-rich environment.



Surface temperature may exceed 47° C (117° F) in normal use. Do not use SOZO Device if it is hot to the touch. Disconnect the SOZO Device by unplugging the Power Adaptor and call ImpediMed Technical Support.

3 PERSONAL DATA

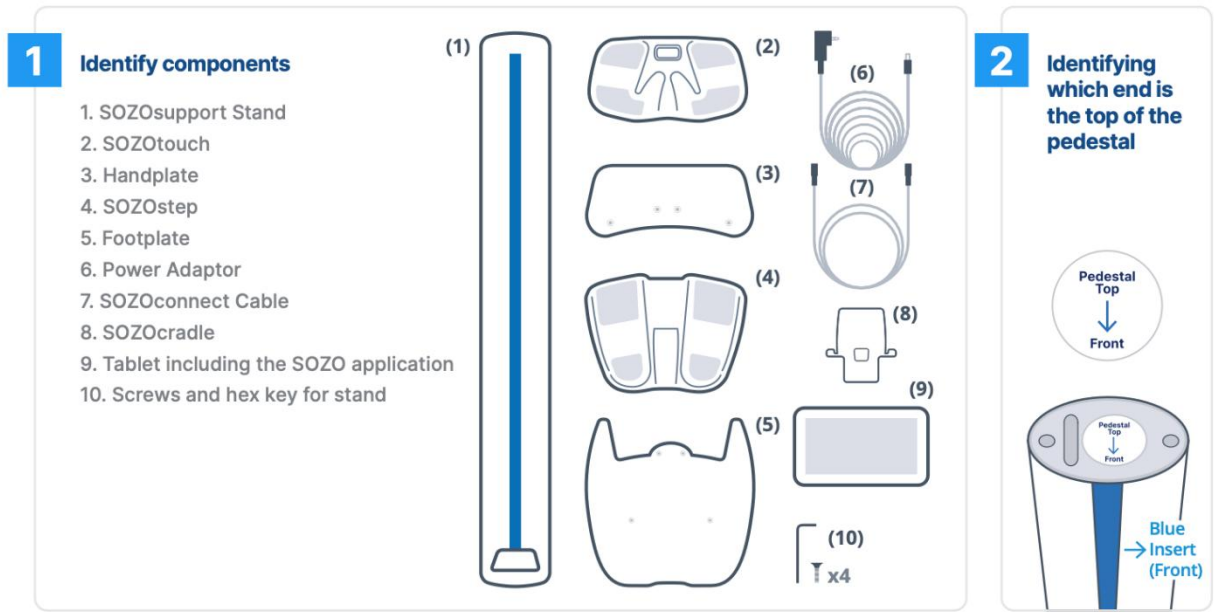
Read our privacy policy located at

<https://www.impedimed.com/privacy-policy/>

4 DEVICE ASSEMBLY

4.1 Identify SOZO® Device Components

Before assembly, identify the SOZO Device components shown below.



4.2 Assembling the SOZO® Device with SOZOsupport Stand

Most patients stand during measurement, which requires assembly of the SOZO Device with the SOZOsupport Stand. Follow these steps to assemble the SOZO Device with the SOZOsupport Stand.

NOTES:

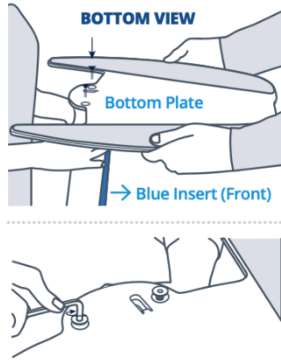
For an easier process, have two people assemble the SOZOsupport Stand. The first person can hold the SOZOsupport Stand with the base upward while the second person holds the Footplate on the SOZOsupport Stand. The first person attaches the Footplate using the Hex Key.

Once the Footplate and Handplate are connected to the SOZOsupport Stand, the large droplet hole should be near the top, opposite of the blue stripe as shown in step 5.

3 Screw the footplate (5) into the base of the SOZOsupport Stand (1).

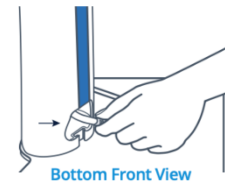
NOTE: It is recommended that two people take part in assembling the stand in order to make the process quicker, easier and safer.

Have one person hold the stand with the base upward. Have the second person hold the footplate on the stand while the first person attaches the plate using the hex key (10).



5 Lace the SOZOconnect cable (7) through the SOZOsupport Stand (1).

Feed the SOZOconnect cable through the droplet hole on the back of the stand and out the front hole at the base of the stand.



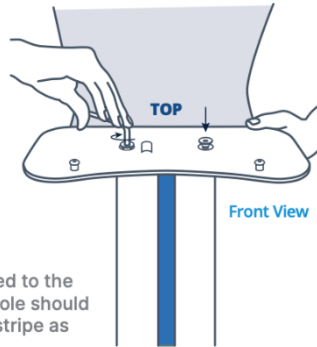
NOTE: The connector cable port is identical on both the hand plate and foot plate.

4 Screw the handplate (3) into the top of the SOZOsupport Stand (1).

a. Place the handplate on the top of the SOZOsupport Stand with the mounting screws facing up.

b. Using the hex key (10), attach the handplate with the remaining screws provided.

NOTE: Once both plates are connected to the SOZOsupport Stand, the large drop hole should be near the top opposite of the blue stripe as shown in top graphic of step 4.



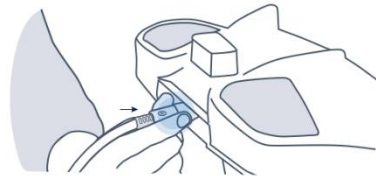
6 Attach the SOZOtouch (2) to the handplate (3).

Place the SOZOtouch onto the mounting screws and push forward to lock into place.



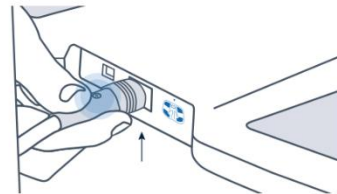
7 Attach the SOZOconnect cable (7) to the SOZOtouch (2).

Ensure the screw on the connector cable is facing upwards before attaching it to the SOZOtouch.



8 Attach the SOZOconnect cable (7) to the SOZOstep (4).

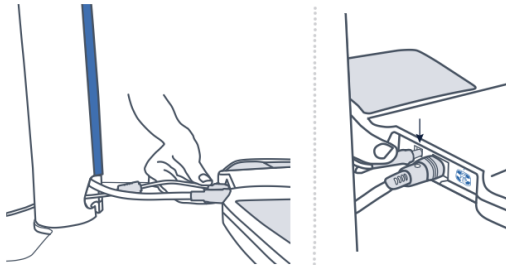
Ensure the screw on the connector cable is facing upwards before attaching it to the SOZOstep.



9 Connect the power cord (6) to the SOZOstep (4).

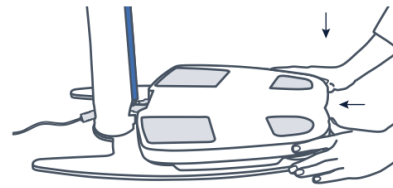
NOTE: Ensure the SOZOconnect cable is plugged into both the SOZOtouch and SOZOstep before connecting the power cord to the SOZOstep.

Locate the power supply port on the back of the SOZOstep. Feed the corresponding end of the power supply cable through the openings in the bottom of the stand and connect it into the port.



10 Attach the SOZOstep (4) to the footplate (5).

a. Place the SOZOstep onto the mounting screws and push forward to lock into place.



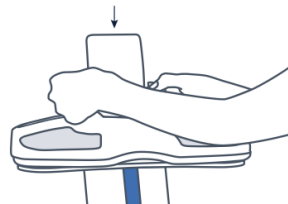
b. Once the SOZOstep is in place, plug the power cord into the wall.



NOTE: Ensure there is 4 inches or 10 centimeters between the backside of SOZOtouch and any wall.

11 Attach the SOZOcradle (8) to the SOZOtouch (2).

Once the cradle is secure, place the tablet (9) in a landscape position on the SOZOcradle.



12

Set-Up Complete.

Observe the following warnings while assembling the SOZO Device.



Only use the Power Adaptor supplied with the SOZO Device. The use of any other Power Adaptor may expose the patient to the risk of electrocution.



Ensure that the SOZOconnect Cable is plugged in to SOZOtouch and SOZOstep before connecting the Power Cord. If the SOZO Device must be moved, ensure that the Power Cord is disconnected before moving or uninstalling the system.



When plugging the Power Cord into the wall outlet, the SOZO system will automatically run a self-test to ensure functionality. Do not touch the stainless-steel electrodes when a self-test is running.

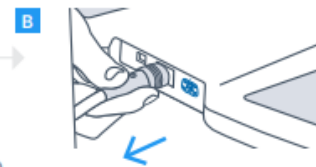
For more information on setting up the SOZO system with the SOZOsupport Stand, visit www.impedimed.com or contact ImpediMed [Technical Support](#).

4.3 Using the SOZO[®] Device for Seated Measurements

To measure patients in the seated position, please follow the steps in the diagrams below.

1

Prepare SOZO for sitting position



Remove the cable

Disconnect the power supply, then disconnect the cable from the SOZO hand and foot plates and remove it from the stand.

Remove SOZOtouch

Remove the SOZOtouch hand plate by sliding it forward and lifting up.

Remove SOZOstep

Remove the SOZOstep foot plate by sliding it backward and lifting up.

2

Place SOZO for sitting position

Place the SOZOstep foot plate on the floor. Place the SOZOtouch hand plate on a table across the patient or on a pillow in the patient's lap. Reconnect the cable making sure the screw on the connector is facing up and proceed with the measurement.

⚠ Do not use a metal table or chair

The patient should:

- Sit back in chair with body in balance and shoulders rolled back
- Ensure patient's feet lay flat on the SOZOstep, with equal pressure on both

The weight limit for SOZO:

Standing: 375 lb/170 kg
Sitting: 750 lb/340 kg

You may leave the white cord in this position to perform measurements standing and sitting.

TIP: Be sure that bare skin is not touching bare skin. **Example:** Patient is wearing shorts and their bare legs are touching each other. **Solution:** Put a towel, paper towel or piece of cloth between the legs.



NOTE: For clinical use, the SOZOcradle can be reversed with the ledge of the holder facing away from the electrodes. Place the Tablet onto the ledge of the SOZOcradle, so that the SOZOcradle is holding the Tablet.

To use the SOZO Device while the patient is sitting, follow the instructions for use in [8.3.2, Seated Position](#).

For more information on setting up the SOZO system without the SOZOsupport Stand, visit www.impedimed.com or contact ImpediMed [Technical Support](#).

5 MySOZO

5.1 Introduction to the MySOZO System

- The MySOZO system is a cloud-based system encompassing database storage, encryption, data analysis, secure authentication services and a logging system.
- MySOZO allows the user to access the SOZO system from any user device with internet access and Google Chrome, Mozilla Firefox, or Chromium-based Edge web browsers (“supported browsers”). See [Minimum Internet Requirements](#).
- MySOZO is accessed through a web portal, MySOZO.com. SOZO accounts and patient data, including measurement data and assessment results may be viewed in MySOZO.
- The SOZOapp interfaces with MySOZO to access patient data and accounts which allows a clinician to manage their patients. In addition, the SOZOapp interfaces with the SOZO Device to take measurements.
- A MySOZO account must be created before the user can begin using the SOZOapp on the Tablet or access MySOZO.com.
- After the Clinic receives and starts the SOZO system setup, ImpediMed will establish the initial authorization and licences and create the first Clinic Administrator.
- Once the initial Clinic Administrator has been created by ImpediMed, additional Administrators and Clinicians may be added by the Clinic Administrators. All users, whether they are Administrators or Clinicians, are identified by their email address.

5.2 MySOZO Users (Administrators and Clinicians)

The steps below apply to all MySOZO users. These include sign-in, password set-up, and reset for a forgotten password or password expiration.

5.2.1 First Time Set-Up

1. New User Email

ImpediMed sends the user an email from no-reply@impedimed.com with a temporary password, as shown in the example below.

Select the Password Setup link provided in the email.

NOTE: The temporary password expires after 24 hours.

2. Set New Password

- a. After you select the email link, a new browser window opens and the Set New Password screen appears. Enter the temporary password followed by the new password and confirmation of the new password. To view the password, select the eye icon.

b. Ensure that the new password meets all character requirements.

NOTE: The password must be between 8 and 20 characters containing at least:

- One number
- One special character: !"#\$%&'()*+,-./:;<=>?_@[]^`{|}~
- One upper case letter
- One lower case letter
- You cannot use your last 3 passwords

c. To set and confirm the new password, select **Submit**.

NOTE: Only the user has access to their password. No other user may see or have access to this password.

Welcome to MySOZO!

MySOZO is the online portal for the SOZO Digital Health System by ImpediMed. To begin, start by setting up your password. After your password is setup, you can access MySOZO using a Chrome or Firefox browser at <https://mysozocloud.com>.

Password setup:
<https://mysozocloud.com/NewPassword?usernameParameter=rterry@carlsbadclinic.com&newUser=true>

Your temporary password: **01CY0tB,**

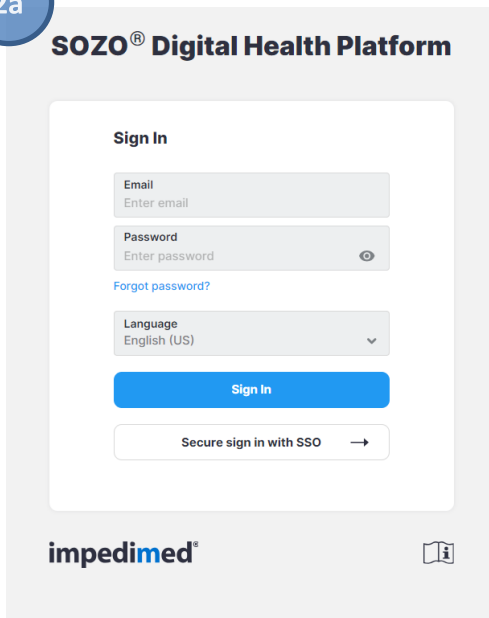
If you need any help, we encourage you to contact us at www.impedimed.com/support.

Sincerely,

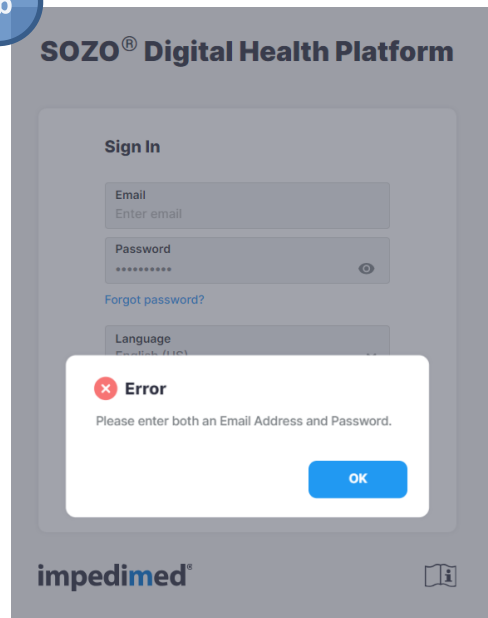
ImpediMed Customer Experience Team

NOTICE: This email originated from outside of ImpediMed's organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

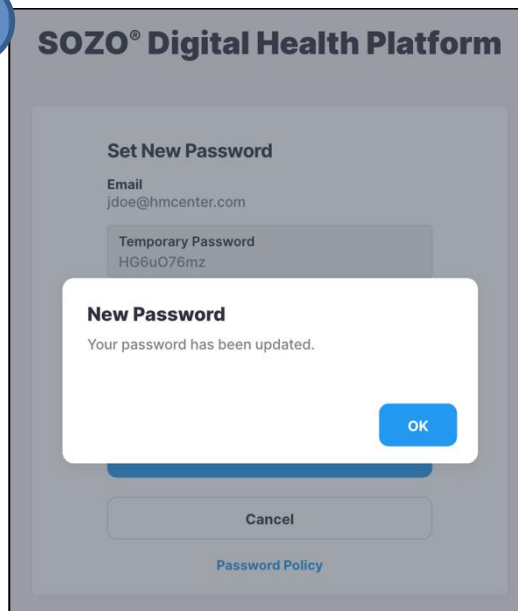
2a



2b

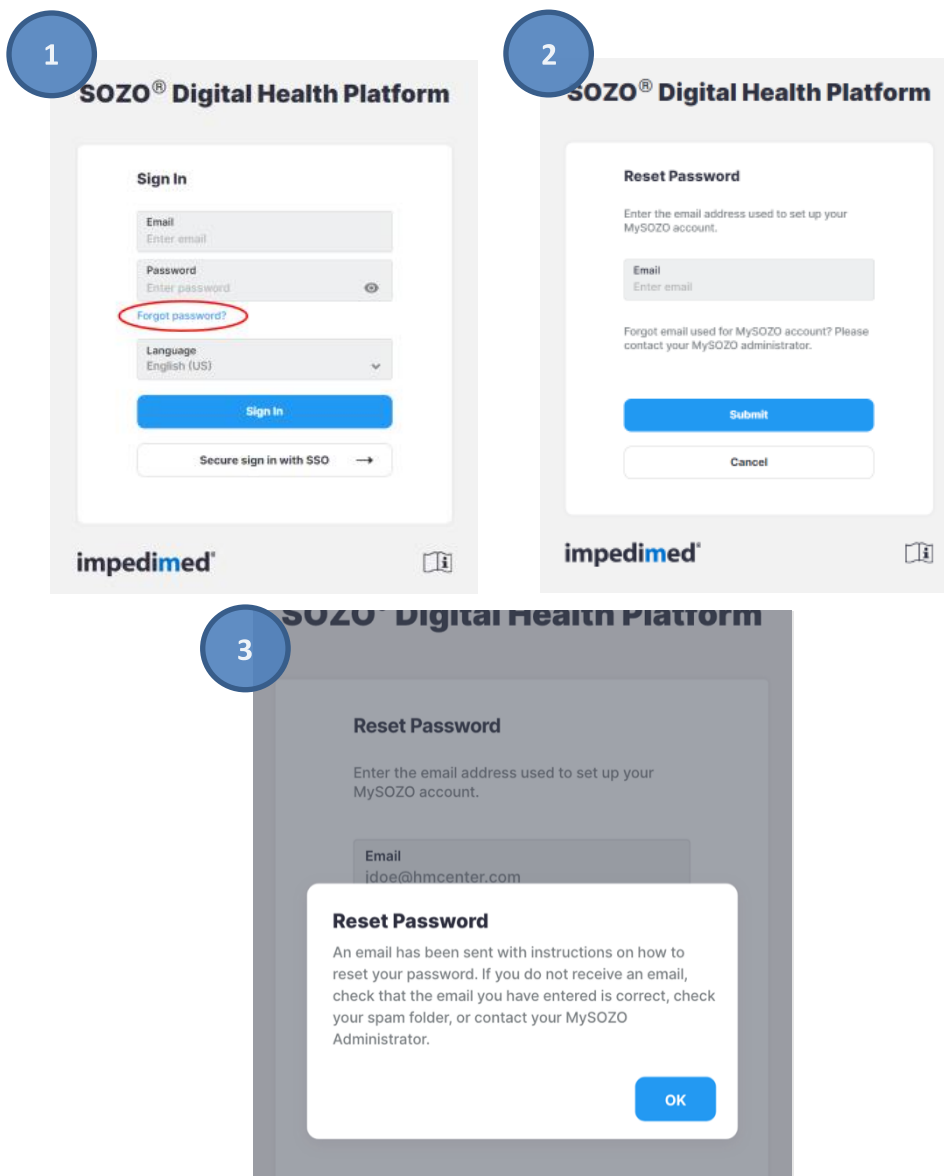


2c



5.2.2 Password Reset

1. If you have trouble signing in or have forgotten your password, select **Forgot password?** located beneath the password box on the sign-in screen.
2. When prompted, enter the email address for your MySOZO account. A password reset email will be sent from ImpediMed if a valid email has been entered.
3. After you receive the email with password reset instructions, select the Reset Password link in the email. The Set New Password screen appears.
 - a. Ensure that the new password meets all letter and character requirements.
 - b. Set and confirm the new password and then select **Submit**.



A request has been made to reset the MySOZO password associated with jdoe@hmcenter.com

This link is valid for one hour to reset your password:

<https://mysozocloud.com/NewPassword?usernameParameter=jdoe@hmcenter.com&newUser=false&codeParameter=542481>

If you did not request a password reset, contact your MySOZO Administrator. If one hour has passed since receiving this email, you may reset your password at <https://testspint.mysozocloud.com/SendEmail>.

Sincerely,

[ImpediMed Customer Experience Team](#)

WARNING: This email originated from outside of ImpediMed's organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

4a

SOZO® Digital Health Platform

Set New Password

Email
jdoe@hmcenter.com

Error

Password must be between 8 and 20 characters, containing at least:

1. One number
2. One special character (!#\$%&'()+,-/;:;<=>?_@[]^{}|~)*
3. One upper case letter
4. One lower case letter
5. Cannot be one of the last 3 passwords used

OK

Cancel

[Password Policy](#)

4b

SOZO® Digital Health Platform

Set New Password

Email
jdoe@hmcenter.com

New Password
Enter new password

Confirm New Password
Enter new password

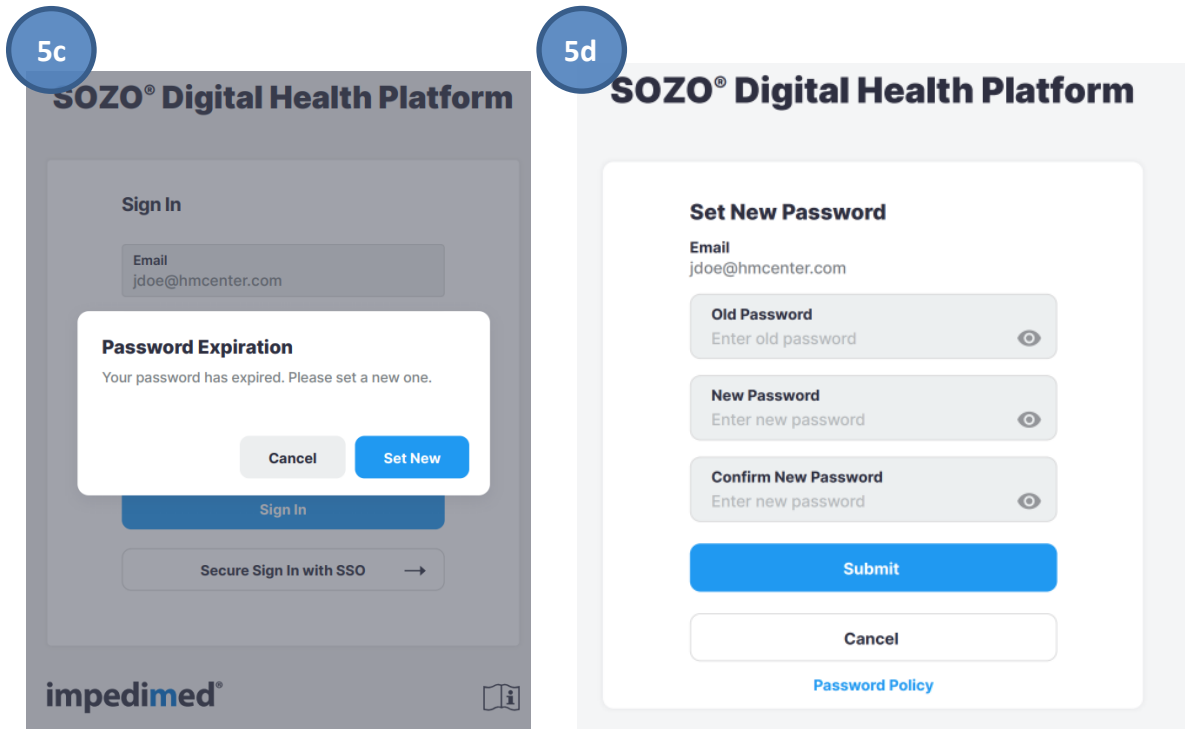
Submit

Cancel

[Password Policy](#)

5.2.3 Password Expiration

The Clinic Administrator will set the Password Expiration Period in days (30-1000 days). A pop-up will warn the user about upcoming password expiration. To reset the password, select **Set New**.



6 MySOZO ADMINISTRATOR

A user with an Administrator role has authority to do the following:

- Manage MySOZO user accounts (create, edit, delete, restore users)
- Create and edit groups
- Create and edit tags
- Add and edit device name
- Adjust SOZO system-wide settings which include security, report logo, time zone lymphoedema surveillance program protocol and multi-factor authentication settings
- Export Audit Logs.

A user with an Administrator role can be created or added by another existing user with an Administrator role. Users are identified by their email address.

6.1 Administrator Home Page

For Administrators, set a password and sign in per the instructions in [5.2.1, First Time Set-Up](#). After signing in the MySOZO Administrator home page will display the User List.

Users may be assigned both Administrator and Clinician roles, and can access both functions from the same sign-in. The Admin tab is bold and underlined if the user is signed in as an Administrator. If an Administrator also has the Clinician role, they can toggle between Administrator and Clinician screens by selecting **Admin** or **Clinician**.

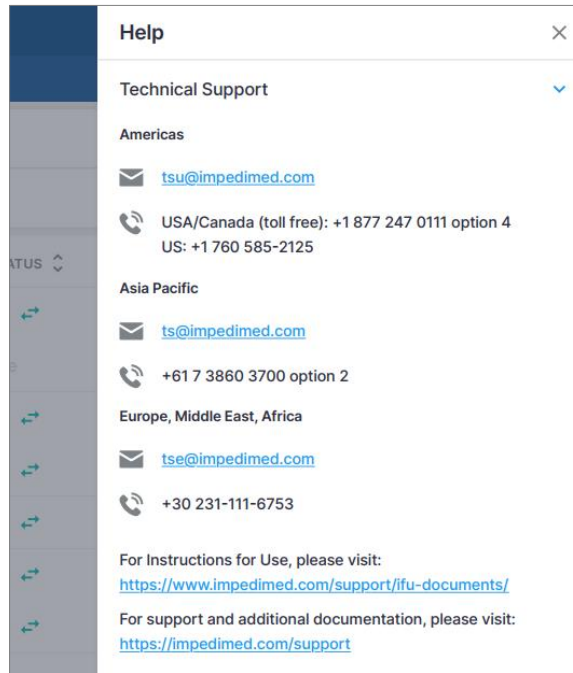
The banner icons enable common administrative functions.

The screenshot shows the MySOZO Administrator interface. At the top, there is a navigation bar with the 'impedimed Hospital Medical Center' logo and two tabs: 'Admin' (which is bold and underlined) and 'Clinician'. A red circle highlights the 'Admin' tab. Below the navigation bar, there are buttons for 'Add New' and 'Export Audit Logs'. A search bar is present, and a pagination control shows 'First', '1', '2', '3', '4', '5', '6', and 'Last'. The main content is a table with the following columns: FIRST NAME, LAST NAME, EMAIL, MFA STATUS, LAST SIGN IN, and ROLE. The table lists several users, including Anderson, Atkinson, Armstrong, Abott, and Baker, with their respective roles and MFA statuses.

FIRST NAME	LAST NAME	EMAIL	MFA STATUS	LAST SIGN IN	ROLE
Anderson	Mattie	amattie@carlsbadclinic.com	Active	27 Jan 2023, 10:00	ADMIN CLINICIAN
Atkinson	Jacqueline	ajacqueline@carlsbadclinic.com	Inactive	27 Jan 2023, 13:00	CLINICIAN
Armstrong	Matilda	marmstrong@carlsbadclinic.com	Active	27 Jan 2023, 14:35	CLINICIAN
Abott	Jeremias	jabbott@carlsbadclinic.com	Active	26 Jan 2023, 10:03	CLINICIAN
Baker	Ingo	ibaker@carlsbadclinic.com	Active	27 Jan 2023, 10:00	CLINICIAN

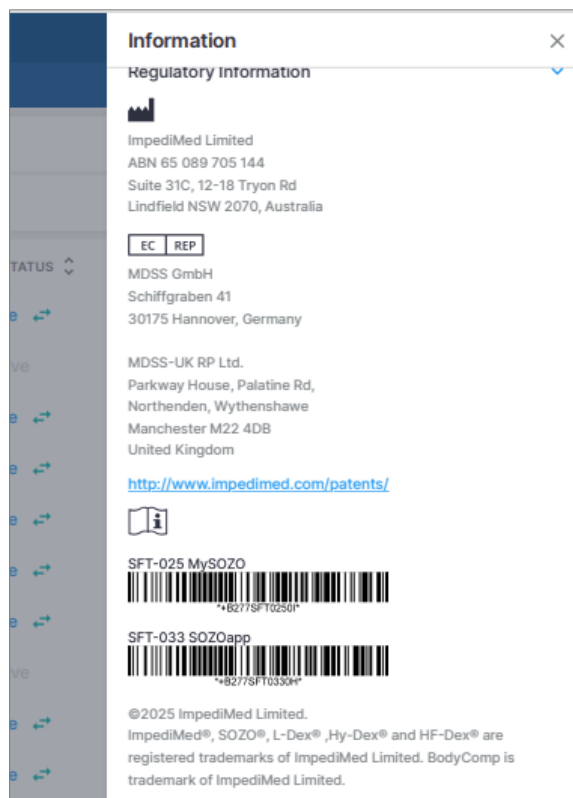
6.1.1 Help Icon

For assistance with use of MySOZO, select the **Help** icon. The Help page includes contact information for ImpediMed Technical Support and product Information.



6.1.2 Info Icon

For information about MySOZO, select the **Info** icon. The Information page includes Licencing Status, Software Information and Regulatory Information.



Licencing Status: Lists all SOZO modules, active modules are shown with the description underneath, inactive modules are displayed as “Not active”.

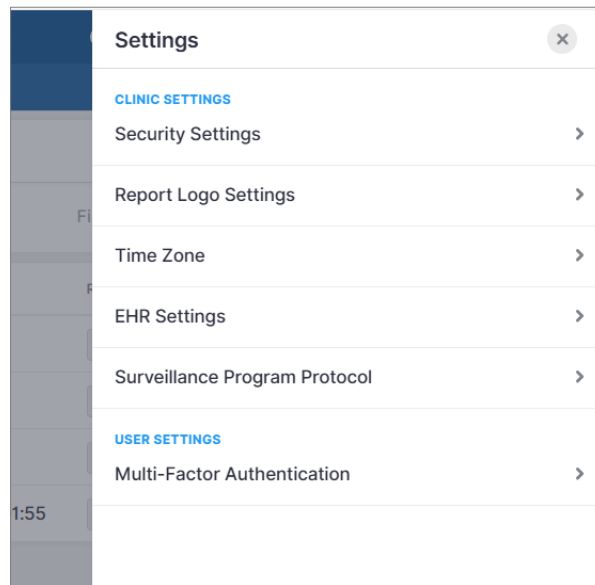
Software Information: Displays current mySOZO version and if it is up to date. There is also an option to Update if required. The administrator password will be required to Update. Release notes for current and previous versions are also listed.

Regulatory Information: Provides information regarding the manufacturer, notified body and other important information.

6.1.3 Administrator Settings Icon

The Administrator may adjust MySOZO system-wide settings by selecting Settings, located in the top right corner of the home page.

This includes Clinic Settings: Security Settings, Report Logo Settings, Time Zone, EHR Settings, and Surveillance Program Protocol; and User Settings; Multi-Factor Authentication. If changes have been made, select **Save**.

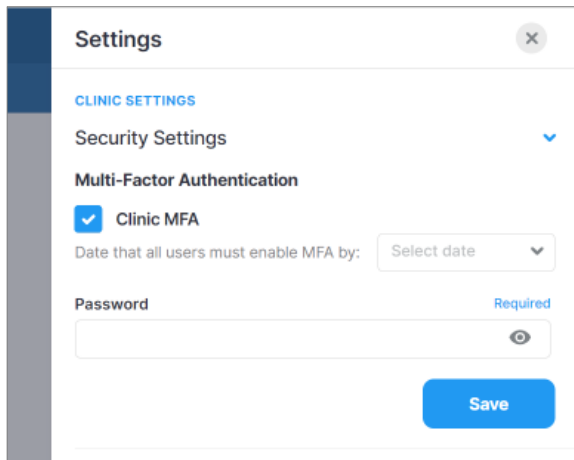


6.1.3.1 Security Settings

As a default setting, users set up and maintain individually chosen passwords. Per hospital policy, MySOZO allows a user with the Administrator role to configure Multi-Factor Authentication (MFA) or Single Sign-On (SSO) as additional security measures.

6.1.3.1.1 Administrator Multi-Factor Authentication

The Clinic Administrator may elect to implement Multi-Factor Authentication for all users within the clinic. Within Settings, the Administrator will define the date by which all other users must implement MFA for their account from within settings. On that date, all users will have to implement MFA for their own account after attempting to sign in.



The screenshot shows a 'Settings' window with a close button (X) in the top right corner. Under the 'CLINIC SETTINGS' section, 'Security Settings' is expanded. The 'Multi-Factor Authentication' section contains a checked checkbox for 'Clinic MFA'. Below it is a label 'Date that all users must enable MFA by:' followed by a 'Select date' dropdown menu. A 'Password' field is also present, marked as 'Required' and with a toggle to show/hide the password. A blue 'Save' button is located at the bottom right of the settings panel.

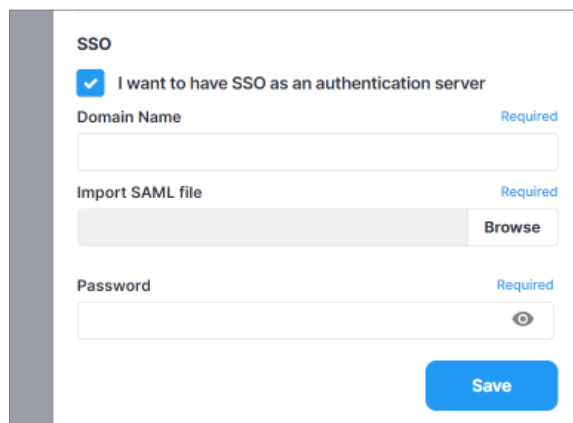
To turn MFA on, the Administrator will need to check Clinic MFA under Security Settings, enter an “enable by” date, their password and select **Save**.

Once enabled, MFA will require use of a code generated by a 3rd party authenticator app (e.g., Google Authenticator; Microsoft Authenticator) that is compliant with the TOTP standard. Once the authenticator app is set up, activate the MFA for the Clinic Administrator account using the slider under User Settings, Multi-Factor Authentication.

NOTE: Once an Administrator has required MFA use by the clinic and the enable date has passed, staff will not be able to sign in to SOZOapp or MySOZO without implementing their own personal MFA.

6.1.3.1.2 Single Sign-On

If your organization is set up for **Single Sign-On (SSO)** users can rely on SSO to sign in instead. Users can work with ImpediMed Technical Support to set up SSO.



The screenshot shows an 'SSO' configuration window. It features a checked checkbox for 'I want to have SSO as an authentication server'. Below this are three required fields: 'Domain Name', 'Import SAML file' (with a 'Browse' button), and 'Password'. A blue 'Save' button is positioned at the bottom right of the configuration area.

6.1.3.1.3 Password and Sign Out Policy

The Clinic Administrator can set the Password Expiration Period here. This defines the length of time which a user's password is valid. After this time period, the user is required to change their password. It can range from 30 to 1000 days.

The Clinic Administrator can also set the Sign out Inactivity Time here. This defines the length of time which a user remains signed into the SOZO system from their initial Sign in or last extension. After this time period, the user is automatically signed out or prompted to extend the session. It can range from 5 to 60 minutes.

Password Policy

The password must be between 8 and 20 characters containing at least:

1. One number
2. One special character (!"#\$\$%&'()*+,-./:;<=>?_@[]^`{|}~)*
3. One upper case letter
4. One lower case letter
5. Cannot be one of the last three passwords used.

Password Expiration Period (in days)
Range: 30 - 1000 days

Sign out Policy

Automatic Sign Out Time From Initial Sign In (in minutes)
Range: 5 - 60 minutes

6.1.3.2 Report Logo Settings


The Clinic Administrator can upload a logo to the SOZO system. This logo will be printed on reports. The maximum size is 1MB and the supported file format is PNG.

Settings

CLINIC SETTINGS

Security Settings >

Report Logo Settings ▾



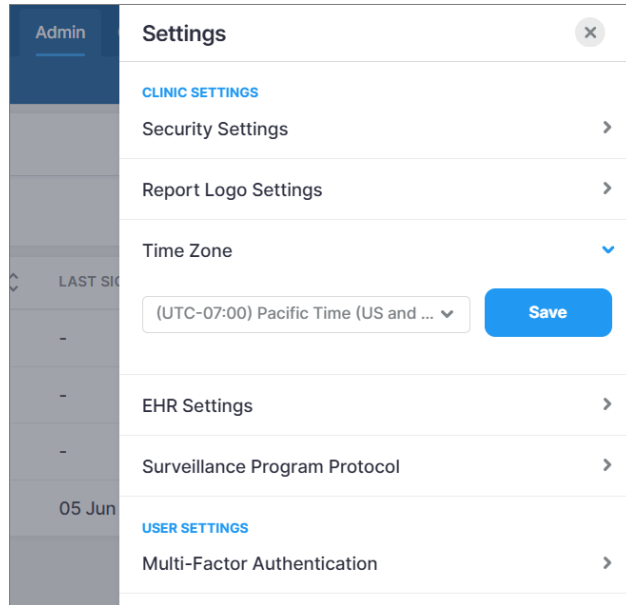
Maximum Size 1MB
File supported format PNG

Time Zone >

EHR Settings >

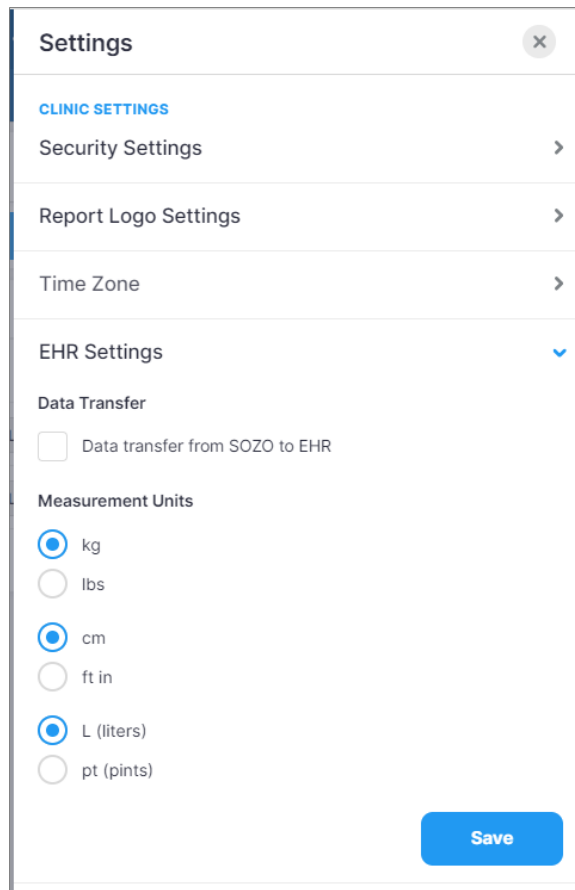
6.1.3.3 Time Zone

The Clinic Administrator can select the correct time zone here.



6.1.3.4 EHR Settings

The Clinic Administrator can work with ImpediMed Technical Support during MySOZO set-up or contact ImpediMed Technical Support after the system has been installed, to set up the EHR Interface Settings. Full EHR interface configuration will require additional set-up outside of MySOZO to complete.



After the EHR interface has been established, the Clinic Administrator can start data transfer to an electronic health record by checking the data transfer box and select the measurement units for the transfer. Contact ImpediMed Technical Support for further details.

6.1.3.5 Surveillance Program Protocol

The Clinic Administrator can set the surveillance protocol to be used, Evidence-Based or Custom.

The screenshot shows the 'Surveillance Program Protocol' configuration window. The 'Select Protocol to use' dropdown is set to 'Evidence-Based Protocol'. The 'Duration' is set to '6 years'. Under 'Testing Frequency', there are six rows for Year 1 through Year 6. Year 1, 2, and 3 are set to 'Every 3 Months'. Year 4 and 5 are set to 'Every 6 Months'. Year 6 is set to 'Every 12 Months'. A blue 'Save' button is at the bottom right.

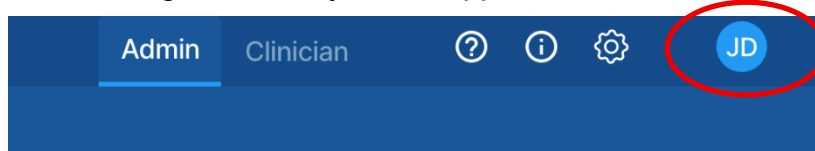
If Custom Protocol is selected, the Administrator can change the default Duration and then set the Testing Frequency for each year in the selected Duration years.

This screenshot shows the 'Surveillance Program Protocol' configuration window with 'Custom Protocol' selected in the 'Select Protocol to use' dropdown, which is circled in red. The 'Duration' is set to '6 years'. The 'Testing Frequency' section shows Year 1 through Year 6 with dropdown menus set to 'Every 3 Months', 'Every 3 Months', 'Every 3 Months', 'Every 6 Months', 'Every 6 Months', and 'Every 12 Months' respectively. A blue 'Save' button is at the bottom right.

This screenshot shows the 'Surveillance Program Protocol' configuration window with 'Custom Protocol' selected. The 'Duration' is set to '6 years'. The 'Testing Frequency' section shows Year 1 through Year 6. A dropdown menu is open for Year 1, showing options: 'Every 3 Months' (checked), 'Every 4 Months', and 'Every 6 Months'. A blue 'Save' button is at the bottom right.

6.1.4 Administrator User Profile Icon

The name of the user signed into MySOZO appears next to the **User Profile** icon.



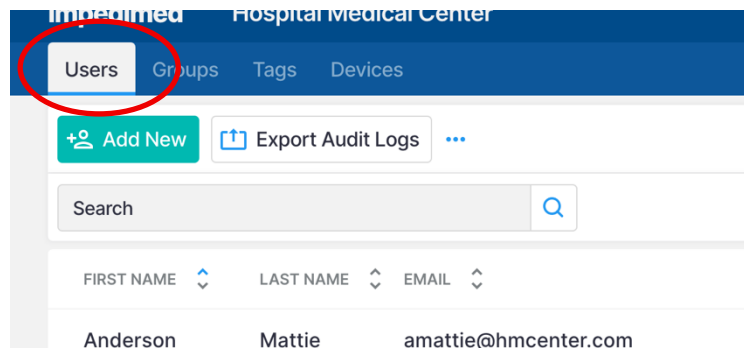
To review or edit the User profile, select the User Profile icon and then select **My Profile**.

To sign out of MySOZO at any time, select the User Profile icon then select **Sign Out**.

A screenshot of the MySOZO user profile edit form. The form is divided into several sections. The top section contains fields for 'First Name' (Jane), 'Middle Name' (Sarah), and 'Last Name' (Doe). Below these are fields for 'Email' (jdoe@hmcenter.com) and 'Phone Number'. The 'ROLE' section has two checkboxes: 'Admin' and 'Clinician', both of which are checked. A 'Sign Out' button is located at the bottom of the form, circled in red. A 'Save' button is also visible on the right side of the form.

6.2 Administrator User List

Select the **Users** tab at any time to return to the User list on the MySOZO Administrator home page.



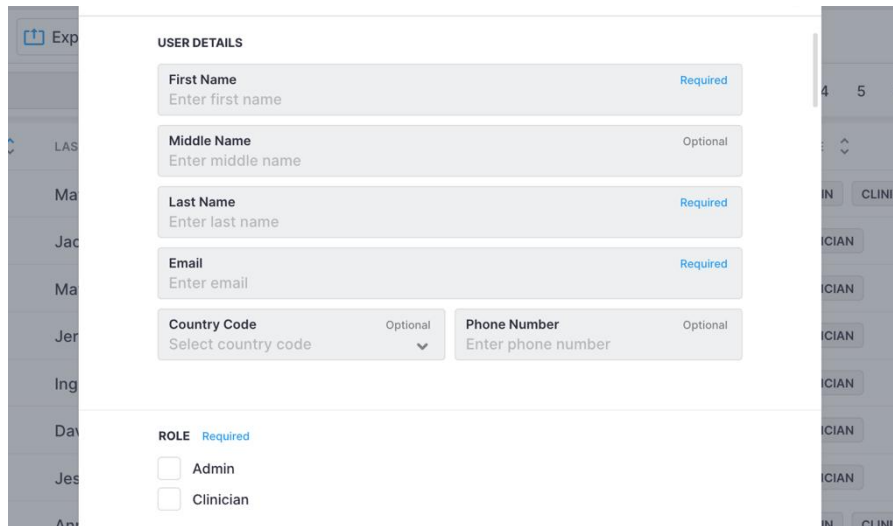
6.2.1 Create New User

An Administrator creates a user by selecting **Add New**. The user may be assigned as an Administrator and/or Clinician. There is no limit to the number of users that can be created.

1. On the **Create User** screen, enter the user's first name, last name, and email address.

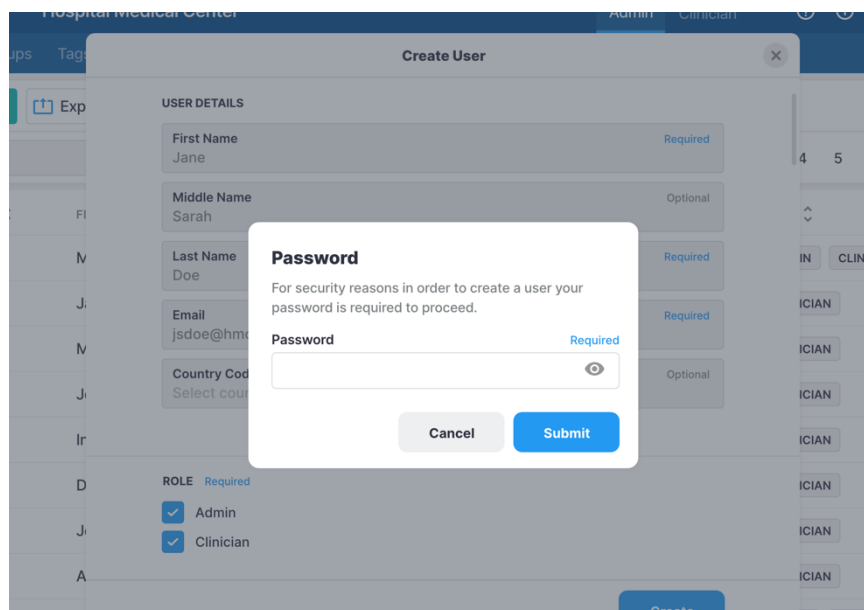
The remaining fields, including middle name, country code, and phone number, are optional.

2. Under **Role**, select Administrator and/or Clinician.
3. When finished, select **Create** and enter the Administrator password.



The screenshot shows the 'Create User' form with the following fields and options:

- First Name** (Required): Enter first name
- Middle Name** (Optional): Enter middle name
- Last Name** (Required): Enter last name
- Email** (Required): Enter email
- Country Code** (Optional): Select country code (dropdown)
- Phone Number** (Optional): Enter phone number
- ROLE** (Required):
 - Admin
 - Clinician



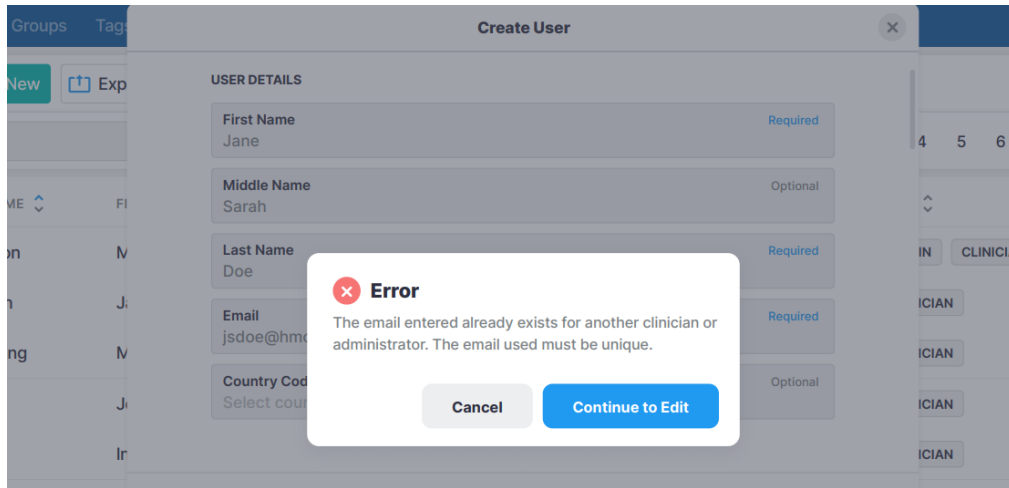
The screenshot shows the 'Create User' form with a password prompt overlay. The form fields are filled with the following information:

- First Name** (Required): Jane
- Middle Name** (Optional): Sarah
- Last Name** (Required): Doe
- Email** (Required): jsdoe@hmc
- Country Code** (Optional): Select country code
- ROLE** (Required):
 - Admin
 - Clinician

The password prompt overlay contains the following text and fields:

- Password** (Required): For security reasons in order to create a user your password is required to proceed.
-
-
-

The same email address may not be assigned to more than one user, even when the user is acting as both the Administrator and the Clinician. If the email is already assigned, a Caution will state that the user already exists.



6.2.2 Edit User

An Administrator may edit a user profile by selecting the user's name. On the User Profile screen, the Administrator may update User information.

The Administrator may edit the user's email by selecting **Change**. Once a user's email is changed, a notification will be sent to both the old and the new email address.

1. Make updates as needed.
2. Select **Save**.

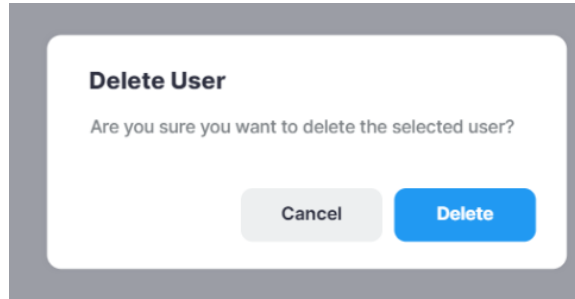
NOTE: Only an Administrator may edit a user's email address. A Clinician may edit their own email address but does not have authority to change another user's email address.

A screenshot of a 'User Profile' form. The form has several input fields: 'First Name' (Jane, Required), 'Middle Name' (Sarah, Optional), 'Last Name' (Doe, Required), 'Email' (jsdoe@hmc, Required), 'Country Code' (Select country code, Optional), and 'Phone Number' (Enter phone number, Optional). There is a 'Change' button next to the email field, which is circled in red. Below the input fields, there is a 'ROLE' section with two radio buttons: 'Admin' (unchecked) and 'Clinician' (checked). A 'Save' button is located at the bottom right of the form.

6.2.3 Delete User

To delete a user:

1. On the Users List, select the ellipsis located next to the user's role.
2. Select **Delete**.
3. In the Delete User warning pop-up, select **Delete**.

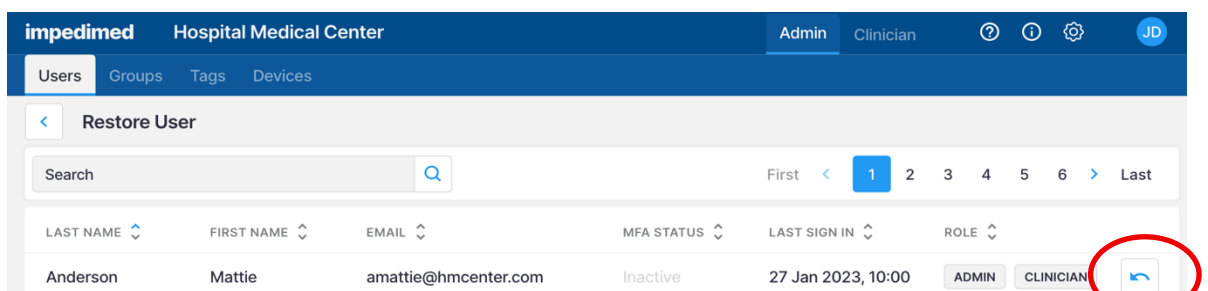
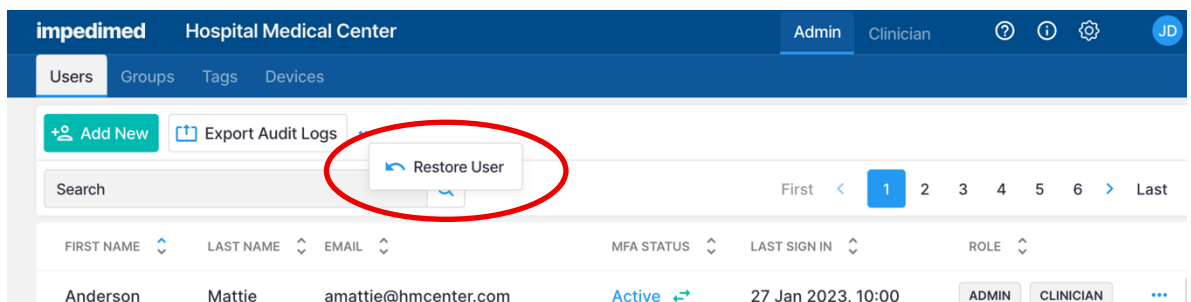


6.2.4 Restore User

MySOZO stores deleted user accounts. If a user is accidentally deleted, the user may be restored.

To restore a deleted User:

1. On the Users List, select the ellipsis located in the top right corner, next to the **Export Audit Logs** tab.
2. Select **Restore** user.
3. Search the user list for the user profile to be restored.
4. Select the blue arrow to restore the user.
5. In the Restore User warning pop-up, select **Restore**.



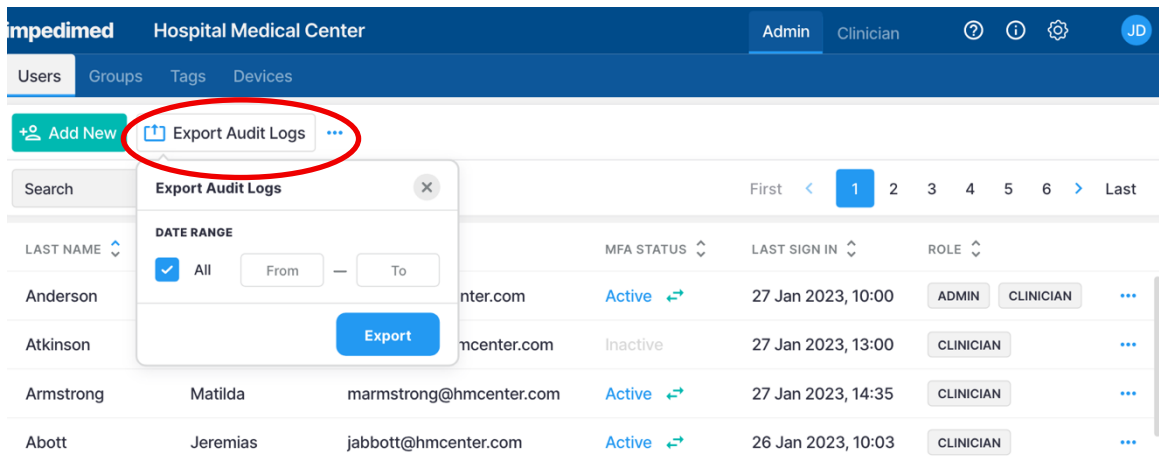
6.2.5 Audit Logs

A user with Administrator role may access audit logs of all system access and events, to assist in any audit or investigation. Audit logs may be exported directly from MySOZO.

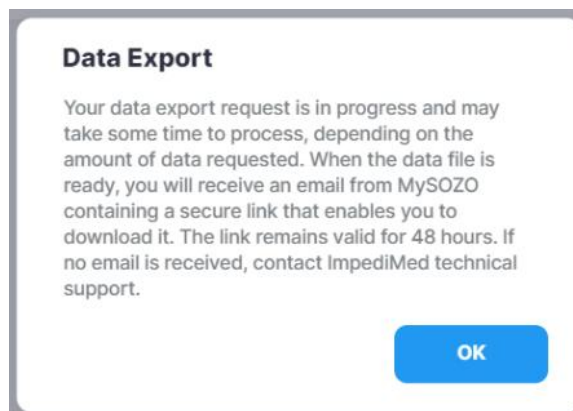
Audit logs include identity of users who have viewed certain MySOZO pages or information, identity of users who have retrieved data, users' sign-in and log-out dates and times, date and time of measurements, edits to patient or user profiles.

To export audit logs:

1. Select **Export Audit Logs**.
2. Enter dates in the To and From boxes to view audit logs from a specific date range. The default is set to "All".
3. Select **Export** to export logs. A message confirms that the data export request is in progress. Select **OK**.
4. ImpediMed will send the user an email containing a secure link to download the Audit Logs. The link is valid for 48 hours.



The screenshot shows the ImpediMed Hospital Medical Center interface. The top navigation bar includes 'Admin' and 'Clinician' tabs. Below the navigation bar, there are tabs for 'Users', 'Groups', 'Tags', and 'Devices'. A green '+ Add New' button is visible, along with a blue 'Export Audit Logs' button with a dropdown arrow, which is circled in red. A modal dialog box titled 'Export Audit Logs' is open, showing a 'DATE RANGE' section with a checked 'All' option and 'From' and 'To' input fields. Below this, there is an 'Export' button. The background shows a table of users with columns for 'LAST NAME', 'MFA STATUS', 'LAST SIGN IN', and 'ROLE'. The table lists users like Anderson, Atkinson, Armstrong, and Abbot.

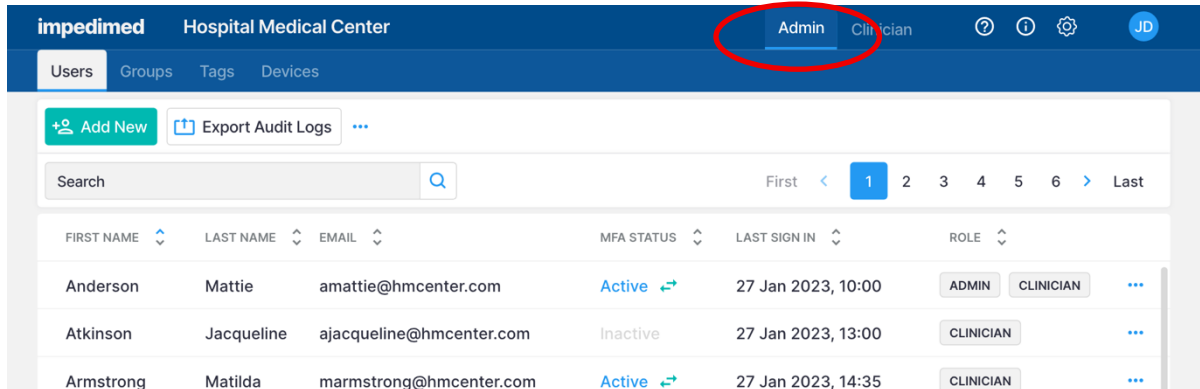


The screenshot shows a 'Data Export' confirmation message. The message text reads: 'Your data export request is in progress and may take some time to process, depending on the amount of data requested. When the data file is ready, you will receive an email from MySOZO containing a secure link that enables you to download it. The link remains valid for 48 hours. If no email is received, contact ImpediMed technical support.' There is an 'OK' button at the bottom right of the message box.

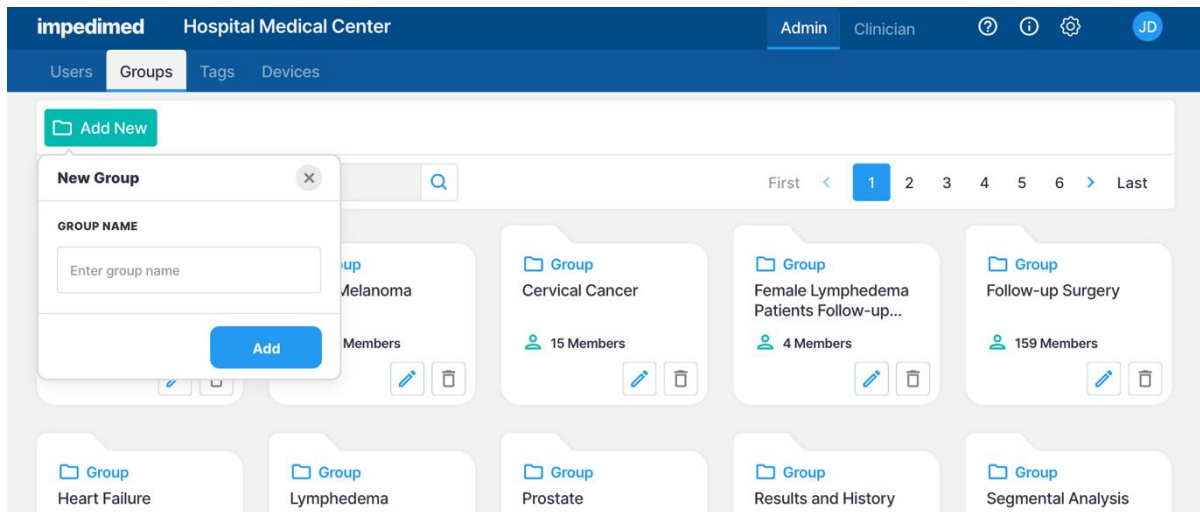
The file will be sent to the email address used to sign in; the file can be opened in Notepad. It will contain detailed logs including the date, time and actions undertaken by each user.

6.3 Administrator Patient Groups

Select **Groups** at any time to return to the Groups List on the MySOZO Administrator home page.



A user assigned to the Administrator role can create and name groups. Users assigned to a Clinician role may assign/remove Patients to/from the groups. To manage Patient Groups, select the Groups icon to bring up the following screen:



6.3.1 Create a New Group

To create a new Patient Group:

1. On the Groups List, select **Add New** in the top left corner under the **Groups** tab.
2. Enter the group name.
3. Select **Add**. The new group folder will appear below with the other group folders.

6.3.2 Rename/Delete Group

To rename a Patient Group:

1. On the Groups List, select the blue pencil (edit icon) on the folder to be updated.
2. Update the Patient Group name.
3. Select the green check mark (save icon).

To delete a Patient Group:

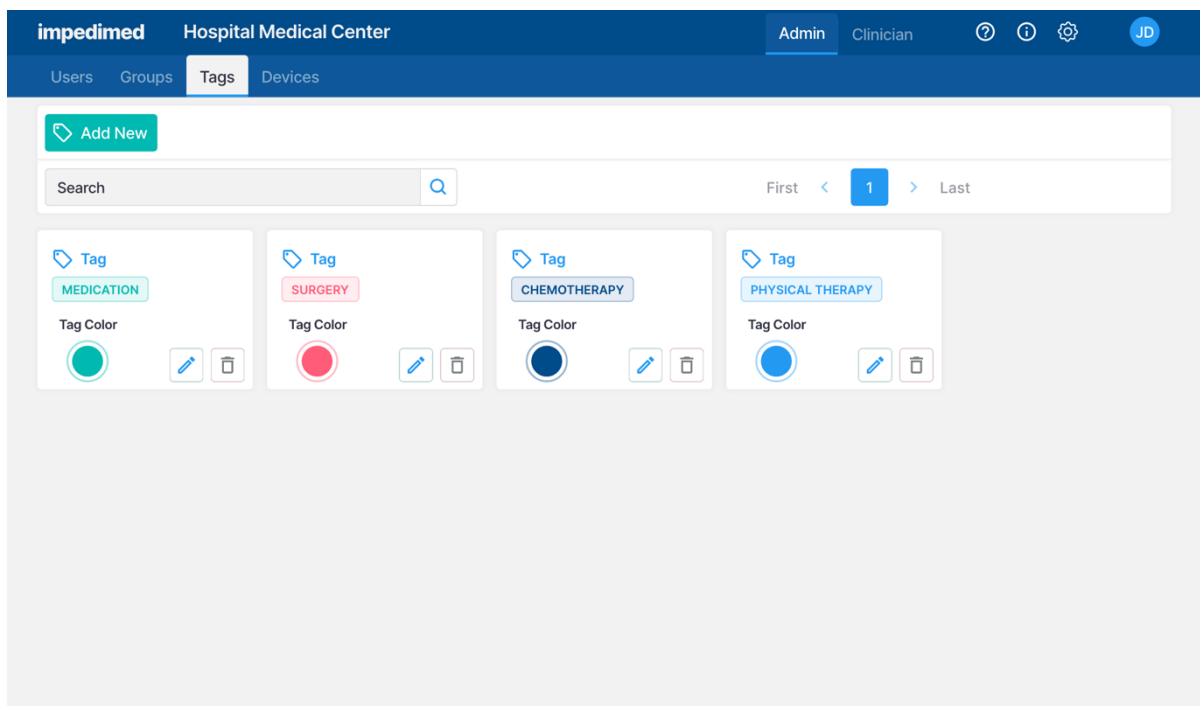
1. On the Groups List, select the grey trash can (delete icon) on the folder to be deleted.
2. In the Delete Group warning pop up, select **Delete**.

6.4 Administrator Patient Tags

Select **Tags** at any time to return to the Tags list on the MySOZO Administrator home page.



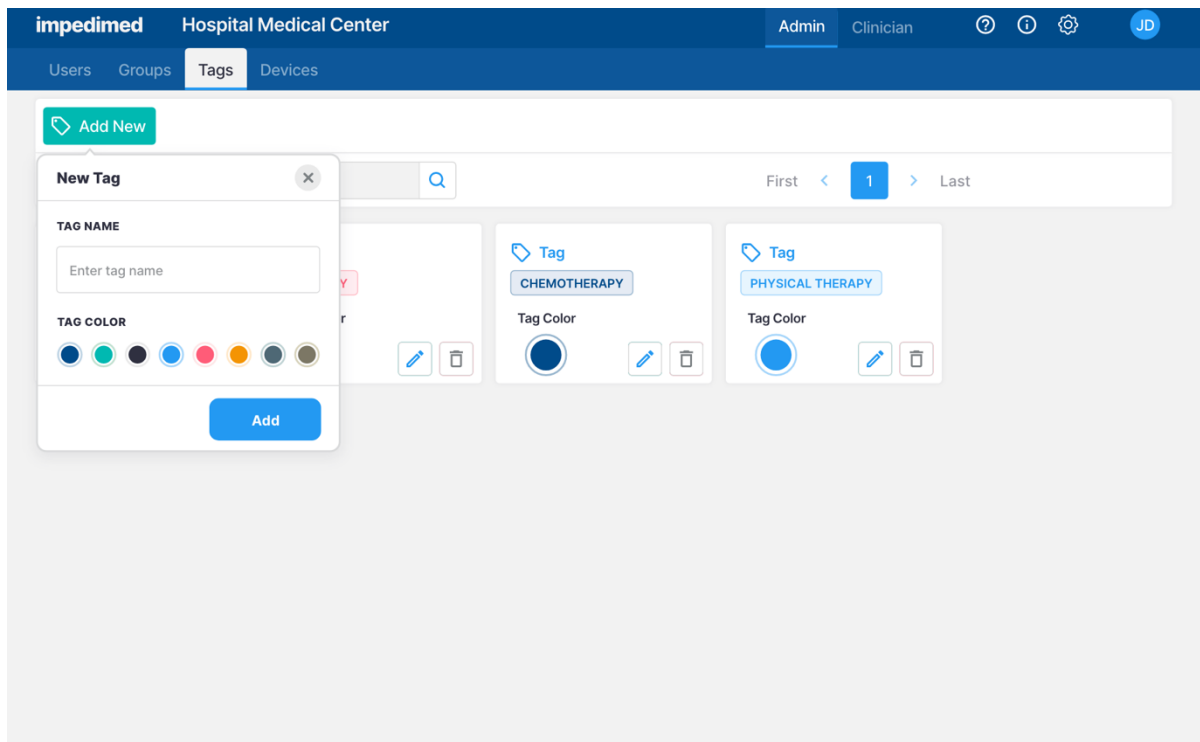
Tags are clinic-defined 48-character colour-coded objects that can be attached to a given measurement by a clinician. They allow additional information or notes to be linked to the measurement. The tags used within a clinic can only be managed by a user with an Administrator role.



6.4.1 Create a New Tag

To create a new Tag:

1. On the Tags List, select **Add New** in the top left corner, under the **Tags** tab.
2. Enter the tag name and select a tag colour.
3. Select **Add**. The new tag will appear below with the other tag folders.



6.4.2 Rename/Delete Tag

To rename a Tag:

1. On the Tags List, select the blue pencil (edit icon) on the tag to be updated.
2. Update the tag name.
3. Select the green check mark (save icon).


To delete a Tag:

1. On the Tags List, select the grey trash can (delete icon) on the tag to be deleted.
2. In the Delete Tag warning pop-up, select **Delete**.




NOTE: When renaming a tag, it will be automatically renamed for all tags used to date. If a tag is deleted, it will remain assigned to all measurements but will no longer be available to be assigned to a measurement.

6.5 Naming A SOZO Device

When setting up a new SOZO device in a system where multiple devices are in use, naming each device may be helpful. To name a device, navigate to the Admin module and the **Devices** tab, and select **+ Add device name** for the desired SOZO device.

impedimed Hospital Medical Center			Admin	Clinician	?	i	⚙️	JD
Users Groups Tags Devices								
Search				First < 1 2 3 4 5 6 > Last				
SERIAL NUMBER	DEVICE NAME	LAST ASSESSMENT						
SOZO-03L0717160R	+ Add device name	27 Jan 2023, 10:00						
SOZO-03L0717124	Rehabilitation Center Device 	27 Jan 2023, 13:00						
SOZO-03J2018034R	+ Add device name	27 Jan 2023, 14:35						

Add the device name then select the green check box, to confirm the device name.

impedimed Hospital Medical Center			Admin	Clinician	?	i	⚙️	JD
Users Groups Tags Devices								
Search				First < 1 2 3 4 5 6 > Last				
SERIAL NUMBER	DEVICE NAME	LAST ASSESSMENT						
SOZO-03L0717160R	+ Add device name	27 Jan 2023, 10:00						
SOZO-03L0717124	Medical Oncology 	27 Jan 2023, 13:00						
SOZO-03J2018034R	Oncology Center Device  	27 Jan 2023, 14:35						

7 MySOZO AND SOZOapp CLINICIAN

In the ImpediMed SOZO software version 6.3, the MySOZO web site and the SOZOapp Tablet application are designed to share a nearly identical user interface and share many features and capabilities. The key differences are:

- SOZOapp on the Tablet is used to take patient measurements. You cannot take measurements using MySOZO.
- MySOZO on a PC is used to generate reports. You cannot generate reports using SOZOapp.

A user with a Clinician role has authority to do the following:

- Manage patient profiles
- Add/Remove patients to/from groups
- Add tags to patient measurements
- View and take patient measurements
- Export data or create reports
- Share data with other MySOZO users

7.1 Clinician Home Page

Clinicians, prior to signing in for the first time, must set a password and sign in per the instructions in 5.2.1, First Time Set-Up. After you sign in, the MySOZO Clinician home page will display the Patient List. The full Patient List can be seen by selecting the **Search** icon with a blank search field.

Any user may be assigned to both Clinician and Administrator roles. Users assigned a Clinician role will default to the Clinician role on initial sign in; the icon will be displayed in bold and underlined. If a Clinician also has Administrator rights, they can toggle between Clinician and Administrator screens by selecting **Clinician** or **Admin**.

The functions for each icon at the top of the window (circled below) are described in the following sections.

impedimed Hospital Medical Center Admin Clinician ? i ⚙️ JD

Patients Groups Shared Data Analytics

+ Add New Export ...

All patients [Search] First < 1 2 3 4 5 6 > Last

LAST NAME	FIRST NAME	DOB	SEX	MRN	LAST ASSESSMENT
Adamson	Petra	27 Apr 1956	Female	300005000001	16 Mar 2023 17:05
Archerson	Jacqueline	30 Aug 1977	Female	746566476980	17 Apr 2021, 17:00
Armstrong	Matilda	13 Aug 1939	Female	637629887499	05 Jan 2020, 12:37
Atkinson	Jeremias	05 Dec 1960	Male	938767447000	23 Dec 2017, 16:55
Baker	Ingo	30 Mar 1947	Female	636544553009	27 Jan 2021, 10:30
Campbell	David	03 Feb 1958	Male	700000387677	08 Jun 2020, 10:55

7.1.1 Help Icon

For assistance with use of MySOZO, select the **Help** Icon. The Help page includes (via the Technical Support dropdown) contact information for ImpediMed Technical Support and product Information.

Clinician ? i

Help

Technical Support

Americas

- ✉️ tsu@impedimed.com
- 📞 USA/Canada (toll free): +1 877-247-0111 option 4
US: +1 760-585-2125

Asia Pacific

- ✉️ ts@impedimed.com
- 📞 +61 7 3860 3700 option 2

Europe, Middle East, Africa

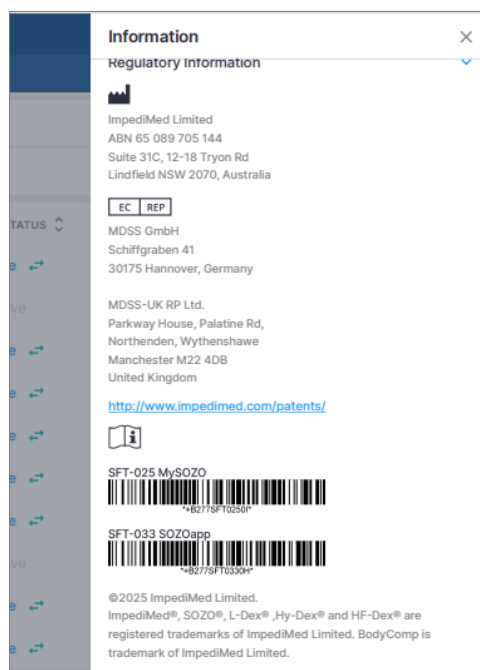
- ✉️ tse@impedimed.com
- 📞 +30 231-111-6753

For Instructions for Use, please visit:
<https://www.impedimed.com/support/ifu-documents/>

For support and additional documentation, please visit:
<https://impedimed.com/support>

7.1.2 Info Icon

For information about MySOZO, select the **Info** icon. The Information page includes Licencing Status, Software Information and Regulatory Information.



Licencing Status: Lists all SOZO modules, active modules are shown with the description underneath, inactive modules are displayed as “Not active”.

Software Information: Displays current MySOZO version and if it is up to date. Release notes for current and previous versions are listed.

Regulatory Information: Provides information regarding the manufacturer, notified body and other important information.

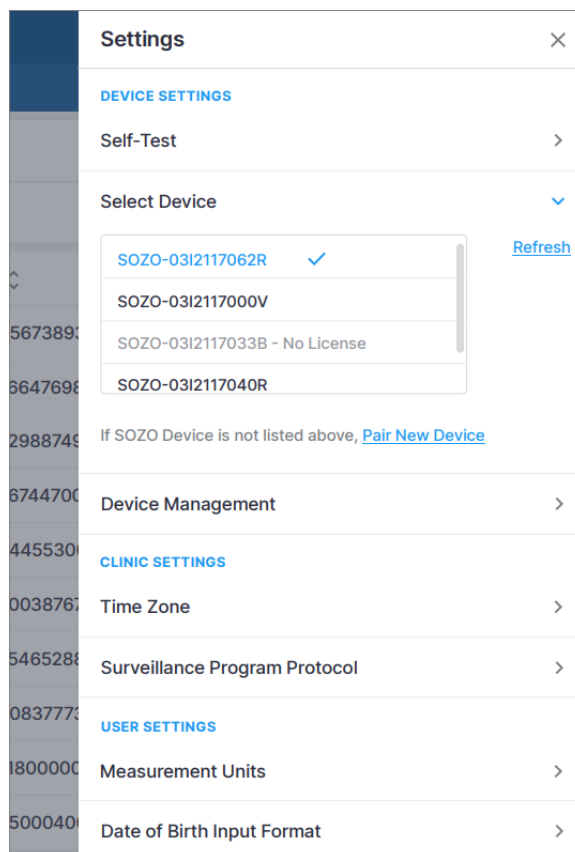
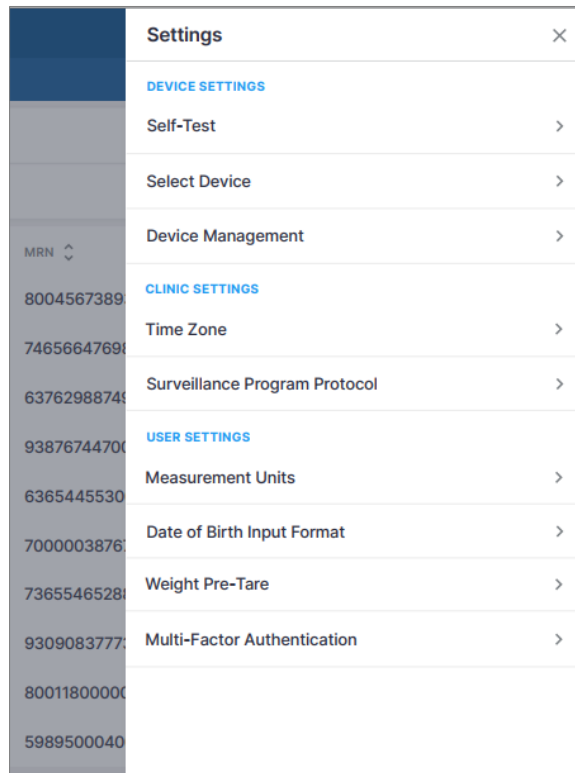
7.1.3 Clinician Settings Icon

The Clinician may adjust some MySOZO settings by selecting Settings, located in the top right corner of the home page.

From the Settings menu, the Clinician can configure preferred Measurement Units, change the input format for Date of Birth, turn on personal Multi-Factor Authentication, and update Tablet software through the Software Information submenu, as well as pair and run a self-test on the paired SOZO Device.

The user may also view, but not change, the selected Time Zone, the Surveillance Program Protocol, Technical Support information, as well as the clinic’s available SOZO licences, the SOZOapp software information, and any applicable regulatory information.

NOTE: The user can view and change Pre-Tare Weight only when a SOZO Pro device is connected.



7.1.3.1 Select and Pair Device

The Tablet must be paired with the SOZO Device in order to take measurements.

NOTE: Android and iOS Tablets have different pairing approaches.

Whether pairing to Android or iOS Tablets, the SOZO Device is identified by a serial number. When pairing with an iOS iPad, only devices that have identification starting with "IOS" will be available for connection.

The SOZO Device serial number may be found on the

- SOZOtouch housing
- SOZOconnect cable
- SOZOstep housing

The Tablet must be paired for any new SOZO Devices, and the pairing process must also be repeated if either the Tablet or system is replaced. The SOZOapp may only select and work with one SOZO Device at a time.

ImpediMed recommends keeping the SOZO Device together with its paired Tablet. The Tablet may pair with other devices but will only control measurements from the SOZO Device identified under **Select Device**.

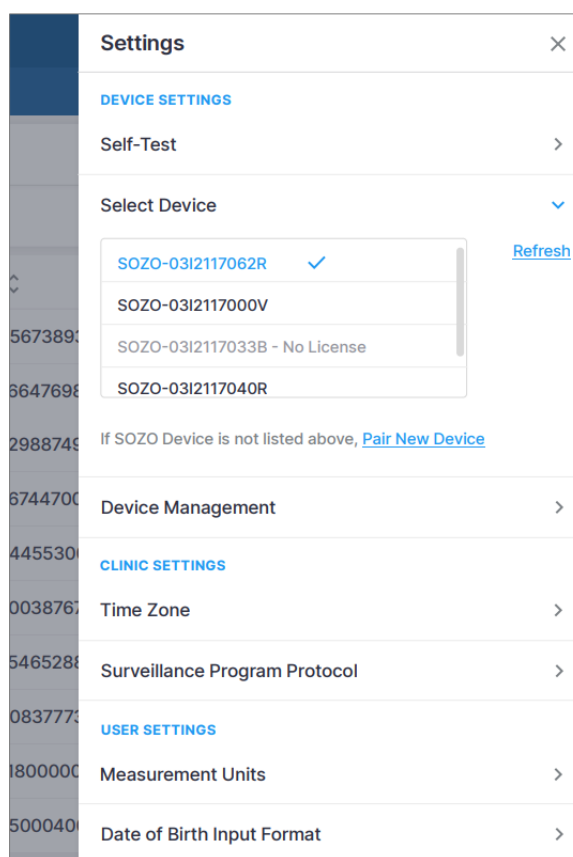
SOZOapp remembers the last SOZO Device used and will automatically point to that SOZO Device, even after signing out. If using the iOS SOZOapp, the SOZO Device will only be remembered if the SOZO Device is also powered on when the user signs in. Once the SOZO Device is selected, the SOZOapp automatically pairs with the SOZO Device through *Bluetooth*[®].

7.1.3.1.1 Android

1. To use a SOZO device with an Android Tablet for the first time, it first must be paired through the Android operating system.
 - a. Locate Settings on the Tablet and enable *Bluetooth*[®].
 - b. Once *Bluetooth*[®] is enabled, the Tablet scans for connection to the SOZO Device. Select **Pair new device** and select the SOZO Device serial number.
 - c. Alternatively, the Tablet settings can be accessed using the SOZOapp and navigating to the Settings page and selecting **Select Device**. Select the option to **Pair New Device** to open the Tablet Bluetooth settings.

NOTE: If a SOZO device has been previously paired with the Tablet, it will not be listed when adding a new device.

2. After the SOZO device is paired, it must then be selected from the **Select Device** menu in SOZOapp Settings.
 - a. A list of SOZO Devices that have been previously paired over Bluetooth will be displayed. If the paired device is not present, select **Refresh**.
 - b. Select the desired device and ensure that it is highlighted in blue with a tick mark next to it.



NOTE: Do not pair an Android Tablet to a SOZO system whose serial number starts with “IOS”. The Android SOZOapp will not be able to communicate with the SOZO Device. If this occurs, choose a SOZO Device with an identification that does not start with “IOS”, or, navigate into the Bluetooth Settings menu to unpair the SOZO Device.

7.1.3.1.2 iOS

- a. The SOZO Device must be paired through SOZOapp itself, not through the operating system. If the device is paired through the iOS Tablet settings, the SOZOapp will be unable to communicate with the SOZO Device.
- b. Go directly to SOZOapp and sign in. From the Settings menu, choose **Select Device**, and select the appropriate iOS-compatible SOZO Device (a serial number starting with “IOS”).
- c. In the Bluetooth pairing request message, select **Pair**. The selected SOZO Device serial number will turn blue with a tick mark next to it.

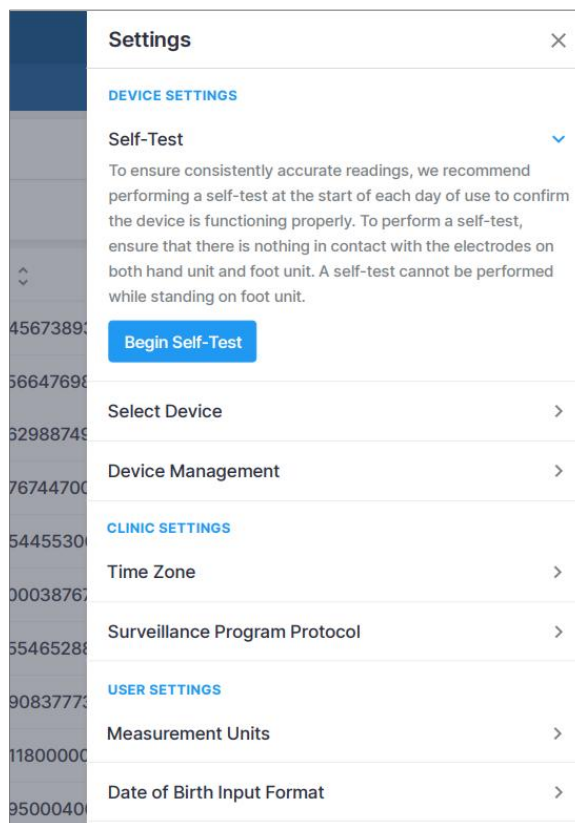
7.1.3.2 Self-Test

Self-tests may be run for different purposes.

- **Device Status Confirmation:** A Self-test is optional to confirm connection to the correct SOZO Device during initial set-up.
- **Recommended Step Before Taking Measurements:** A self-test is recommended preparation for taking measurements. It should be run daily before taking the first measurement of the day.

To run a self-test:

1. From the Device Settings menu, select **Self-Test**, then select **Begin Self-Test**.
2. Follow additional instructions as prompted.



7.1.3.3 Device Management

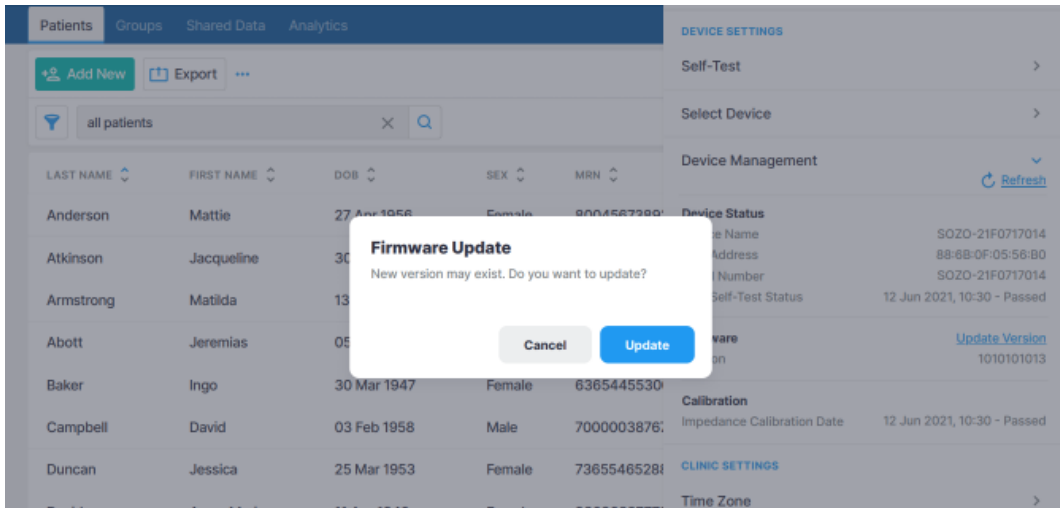
From the Device Settings menu, select **Device Management**.

Once the Tablet is paired to a device, information about the device can be obtained by selecting **Refresh** next to **Device Management**.

Firmware

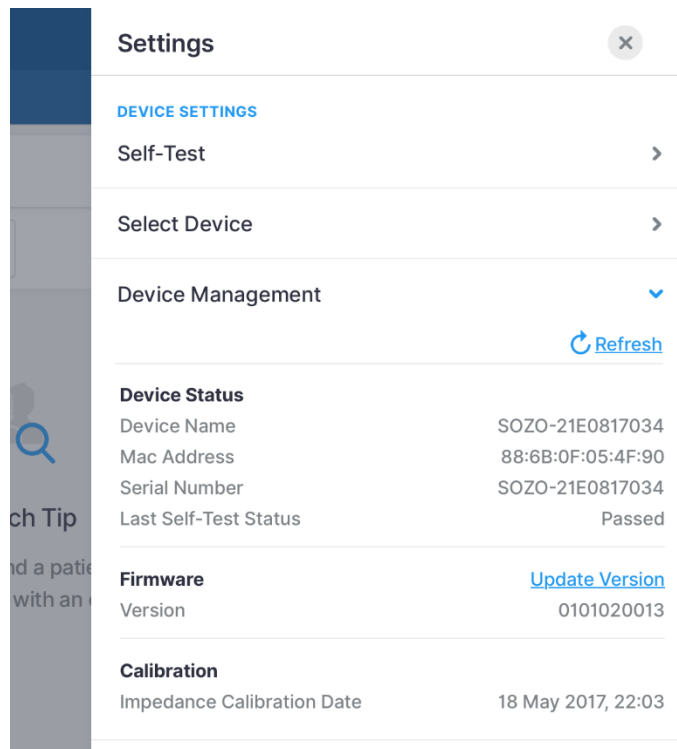
The SOZO system firmware may be updated by selecting **Update Version** next to **Firmware**. This process may take several minutes. The Tablet and SOZO Device should not be turned off during this time and the Tablet screen timeout should be set to at least 15 minutes.

After completion of the firmware update, the firmware version should be checked by updating the device status to show the desired firmware version. The SOZO firmware version may be updated via SOZOapp using either an iOS or Android device.



7.1.3.4 Calibration

The most recent impedance Calibration Date is displayed, example shown below.



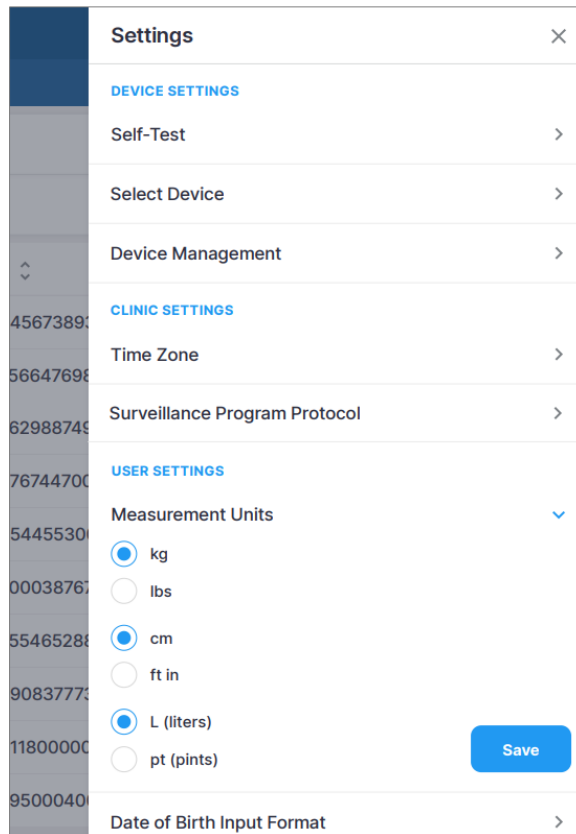
7.1.3.5 Time Zone Settings

The Time Zone currently set for the clinic is displayed here.

7.1.3.6 Measurement Units

The clinician can adjust preferred display units of measure (kg vs lb; cm vs ft/in; litres vs pints) here. Once changes have been made, select **Save**.

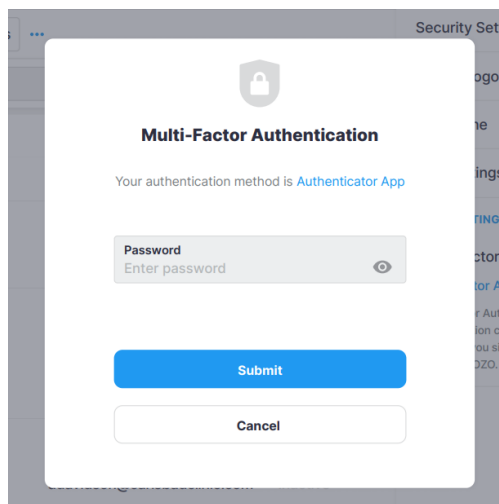
Under **Settings**, the display units for weight, height, and fluid volume may be selected. Kilograms may be converted to pounds, centimetres to inches and litres to pints. When updates are complete, select **Save**.



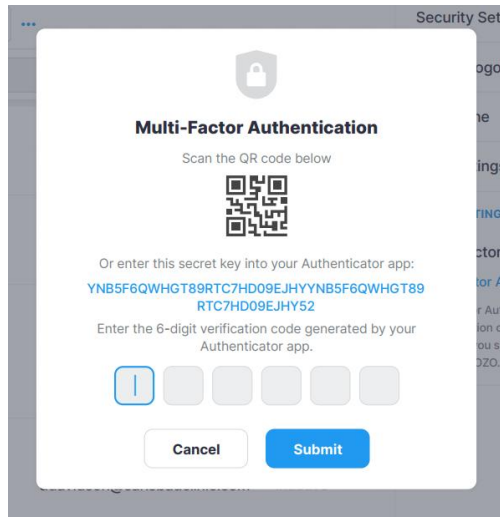
7.1.3.7 Clinician Multi-Factor Authentication

Once enabled by a Clinic Administrator (see 6.1.3.1.1 Administrator Multi-Factor Authentication [Error! Reference source not found.](#)), the clinician can elect to have Multi-Factor Authentication turned on for their account prior to the deadline set by the Clinic Administrator.

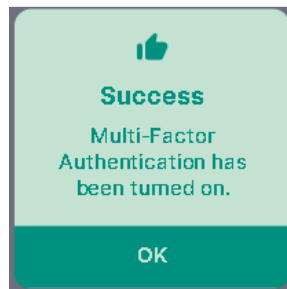
MFA will require use of a code generated by a 3rd party authenticator app (e.g., Google Authenticator; Microsoft Authenticator) that is compliant with the TOTP standard. Once the authenticator app is set up, activate the MFA for the Clinician by using the slider under User Settings, Multi-Factor Authentication. At this point a pop-up will display and the Clinician password is required to be entered.



Next, a pop-up will display a QR code that can be used to link to a third-party authenticator, and first-time entry of the MFA code.



A pop-up will be displayed confirming successful set-up.



The Clinician will be signed out of the system, and from that point on, will have to use both a password and an MFA code to sign back in.

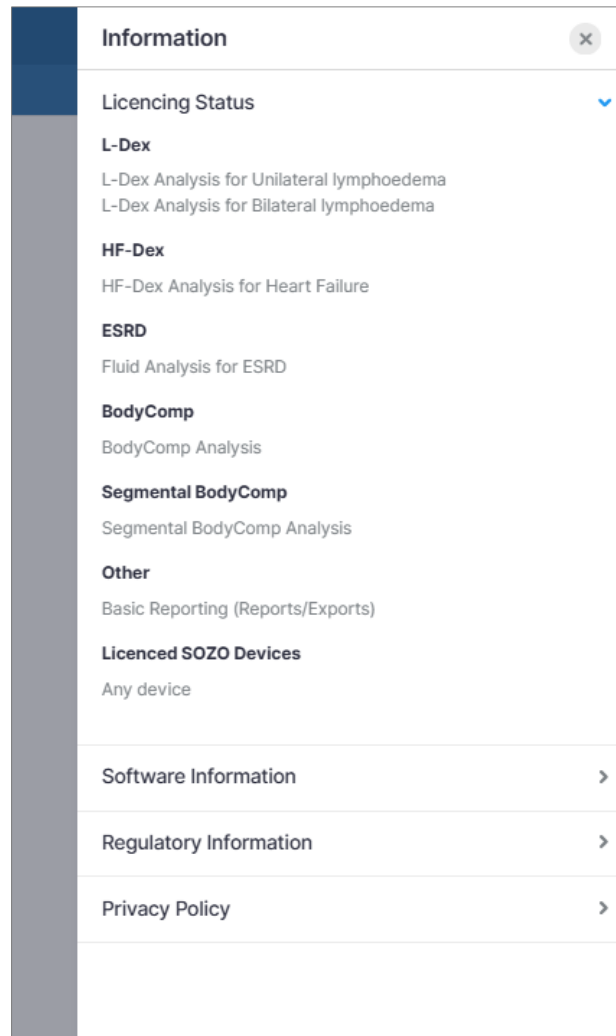
NOTE: Once a Clinic Administrator has required MFA use by the clinic and the enable date has passed, Clinicians will not be able to sign in to SOZOapp or MySOZO without implementing their own personal MFA.

7.1.3.8 Technical Support

For assistance with use of SOZO, the Technical Support page includes contact information for ImpediMed Technical Support.

7.1.3.9 Licencing Status

Under Settings, users can view the Clinic's licencing status for various Assessments offered to ImpediMed customers. The licencing status can only be changed by ImpediMed. If desired modules are not available, please reach out to ImpediMed to discuss licencing additional modules for your use.



7.1.3.10 Software Information

The user will be notified at sign-in if a newer SOZOapp version is available. The user may confirm their MySOZO version under **Software Information** in the Settings menu. The SOZOapp software version is shown on the sign-in page. In addition, the user may want to see major changes in this version and the previously released versions by reviewing the Release Notes.

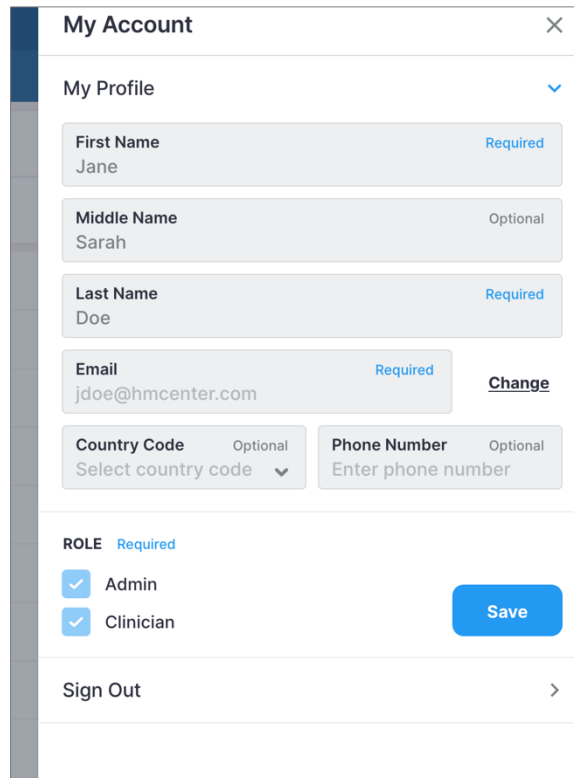
7.1.3.11 Regulatory Information

The user is provided with information regarding the manufacturer, notified body and other important information.

7.1.4 Clinician My Account Page

To edit the Clinician Account, navigate to the user initials in the blue circle (upper right) and select My Profile. Select **Save** once changes have been made.

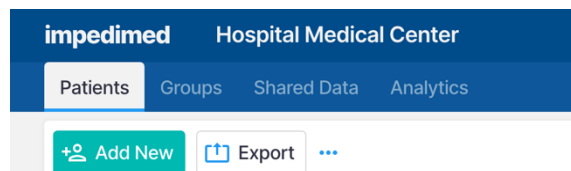
To sign out at any time, select the **My Account** icon then select **Sign Out**.



The screenshot shows a 'My Account' modal window. At the top, there is a 'My Profile' dropdown menu. Below it are several input fields: 'First Name' (Jane, Required), 'Middle Name' (Sarah, Optional), 'Last Name' (Doe, Required), 'Email' (jdoe@hmcenter.com, Required, with a 'Change' link), 'Country Code' (Optional, dropdown menu), and 'Phone Number' (Optional, text input). Below these fields is a 'ROLE' section with 'Admin' and 'Clinician' options, both checked. A 'Save' button is located to the right of the role selection. At the bottom, there is a 'Sign Out' link with a right-pointing arrow.

7.2 Clinician Patient List

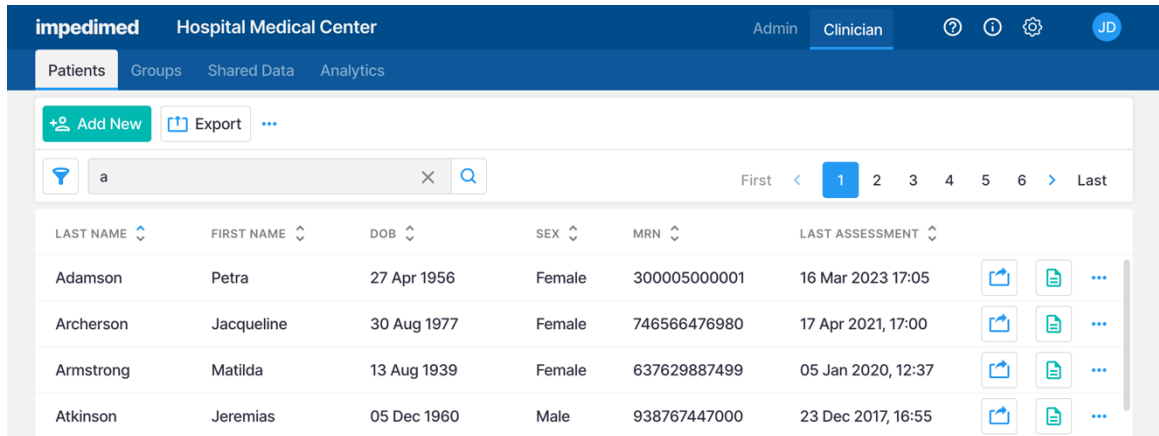
Select the **Patients** tab at any time to return to the Patient List.



7.2.1 Search for Patient

To search for a specific patient, enter the name or medical record number (MRN) of the patient in the **Search Patient** field and select the **Search** icon. This will bring up a list of patients matching the search criteria.

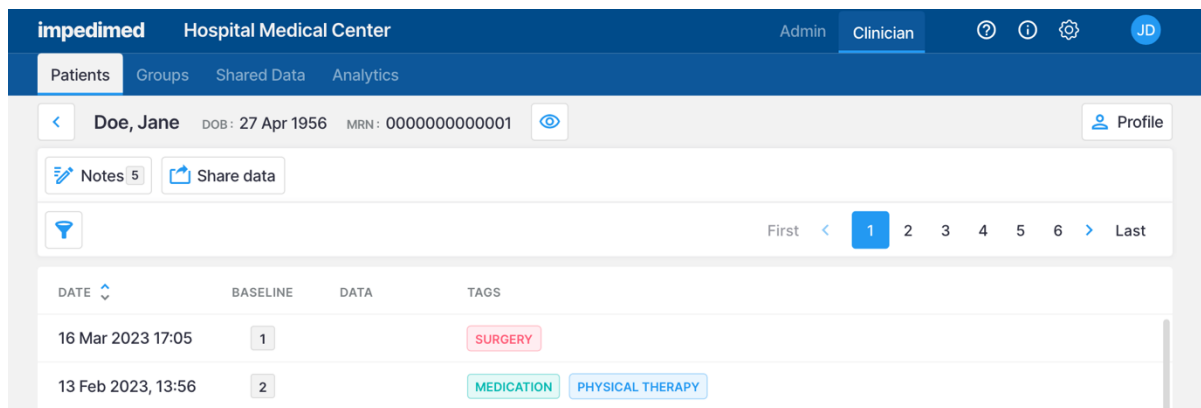
To generate a list of all patients in the clinic, leave the **Search Patient** field blank and select the **Search** icon.



7.2.2 Patient Dashboard

To open the Patient Dashboard, navigate to the Patient List and search for the desired patient. Select the patient to open the Patient Dashboard.

The Patient Dashboard includes detailed information on the selected patient, including name, date of birth, sex, medical record number (MRN), last assessment date, and a list of measurement dates, if any. If any tags have been linked to a patient measurement, or if a baseline has been set, they will be shown in the list.



The information is important for the Clinician's role of viewing, recording, and evaluating historical measurements and assessment results.

If a L-Dex baseline has not been set, a "Missing Baseline" pop-up message will appear in the lower right corner of the screen. Select the **Set A Baseline** button in the message to go directly to the Set Baseline screen. After you have set the baseline and select **Save**, the system returns to the Patient Dashboard.

For instructions on setting the baseline for a specific assessment type (L-Dex, HF-Dex, and BodyComp™), see the "Setting the Baseline" sections in [10, ASSESSMENT TYPES](#).

7.2.3 Create Patient

NOTE: There is no limit to the number of patients that can be created. Patients are created by clinician users.

To create a Patient:

1. Navigate to the Patients List and select **Add New**.

2. On the Create Patient screen, enter the Patient's first name, last name, medical record number (MRN), date of birth, sex, and height.
NOTE: Height is not required at the time of patient creation but will be required before a measurement can be taken.
3. To view more fields, select **+ View More**. These fields, including email address, middle name, country code, and phone number, are optional.
4. Select the appropriate Assessment types using the toggle switches next to the icons (L-Dex, BodyComp™, Segmental, HF-Dex, etc.). Depending on your selection, a warning may appear as a reminder of the intended use of the selected assessment type. When L-Dex is selected, more options for selecting required information appear.

In the example screen image below, a profile has been started for female patient Jane Doe. The next step will show that L-Dex assessment type has been selected for Jane Doe.

The screenshot displays the 'Create Patient' form in the ImpediMed system. The form is organized into several sections:

- DEMOGRAPHICS:**
 - First Name: Jane (Required)
 - Last Name: Doe (Required)
 - Date of Birth: 27/04/1956 (Required, Input format: dd/mm/yyyy)
 - Middle Name: Enter middle name (Optional)
 - MRN: 0000000000001 (Required)
 - Sex: Female (Required)
 - Height: 175.2 (Optional, Required for measurement)
- ASSESSMENT TYPE:**
 - L-Dex Analysis for Lymphoedema:
 - BodyComp Analysis:
 - Segmental Analysis for BodyComp:
 - HF-Dex Analysis for Heart Failure:
 - Fluid Analysis for ESRD:
- GROUPS:**
 - High Risk Patients:
 - Low Risk Patients:

A blue 'Create' button is positioned at the bottom right of the form.

5. If you select L-Dex Analysis Assessment Type, select all required L-Dex assessment information.

NOTE: Surgery Date and Alternate Date are not required at the time of patient creation and can be added later. Not all patient profile fields (e.g., dominant limb) are required for patient profile set-up.

6. If the patient is being monitored as part of the Lymphoedema Surveillance Program, select **Yes** in response to “Include Patient in Surveillance Program?”.

In the example screen image below, patient Jane Doe is at risk of Lymphoedema in her right arm (only one arm is at risk; therefore, this will indicate a Unilateral measurement), her dominant limb is on her right side, and her surgery date of 12 Mar 2024 has been entered. Additionally, this patient will be included in the Surveillance Program (for information on the surveillance program, see [7.5, Clinician Analytics](#)).

The screenshot shows the 'Create Patient' form in the impedimed system. The form is titled 'Create Patient' and is for 'Hospital Medical Center'. It has two main sections. The left section is titled 'What is at risk of Lymphoedema?' and is marked as 'Required'. It features a central human figure with four buttons: 'Both Arms', 'Right Arm', 'Left Arm', and 'Both Legs'. The 'Right Arm' button is selected. Below this is a 'UNILATERAL' button with a note: 'The unilateral selection is for use with patients when only one arm or one leg is at risk of lymphoedema.' The right section is titled 'What is the dominant limb?' and is marked as 'Optional (Required for measurement)'. It has two buttons: 'Right' and 'Left', with 'Right' selected. Below this is a section titled 'Include Patient in Surveillance Program?' marked as 'Required', with 'Yes' and 'No' buttons, and 'Yes' selected. At the bottom right, there is a 'Surveillance Program Start Date' section with a note: 'The Surgery Date or Alternate Date is required to view patient follow-up status in Surveillance Program Analytics. This date is used as the starting point for the surveillance protocol.' Below this is a 'NOTE: These selections are not required immediately and can be completed later.' and two radio buttons: 'Surgery Date' (selected) and 'Alternate Date'. A date dropdown menu shows '12 Mar 2024' and a 'Clear' button. A 'Save' button is at the bottom right of the form.

7. When you have finished filling in all required information, select Create. A success confirmation pop-up will appear.

Alternatively, from the Tablet, you can proceed directly to taking a measurement. To do this, select **Create & Measure**. (See [9, TAKING MEASUREMENTS](#).)

Demographics

First Name Jane	Required	Middle Name Enter middle name	Optional
Last Name Doe	Required	MRN 0000000000001	Required
Date of Birth 27/04/1956	Required	Sex Female	Required
Input format: dd/mm/yyyy		Height 175.2	Optional (cm)

+ View more

Assessment Type

L-Dex Analysis for Lymphoedema	BodyComp Analysis	Segmental Analysis for BodyComp	HF-Dex Analysis for Heart Failure	Fluid Analysis for ESRD
--------------------------------	-------------------	---------------------------------	-----------------------------------	-------------------------

Groups

- High Risk Patients
- Low Risk Patients

Create & Measure Create

NOTE: The clinician may optionally assign the patient to a predefined group. If grouping has been set up in the clinic, a list of available groups will appear at the bottom of the create user window. Check the box for each group the patient is to be assigned to.

NOTE: Adding a new assessment to the patient profile may trigger a caution about the intended use of that assessment. Ensure that you understand the instructions for use for L-Dex (see [10.2, L-Dex® for Lymphoedema Instructions for Use](#)) and HF-Dex (see [10.3, HF-Dex® for Heart Failure Instructions for Use](#)).

7.2.4 Delete Patient

To delete a Patient:

1. Complete a search for the patient to be deleted from the Patients List.
2. Select the ellipsis located next to the patient's information.
3. Select **Delete Patient**.
4. In the Delete Patient warning pop-up, select **Delete**.

LAST NAME	FIRST NAME	DOB	SEX	MRN	LAST ASSESSMENT	
Anderson	Mattie	27 Apr 1956	Female	800456738932	08 Jan 2021, 10:55	[Share] [Print] [More]
Atkinson	Jacqueline	30 Aug 1977	Female	746566476980	17 Apr 2021, 17:00	[Share] [Print] [More]
Armstrong	Matilda	13 Aug 1939	Female	637629887499	05 Jan 2020, 12:37	[Delete Patient] [More]
Abott	Jeremias	05 Dec 1960	Male	938767447000	23 Dec 2017, 16:55	[Share] [Print] [More]

NOTE: The patient will remain in the MySOZO database and may be restored. To permanently remove a patient and all measurement details from the MySOZO database, please contact ImpediMed Technical Support.

7.2.5 Delete Measurement

Individual measurements may be deleted. If, for example, low-quality Cole plots were accepted and the Clinician desires to remove the measurement. First navigate to the result screen of the measurement to be deleted and select the **Delete** icon.



Deleting individual measurements is permanent. The data cannot be recovered.

Tags 11 | Report | Share data | **Delete** | 16 Mar 2023 17:05 | RESULT 9/9

Fluid Analysis	Value
Total Body Water (TBW)	50.6%
Extracellular Fluid (ECF)	43.9%
Intracellular Fluid (ICF)	56.1%

Total Body Water (TBW)
 Baseline: 50.6
 Change from Baseline: 0
50.6 %Weight

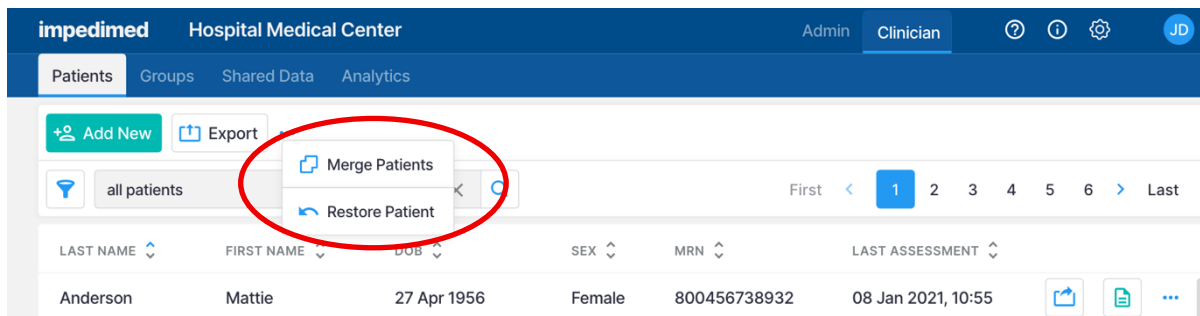
7.2.6 Restore Patient

MySOZO stores deleted Patient accounts. If a patient is accidentally deleted, the patient may be restored.

To restore a deleted Patient:

1. Navigate to the **Patient List**.
2. Select the ellipsis located above the search field, next to the **Export** button.
3. Select **Restore Patient**.
4. Search the Patients List for the Patient profile to be restored.

5. Select the blue arrow to restore the Patient.
6. In the Restore Patient warning pop-up, select **Restore**.



7.2.7 Merge Patient Profiles

When more than one profile has been created for a patient, all data may be merged under one patient profile.

To merge two patient profiles:

1. Navigate to the Patient List.
2. Select the ellipsis located in the top right corner, next to the **Export** tab.
3. Select **Merge Patients**.
4. Search the Source Patient and Destination Patient.
5. Check the box for the source patient and destination patient.
6. Select **Preview** to verify all patient information is correct.
7. After verifying the information, select **Merge**.

NOTE: After you select **Merge**, the source patient will be deleted. All their measurement data will be integrated with the destination patient. The additional data will be recalculated based on the destination patient profile.

NOTE: If the merged patients have imported L-Dex data from a non-SOZO ImpediMed device such as the L-Dex U400, the imported measurements will not be shown if the patient L-Dex settings are different. For example, if imported U400 data assessed a patient's leg and the data is merged with a patient whose L-Dex profile has arm selected as the at-risk limb, then the merged / imported data will not be shown.

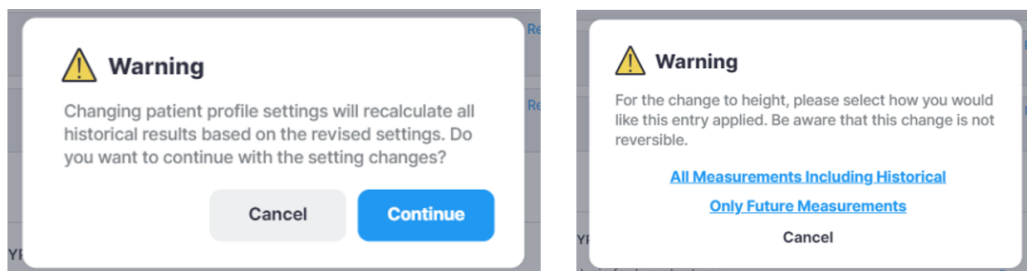
7.2.8 Edit Patient Profile

To edit a patient profile:

1. Navigate to the Patient List.
2. Search all patients by selecting the magnifier icon, or enter the patient's name or MRN.
3. Select the **Search** icon and then select the Patient.
4. Select the **Profile** icon.
5. Make updates as needed.

6. Select **Save**.

After you make changes to a patient profile, a warning may appear regarding the potential impact of changes on historical results.



NOTE: When changing certain patient parameters such as height, age or gender, or at-risk/dominant limbs for patients with L-Dex assessments, the software will offer to recalculate all historical measurements. The user may choose which option is most appropriate for the patient. Please consider the following:

- **When to Select “Only future measurements”**

In the warning pop-up, select **Only Future Measurements** to maintain old Assessments according to the previous profile settings. This is appropriate for patients whose height have changed due to age or other factors.

- **When to Select “All measurements including historical”**

Select **All measurements including historical** to recalculate all prior Assessments according to the new height. This is appropriate when the patient’s height has been entered incorrectly and measurements have already been taken. This change is not reversible and if this option is selected, the height cannot be restored back to the height that was saved at the time of measurement.

Availability of Assessment Specific Data on Patient Profile

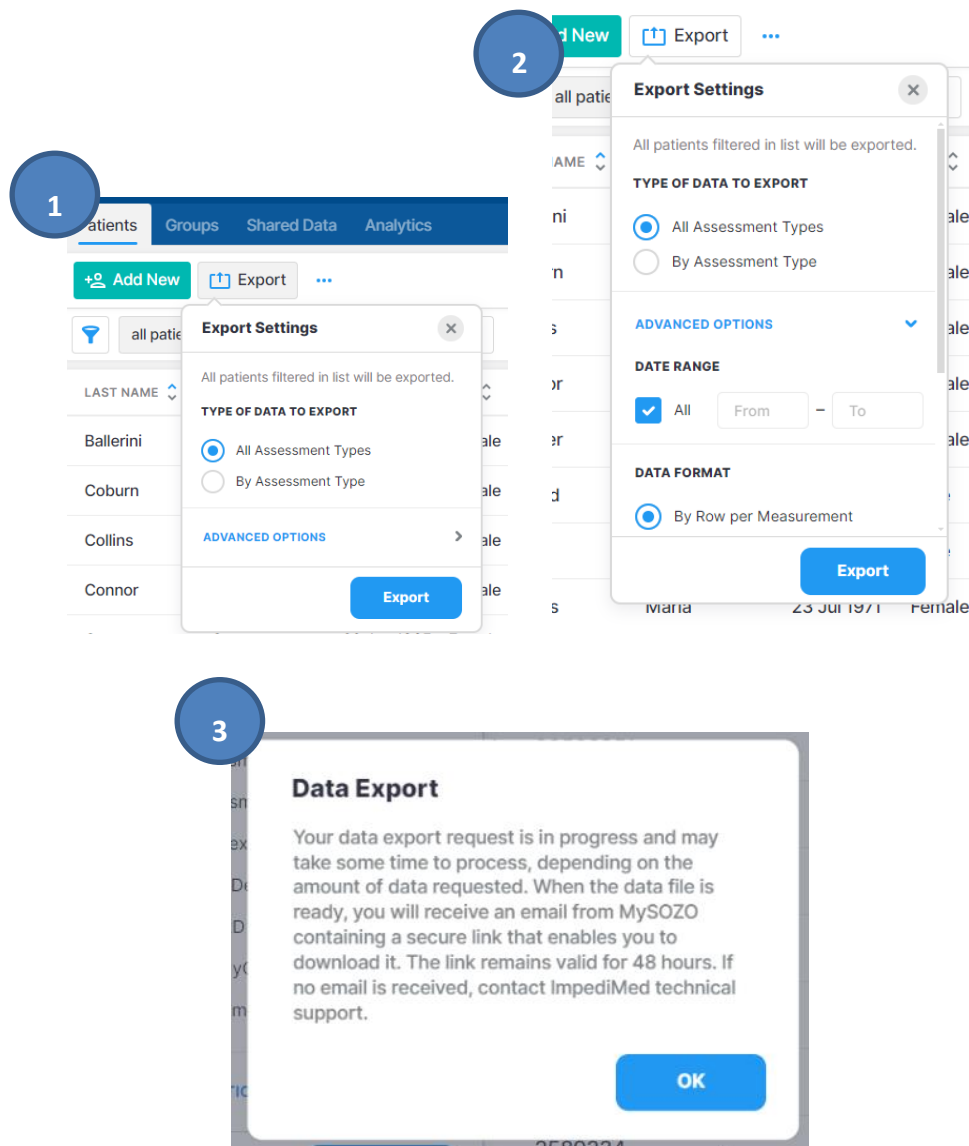
L-Dex data (at-risk limb, dominant limb, etc.) is shown in the patient profile when the L-Dex Assessment is selected.

NOTE: Deselecting the L-Dex Assessment will grey out the patient L-Dex settings, which will not be saved.

7.2.9 Export Patient Data

A Clinician may export patient data from MySOZO. To export data, select the **Export** button on the Patient List. A pop-up displays export settings, which includes Assessment types, date range, data format and additional settings. When the settings have been selected, select **Export**. A pop-up will appear, stating that the data export request is in progress. ImpediMed will send the clinician an email containing a secure link to download the Export Data. The link is valid for 48 hours.

NOTE: Advanced settings include a wide range of options that can be scrolled through to customise the patient data export, including whether patient data should be de-identified, additional patient details, whether patients are in a predefined Group, and device/measurement information. The report will only present the options that are selected.



7.2.10 Shared Data

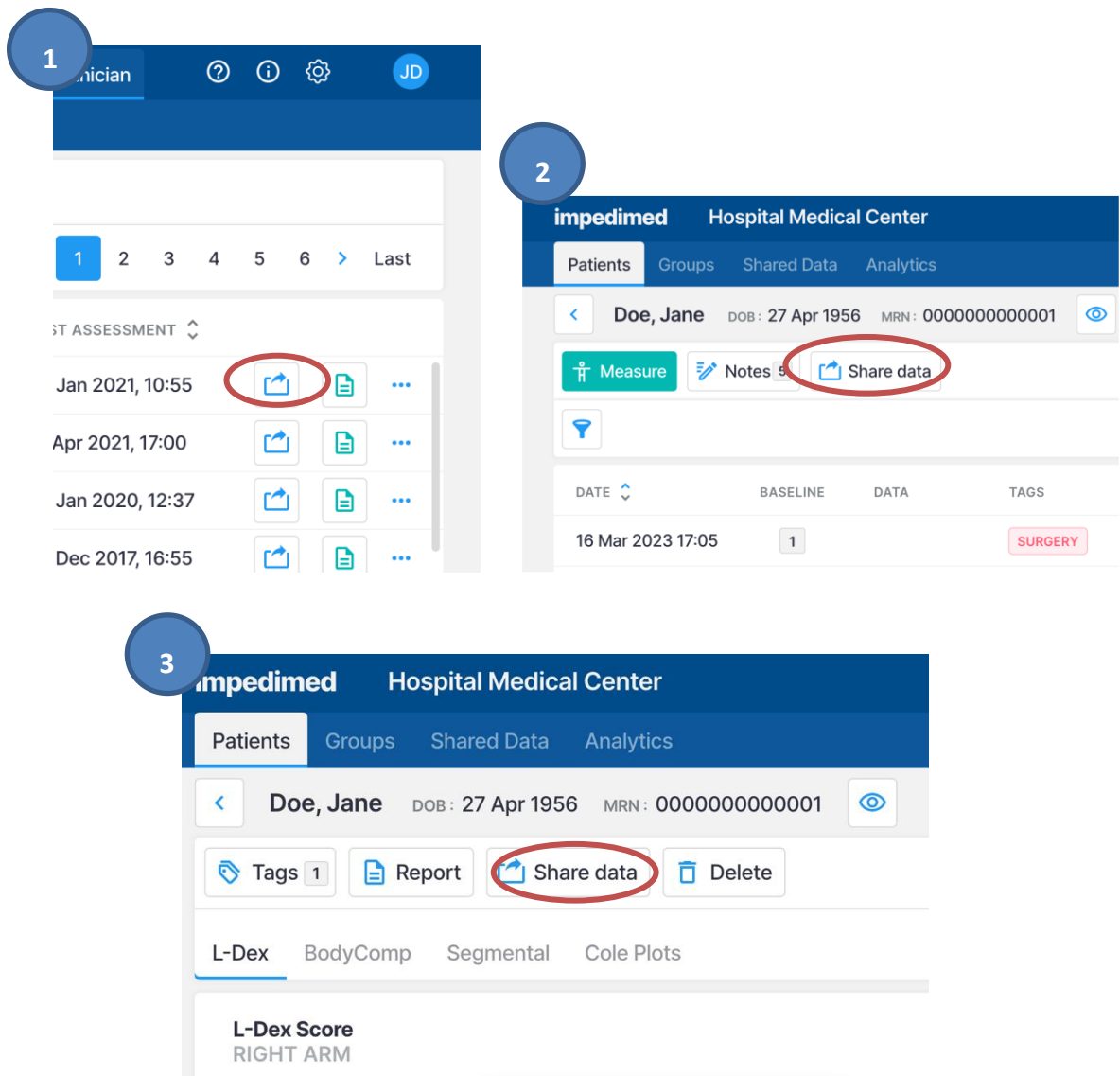
Shared data allows for sharing of patient data between clinics that are not on the same database to enable a continuous view of patient trending data across care teams.

NOTE: Customers may reach out to ImpediMed customer service if they would prefer that their clinic name not appear within the Share Data SOZO software module.

7.2.10.1 Sharing Data

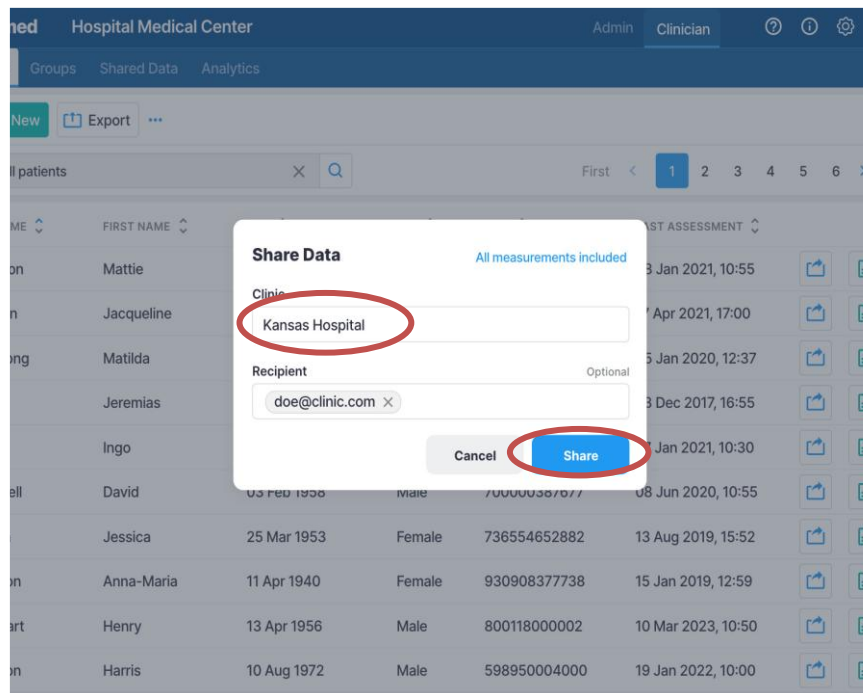
Data can be shared from 3 locations:

1. Patient list (All measurements will be shared)
2. Patient Dashboard (All measurements will be shared)
3. Results (Choice between sharing all measurements or the current measurement)



Select **Share Data** for one of the three locations listed above. Type and select the clinic you want to share data with and select **Share**.

NOTE: An email address for a particular SOZO user can be included to receive email notification that they have received shared data.



7.2.10.2 View Outgoing Data

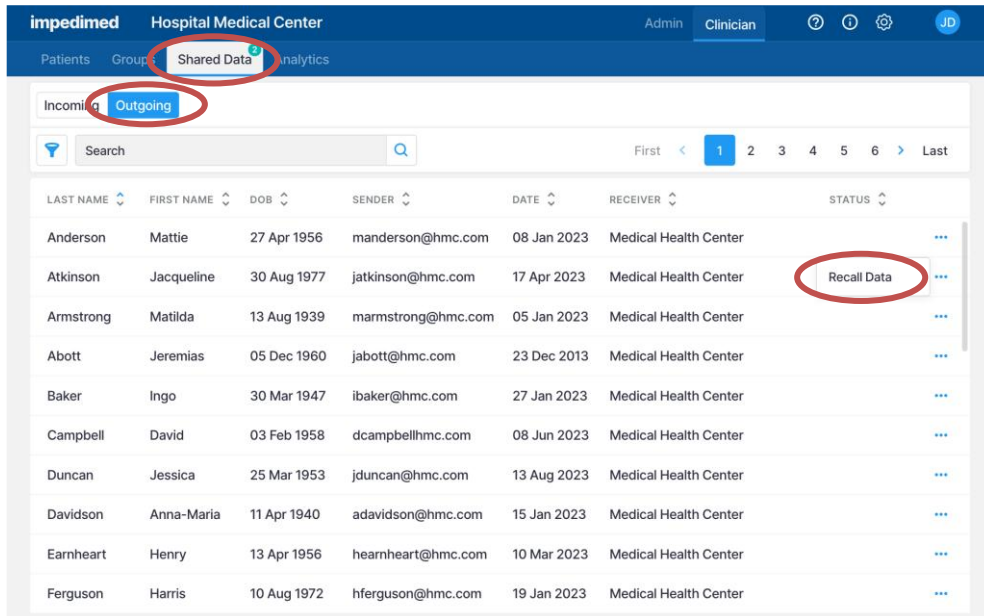
To view data that you have shared, first select the Shared Data tab, then select **Outgoing**. From there, you can view a list of patients where data has been shared and filter and sort the list using any of the arrows listed above the columns.

7.2.10.2.1 Recalling Shared Data

To recall data that has been shared, first select the Shared Data tab, then select **Outgoing**. Select the ellipsis next to the record to be recalled and then select **Recall**.

- Select the eye icon to view recall details.

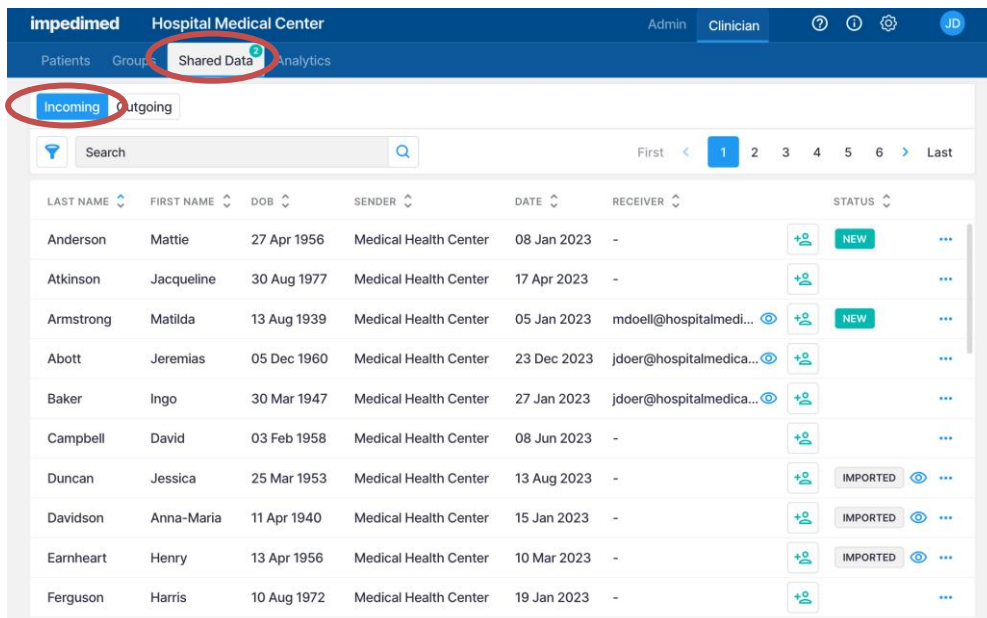
NOTE: If the receiving clinic has already imported the shared data, it cannot be recalled.



7.2.10.3 View Incoming Data

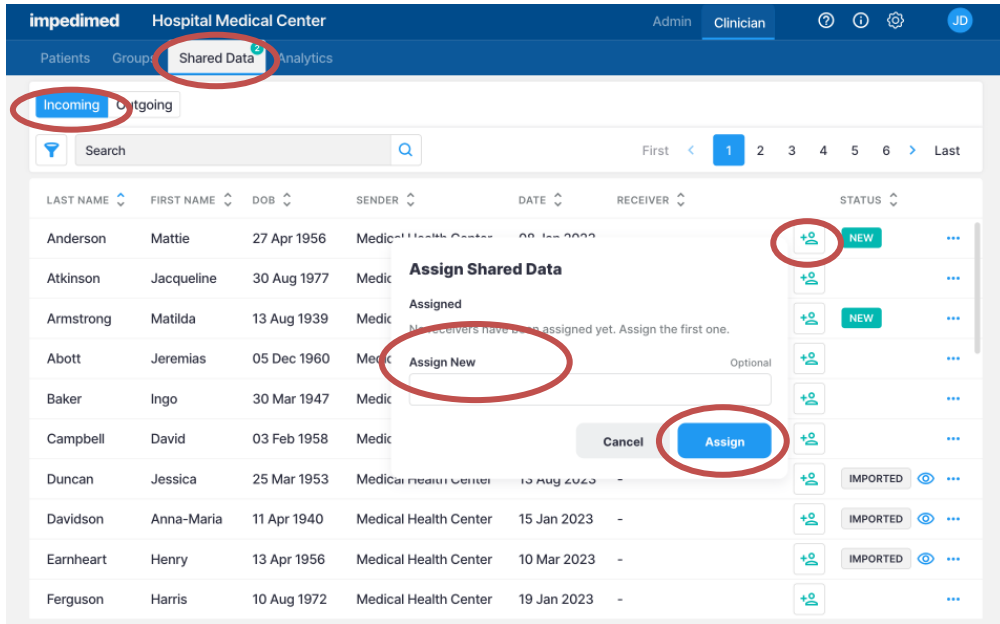
To view data that has been shared with you, first select the Shared Data tab, then select **Incoming**. From there, you can view a list of patients where data has been shared and filter and sort the list using any of the arrows listed above the columns.

- The eye icon next to the Status will provide import details.



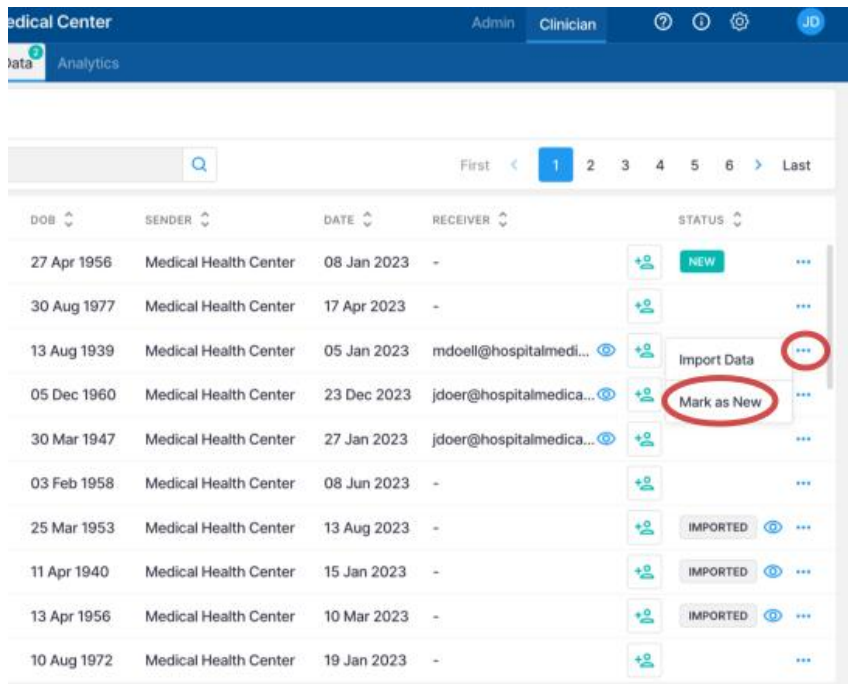
7.2.10.3.1 Add other Receivers to Incoming Data

To add other receivers to incoming data, first select **Incoming**, then select **Receiver**. Start typing the email(s) of the clinician user(s) in your clinic that you would like to add, then select the user from the populated list and select **Assign**. The clinician user(s) will receive an email notification.



7.2.10.3.2 Mark as New

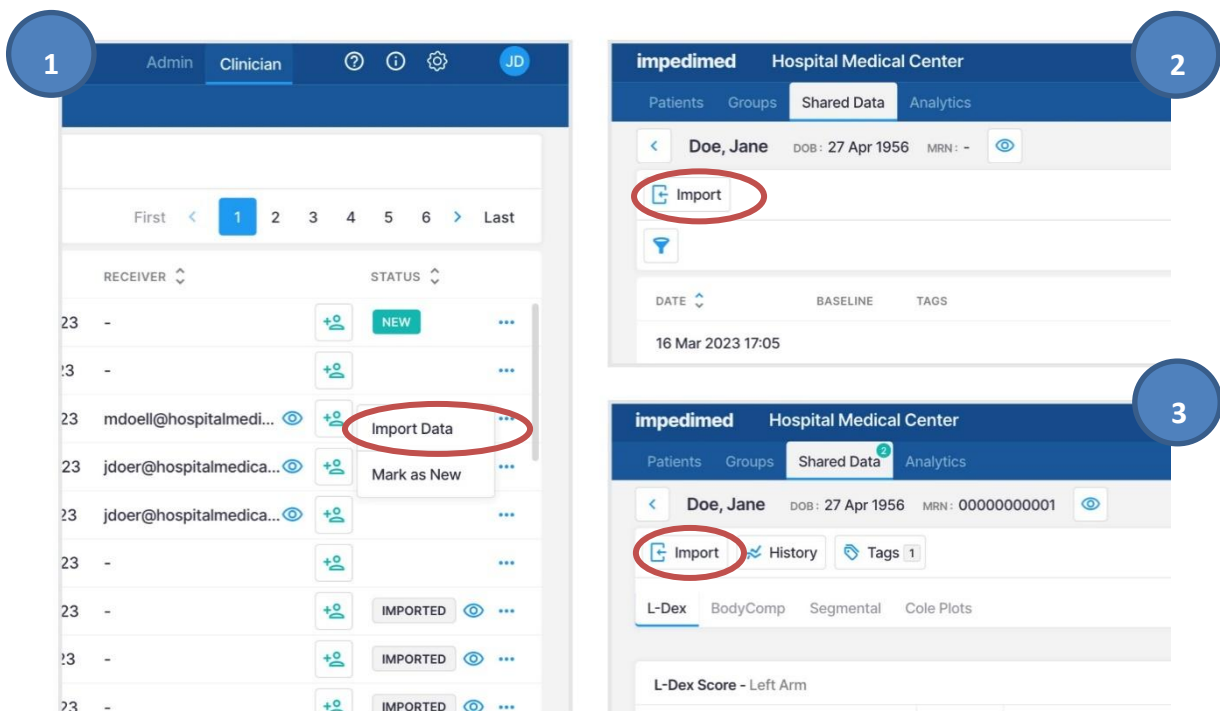
To mark incoming data as new, first select incoming, then select the ellipsis next to the record and select **Mark as New**.



7.2.10.3.3 Import Incoming Data

Data can be imported from 3 locations:

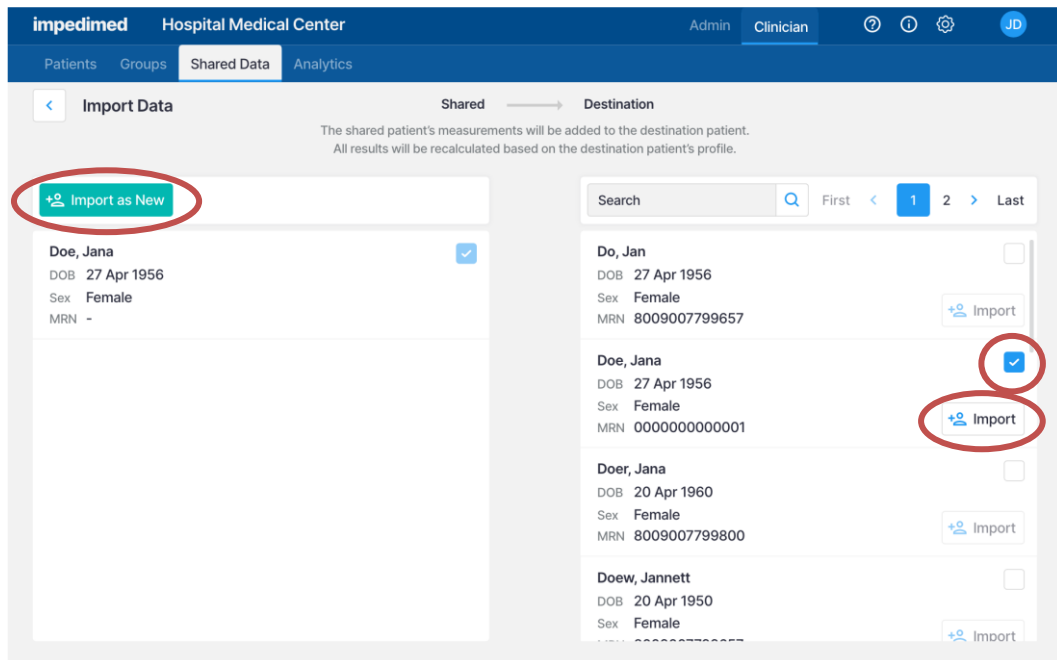
1. Shared data list:
 - Select the ellipsis next to the record to be imported and then select **Import Data**.
2. Shared data Patient Dashboard:
 - Select the record to view and then select **Import**.
3. Shared data patient result:
 - Select the record to view, select the measurement date to view, and then select **Import**.



Once you have selected **Import**, you can either import as new to create a new patient or select the patient in your database to merge.

1. To create a new patient, select **Import as New**, confirm the patient information, enter the MRN for your clinic, and then select **Create**.
2. To add shared data to an existing patient, select the patient from the list and select **Import**.
3. Confirm the patient information is the same as that in your existing patient profile, then select **Confirm and Import**.

NOTE: All imported data will be indicated on the Patient Dashboard.

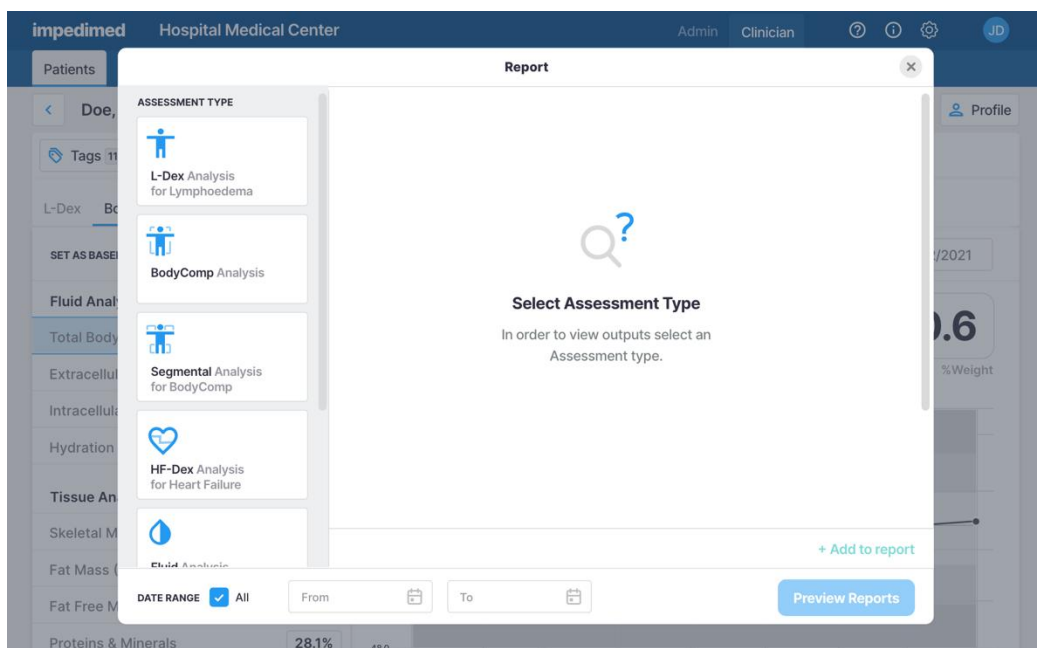


7.2.11 Report

A Clinician may create a patient report from MySOZO in the form of a PDF. The report can be created from the Patient List or from the measurement result screen.

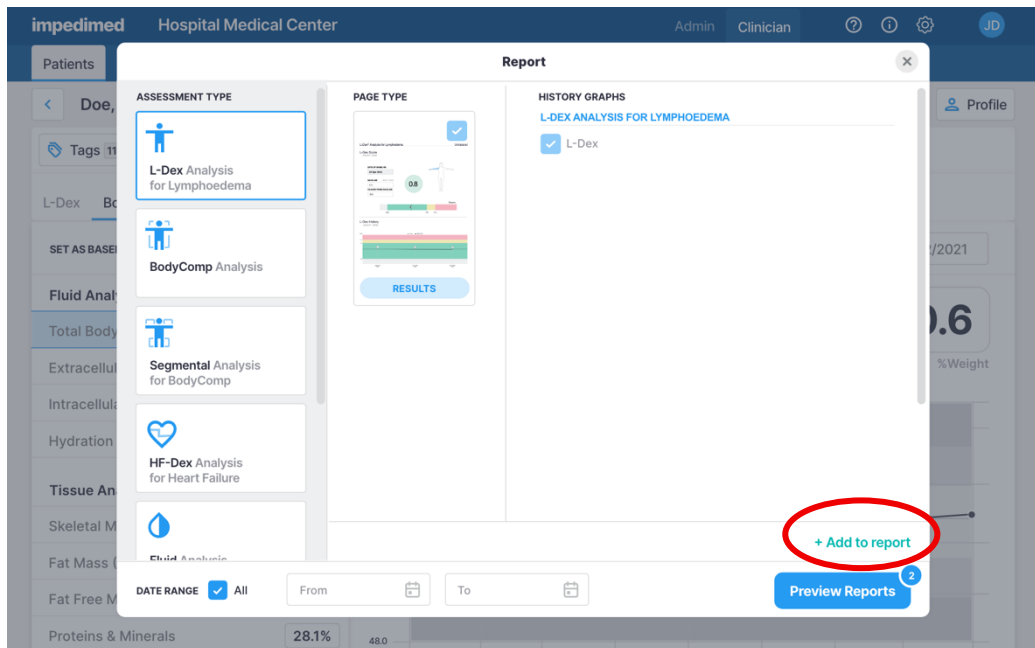
To create a patient report from the Patient List:

1. Search for a specific patient or all patients.
2. Select **Report** (green paper icon), located on the far-right side of the patient's information.
3. Select the Assessment Type for the report from the list on the left.

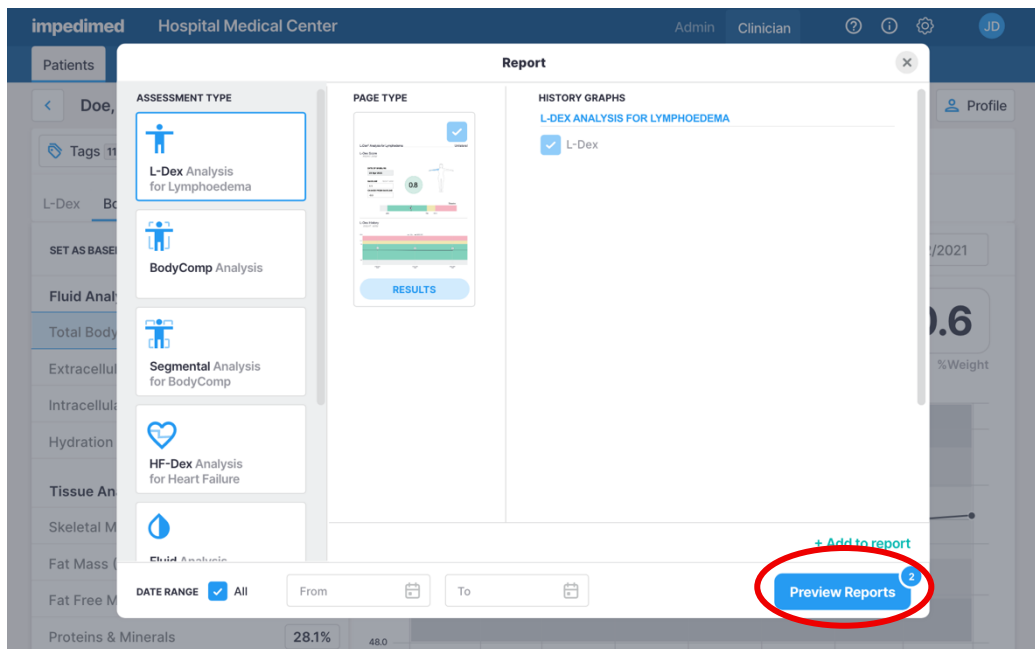


4. Make additional selections.
 5. Input the date range for the history charts.
- NOTE:** The main report will use the last assessment taken.

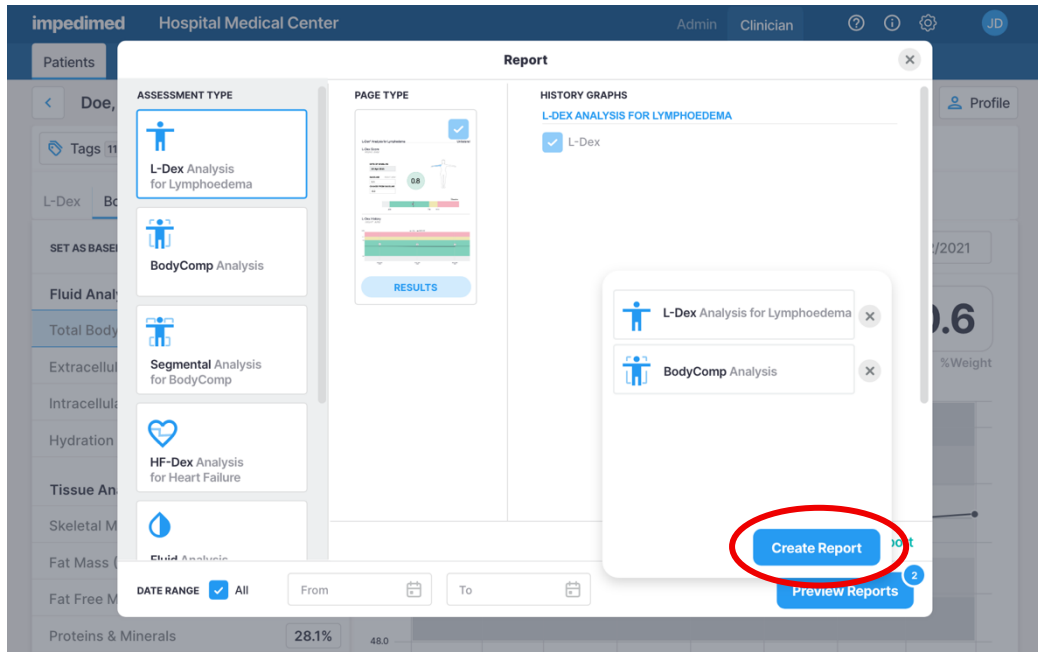
6. Select **+ Add to report**



7. For a preview, select **Preview Reports**.



8. To generate the report, select **Create Report**. The patient report will automatically download in PDF format.



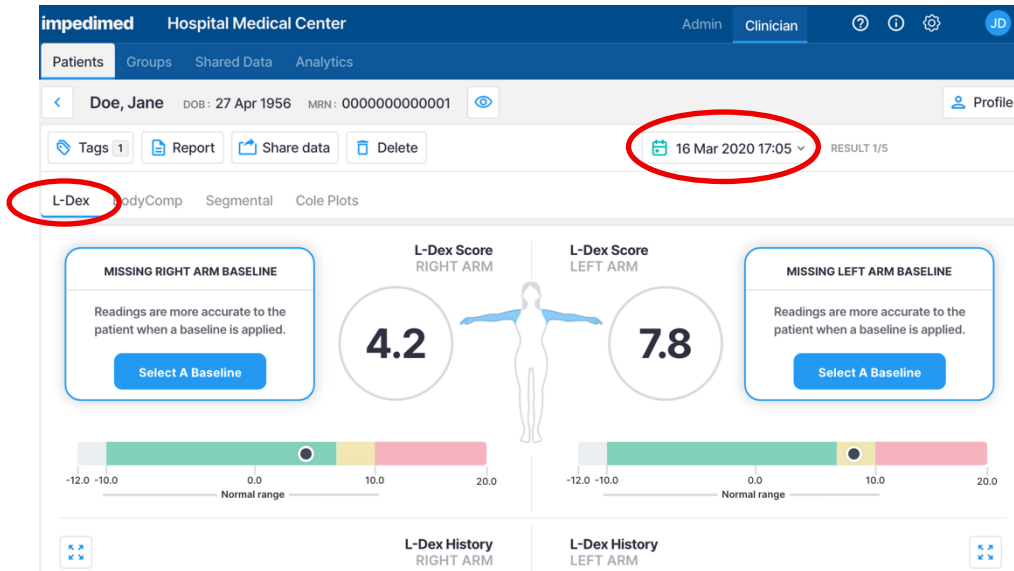
NOTE: Patient reports in PDF format cannot be created from the SOZOapp.

7.3 Measurement Dashboard

The Patient Dashboard displays a list of all the measurements taken for the patient. The Clinician can select one of the listed dates to bring up the results from that measurement.

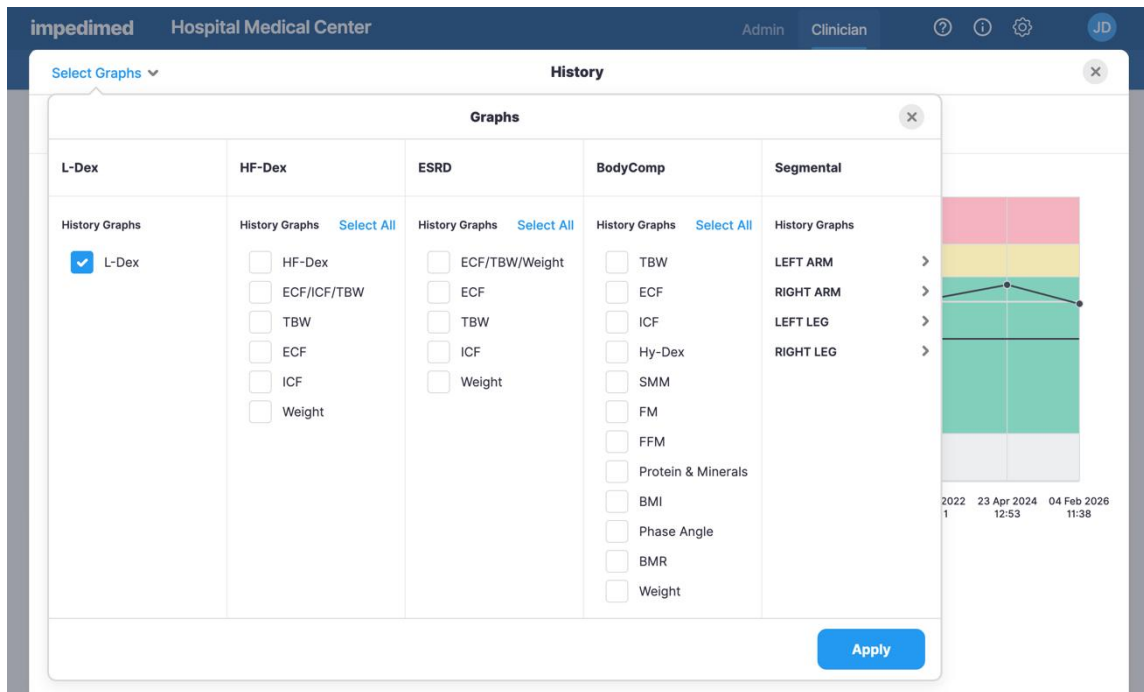
DATE	BASELINE	DATA	TAGS
16 Mar 2023 17:05	1		SURGERY
13 Feb 2023, 13:56	2		MEDICATION, PHYSICAL THERAPY
7 Aug 2022, 17:27			MEDICATION, CHEMOTHERAPY, PHYSICAL THERAPY
23 Dec 2021, 17:45			CHEMOTHERAPY
22 Nov 2021, 17:00	1		MEDICATION, CHEMOTHERAPY, PHYSICAL THERAPY
16 Jun 2021 17:05			MEDICATION, CHEMOTHERAPY, PHYSICAL THERAPY
13 Mar 2021, 13:56		IMPORTED	
13 Feb 2020, 13:00		IMPORTED	SURGERY

The results for one assessment type will initially be displayed (e.g., L-Dex). The Clinician can select different assessment types, or different measurement dates, from within the displayed record. The selected assessment type is underlined in blue (e.g., L-Dex) and measurement ^{date} is listed next to the green calendar icon.



NOTE: Only the measurement history of licenced Assessments that have been selected in the patient profile appears in History.

The Clinician may also review summary history graphs for the patient by selecting the **History** button. Graphs will be created for each module licenced to the clinic and applied to the patient profile. The pop-up will allow the user to select specific outputs to be graphed for each module by selecting the desired outputs under **Select Graphs** and selecting **Apply**:



Sub-menus are available for each limb's segmental measurements:

Additionally, many graphs will provide an option to switch between absolute and relative units of measure (litres/pints vs. % TBW)

7.3.1 Setting a Baseline

A Clinician may set or remove a measurement baseline for each Assessment type, and for most outputs.

To choose the proper measurement as the baseline, the measurement should be:

- High-quality
- Taken when the patient is in a normal fluid or “euvolemic” state
 - This is often before treatment has occurred

If an incorrect baseline measurement is selected, either de-select the baseline for that measurement, or navigate to the correct measurement and select it as the baseline.

For instructions on setting the baseline for a specific assessment type (L-Dex, HF-Dex, and BodyComp™), see the “Setting the Baseline” sections in [10, ASSESSMENT TYPES](#).

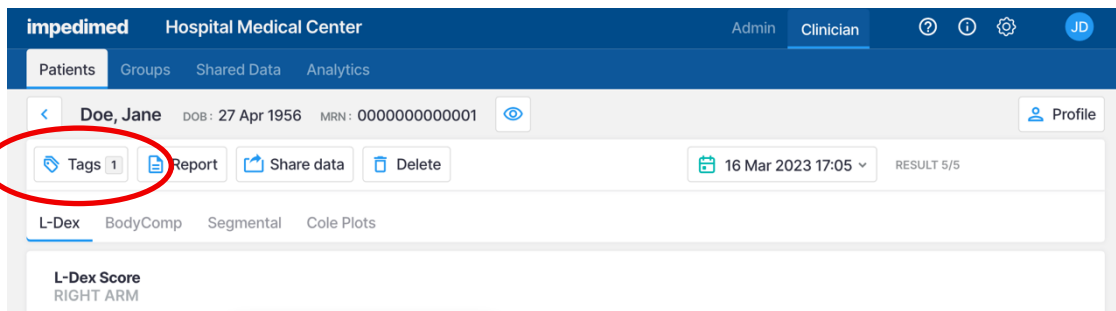
7.3.2 Evaluating Measurements Against a Baseline

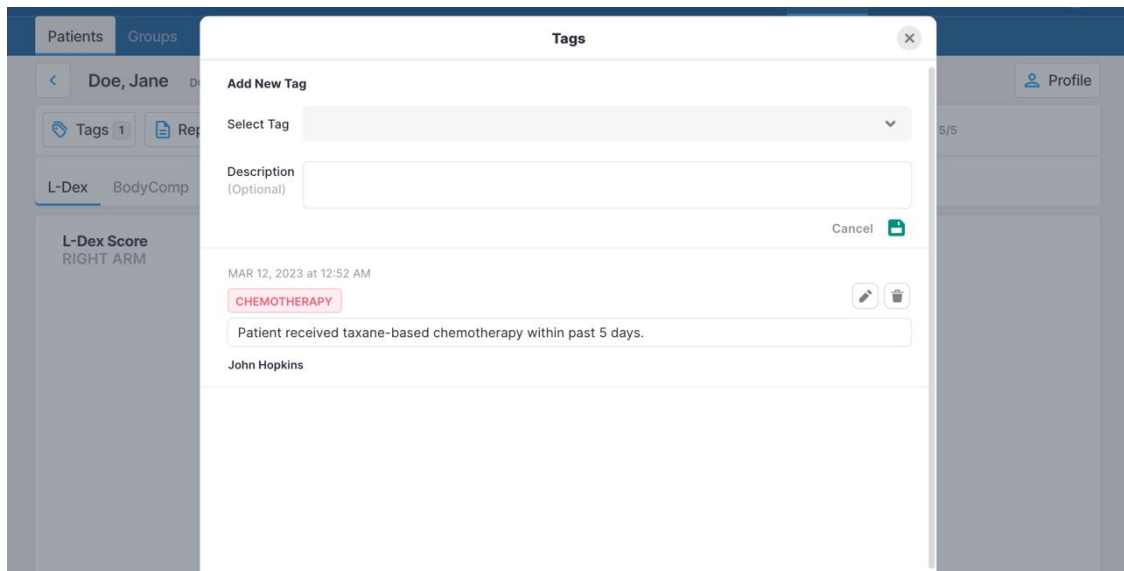
For any measurement outputs that can have a baseline selected, the Clinician may compare patient measurements taken over time against the baseline. From this comparison, the Clinician may identify changes in patient fluid levels and see if these changes fall within normal or abnormal ranges.



7.3.3 Adding a Measurement Tag

A Tag can be added to a measurement to provide additional information and notes. These must be created by a Clinic Administrator. The number of Tags linked to a measurement is listed in the top left corner, below the patient's name. Multiple Tags can be added to the same measurement and saved using the green save icon.





To add a Tag to a measurement, select the **Tags** icon. Select the Tag to be linked from the drop-down menu and add a description if desired. Select the green disk icon to save.

7.3.4 Cole Plots

The SOZO software helps determine the quality of the Cole Plots by the following:

- High quality- green
- Medium quality-yellow
- Low quality-red



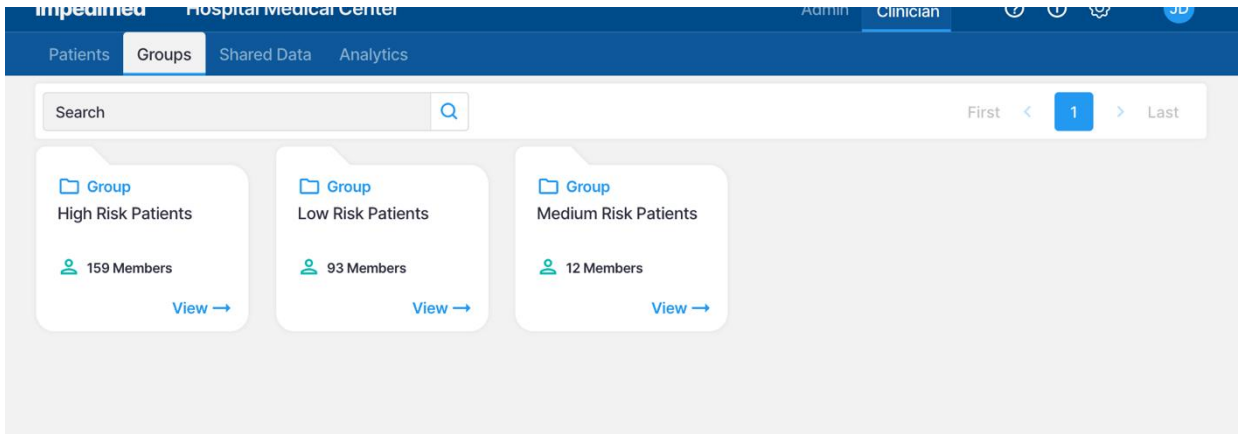
If the Right Whole-Body Cole plot is low quality, measurements for the HF-Dex assessment type will not be displayed.

7.4 Clinician Patient Groups

Select the **Groups** tab at any time to return to the Group List on the MySOZO Clinician home page.

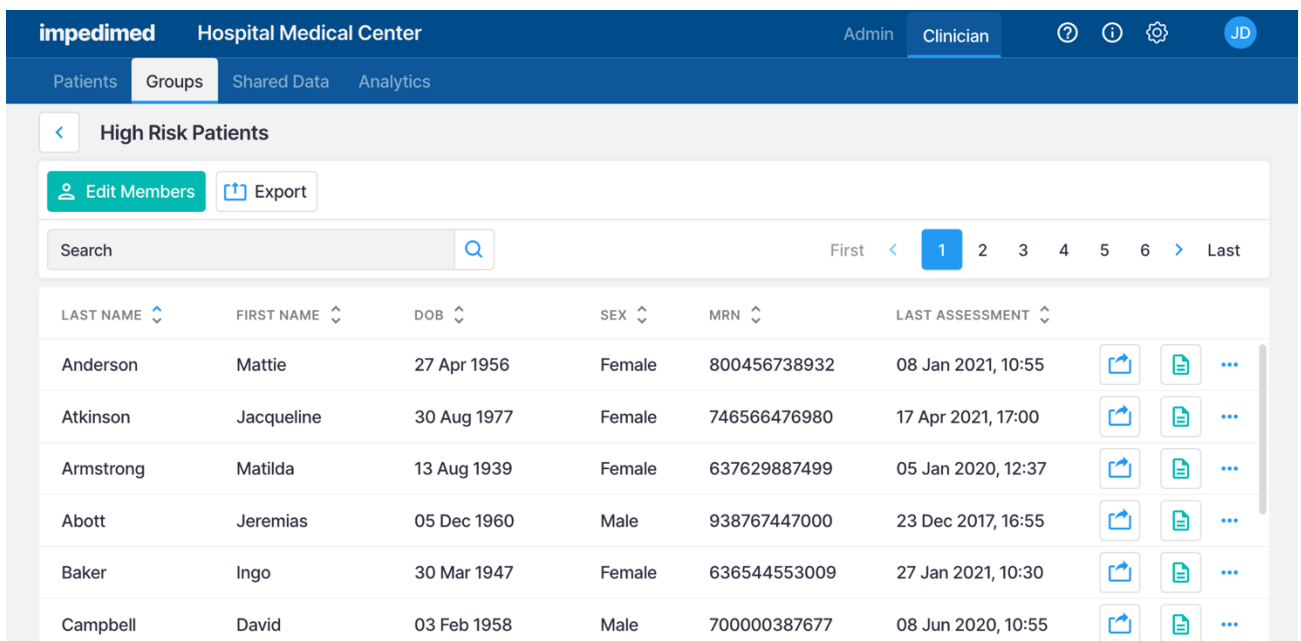


Patients can be assigned to predefined groups within the SOZO database. Administrator access is required to manage group creation. Clinician access is required to add or remove patients from groups.



To access **Group** features:

1. Select the **Groups** tab located along the top of the panel, between **Patients** and **Shared Data**. This will display all current groups in the clinic.
 - a. If the Patient Groups tab is empty, only individuals with Administrator permissions can create or name them.
2. Select a group by selecting **View** to bring up the list of patients currently assigned to that group.
3. To modify patients within the group, select **Edit Members** located in the top right corner.
 - a. To add a patient to a group search for the patient's name in the left-hand column and check the box next to their profile. Selecting at least one patient will highlight the **Add** button. Select the **Add** button to add patients to the group.
 - b. To remove a patient from a group, search for the patient's name in the right-hand column and check the box next to their profile. Selecting at least one patient will highlight the **Remove** button. Select the **Remove** button to remove patients from the group.



← Edit Group Members

Patients ↔ High Risk Patients

Patients may be added to the group by selecting from the list on the left and pressing "add". Patients may be removed from the group by selecting from the list on the right and then pressing "remove".

Search First < 1 2 > Last

Search First < 1 > Last

Anderson, Jana
DOB 20 Apr 1950
Sex Female
MRN 8009007799000

Add >

< Remove

Atkinson, Jacqueline
DOB 20 Apr 1954
Sex Female
MRN 8009007798000

Anderson, Jan
DOB 10 Apr 1960
Sex Female
MRN 8009007799657

Baker, Ingo
DOB 13 Jun 1960
Sex Female
MRN 8009007799656

7.5 Clinician L-Dex Analytics

Select the **Analytics** tab (red circle below) from the tabs across the top at any time to return to the Analytics page on the MySOZO Clinician home page.



The Clinician Analytics Dashboard provides tools to track both Lymphoedema Assessments and how well the clinic is following the Lymphoedema Surveillance Program. Information on protocol compliance and patients in the Surveillance Program who have triggered is provided as well as data for Patient & Measurement Overview and Patient Distribution. The information in the Analytics Dashboard is updated hourly.

The **Controls** menu at the top of each tab allows the clinician to display and filter the data as desired.

7.5.1 Lymphoedema Surveillance Program

This program utilises ImpediMed's Test, Trigger, Treat[®] protocol for early detection and intervention of cancer-related lymphoedema. The evidence-based protocol option for the lymphoedema surveillance program is supported by the findings of the PREVENT trial²⁻³ and McDuff et al⁴. The PREVENT trial followed patients at 3–6-month intervals for 3 years. The study showed that a prospective surveillance program using BIS was able to identify and treat patients for subclinical lymphoedema with improved patient outcomes compared to those monitored with tape measure. McDuff found that while the risk of lymphoedema is greatest in the first 3 years, the lymphoedema risk is directly impacted by therapy received with regional lymph node radiation which correlated to late onset lymphoedema. Therefore, the experts in the study recommended regular intervals for 5 years post treatment.

7.5.2 Surveillance Program Tab

The Surveillance Program tab displays the program overview, the number of patient measurements that are upcoming or are overdue, the number of patients triggered, and compliance to the surveillance protocol.

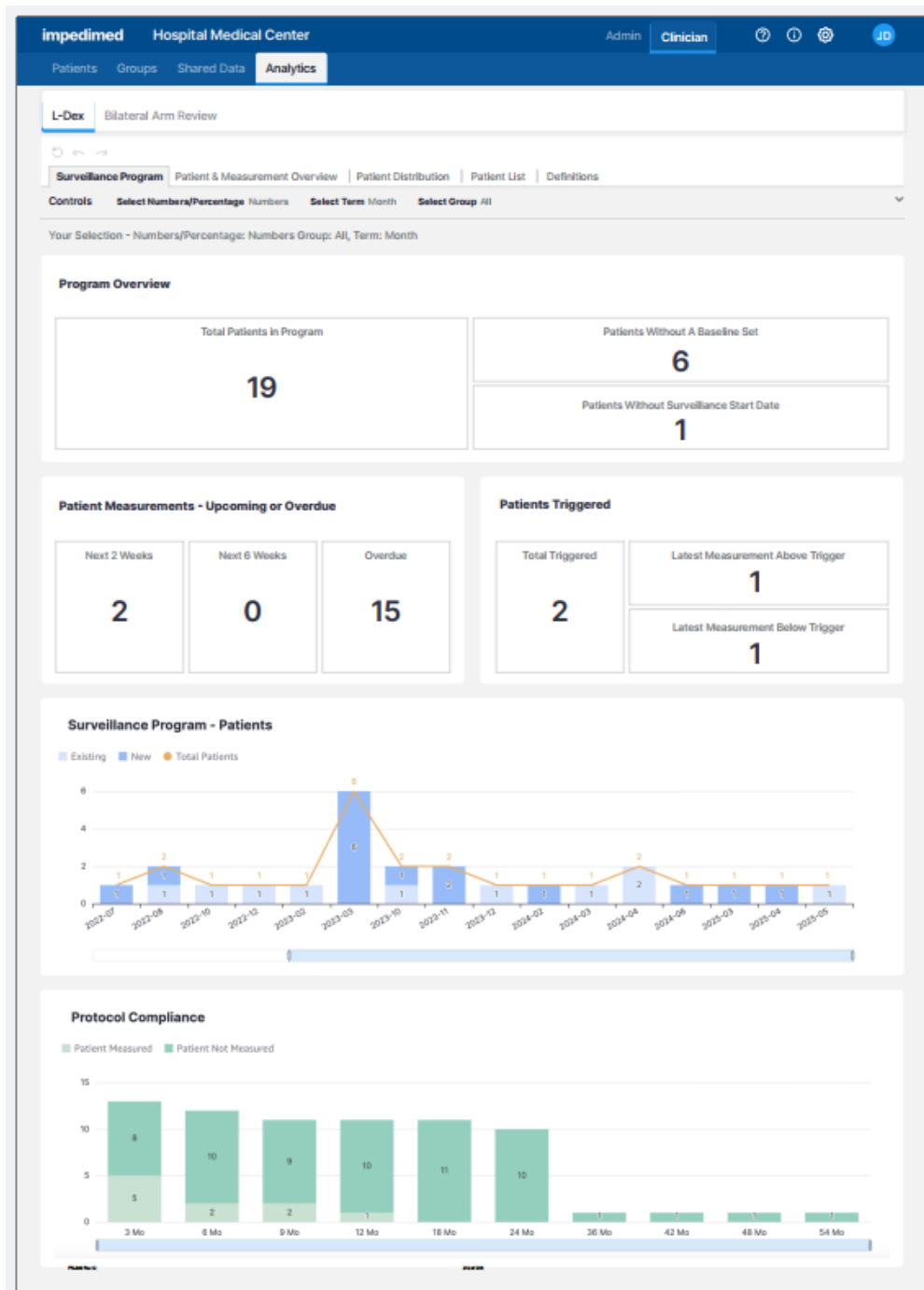
² Ridner SH, Dietrich MS, Boyages J, et al. A Comparison of Bioimpedance Spectroscopy or Tape Measure Triggered Compression Intervention in Chronic Breast Cancer Lymphedema Prevention. *Lymphatic Research and Biology* 2022.

³ Ridner SH, Dietrich MS, Cowher MS, et al. A Randomized Trial Evaluating Bioimpedance Spectroscopy Versus Tape Measurement for the Prevention of Lymphedema Following Treatment for Breast Cancer: Interim Analysis. *Ann Surg Oncol* 2019.

⁴ McDuff SGR, Mina AI, Brunelle CL, et al. Timing of Lymphedema Following Treatment for Breast Cancer: When Are Patients Most At-Risk? *Int J Radiat Oncol Biol Phys* 2018.

NOTE: This dashboard only includes patients who have a baseline measurement selected and are included in the Lymphoedema surveillance program as selected in the patient profile (Surgery Date or Alternate Date are entered in the patient profile). The Surgery Date or Alternate Date entered in the profile is used as the starting date for the surveillance protocol (see [7.5.2.5, Further Definitions](#)).

The Program Overview in the Analytics Surveillance tab is shown below. The total number of patients in the program, the number of patients without a baseline set, and the number of patients without a surveillance start date are displayed. Additionally, the number of patient measurements that are upcoming or are overdue and the number of patients triggered are displayed.



Directly beneath the graphs in the Patients view and Protocol Compliance view is a blue horizontal bar that allows you to change the range. Slide the end of the bar right or left and the display adjusts automatically.

7.5.2.1 Patients Measurements – Upcoming or Overdue

This displays the total number of patients in the surveillance program who are due for their measurement in the next 2 weeks, 6 weeks, and the patients who are overdue. The due date for a patient is calculated based on the surveillance start date and the defined frequency within the surveillance program protocol. Measurement status is determined by the surveillance program start date and protocol intervals selected.

Example: For every 6-month protocols, a patient is counted as having a measurement if a measurement occurs within 3 months on either side of the due date.

7.5.2.2 Patients Triggered

This displays the number of patients in the surveillance program whose L-Dex score has triggered as 6.5 L-Dex units above their baseline.

- **Total Triggered:** The total number of patients whose L-Dex score has ever equalled or exceeded the L-Dex threshold of a 6.5 L-Dex unit increase from baseline in any limb being monitored.
- **Latest Measurement Above Trigger:** The number of patients whose latest L-Dex score is equal to or above 6.5 L-Dex units above their baseline. If a patient has bilateral measurements with two triggers, only one will be counted as a trigger and if any of the latest measurements remain as triggered, it will take precedence.
- **Latest Measurement Below Trigger:** The number of patients who had previously triggered, but whose latest L-Dex values have fallen to less than 6.5 above their baseline.

7.5.2.3 Surveillance Program - Patients

This provides the number of patients in the surveillance program who were measured during the selected time period.

NOTE: Patients with multiple measurements in a single time period will be counted only once. Patients with a measurement in multiple time periods will be counted for each time period where a measurement was taken.

7.5.2.4 Protocol Compliance

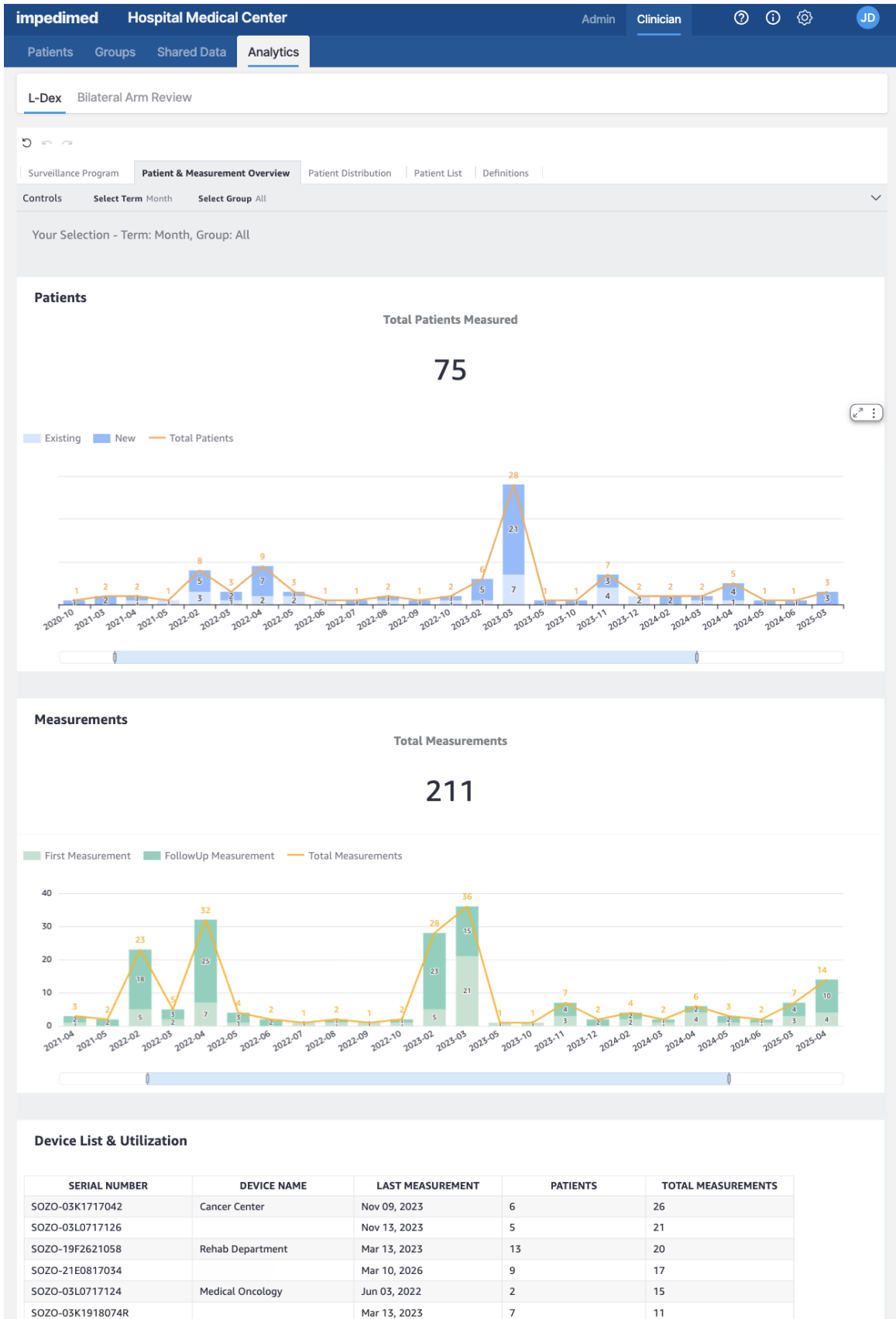
This provides the total number of surveillance program patients who took a measurement within the target protocol time period vs. those patients who did not take a measurement for each measurement target date. The surveillance program target dates are defined below and calculated for each patient based on the Surveillance Start Date of the patient and the surveillance program protocol selected for the clinic. Patients will be considered measured if they have had a measurement halfway between the protocol timepoints. For example, if the protocol interval is every 6 months, the patient will be counted as measured if they had a measurement within 3 months on either side of the due date.

7.5.2.5 Further Definitions

- **Surveillance Program Start Date:** The Surgery/Alternate Date should be the first treatment date that had an impact on the Lymphatic system. This date will be used to track when measurements should be started and when the follow-up measurements should be taken based on the Surveillance Program Protocol. The Surgery/Alternate date is an optional field that is specified in the patient profile for individual patients but is required for a patient to be included in the Surveillance Program Dashboard in Analytics.
- **Testing Frequency:** The surveillance program protocol, either evidence-based or custom, should be determined by the SOZO administrator and will be utilised clinic-wide
 - Evidence-Based Protocol
 - Years 1-3: Every 3 months
 - Years 4-5: Every 6 months
 - Year 6: Every 12 months
 - Custom Protocol
 - Duration up to 6 years
 - Testing frequency:
 - Years 1-2: Every 3, 4 or 6 months
 - Years 3-6: Every 3, 4, 6 or 12 months

7.5.3 Patient & Measurement Overview

This dashboard provides insight into the usage of SOZO and the L-Dex Analysis for Lymphoedema Assessment. It provides outputs based on all Lymphoedema patients, Total Measurements, and Devices used within the clinic.



7.5.3.1 Patients Measured

This chart provides the total count of L-Dex patients who have had at least one measurement in the defined time period, selectable by Month, Quarter or Year from the Controls menu.

NOTE: A patient with multiple measurements within a time period will be counted only once. The Total Patients Measured is a count of all unique L-Dex patients who have had at least one measurement.

7.5.3.2 Measurements

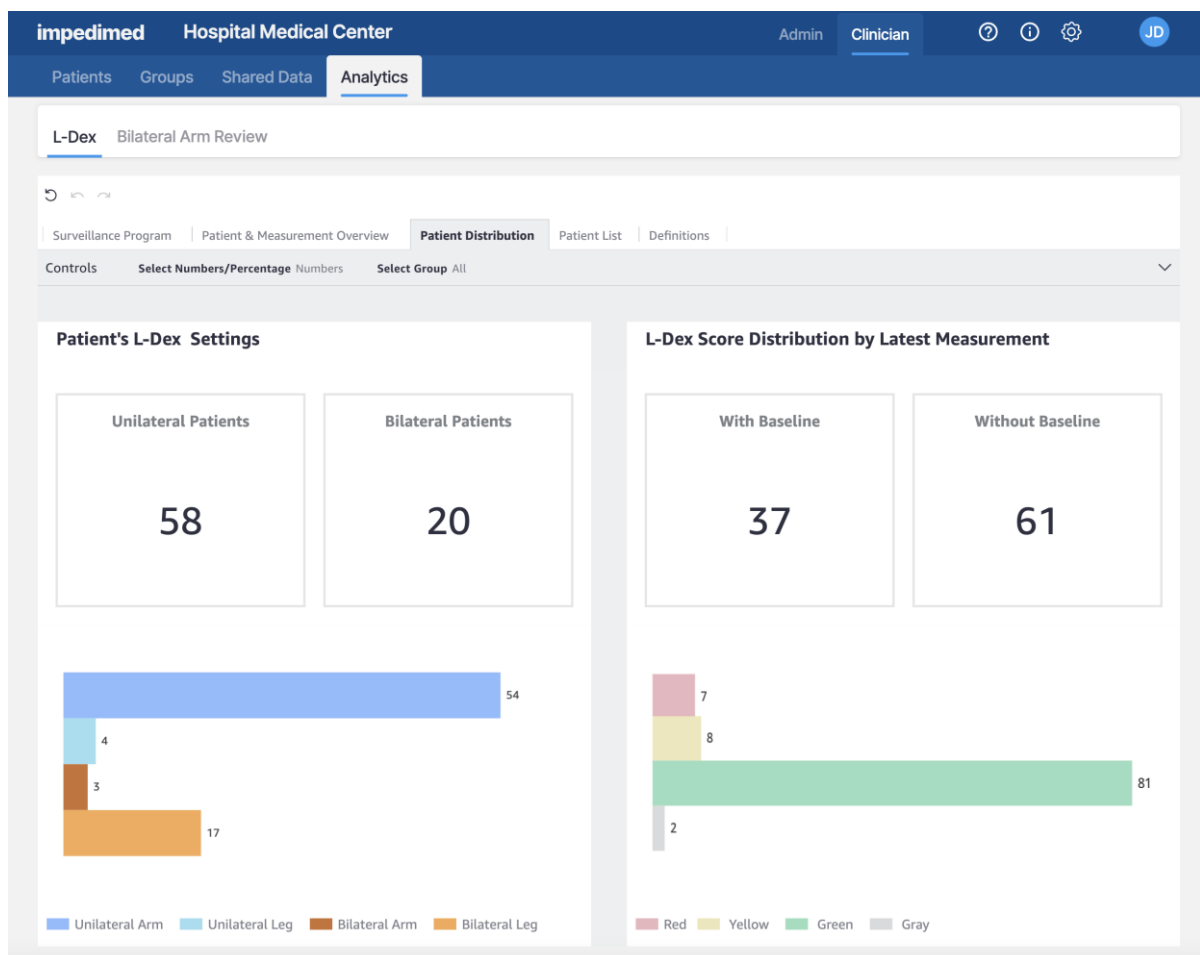
This chart provides the count of measurements taken on L-Dex patients over time, selectable by Month, Quarter or Year from the Controls menu. The total Measurements is a count of all measurements taken on all L-Dex patients.

7.5.3.3 Device List & Utilisation

This table provides the total number of Patients and Measurements, as defined above, by SOZO serial number.

7.5.4 Patient Distribution

This dashboard provides a summary of all L-Dex patients by their at-risk limb/s (demographics) and L-Dex Output. Only patients who have the L-Dex assessment type are included.



7.5.4.1 Patient's L-Dex® Settings

This chart provides a count of patients who have selected Unilateral or Bilateral L-Dex Assessment settings. It can be displayed as the number or as a percentage.

The distribution of the number of, Unilateral Arm, Unilateral Leg, Bilateral Arm and Bilateral Leg patients is shown in bar graphs.

NOTE: The total number of L-Dex patients in the clinic is equal to sum of unilateral patients and sum of bilateral patients.

7.5.4.2 L-Dex® Score Distribution by Latest Measurement

This chart provides a count of the latest L-Dex measurement values and if there is a baseline associated with each reading. It can be displayed as the number or as a percentage.

The distribution of the number of latest lymphoedema measurements assessed as grey, green, yellow and red is displayed.

NOTE: These categories have a different meaning depending on whether a baseline has been set.

L-Dex Categories without a Baseline

Grey (Below Normal L-Dex)	L-Dex scores below 2 or 3 standard deviations less than the population mean (below -10).
Green (Normal L-Dex)	L-Dex scores between 2 or 3 standard deviations less than the population mean and 1.35 or 2 standard deviations greater than the population mean (-10 to 6.5).
Yellow (Normal L-Dex)	L-Dex scores between 1.35 and 2 standard deviations or 2 and 3 standard deviations greater than the population mean (6.5 to 10).
Red (Above Normal L-Dex)	L-Dex scores above 2 or 3 standard deviations greater than the population mean (above 10).

L-Dex Categories with a Baseline

Grey (Below Normal L-Dex Change)	Change in L-Dex scores from the baseline that are greater than 2 or 3 standard deviations below the baseline (change greater than -10).
Green (Normal L-Dex Change)	Change in L-Dex scores from the baseline between 2 or 3 standard deviations less than the baseline and 1.35 or 2 standard deviations greater than the baseline (change between -10 and +6.5).
Yellow (Elevated Normal L-Dex Change)	Change in L-Dex scores from the baseline between 1.35 and 2 or 2 and 3 standard deviations greater than the baseline (change between +6.5 and +10).
Red (Above Normal L-Dex Change)	Change in L-Dex scores from the baseline that are greater than 2 or 3 standard deviations above the baseline (change greater than +10).

NOTE: Patients with no measurements will not have a baseline and will not be included in the bar graph output. Bilateral patients will include two measurements, one for each at risk limb.

NOTE: Total L-Dex patients in the clinic are equal to sum of unilateral patients and sum of bilateral patients. The total # of measurements will be equal to the sum of unilateral patients and two times the sum of bilateral patients.

7.5.5 Patient List

The Patient list displays a list of the first name, last name, date of birth, sex, MRN, surveillance start date, and last assessment date.

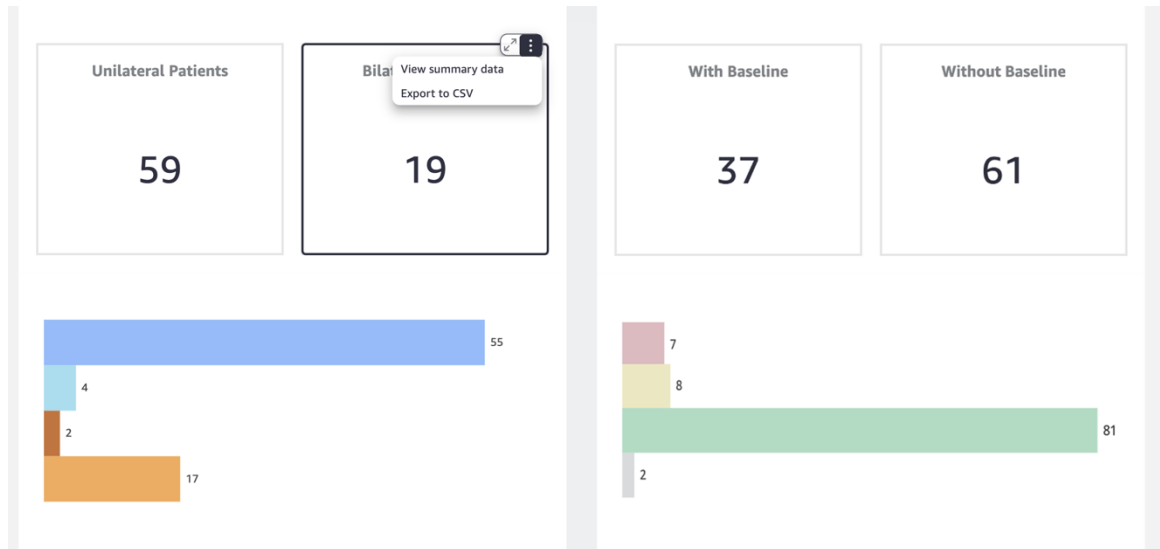
- By default, this is the full list of L-Dex patients contained in the database. Each column can be sorted by ascending or descending order.
- If the clinician drills down on a graph or table element, the Patient List is filtered according to the criteria of the graph.

The screenshot shows the ImpediMed Hospital Medical Center interface. The top navigation bar includes 'Admin' and 'Clinician' tabs. Below the navigation bar, there are tabs for 'Patients', 'Groups', 'Shared Data', and 'Analytics'. The 'Analytics' tab is active, and the 'Patient List' sub-tab is selected. The main content area displays a table of patient data for 'L-Dex Bilateral Arm Review'. Above the table, there are navigation options: 'Surveillance Program', 'Patient & Measurement Overview', 'Patient Distribution', 'Patient List', and 'Definitions'. A 'Your Selections' section shows various filter criteria. The table has columns for 'LAST NAME', 'FIRST NAME', 'DOB', 'SEX', 'MRN', 'Surveillance Start Date', and 'LAST ASSESSMENT'.

LAST NAME	FIRST NAME	DOB	SEX	MRN	Surveillance Start Date	LAST ASSESSMENT
Bennett	Francine	Nov 17, 1975	Female	7496539	null	Mar 8, 2024
Boudreaux	Donna	Apr 1, 1977	Female	66582334	null	Apr 1, 2024
Brigham	Kaycee	Oct 16, 1964	Female	1089562	null	Mar 27, 2023
Brooks	Erin	Jul 30, 1979	Female	26789867	null	Nov 9, 2023
Burrow	John	Apr 1, 1990	Male	123123123	null	Apr 1, 2024
Campbell	Alice	Jan 24, 1960	Female	49565354	null	Mar 11, 2023
Carson	Heather	Jan 28, 1991	Female	2016	null	May 27, 2022
Carter	Sarah	Dec 22, 1977	Female	8559234	null	May 2, 2023
Cg	Cg	Mar 5, 2006	Female	Clbg	null	Mar 31, 2025
Cg2	Cg2	Mar 7, 2006	Female	Impd	null	May 13, 2025
Chabner	Elizabeth	Feb 26, 1968	Female	ec1	null	Mar 12, 2023
Cochran	Kathleen	Oct 20, 1963	Female	5689032267	null	Oct 26, 2023
Cooper	Ayesha	Sep 14, 1987	Female	FEM003	null	Nov 27, 2023
Curtin	Mike	Feb 6, 1965	Male	7890	null	Mar 12, 2023
Demo	Shelly	Sep 5, 1979	Female	9889	null	Jun 3, 2022
Doe	Jane	Feb 8, 1979	Female	23594	null	Jan 29, 2023

7.5.6 Navigation

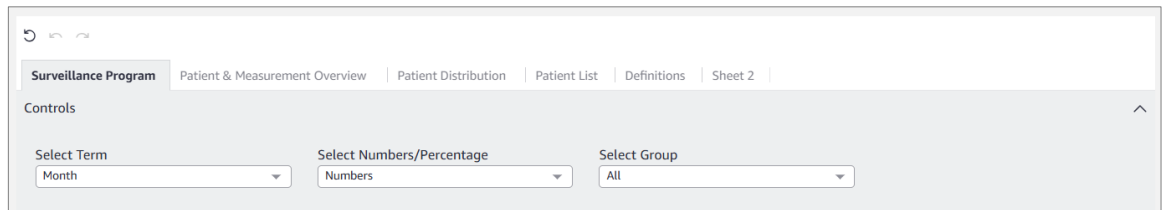
- Exporting data:** To export the data shown for any individual chart or table on the screen, select the chart or table element. A menu on the upper right side of the chart or table will appear, select the “...” and then **Export to CSV**.



- Accessing Patient List:** By default, all patients with an L-Dex Assessment are included in the Patient List. To get patient data associated with a particular chart or table element, select the data element (e.g., Overdue patients, Patients Measured in Time Period, Serial Number, Bilateral Leg Patients, etc.) and click once to highlight the chart or table, then click again for the pop-up to appear. Select **Go to Patient Details**. This will open the Patient List tab to show the patients associated with that data element.



- **Customizing and/or Filtering Outputs:** To filter all outputs on a tab, the following selections can be modified from the **Controls** menu at the top of each page:
 - Show output in % vs. Numbers (if applicable).
 - Modify time periods displayed (Month, Quarter, Year).
 - Filter by Groups.



- **Undoing Filters:** Select the **Reset**  control located on the top left of the page to remove all filters chosen.

8 PREPARING THE PATIENT

8.1 Preparing for all Measurements

The Clinician taking measurements on a SOZO Device must ensure that the patient:

- Removes all metal jewellery if possible, including large belt buckles. Items above the neck such as earrings are okay.
- Removes any electronics, coins, keys, or other metal objects from pockets.
- Removes shoes and socks or stockings.
- Dampen hands and feet or SOZO electrodes by wiping with a damp cloth.
- Remains still during the measurement with elbows away from the body.
- For a patient who cannot effectively separate their inner thighs, it may be necessary to place insulating material, such as dry clothes, between the patient's legs. Ensure also that the patient's upper arms and elbows are not in contact with their torso.

8.1.1 Factors Affecting Measurement

NOTE: Measurement results can be impacted by several factors:

- Placing a mobile phone in close proximity (less than 2 meters) to the device during operation
- Metal implants, clips or other types of artificial limbs or implants in the patient
- Patients touching a metal surface during the measurement process
- Using the device when the patient is connected to other medical devices (increasing the risk of electrical interference)

8.1.2 Body Composition Measurements

If body composition analysis is intended, ensure that the patient observes the following preparation tips to receive consistent BodyComp™ Assessments:

- Empty bladder prior to measurement.
- Avoid exercise for 4 hours prior to measurement.
- Avoid caffeine 2 hours prior to measurement.
- Avoid alcohol for 8 hours prior to measurement.
- Avoid meals for 8 hours prior to measurement.

8.2 Measurement Accuracy

For best measurement accuracy, clinicians should take measurements under similar conditions. Measurements should be taken at the same time of day with similar activity level and food and fluid intake.

8.2.1 Weight Modifications

Weight is important for measurement accuracy and must be entered correctly by the Clinician at the time of measurement. This weight is valid for that measurement only. After measurement, a patient's weight may not be modified.

8.3 Positioning the Patient

The SOZO system is designed in a Standing Position for patients who can stand and in a Seated Position to accommodate patients who are unable to stand and/or may exceed the maximum weight limit.

SOZO has a weight maximum of 170 kg in the standing position and 340 kg in the seated position.

See [4, DEVICE ASSEMBLY](#), which provides instructions for system configuration for standing and seated positions.

NOTE: Clinicians should always take a patient's measurements in the same position each time. This ensures a more accurate comparison of fluid levels.

For best results, when taking a reading from a standing position the patient should stand at rest for 2-3 minutes prior to taking a measurement. Similarly, when taking a reading from a seated position, the patient should be seated for 2-3 minutes prior to taking a measurement.

8.3.1 Standing Position

When standing on the SOZO Device, ImpediMed recommends using the SOZOsupport Stand provided with the system.

The patient should:

- Distribute body weight evenly on both feet.
- Keep arms relaxed with elbows at their sides, abducted slightly such that they are not in contact with the torso. The patient's hands must have contact with the electrodes.
- Minimize skin-to-skin contact (e.g., tissue contact between the torso and arm, thigh to thigh should be minimized when possible).

8.3.2 Seated Position

When using seated, ImpediMed recommends NOT using a metal chair or table.



The patient should:

- Sit fully upright and balanced in the chair with shoulders rolled back.
- Distribute body weight evenly on both hips.
- Bend the knees at a right angle, plus or minus 10 degrees.

9 TAKING MEASUREMENTS

The SOZO Device supports various types of measurements for each Assessment, such as measurements for the detection of lymphoedema (L-Dex), for monitoring of fluid in Heart Failure patients (HF-Dex) and ESRD patients, and for different body composition outputs (BodyComp™ and Segmental BodyComp™).

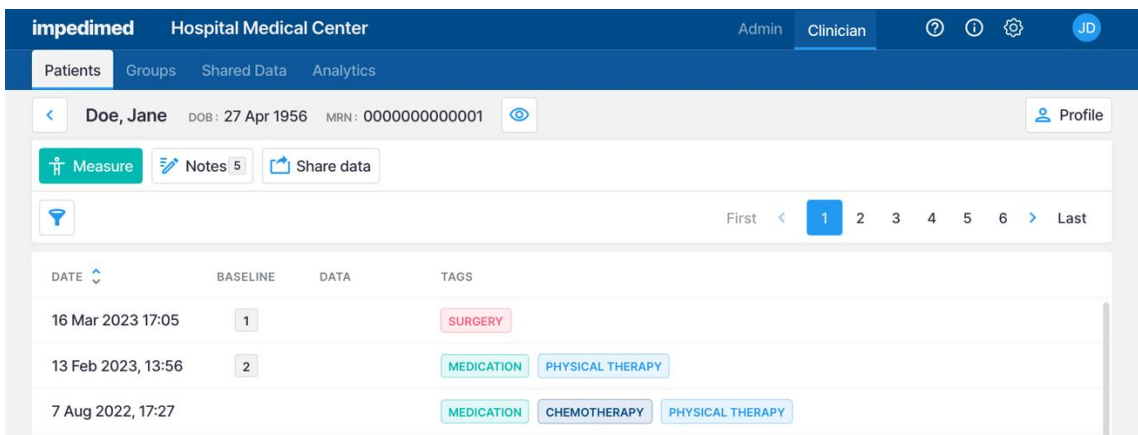
For details on the assessment types, including indication-specific information and reports, see [10, Assessment Types](#).

9.1 Starting Measurements with the SOZOapp

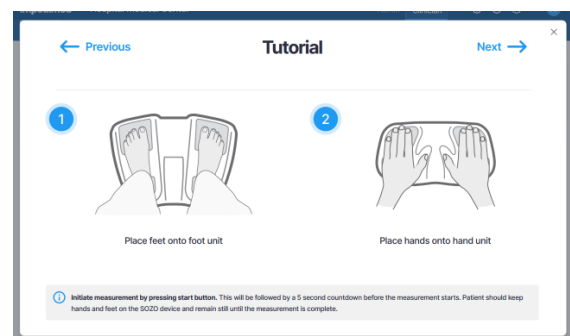
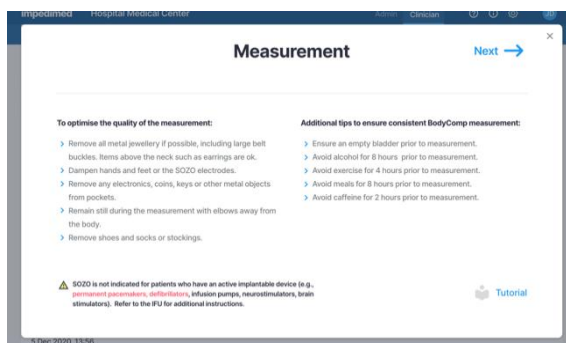
Measurements are taken using the Tablet and SOZOapp.

To take patient measurements:

1. Create a patient profile if required.
2. Search and select the patient from the Patient List to open the Patient Dashboard.
3. From the Patient Dashboard, select the **Measure** icon to begin new patient measurements.

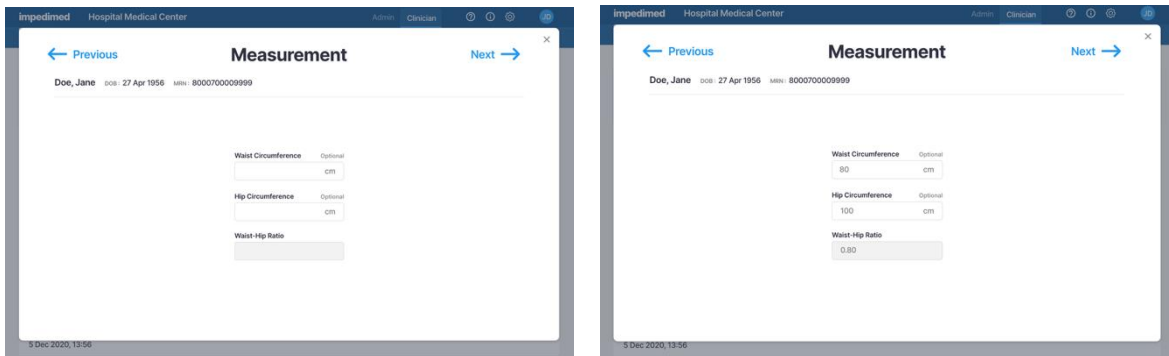


4. After selecting the **Measure** icon, measurement instructions appear. To optimise measurement quality, ensure patient compliance with these instructions. To view a tutorial on device use, select **Tutorial**. When finished, select **Next**.



NOTE: To ensure patient privacy, do not permit the patient to handle the Tablet while taking SOZO measurements.

(Optional) For BodyComp™ measurements only, enter the patient's waist and hip circumference measurements. The waist-hip ratio will be calculated automatically and displayed on the History graph on the Results screen.



5. Instruct the patient to place their feet onto the SOZOstep. Locate their heel recesses and ensure that each foot is flat and in full contact with each electrode plate.
 - a. There are two electrode plates for the left foot, and two electrode plates for the right foot.

NOTE: Accurate weight entry is critical to body composition analysis. The patient should be weighed immediately prior to the SOZO measurement.

6. Instruct the patient to place both hands onto SOZOtouch with thumbs securely wrapped around corners of each recess. Make sure each hand is flat and in full contact with each electrode plate.
 - a. There are two electrode plates for the left hand, and two electrode plates for the right hand.
7. Enter Patient Weight and then select **Start** to begin measuring the patient.
 - a. This triggers a five-second countdown before the start of the measurement.



Once started, the SOZO Device measurement will take approximately 30 seconds. The measurement in progress window remains until the measurement is complete. The patient's hands and feet must be firmly placed and held stationary against the electrodes throughout the entire measurement process. The measurement will cancel if no contact is detected.

The SOZO Device makes audible clicking noises during measurement. These clicking noises indicate that the process is working correctly.

NOTE: Surface temperature should not exceed 47° C (117° F) during normal use. Do not use SOZO Device if it is hot to the touch. Disconnect the SOZO Device by unplugging the Power Adaptor and call ImpediMed Technical Support.

NOTE: Read Intended Use (see [2.2, Intended Use](#)) and Precautions (see [2.3, Indication for Use](#)) before taking measurements with the SOZO Device.

NOTE: Ensure that the SOZOstep is stationary and on a level surface.

9.2 Accepting and Rejecting Cole Plots After Measurement

After the measurement process is complete, the system calculates and assesses the Cole plots. If all 6 Cole plots are assessed as high quality, the Cole plots will be automatically accepted and not displayed prior to the results, however, can be viewed with the measurement. If any of the 6 Cole plots are assessed as medium or low quality, the next step is to view the Cole plots results, in order to evaluate the quality of the measurements.



The SOZO software helps determine the quality of measurements by ranking each Cole plot as “High Quality” (green), “Medium Quality” (yellow) or “Low Quality” (red), as shown below.

Cole plots associated with a given measurement are stored with each measurement and may be reviewed alongside a given measurement’s results on the “Cole Plots” tab.



9.3 Interpreting Cole Plots

On a Cole plot, the blue dots are the raw “Measured Data”, and the green dots are “Td Corrected Data”, representing the raw measured data after time delay correction has been applied. The solid red semi-circle or “Fitted Curve” represents the final curve to which the Td corrected data was fitted. Some degree of “scatter” of Measured Data is acceptable. If Td Corrected Data is consistent with the red Fitted Curve the Cole plot is “High Quality”.

If, on the other hand, Measured Data is extremely scattered or does not form a semi-circle, the Cole plot may be medium quality or low quality. During the brief

measurement period some measurement errors may occur if, for example, the patient shifts their hands or feet. Other errors, such as a sharp curve upwards on the right side of the curve may be due to cold, dry, or scaly skin impeding the current at low frequencies. This can usually be improved by cleaning the hands and feet with warm water.

A large amount of scattered data may be due to interference from a nearby mobile phone or other piece of operating electrical equipment. Determination of the quality of a given measurement can only be made at the time of measurement, but Cole plots are also shown when reviewing historical result.

If all the Cole plots are high quality, the measurements are automatically accepted. If, however, one or more of the Cole plots are medium quality or low quality, **Accept** and **Reject** buttons appear at the bottom of the Cole Plots screen. When this occurs, the Clinician must decide to accept or reject the measurements.

The Clinician cannot accept or reject some, but not all, Cole plots. If they select **Accept**, all Cole plots are accepted. If **Reject** is selected, all Cole plots are rejected.

The Clinician does not have to reject the measurements if one or more Cole plots are medium quality or low quality. Instead, the Clinician may still choose to accept the measurements, taking into consideration the quality of each Cole plot, and the facts and circumstances surrounding measurement of the patient.

If a measurement is accepted, Assessment results are displayed. Only licenced Assessments are available for viewing in the SOZOapp.

If a measurement is rejected, the user is taken back to the Patient Dashboard.

9.4 Licencing

9.4.1 Impact of Licencing Additional Assessments on Results

When the SOZO Device takes measurements, it collects and stores bioimpedance data categorised by date and time. These are independent of the type of Assessment. If the Clinic decides to purchase additional Assessment licences, the new Assessment may be added to a patient's profile, taking into consideration their intended use. Historical results will then be recalculated based on previously collected Measurement data and the new Assessment outputs will be shown in the applicable history and measurement screens.

9.4.2 Impact of Cancellation of Assessment Licence on Results

If a Clinic cancels an Assessment licence, the Clinic will no longer be able to take new measurements for that Assessment, and the Clinic will no longer be able to view any previous measurement data for that Assessment type.

10 ASSESSMENT TYPES

The SOZO Device supports the following Assessment Types:

1. L-Dex®
2. HF-Dex®
3. BodyComp™
4. Segmental BodyComp™
5. ESRD

Depending on licencing, all Assessments and measurements may not be available or viewable in MySOZO and the SOZOapp.

Some Assessment types may not be available in certain geographic regions. Contact ImpediMed sales or Technical Support with any inquiries. Each Assessment has its own instructions for use providing information on how to use the Assessment and outputs, and Assessment-specific precautions, warnings, and contraindications.

10.1 Choosing the Proper Assessments for the Patient

It is recommended that only the most appropriate and relevant Assessment is selected for each patient, taking into consideration the patient's diagnosis and the individual needs of the patient as determined by their health care provider. On deciding which Assessments to select for each patient, take into consideration that:

- L-Dex® aids the Clinician in the assessment of lymphoedema in a patient who has or is at risk of lymphoedema.
- HF-Dex® aids the Clinician in monitoring fluid status in patients living with heart failure.
- BodyComp™ is used to provide fluid and tissue analysis assessments of an individual.
- Segmental BodyComp™ is used to provide fluid and tissue analysis assessments of individual limbs.
- ESRD aids the Clinician in monitoring fluid status in patients undergoing dialysis.

Each Assessment must have a separate licence. Only Assessment types with licences are available to the user. The available Assessment types for a given user is displayed in the SOZOapp and MySOZO. Assessment and associated results are only available if licenced.

10.2 L-Dex® for Lymphoedema Instructions for Use

All warnings, contraindications and precautions apply. In addition, consider the following when using the SOZO Device to take L-Dex measurements on a patient.

Prior to taking a measurement, the patient's profile must be updated to indicate:

- What is at risk of Lymphoedema? Both Arms, Right Arm, Left Arm, Right Leg, Left Leg, Both Legs (select the option that applies)
- What is the dominant limb? Right, Left (select one)

- Include Patient in Surveillance Program? Yes, No (select one)



Ensure that you update the patient profile correctly to fit each patient's needs, taking into consideration the relevant facts and circumstances related to measurement, since this will affect the validity of measurements. Incorrect measurements may impact the accuracy of the L-Dex calculations and may affect the L-Dex assessment based upon L-Dex calculations.

10.2.1 Indications for Use

The SOZO device has the following uses:

For adult human patients at risk of lymphoedema:

A bioimpedance spectroscopy device for use on adult human patients, utilising impedance ratios that are displayed as an L-Dex ratio that supports the measurement of extracellular volume differences between the limbs and is presented to the Clinician on an L-Dex scale as an aid to their clinical assessment of lymphoedema.

The L-Dex Assessment is only indicated for patients who will have, or who have had, lymph nodes, from the axillary and pelvic regions, either removed, damaged or irradiated.

10.2.2 The Lymphoedema Index (L-Dex®)

The SOZO system displays L-Dex Assessment results based upon patient measurements taken with the SOZO Device. The L-Dex Assessment produces an L-Dex score, which is based on the comparison of the impedance of the unaffected limb(s), or the predicted impedance of the limb(s) in a healthy population to impedance of the at-risk limb(s). Research has established a normal range of L-Dex scores in healthy patients. Normal L-Dex score ranges are presented in the L-Dex assessment results to assist with patient evaluation.

For patients at risk of unilateral lymphoedema in the arm or leg, one L-Dex score will be presented for the at-risk limb. For patients at risk of bilateral arm or leg lymphoedema, two L-Dex scores will be presented, one for each at-risk limb.

The underlying calculations for unilateral assessments using the SOZO system have not changed from any previous L-Dex devices. The impedance of the extracellular fluid space (R0) of the unaffected limb is compared with the contralateral affected limb. Clinical data has shown this to have “excellent” accuracy

when used as a clinical aid to assess unilateral fluid accumulation in the limb following cancer treatment.⁵



When transitioning from L-Dex devices used in a supine position to use of the SOZO system in a sitting or standing position, there may be a one-time shift in L-Dex scores. The shift has been shown not to be significant.

For assessment of patients at risk of bilateral arm or leg lymphoedema, where fluid accumulation could occur in both arms or legs, simultaneously, the comparison of contralateral limbs is not an option. For patients at risk of bilateral arm lymphoedema, SOZO compares the at risk arms to a model of predicted healthy patient arm L-Dex scores[^]. For at risk bilateral leg patients, SOZO uses the R0 impedance of the unaffected ipsilateral limb, instead of the unaffected contralateral limb, for bilateral assessments of fluid increases. Clinical data also has shown that arm R0, when compared to leg R0 for the assessment of fluid accumulation in bilateral leg measurements, has “very good” accuracy.⁵

[^]The bilateral arm baseline and longitudinal tracking L-Dex sensitivity and specificity calculated values are listed below.

NOTE: For patients suspected of being at risk of developing bilateral lymphoedema, confirm their bilateral risk status prior to patient profile setup and measurement.



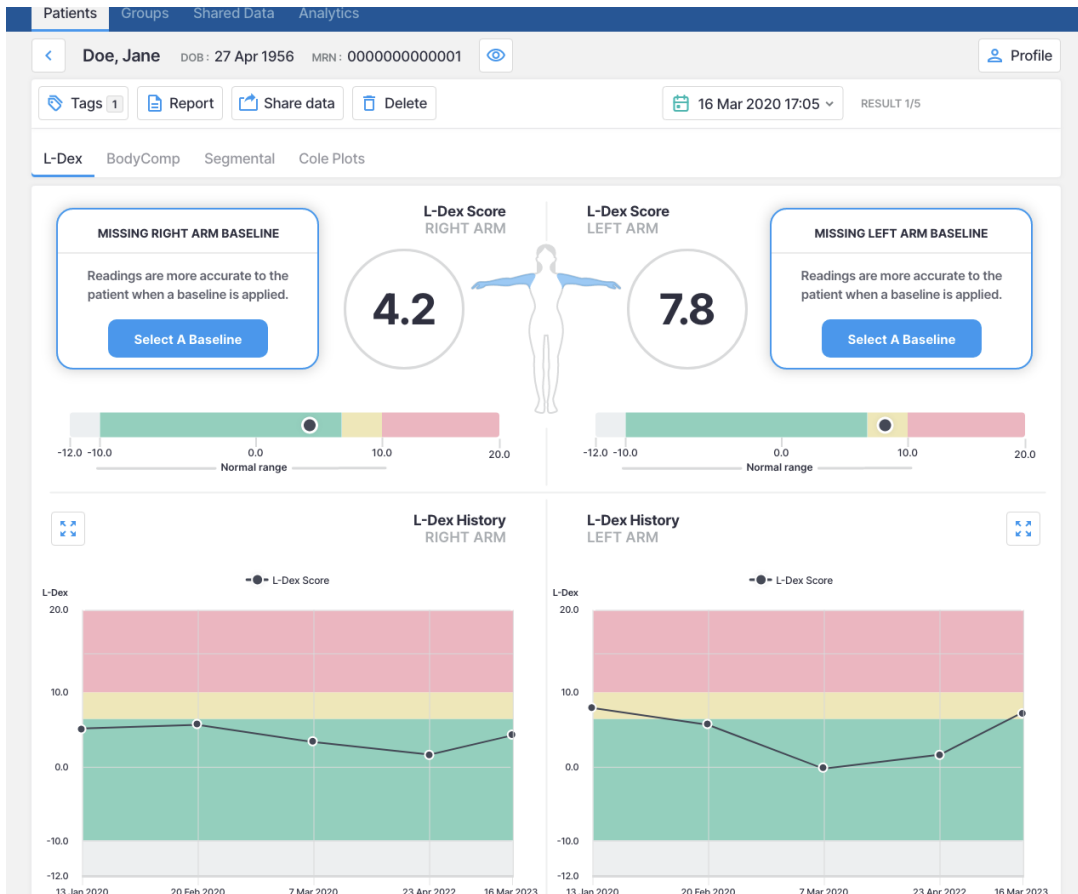
If a unilateral patient is subsequently considered to be at risk for bilateral lymphoedema and their profile has been updated, the L-Dex scores for the previously measured limb will be recalculated using this bilateral approach. This may result in a shift in previous L-Dex scores.

10.2.2.1 Bilateral Arm L-Dex Sensitivity and Specificity

Cross-sectional Sensitivity and Specificity: 81.3% Sensitivity and 91.6% Specificity.

Longitudinal Tracking Sensitivity and Specificity: 77.0% Sensitivity and 90.0% Specificity.

⁵ SOZO’s L-Dex® accuracy was determined using Receiver Operating Characteristic (ROC) curve analysis. Area under the curve (AUC) scores are established using ROC curves which compare the true positive rate (Sensitivity) against the false positive rate (100 minus Specificity) for different cut-off points of a parameter. Each point on the ROC curve represents a sensitivity/specificity pair corresponding to a particular decision threshold. The area under the ROC curve (AUC) is a measure of how well a parameter can distinguish between two groups (diseased/normal). The closer the modelled AUC comes to 1, the better it is. SOZO’s L-Dex® accuracy was calculated with an area under the curve (AUC) of 0.95 for unilateral assessment and 0.80 for bilateral assessment.



Bilateral arm patient L-Dex assessment for the Left Arm.

10.2.2.2 Using the L-Dex® Scale without a Baseline

The L-Dex scale is a tool to assist in the clinical assessment of lymphedema by a medical provider. The SOZO System displays the current L-Dex score using the L-Dex scale. The L-Dex scale shows the patient's L-Dex score as either inside or outside of the normal range of L-Dex score for a healthy person. The L-Dex scale normal range (plus or minus 3 standard deviations for unilateral arm and leg and bilateral leg, plus or minus 2 standard deviations for bilateral arms) measured for a healthy person without lymphedema ranges between +10 and -10 L-Dex units. If a baseline is not set, the normal range will center around an L-Dex score of 0 which is the mean of the matched healthy population.



L-Dex Scores ≤ -10

L-Dex scores equal to or less than -10 may be caused by procedural errors. A warning will be displayed stating that the measurement is out of range. Follow the instructions for use to ascertain the accuracy of the measurements in question.



L-Dex Scores > 10

L-Dex scores greater than 10 may indicate the early signs of lymphoedema.



L-Dex Categories without a Baseline

Below Normal L-Dex (Grey)	L-Dex scores below 2 or 3 standard deviations less than the population mean (below -10).
Normal L-Dex (Green)	L-Dex scores between 2 or 3 standard deviations less than the population mean and 1.35 or 2 standard deviations greater than the population mean (-10 to 6.5).
Normal L-Dex (Yellow)	L-Dex scores between 1.35 standard deviations or 2 and 3 standard deviations greater than the population mean (6.5 to 10).
Above Normal L-Dex (Red)	L-Dex scores above 2 or 3 standard deviations greater than the population mean (above 10).

10.2.2.3 Using the L-Dex® Scale with a Baseline

Because each person has a different starting L-Dex score, the L-Dex scale normal range can be tailored to an individual patient by reviewing the change in L-Dex score from a Lymphoedema Assessment taken prior to treatment. This is known as a baseline measurement and the change in L-Dex score is used to categorise the measurement. In this case, an increase of 6.5 L-Dex units (1.35 or two standard deviations) from the baseline may indicate early signs of lymphoedema.

When a baseline is set, the normal range will reflect a -10 to +6.5 range around the selected baseline L-Dex score. From this comparison, changes in patient fluid levels may be identified, and evaluated as changes which fall within normal or abnormal ranges.



Change in L-Dex Scores $\geq +6.5$

L-Dex scores that have changed +6.5 L-Dex units from the baseline may indicate early signs of lymphoedema.

L-Dex Categories with a Baseline

Below Normal L-Dex Change (Grey)	Change in L-Dex scores from the baseline that are greater than 2 or 3 standard deviations below the baseline (change greater than -10).
Normal L-Dex Change (Green)	Change in L-Dex scores from the baseline between 2 or 3 standard deviations less than the baseline and 1.35 or 2 standard deviations greater than the baseline (change between -10 and +6.5).
Elevated L-Dex Change (Yellow)	Change in L-Dex scores from the baseline between 1.35 and 2 or 2 and 3 standard deviations greater than the baseline (change between +6.5 and +10).
Above Normal L-Dex Change (Red)	Change in L-Dex scores from the baseline that are greater than 2 or 3 standard deviations above the baseline (change greater than +10).

It is recommended to use a baseline taken prior to cancer treatment whenever possible to customise the L-Dex scale for the individual. If a patient has already begun cancer treatment and there is no way to determine a healthy baseline, the clinician should use clinical judgment in conjunction with other assessments to select the most appropriate baseline measurement. If a patient has already developed lymphoedema and SOZO is being used to track their progress, do not set the baseline.

10.2.3 Recommended Measurement Frequency

Clinical Practice Guidelines for Bioimpedance Spectroscopy (L-Dex) for Breast Cancer Related Lymphedema Assessment were published in *The Breast Journal* in 2016*. The guidelines recommend the following protocol for monitoring patients at-risk for lymphedema with a clinical assessment using L-Dex:

- Baseline
- Years 1-3: Every 3 months
- Years 4-5: Every 6 months
- Years 6+: Annually

* Shah C, et al. Bioimpedance Spectroscopy for Breast Cancer Related Lymphedema Assessment: Clinical Practice Guidelines. *The Breast Journal* 2016;DOI: 10.1111/tbj.12647.

10.2.4 L-Dex® Assessments

10.2.4.1 Measurement Results

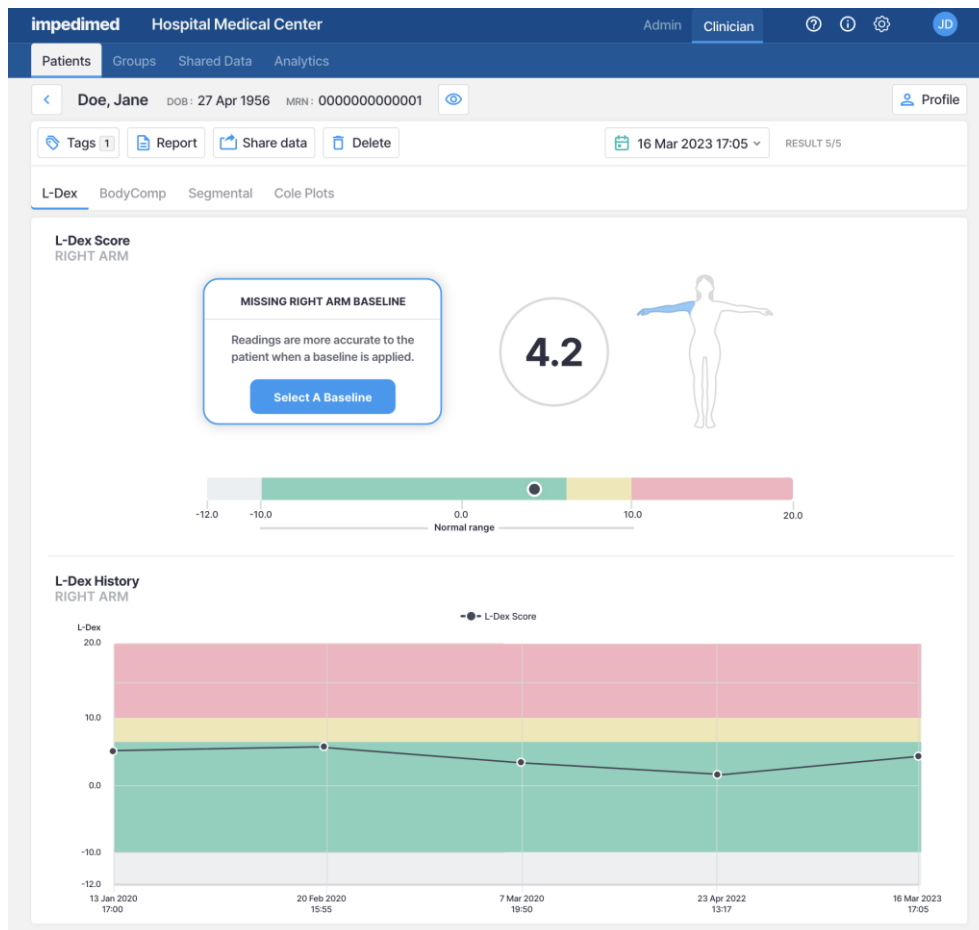
After a successful measurement, the SOZOapp screen will display the results of an L-Dex measurement. In addition to the immediate results, a history of previous patient measurements is displayed in graph format, to allow comparison between

current results and previous results. This shows increases or decreases in the L-Dex score over time. The same patient history information can be accessed from MySOZO through a web browser.

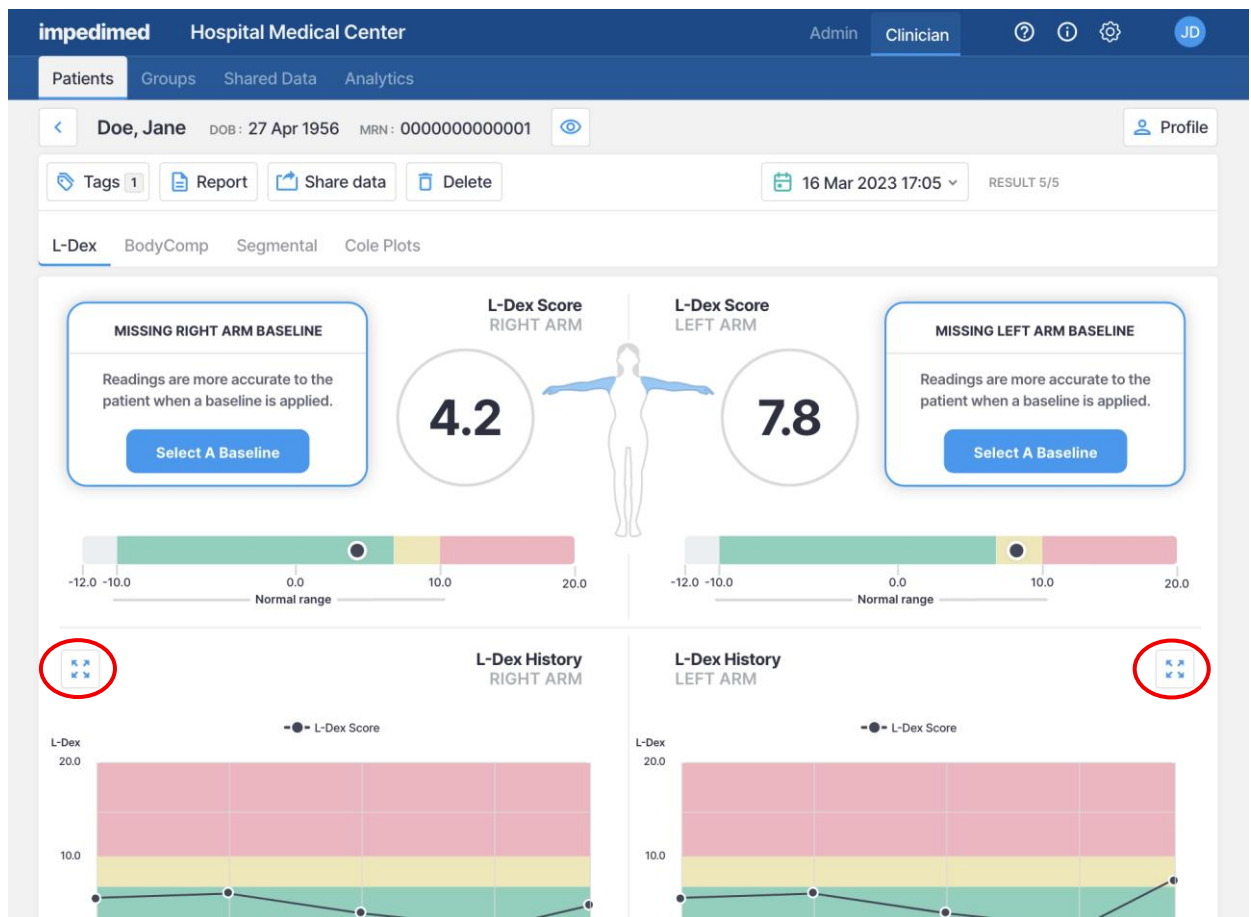
Below are examples of the results of unilateral and bilateral measurements. The L-Dex score is prominently displayed inside a colour-coded circle which matches the colour on the graph (only when a baseline is set), and the limb or limbs at risk of lymphoedema are highlighted.

NOTE: If the circle is clear, a baseline has not been set. To set a baseline, see [10.2.5, Setting the Baseline](#).

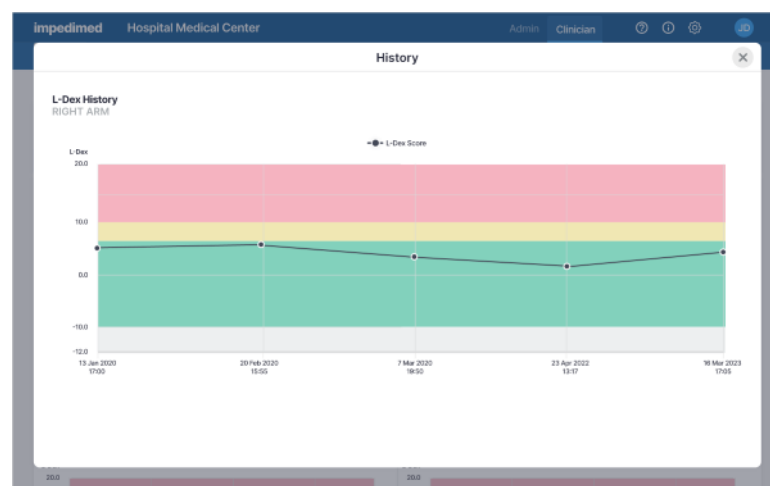
Unilateral measurement example:



Bilateral measurement example:



To expand the History graph for easier viewing of multiple measurements over time, select the **Expand** icon.

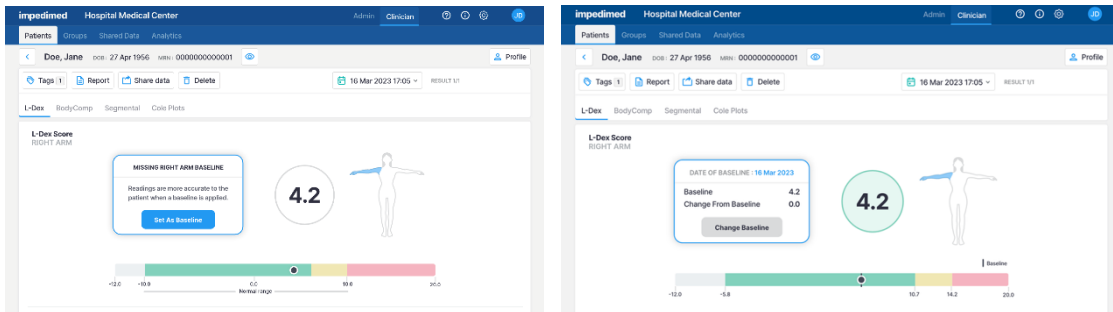


10.2.5 Setting the Baseline

For an L-Dex score, the optimal baseline is typically one of the first few measurements taken, preferably before surgery or other intervention that could impact the lymphatic system.

To set a baseline for a single measurement:

For a single measurement, select the **Set As Baseline** button. The L-Dex score graphic will be updated with the corresponding colour on the graph.



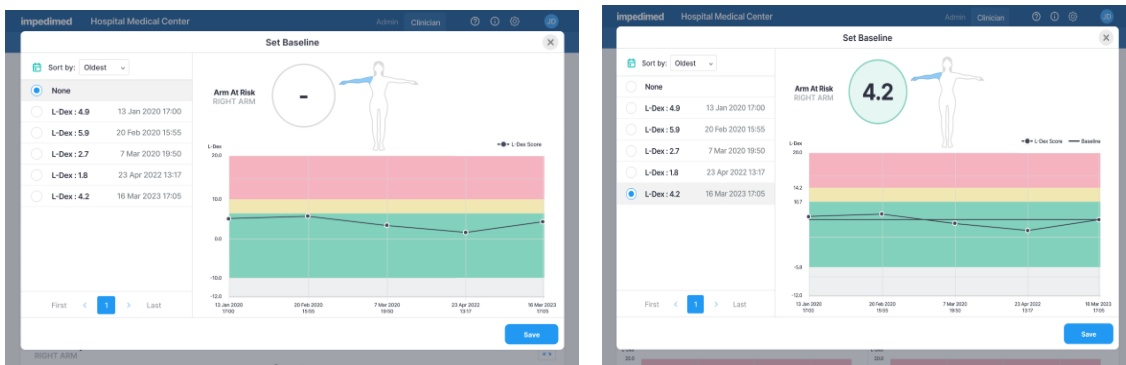
To set a baseline when there is more than one measurement:

1. Select the **Select A Baseline** button.

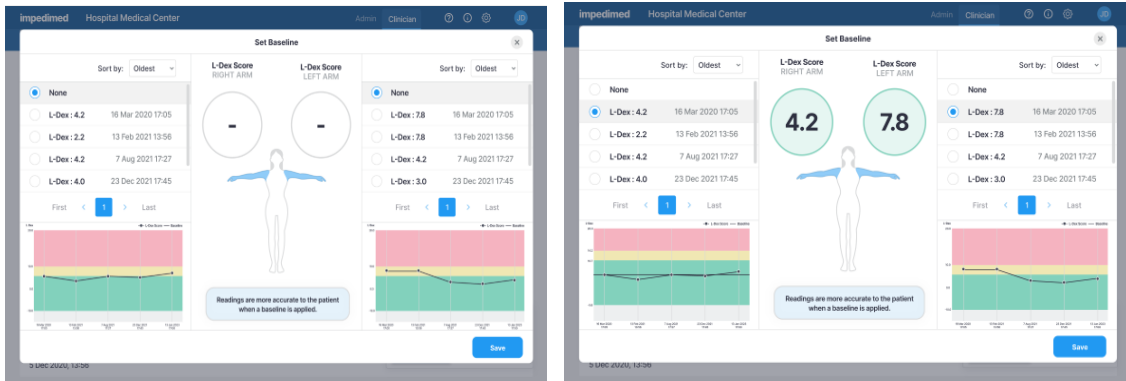


2. In the Set Baseline pop-up, select the measurement from the list(s). You can arrange the list by selecting Oldest or Newest in the Sort drop-down.

- For a Unilateral measurement:



- For a Bilateral measurement:



3. Select **Save**.
4. The button name changes to **Change Baseline** to allow for future changes to the baseline.



10.3 HF-Dex[®] for Heart Failure Instructions for Use

All warnings, contraindications and precautions apply. In addition, consider the following when using SOZO to take HF-Dex measurements on a patient:

In order to use the HF-Dex module, the clinic will require a licence for the module. The patient will additionally need to have the module selected in their profile. After doing so, HF-Dex module results will be presented after every measurement.



Measurement quality is important. Specifically, the patient's Right Whole Body measurement will need to be of a medium or high quality. If a patient's Right Whole Body Cole plot was assessed to be low quality ("red"), the measurement should be retaken. If a low quality measurement is accepted, HF-Dex outputs will not be presented. The error message below will be displayed instead.



10.3.1 Indications for Use

The SOZO HF-Dex module is intended for adult patients living with heart failure.

This device is intended for use, under the direction of a physician, for the noninvasive monitoring of patients with fluid management problems suffering from heart failure. Data from the device should be considered in conjunction with other clinical data.

10.3.2 HF-Dex® Assessments

10.3.2.1 HF-Dex® Score

The HF-Dex score is a tool to assist in the clinical assessment of fluid status on a patient with heart failure by a medical provider. The results screen will display the patient's HF-Dex score on a scale, with measurements displayed over time from oldest (left) to newest (right). The HF-Dex score is the patient's ECF/TBW%, compared to clinical data in the following manner:

Light Blue range: HF-Dex values in the light blue reference range are consistent with healthy individuals who do not have heart failure.

Medium Blue range: Patients whose HF-Dex score falls into the medium blue range have a raised score that is above the reference range for healthy individuals who do not have heart failure. An elevated HF-Dex score can be caused by many factors that are not necessarily indicators of heart failure or decompensation.

Dark Blue range: Patients whose HF-Dex score falls into the dark blue range have an even higher score that indicates higher fluid levels. Clinical data shows that patients with elevated scores should be carefully monitored. Decisions regarding the patient's management should be made in conjunction with other clinical data.

Grey range: HF-Dex values in the grey range may indicate a fluid imbalance for other causes (such as dehydration) or potential issues with measurement accuracy and requires additional investigation.

10.3.2.2 Recommended Measurement Frequency

Measurement frequency should be based on clinical evaluation of the patient's monitoring needs. Daily, weekly or monthly measurements may be appropriate using your best clinical judgment.

10.3.3 HF-Dex® Measurement Results

Information in a HF-Dex Assessment includes the patient's baseline HF-Dex score, change vs. baseline, and change from previous HF-Dex score.

When reviewing measurements, the following outputs are also displayed and can be selected and measurements over time observed in graph form:

- Total Body Water (TBW)
- TBW as a % of weight
- Extracellular Fluid (ECF)

- ECF as a % of TBW
- Intracellular Fluid (ICF)
- ICF as a % of TBW
- Weight history

10.3.3.1 Example of HF-Dex Results

To view History, select the **History** button.

The screenshot displays the impedimed interface for a patient named Jane Doe. The main section shows HF-Dex(%) results with a current value of 43.9. A horizontal bar chart shows the HF-Dex scale from 38.0% to 60.0%, with a red vertical line at 51.0% representing the HF-Dex value and a black vertical line at 44.0% representing the baseline. The 'Set as Baseline' checkbox is checked.

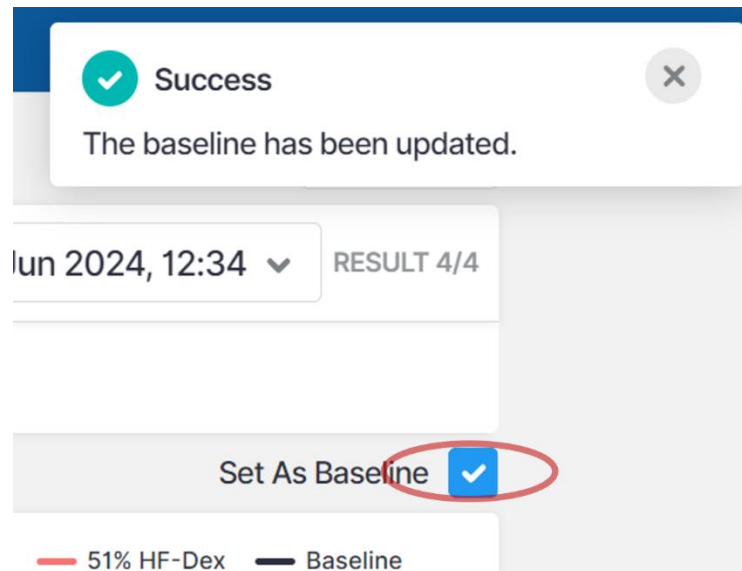
Below the chart, there are four data tables:

Total Body Water (TBW)	LITERS	% WEIGHT	Extracellular Fluid (ECF)	LITERS	% TBW
Current	38.5	50.6	Current	16.9	43.9
Change From Previous	0.6	0.0	Change From Previous	0.2	-0.1
Baseline	37.9	50.6	Baseline	16.7	44.0
Change From Baseline	0.6	0.0	Change From Baseline	0.2	-0.1

Intracellular Fluid (ICF)	LITERS	% TBW	Weight	kg
Current	21.6	56.1	Current	76.1
Change From Previous	0.4	0.1	Change From Previous	1.3
Baseline	21.2	56.0	Baseline	74.8
Change From Baseline	0.4	0.1	Change From Baseline	1.3

10.3.4 Setting the Baseline

Selection of a baseline – a “normal score” for an individual patient – is the optimal way to track changes over time. To set a baseline, select the most appropriate measurement by date from the patient’s dashboard, and check the box next to **Set As Baseline**:



If an incorrect baseline is selected, simply select the correct measurement and set as baseline.

For a given HF-Dex score, an optimal baseline is typically taken when the patient, in a clinician's estimation, is appropriately euvolemic. It may take some time to establish an appropriate baseline measurement for the patient.

10.3.5 Historical Results

The results screen will also display the patient's HF-Dex, TBW, ICF, ECF scores as well as weight on history graphs. The HF-Dex history will also overlay the same ranges (Blue-Gray) used in the HF-Dex measurement result.

10.4 BodyComp™ Analysis Instructions for Use

All warnings, contraindications and precautions apply.

10.4.1 Indications for Use

When using the SOZO Device's BodyComp™ Analysis assessment modules for body composition measurements, the following indications for use applies:

The SOZO system may be used to estimate the following body composition parameters in humans to track clinically relevant body composition parameters over time:

- Fat Mass (FM)
- Fat-free Mass (FFM)
- Total Body Water (TBW)
- Intracellular Fluid (ICF)
- Skeletal Muscle Mass (SMM)

The following outputs are also presented:

- Body Mass Index (BMI)
- Basal Metabolic Rate (BMR; based on Mifflin – St. Jeor's algorithm) displayed in kcal (calories per day)

- Protein and mineral (also known as ‘dry lean mass’) represents the content of a body that is not fat or fluid; calculated by subtracting total body water weight from fat-free mass weight.
- Active Tissue Mass (ATM)
- Extracellular Mass (ECM)

Additionally, the SOZO device provides a Hydration Index (Hy-Dex®) Analysis, an estimation of the patient’s hydration level compared to normal population data, as an indicator of hydration level. The Hy-Dex Analysis is only intended for use with healthy individuals and should not be used to monitor or treat any disease.

10.4.2 BodyComp™ Assessment Results (Whole Body)

At the conclusion of a measurement, the BodyComp™ Analysis module will present a screen containing a wide range of body composition information in the preferred units of measure (defined in the settings section).

10.4.2.1 Total Body Water (TBW)

All the water within a person’s body, including both intracellular and extracellular fluid. This is expressed as a volume (litres or pints) or a percentage of total mass (e.g., 60% of mass is TBW). Reference ranges for TBW are based on internal ImpediMed data.

10.4.2.2 Extracellular Fluid (ECF)

All the fluid that is not contained within the cells. ECF is usually expressed as a volume (litres or pints) and as a percentage of TBW. Reference ranges for ECF are based on internal ImpediMed data.

10.4.2.3 Intracellular Fluid (ICF)

All the fluid that is contained within the cell membranes of the body. ICF is usually expressed as a volume (litres or pints) and as a percentage of TBW. Reference ranges for ICF are based on internal ImpediMed data.

10.4.2.4 ECF & ICF Distribution

The ratio of ECF and ICF, expressed as a percentage each of TBW (e.g., ICF 60% and ECF 40%). Changes in the ratio, particularly increases in ECF compared to previous ECF & ECF ratios, can be indicative of disease, malnutrition, inflammation, etc.

10.4.2.5 Hydration Index (Hy-Dex®)

Hydration Index represents fluid status compared to a healthy population dataset. Impedance outputs are matched to data using age, gender, height and weight. A positive number is indicative of person with positive hydration, and a negative number is indicative of a person that is less hydrated.

*Hy-Dex (Hydration Index) is for healthy people only.

10.4.2.6 Skeletal Muscle Mass (SMM)

This includes all muscle mass that mechanically acts on bones to create movement. It does not include cardiac or smooth muscle. Expressed as mass (kg or lb). Reference ranges for SMM were established based on data presented in Janssen (2000)⁶.

10.4.2.7 Fat Mass (FM)

The amount of mass a person has that is made up of fat. FM is typically measured in kilograms (kg) or pounds (lb) and is also expressed as a percentage of total mass (e.g., 24% body fat). Reference ranges for FM are based on modified ranges established by the American College of Sports Medicine 2017 “ACSM’s Health-Related Physical Fitness Assessment”.

10.4.2.8 Fat-Free Mass (FFM)

The amount of mass a person has that contains no fat. FFM includes bone, organs, body water, and the lean soft tissue elements of as muscle and connective tissue. FFM is typically measured in mass (kg or lb) or expressed as a percentage of total mass (e.g., 60% fat free mass). In the segmental measurement assessment, the lean soft tissue elements alone are presented.

10.4.2.9 Protein and Minerals

The human body utilises proteins and minerals as “building blocks”. Protein and minerals can be thought of as Fat-Free Mass minus total body water, or “dry-lean mass.” This is expressed as a weight (kg or lb) and a percentage of total mass.

NOTE: This estimate may not factor in 1-2% of an individual’s total body weight, comprised of carbohydrates.

10.4.2.10 Active Tissue Mass (ATM)

This includes all metabolically active tissues in the body. Also, sometimes referred to as “Body Cell Mass” (BCM). These tissues include muscle, organs, and nervous tissue. This is expressed as a mass (kg or lb) and as a percentage of total mass.

10.4.2.11 Extracellular Mass (ECM)

This includes all metabolically inactive tissues in the body (e.g. bone, blood plasma). This is expressed as a mass (kg or lb) and a percentage of total mass. Active Tissue Mass.

⁶ Janssen I *et al*, “Skeletal muscle mass and distribution in 468 men and women aged 18-88 yr.” J Appl Physiol 89:81-88.

10.4.2.12 Phase Angle

The arctangent of reactance divided by resistance at 50 kHz frequency. Plotted as a vector and is presented on a scale from 0-10 and is expressed as a degree. (e.g., 8.5°). Reference ranges for Phase Angle were established based on data presented in Bosy-Westphal (2006)⁷.

10.4.2.13 Waist-Hip Ratio

Waist-Hip Ratio (WHR) can help to inform about a patient's concentration of abdominal fat. Waist circumference and hip circumference is entered into the MySOZO software via previous measured data. SOZO does not measure either patient hip or waist values. MySOZO only calculates the ratio once the waist circumference and hip circumference are entered into the software.

10.4.2.14 Basal Metabolic Rate (BMR)

Amount of energy used by a person's body when at rest. ImpediMed uses the Mifflin-St. Jeor equation to calculate BMR. Expressed in calories per day.

10.4.2.15 Reference Ranges

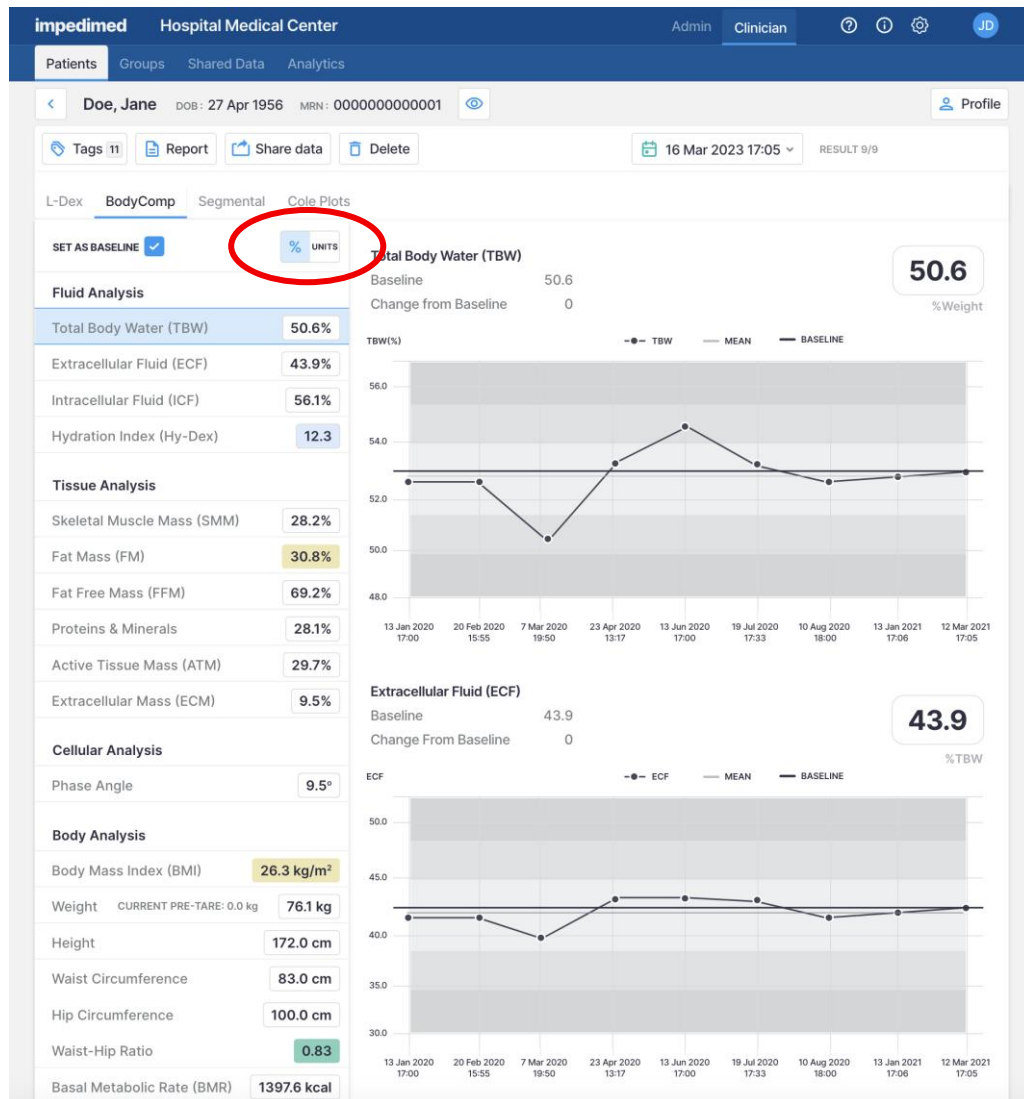
When reviewing patient data, the following measurement outputs provide additional reference information against which the current results can be compared:

- Total Body Water, expressed as a %
- Extracellular Fluid, expressed as a %
- Intracellular Fluid, expressed as a %
- Fat Mass, expressed as a %
- Hy-Dex
- Skeletal Muscle Mass
- BMI
- Phase Angle
- Waist-Hip Ratio

⁷ Bosy-Westphal A *et al*, "Patterns of bioelectrical impedance vector distribution by body mass index and age: implications for body-composition analysis" Am J Clin Nutr 2005;82:1358.

10.4.2.16 Example of Whole-Body BodyComp™ Results

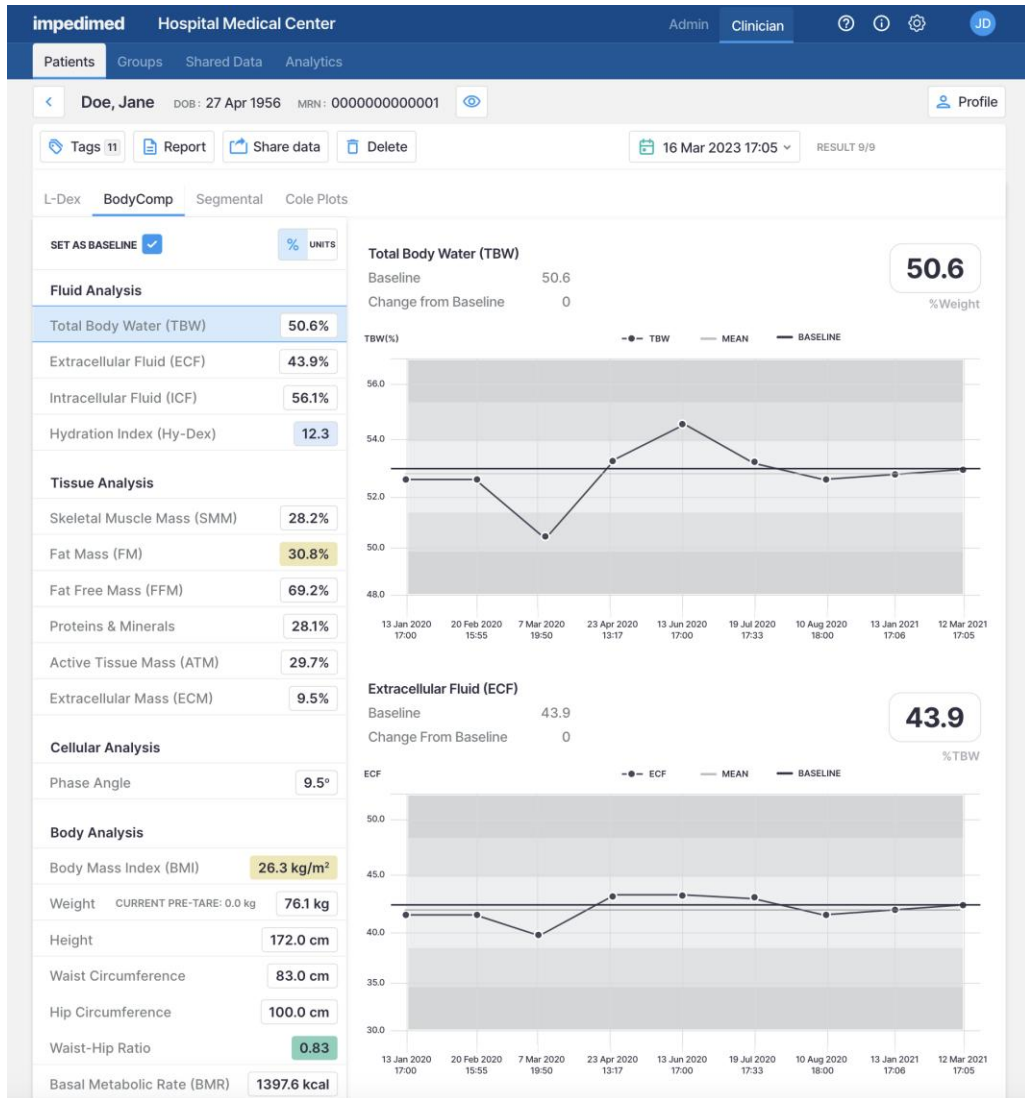
You can toggle between percentage and units of measurement.



NOTE: All SOZO volume results are calculated using full precision of the impedance information and then rounded to one decimal place for display. As such, when results are small, minor differences between absolute numbers and percentages may be observed.

10.4.3 Setting the Baseline

Selection of a baseline – a “normal score” for an individual patient – is the optimal way to track changes over time. To set a baseline, select the most appropriate measurement by date from the patient’s dashboard, and check the box next to **Set As Baseline**:



If an incorrect baseline is selected, simply select the correct measurement and set as baseline.

For a given body composition output, an optimal baseline is typically taken when the patient, in a clinician’s estimation, is in suitable good health. It may take some time to establish an appropriate baseline measurement for your patient.

10.5 Segmental BodyComp™ Assessment Parameters (Limbs)

If the clinic has licenced the SOZO segmental body composition assessment and the patient has been selected to have segmental results presented, a subset of SOZO BodyComp™ outputs can also be tracked for individual limbs in the same patient.

The following body composition outputs are presented for segmental analysis:

- Total Body Water (TBW)
- Extracellular Fluid (ECF)
- Intracellular Fluid (ICF)
- ECF and ICF distribution (expressed as a percentage of total body water for the limb)
- Skeletal Muscle Mass (SMM)

- Lean Soft Tissue (a subset of Fat-Free Mass)
- Phase Angle

NOTE: Reference ranges are not available for individual body segments.

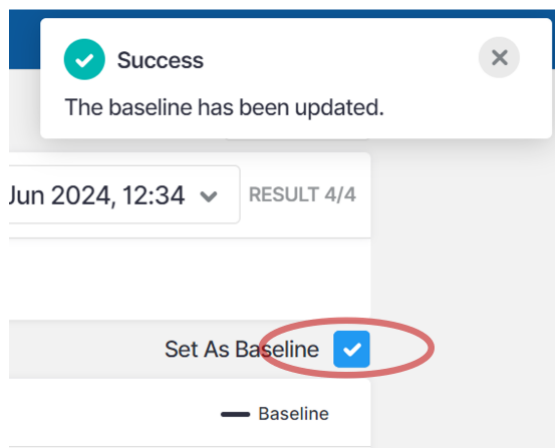
10.5.1 Example of Segmental BodyComp™ Results

Left Arm			Right Arm		
	CURRENT	CHANGE FROM BASELINE		CURRENT	CHANGE FROM BASELINE
Total Body Water	2.2(L)	0.0(L)	Total Body Water	2.3(L)	0.0(L)
Extracellular Fluid	1.0(L), 43.7(%TBW)	0.0(L)	Extracellular Fluid	1.0(L), 43.2(%TBW)	0.1(L)
Intracellular Fluid	1.2(L), 56.3(%TBW)	0.0(L)	Intracellular Fluid	1.3(L), 56.8(%TBW)	0.0(L)
Skeletal Muscle Mass	6.0(kg)	0.1(kg)	Skeletal Muscle Mass	7.0(kg)	0.2(kg)
Lean Soft Tissue	3.3(kg)	0.2(kg)	Lean Soft Tissue	3.8(kg)	0.3(kg)
Phase Angle	6.3°	0.0°	Phase Angle	6.3°	0.0°

Left Leg			Right Leg		
	CURRENT	CHANGE FROM BASELINE		CURRENT	CHANGE FROM BASELINE
Total Body Water	7.6(L)	0.0(L)	Total Body Water	8.0(L)	0.0(L)
Extracellular Fluid	3.3(L), 44.0(%TBW)	1.0(L)	Extracellular Fluid	3.3(L), 41.8(%TBW)	0.2(L)
Intracellular Fluid	4.3(L), 56.0(%TBW)	0.0(L)	Intracellular Fluid	4.7(L), 58.2(%TBW)	0.0(L)
Skeletal Muscle Mass	7.5(kg)	2.0(kg)	Skeletal Muscle Mass	8.5(kg)	0.4(kg)
Lean Soft Tissue	14.3(kg)	1.0(kg)	Lean Soft Tissue	14.5(kg)	0.3(kg)
Phase Angle	7.6°	0.0°	Phase Angle	8.0°	0.0°

10.5.2 Setting a Baseline

Selection of a baseline – a “normal score” for an individual patient – is the optimal way to track changes over time. To set a baseline, select the most appropriate measurement by date from the patient’s dashboard, and check the box next to **Set As Baseline**:



For segmental measurements, each limb may have its own baseline set.

If an incorrect baseline is selected, simply select the correct measurement and set as baseline. For segmental measurements, separate baselines can be made for each limb.

For a given body composition output, an optimal baseline is typically taken when the patient, in a clinician's estimation, is in suitable good health. It may take some time to establish an appropriate baseline measurement for the patient.

10.6 ESRD Instructions for Use

All warnings, contraindications and precautions apply. In addition, consider the following when using SOZO Pro to take ESRD measurements on a patient:

In order to use the ESRD module, the clinic will require a licence for the module. The patient will additionally need to have the module selected in their profile. After doing so, ESRD module results will be presented after every measurement.



Measurement quality is important. Specifically, the patient's Right Whole-Body measurement will need to be of a medium or high quality. If a patient's Right Whole-Body Cole plot was assessed to be low quality ("red"), the measurement should be retaken. If a low-quality measurement is accepted, ESRD outputs will not be presented. The following error message will instead be displayed.



This result cannot be provided due to low measurement quality "red". For this measurement to be shown, the Right Whole Body Cole Plot (found in the Cole plot review screen after the measurement) must be medium quality "yellow" or high quality "green".

10.6.1 Pre- and Post-Dialysis Setting

The ESRD module incorporates a tool to allow the user to track whether a given measurement was taken immediately prior to or immediately after a dialysis treatment. If the SOZO assessment is taken independent of a dialysis treatment session, 'other' may be selected.

The choice of dialysis status must be made prior to starting a measurement, in a screen similar to the following:

10.6.2 Indications for Use

The ESRD Assessment is intended for patients:

- Taking diuretic medication
- Living with end-stage renal disease

This device is indicated for use, under the direction of a physician, for the non-invasive monitoring of patients with fluid management problems. Data from the device should be considered in conjunction with other clinical data.

10.6.3 ESRD Assessment Results

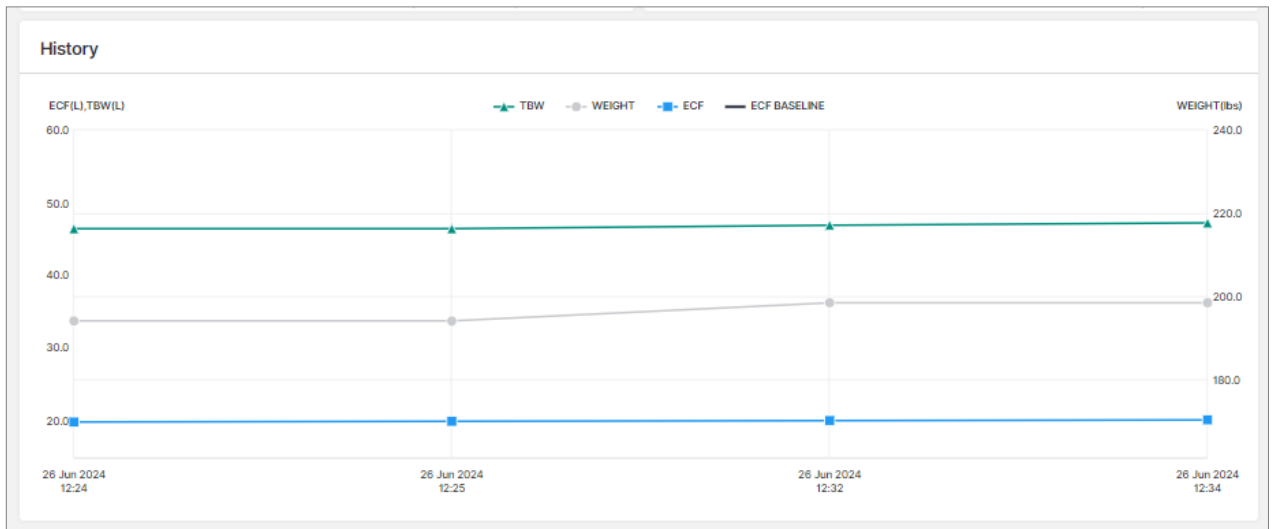
The ESRD module is a tool to assist in the clinical assessment of fluid status in a patient living with end stage renal disease, by a medical provider. The results screen will display the following outputs:

- Total Body Water (TBW)
- TBW as a % of weight
- Extracellular Fluid (ECF)
- ECF as a % of TBW
- Intracellular Fluid (ICF)
- ICF as a % of TBW
- Weight history

The screenshot displays the ESRD Assessment Results for patient Jane Doe. The interface includes a navigation bar with 'Admin' and 'Clinician' options, and a patient profile section with 'Tags 11', 'Report', 'Share data', and 'Delete' buttons. The main content area shows 'DIALYSIS STATUS: Post Dialysis' and 'Set ECF Baseline 16.9 (L)'. The results are organized into four tables:

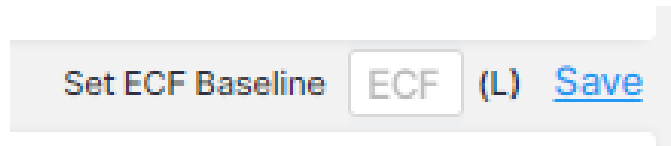
Extracellular Fluid (ECF)			Total Body Water (TBW)		
	LITERS	% TBW		LITERS	% WEIGHT
Current	16.9	43.9	Current	38.5	50.6
Change From Previous	0.2	-0.1	Change From Previous	0.6	0.0
Baseline	16.9	-			
Change From Baseline	0.0	-			

Intracellular Fluid (ICF)			Weight	
	LITERS	% TBW	CURRENT PRE-TARE: 2.0	kg
Current	21.6	56.1	Current	76.1
Change From Previous	0.4	0.1	Change From Previous	1.3



10.6.4 Setting the Baseline

Selection of a baseline – a “normal score” for an individual patient – is the optimal way to track changes over time. To set a baseline, enter the target ECF and select **Save**.



If an incorrect baseline is saved, simply clear the text box and select **Save** again.

For a given ESRD output, an optimal baseline is typically taken when the patient, in a clinician’s estimation, is in suitable good health. It may take some time to establish an appropriate baseline measurement for the patient.

10.6.5 Recommended Measurement Frequency for ESRD

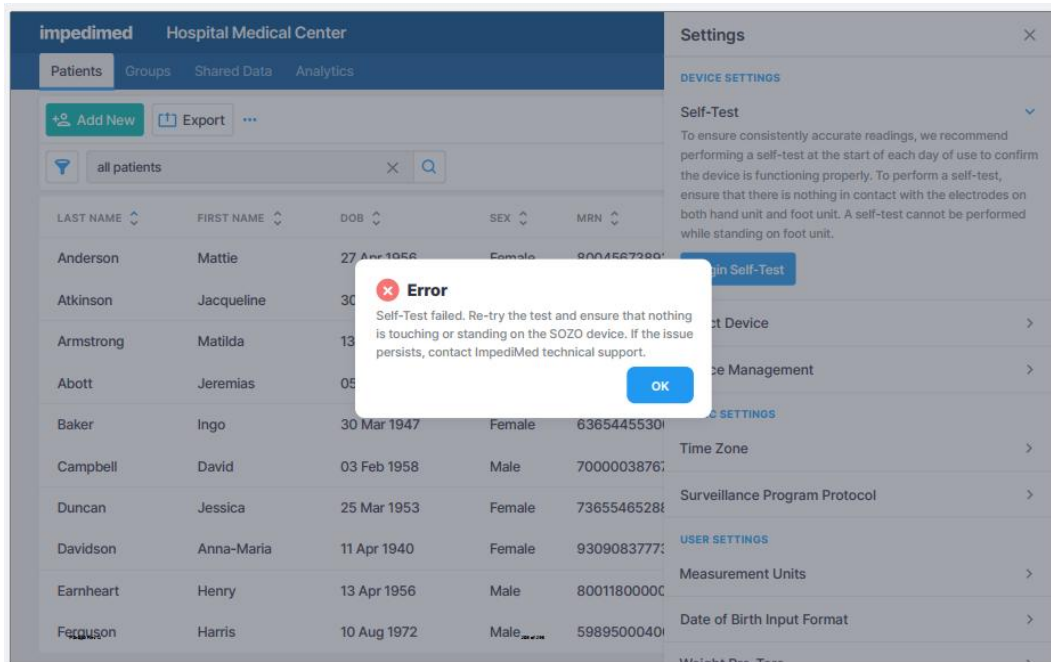
Measurement frequency should be based on clinical evaluation of the patient’s monitoring needs. Daily, weekly or monthly measurements may be appropriate using your best clinical judgment.

11 TROUBLESHOOTING

Below are troubleshooting tips for error messages which may appear in MySOZO or the SOZOapp. This is not a complete list of all possible error messages. For a detailed list of troubleshooting issues in the SOZOapp and MySOZO, see [11.5, General Troubleshooting Chart](#).

11.1 Self-Test Error

The **“Self-test failed.”** error message may appear after running a self-test or patient measurement from the SOZOapp.



Try the below actions to resolve this issue:

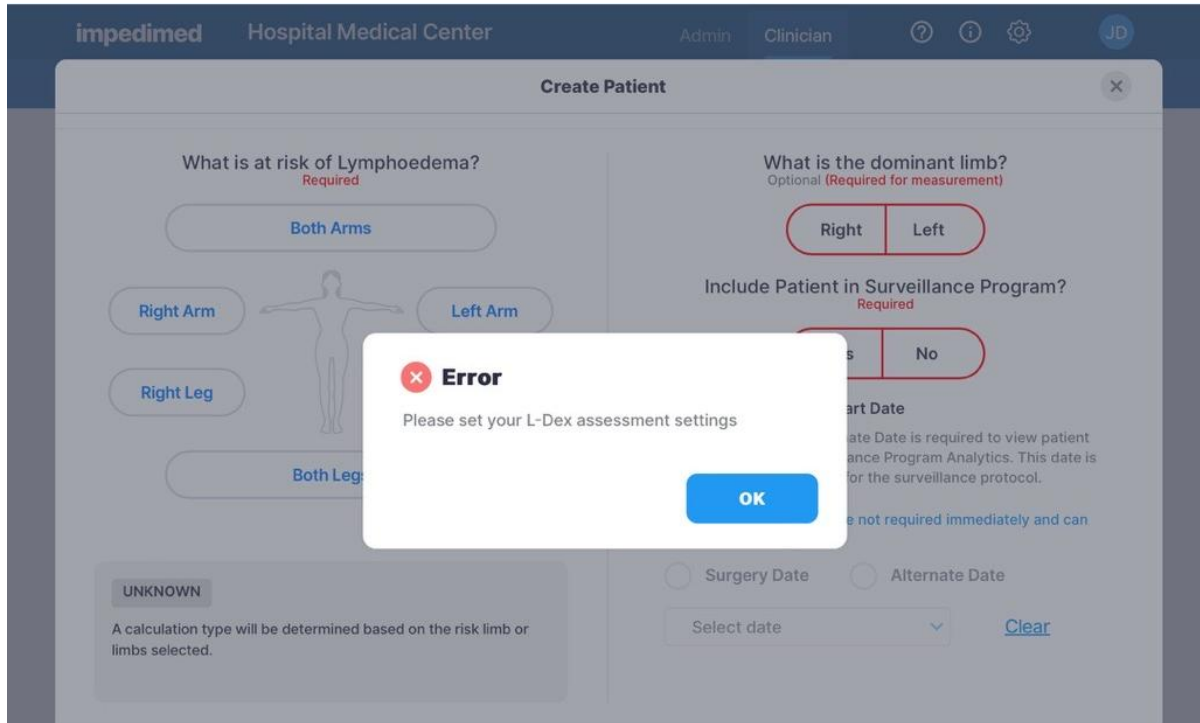
1. Ensure that nothing is touching the SOZO Device during the Self-Test.
2. Reset the Bluetooth® button on the back of SOZOtouch by pressing it for 3 seconds.
3. Unplug the SOZO Device from the wall outlet for 10 seconds and plug it back in.

Re-run the self-test function.

11.2 Lymphoedema Settings Error

Editing Lymphoedema Settings on the patient profile in either MySOZO or the SOZOapp may trigger an error message similar to the message below.

“Please set your L-Dex assessment settings.”

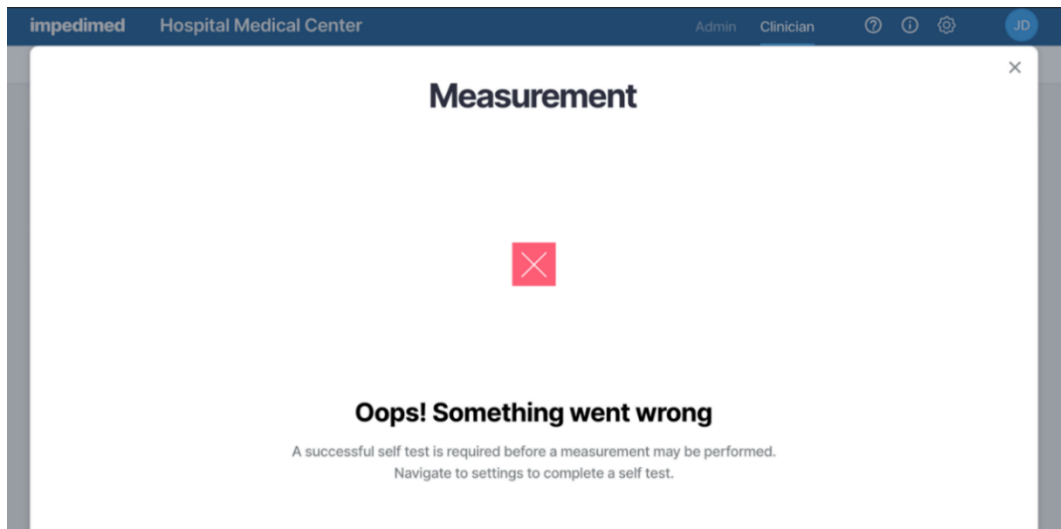


Follow the below actions to resolve this issue:

1. Under “What is at risk of Lymphoedema?”, select the option that applies: Both Arms, Right Arm, Left Arm, Right Leg, Left Leg, Both Legs.
2. Under “What is the dominant limb?”, select Right or Left.
3. Under “Include Patient in Surveillance Program?”, select Yes or No.
4. Select Save. A success confirmation will appear in the top right corner.

11.3 Patient Dashboard Error

After starting a measurement, an error message may appear on the Patient Dashboard.



Follow the actions below to resolve this issue:

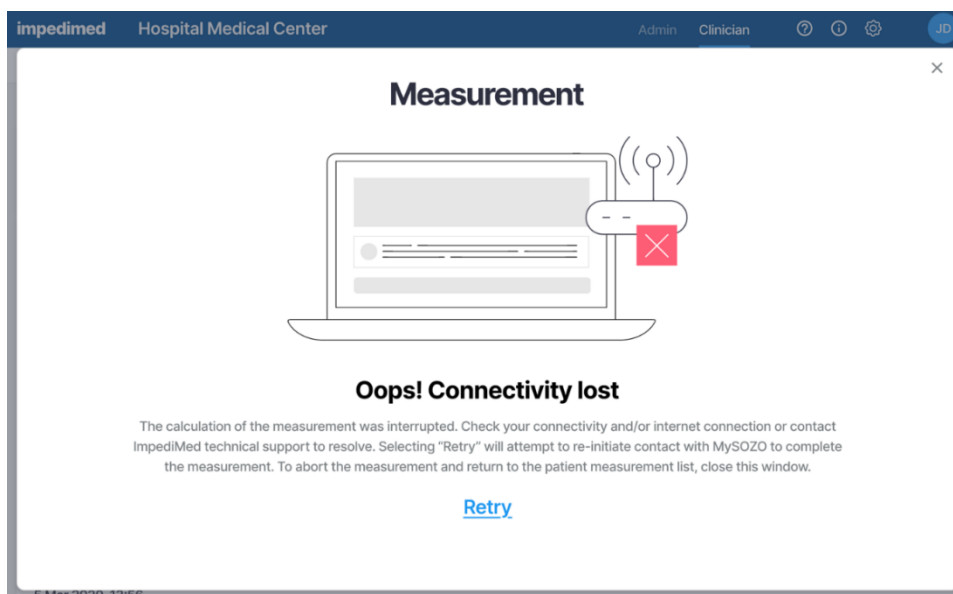
- Ensure that nothing is touching the SOZO Device.
- Select the **Settings** icon.
- Select **Self-Test** to run the self-test.

If the Self-Test fails, the actions below may resolve device issues:

- Unplug the SOZO Device from the wall outlet and then plug it back in.
- Re-run the self-test function.

11.4 Connectivity Error

If internet connectivity is lost while the measurement is in progress, an error message appears.



Follow the below actions to resolve this issue:

1. Ensure that there is a stable Wi-Fi connection and that there is no other high EMI emitting device near the Tablet.
2. To reconnect, select **Retry**.
3. If this does not establish connectivity, select **Back to dashboard** to end the measurement.

11.5 General Troubleshooting Chart

The General Troubleshooting chart provides guidance for common issues and error messages. In the event that you need additional help, call +61 7 3860 3700 option 2, ImpediMed Technical Support, or you may email ImpediMed at ts@impedimed.com or visit <https://www.impedimed.com>.

General Troubleshooting		
Issue/Error message	Potential Cause	Resolution
Form fields have character limits and entry requirements. Various error messages can occur if these field requirements are not met.	User has completed a form field that does not meet minimum/maximum/character type requirements	Enter data in mandatory fields according to requirements described in error message.
SOZO hardware does not emit audible clicks when powering on; LED at back of unit is not emitting a blue light.	Power cord not properly connected or potential hardware failure.	Confirm power cord is properly connected. If cord is correctly inserted, contact ImpediMed Technical Support.
Self-test fails.	Person/object making contact with electrodes during self-test.	Ensure that the cable is securely connected to the device. Try a different power source. Ensure that no extraneous objects are in contact with electrodes during self-test; re-run self-test.
L-Dex; HF-Dex, Body Composition, Segmental, tab is missing from the history or results.	The assessment type is not chosen, or licence is not available.	Check the assessment types chosen for the patient and adjust accordingly. Check available licences and contact ImpediMed Technical Support if unable to resolve.
No SOZO Devices are selectable even after device is paired via Bluetooth.	Device is not licenced.	Check licence status. Contact ImpediMed Technical Support if licence status is incorrect.

Signing in to SOZOapp / MySOZO		
Issue/Error message	Potential Cause	Resolution
"Empty fields. Please enter your username and your password to continue."	User has attempted to sign in leaving either username or password blank.	Verify username and password are entered properly.
"Password must be between 8 and 20 characters containing at least: 1. One number 2. One special character !"#\$%&'()*+,-./:;<=>?_@[]^`{ }~ 3. One upper case letter 4. One lower case letter" 5. You cannot use your last 3 passwords."	Password does not meet requirements.	Create password using the listed requirements
"Incorrect credential combination. Please check your information and try again."	Incorrect or forgotten username/password.	Verify credentials. If error continues, change password using the Forgot password link at mysozo.com. Enter the email address and an email will be sent to reset the password.
"There is a connectivity problem. Check your internet connection or contact ImpediMed Technical Support."	No connection – Tablet Wi-Fi may be turned off or disconnected from Wi-Fi network, a firewall may be blocking the connection, there may be poor Wi-Fi coverage in the area.	Check Tablet settings to ensure that the Tablet is connected to local Wi-Fi network. Otherwise call ImpediMed Technical Support.
"There is a new version of SOZOapp available. You are required to download and update it to continue using MySOZO. To continue, select Yes".	Signing in to SOZOapp with previous app version after MySOZO has been updated.	On the Tablet select Yes and follow prompts to automatically update SOZOapp to latest version. If updates are blocked due to a mobile device manager or other software, contact ImpediMed Technical support for the latest version of the SOZOapp.

Use of SOZOapp / MySOZO (Clinician)		
Issue/Error Message	Potential Cause	Resolution
"There are no results matching your search criteria"	Search terms do not identify any patients or clinicians.	Revise search terms.
"Either your connection might have timed out, or you need to contact the support team."	No connection – Tablet Wi-Fi may be turned off or disconnected from Wi-Fi network; a firewall may be blocking the connection.	Check Tablet settings to ensure that the Tablet is connected to local Wi-Fi network. If Tablet is connected, contact your IT admin; otherwise call ImpediMed Technical Support.
"For security reasons your session has expired" or you have been logged out and see the login page.	User will be signed out automatically based on initial signed in. The sign out time is set by the Clinic administrator.	Sign back in with username and password.
"Measurement not started. Electrode check failed"	SOZO hardware verifies that electrodes are connected correctly before taking a measurement. Ensure that correct patient contact is made for all eight electrodes. If any physical damage has occurred to hardware electrode check may also fail.	Power the SOZO Device off and on, ensure correct patient contact and repeat measurement. If error persists, contact ImpediMed Technical Support.
"There is a connectivity problem. Check your internet connection or contact ImpediMed Technical Support."	Error in sending data from SOZO hardware/Tablet to MySOZO.com. Potential issue with disruption of Wi-Fi signal.	Take another measurement. Move location of SOZO Device if it is in an area with other equipment that emits electromagnetic signals. Check the Wi-Fi signal near the Tablet and troubleshoot as appropriate. If error persists, contact ImpediMed Technical Support.
"Measurement wasn't valid. Please try a new measurement."	Patient is not contacting electrodes cleanly with bare hands/feet; patient preparation steps were not followed.	Ensure that all patient preparation steps have been followed and attempt another measurement. If error persists, contact ImpediMed Technical Support.
"A user with this first name, last name, and date of birth already exists"	When creating new patient, a patient already exists with this combination of first & last names, and DOB	Review existing patient to ensure unnecessary duplication of patient profiles.

<p>“Device not found. Please check your selected device”</p>	<p>SOZOapp is not currently paired to a nearby SOZO Device</p>	<p>Verify that the SOZO Device chosen is available via Bluetooth by going to Settings > Select and Pair Device.</p> <p>If device is selected and error has occurred, ensure that the serial numbers match (if multiple units at your Clinic).</p> <p>If using the Android app, ensure that the Bluetooth name of the device chosen does not start with “IOS”. If it does, unpair the device and select the device with the same serial number that does not begin with “IOS”.</p> <p>Verify SOZO Device is powered on by pushing the clear Bluetooth® button on the back of SOZOtouch for 3 seconds, it should illuminate blue.</p> <p>Turn off and restart the Tablet and the SOZO Device.</p> <p>If error persists, contact ImpediMed Technical Support</p>
<p>“Possible device connection problem” or “There is a Bluetooth connection problem...” or “Pairing failed, Please try again”</p>	<p>Tablet Bluetooth has been turned off or SOZO Device Bluetooth has malfunctioned.</p>	<p>Confirm Tablet Bluetooth is turned on, that the proper SOZO Device is selected, and that the Tablet is within range to allow a Bluetooth connection.</p> <p>Turn off and restart the Tablet and the SOZO Device. Verify SOZO Device is powered on by pushing the clear Bluetooth® button on the back of SOZOtouch for 3 seconds, it should illuminate blue.</p> <p>If using the Android app, ensure that the Bluetooth name of the device chosen does not start with “IOS”. If it does, unpair the device and select the device with the same serial number that does not begin with “IOS”.</p> <p>If Bluetooth is enabled on the Tablet, and SOZO system otherwise appears to be functioning correctly, please call ImpediMed Technical Support.</p>
<p>“Self-test unknown error”</p>	<p>Internal error in running self-test; potential hardware failure or firmware/software incompatibility.</p>	<p>Contact ImpediMed Technical Support</p>
<p>“Self-test failed”</p>	<p>User attempts to run self-test but either device has hardware issue or contact is made with electrodes.</p>	<p>Verify that nothing is touching the electrodes and repeat self-test. If error persists, contact ImpediMed Technical Support.</p>
<p>“Status retrieved. Please run a self-test and try again.”.</p>	<p>Unit has not recently run a self-test.</p>	<p>Run a self-test per the instructions for use.</p>
<p>No error message, but Clinician notes that patient historical measurement data looks different compared with last review</p>	<p>Patient details have been changed and the measurement results have been recalculated.</p>	<p>Check the patient settings to ensure that they are correct.</p> <p>Height, age, and L-Dex settings must match historical measurement records to have the same measurement results.</p>
<p>“Something Went Wrong. The Tablet encountered an error in communication with the SOZO Device. Please check that the</p>	<p>The Tablet has lost Bluetooth connection with the SOZO Device.</p>	<p>Remove the cable from the power supply and plug it in again.</p> <p>Make sure the cable is securely connected to the device.</p>

<p>correct SOZO Device has been paired and selected in the settings, the SOZO Device is powered on and is located near the Tablet, and minimise any potential interference from other wireless devices. If the issue persists, try again and contact ImpediMed technical support.”</p>		<p>Confirm Tablet Bluetooth is turned on, that the proper SOZO Device is selected, and that the Tablet is within range to allow a Bluetooth connection.</p> <p>Turn off and restart the Tablet and the SOZO Device. Verify SOZO Device is powered on by pushing the clear Bluetooth® button on the back of SOZOtouch for 3 seconds, it should illuminate blue.</p> <p>If using the Android app, ensure that the Bluetooth name of the device chosen does not start with “IOS”. If it does, unpair the device and select the device with the same serial number that does not begin with “IOS”.</p> <p>If Bluetooth is enabled on the Tablet, and SOZO system otherwise appears to be functioning correctly, please call ImpediMed Technical Support.</p>
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Administrator Interfacing with SOZO System

Issue/Error Message	Potential Cause	Resolution
“The email entered already exists for another clinician or administrator. The email used must be unique.”	When creating a new clinician, the selected email address is identical to an existing username/email.	Check the deleted users to see if the email was already used and restore the user. If no deleted user is found, use a different email. If a different email is not possible, contact ImpediMed Technical Support to determine where that email may already be in use.
“Your passwords do not match. Please re-enter them”.	During user password creation, a different password was entered in the confirmation box.	Verify and re-enter passwords.
“Firmware update unknown error”	Unknown error has occurred during SOZO firmware update.	Please contact ImpediMed Technical Support.
“Firmware update failed”	Update procedure failed.	Attempt to update firmware. If failure persists, please contact ImpediMed Technical Support.
Password doesn't work.	Password forgotten.	Review MySOZO set up for instructions on resetting password.

12 CARE AND MAINTENANCE

12.1 SOZO Device Care

When not in use, the SOZO Device may remain set up and does not need to be unplugged. If storage is desired, always keep the SOZO Device in its original packaging.

The external surface of the SOZO Device should be cleaned between each use with non-bleach-based disinfecting agents or as per your Clinic's policy. ImpediMed does not recommend the use of bleaching agents to clean/disinfect the SOZO Device as that may cause corrosion of the electrodes. The external enclosure of the SOZO Device may be cleaned with disinfecting agents such as isopropyl alcohol 70% or Peridox® Concentrate Sporicidal Disinfectant and Cleaner for devices that do not display the following label "Germicide Compatible".



SOZO Devices with the "Germicide Compatible" label located on the right side of SOZOtouch may also be cleaned with the following:

- Cavicide Liquid
- Cavicide 1 Liquid
- Cavicide 3 Liquid
- Caviwipes 1, Caviwipes XL
- Caviwipes 3, Caviwipes XL
- Clinell Universal Spray
- Clinell Universal Wipes
- Medizar Wipes
- Oxivir Wipes
- Sani-Cloth Prime
- Super Sani Cloth
- Super Sani Cloth Prime Wipes
- Sani Prime Liquid

SOZO Devices with the "Germicide Compatible" label located on the right side of SOZOtouch may also be used with Electrode Spray:

- Signa Spray electrode solution prep from Parker Labs

The Tablet may require cleaning and disinfection as well. For the Tablet provided with the SOZO Device, ImpediMed recommends the use of protective disposable Tablet sleeves, to be used and replaced as per your Clinic's policy. The use of a protective sleeve prevents the need to use potentially damaging chemicals on the Tablet itself.



The SOZO Device should not be subjected to ingress of liquid or liquid spillage, impact or excessive heat (direct exposure to sunlight). This can harm the patient, cause damage to the SOZO Device, or give an incorrect reading. The SOZO Device should be used in a dry environment.

Contact ImpediMed or an authorised agent for repair.



Do not attempt to sterilise any component or accessory of the SOZO Device.

12.2 SOZO Device Maintenance

The SOZO Device does not require any periodic or preventive maintenance other than cleaning and/or disinfecting, in accordance with the instructions in [12.1, Device Care](#), above. The SOZO Device does not require any periodic calibration.

12.3 Self-Test

To ensure that the SOZO system is operating correctly, run a self-test from the SOZOapp settings menu. ImpediMed recommends that the self-test be performed at the start of the day on which measurements of the patient will be taken.

12.4 Repairs

There are no user-repairable electronic parts within the SOZO Device. Contact ImpediMed or an authorised agent should service or repair of the SOZO Device be required. Do not attempt to use the SOZO Device if it does not appear to be functioning correctly or needs repair.

12.5 Tablet Maintenance

The Tablet is shipped partially charged. Please follow the manufacturer's instructions for use supplied with the Tablet for the longevity of the Tablet.

12.6 Technical Support

Website: <https://www.impedimed.com/support/>

Asia Pacific Technical Support
+61 7 3860 3700, option 2
ts@impedimed.com

Europe, Middle East and Africa
+30 231-111-6753
tse@impedimed.com

Americas Technical Support
877-247-0111, option 4
760-585-2125
tsu@impedimed.com

12.7 Components and Accessories

The following components and accessories are available for separate purchase. Please contact ImpediMed or an authorised agent to purchase replacement parts.

- SOZOsupport Stand
- SOZOconnect Cable
- Power Adaptor
- Tablet

13 PRODUCT WARRANTY

ImpediMed warrants to the purchaser that in the event of product failure under normal use, due to defects in material or workmanship within the specified period(s) listed below, the device and accessories will be repaired, or at **ImpediMed's** option, replaced. The device and accessories are to be returned to **ImpediMed**, accompanied by proof of purchase, your name, your return address and a statement of the defect. This limited warranty does not apply to products subjected to abnormal use or damaged by accident, misuse, improper voltage, or to products altered or served by anyone other than **ImpediMed** or its authorised agents.

The foregoing limited warranty is exclusive and in lieu of all other warranties whether written, oral, expressed or implied. In particular, **ImpediMed** does not warrant that the product is suitable for the needs of the purchaser, and there are no warranties given as to its fitness for a particular purpose.

ImpediMed's representations concerning fitness for purpose or suitability for use by any purchaser do not extend beyond those representations set out in **ImpediMed** literature that may accompany the product.

Depending upon the area of distribution, the following warranty periods will apply:

Australia: **ImpediMed** warrants its devices to be free from defects for a period of twelve months from the date of purchase.

Europe: **ImpediMed** warrants its devices to be free from defects for a period of twenty-four months from the date of purchase.

After the warranty period has expired the device will be repaired at current charge rates for parts, labour and transport. Before returning a product for repair, please contact **ImpediMed** or their authorised distributor for instructions.

In no event will **ImpediMed** be liable for any direct or indirect damages including incidental, consequential or special damages, arising out of or in connection with the use or performance of the product. **ImpediMed** reserves the right to change or discontinue this product without notice.

No representative of **ImpediMed** and no vendor or lessor of the product is authorised to change any of the foregoing terms and conditions, and the purchaser accepts the product subject to all terms and conditions herein, subject always to any contrary provisions which are necessarily implied by statute or law notwithstanding the within terms and conditions.

Consumables are excluded from the device warranty.

14 REGULATORY STATEMENT


FCC ID: QQQBT121

This device complies with Part 15 of the FCC Rules

Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

This device complies with the R&TTE Directive.

15 PRODUCT SPECIFICATIONS

Drive AC current	200 micro Amps RMS at a variable frequency of 3 kHz to 1000 kHz.
Frequency Scan	3 to 1000 kHz (256 frequencies) Scan speed: ~30 seconds to complete a full scan (Android), ~45 seconds (iOS).
Power Supply	24V DC, 1.0A
Dimensions	Assembled: 25.5 × 17.5 × 48.3 in / 64.8 × 44.5 × 122.6 cm (L × W × H) Hand Plate L=330mm, W=180mm, D=170mm Foot Plate L=450mm, W=320mm, D=40mm
Effective Radiated Power (BT Module)	-18 dBW
Weight	SOZO Device: 10.0 lb/4.5 kg SOZOsupport Stand: 25.5 lb/11.6 kg
Data Displayed	Cole resistance-reactance plot, other outputs dependent on measurement module.
Environmental transport, and storage conditions	- 25 °C without relative humidity control; and + 70 °C at a relative humidity up to 93%, non-condensing;
Environmental operating conditions	a temperature range of + 5 °C to + 40 °C a relative humidity range of 15% to 93%, non-condensing; and an atmospheric pressure range of 700 hpa to 1060 hpa.
Device (IEC 60601-1) electrical classification	Type BF 
Electromagnetic Compatibility	Meets the requirements of IEC 60601-1-2 and 60601-1-11.
Minimum service life of device and accessories	Minimum service life and associated warranty of parts and accessories is one year.

16 SAFETY INFORMATION

Guidance and manufacturer's declaration – electromagnetic emissions		
The SOZO Device is intended for use in the electromagnetic environment specified below. The customer or the user of the SOZO Device should assure that it is used in such an environment.		
Emissions test	Compliance	Electromagnetic environment – guidance
RF emissions CISPR 11	Group 1	The SOZO Device uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11	Class B	The SOZO Device is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
Harmonic emissions IEC 61000-3-2	Class A	
Voltage fluctuations / flicker emissions IEC 61000-3-3	Complies	

Guidance and Manufacturer's Declaration – Immunity			
The SOZO Device is intended for use in the electromagnetic environment specified below. The customer or the user of the SOZO Device should assure that it is used in such an environment.			
Immunity test	4 th Edition Test Levels	Compliance level	Electromagnetic environment – guidance
Electrostatic discharge (ESD) IEC 61000-4-2	±8kV Contact ±15kV Air	±8kV Contact ±15kV Air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30 %.
Electrical fast transient/burst IEC 61000-4-4	±2kV Mains ±1kV I/Os 100 kHz Repetition Freq	±2kV Mains ±1kV I/Os 100 kHz Repetition Freq	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	±1kV Differential ±2kV Common	±1kV Differential ±2kV Common	Mains power quality should be that of a typical commercial or hospital environment.

Immunity test	4 th Edition Test Levels	Compliance level	Electromagnetic environment – guidance
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<p>Voltage Dips/Dropout IEC 61000-4-11</p>	<p>>95% Dip for 0.5 Cycle</p> <p>60% Dip for 5 Cycles</p> <p>30% Dip for 25 Cycles</p> <p>>95% Dip for 5 Seconds</p> <p>-----</p> <p>0% Ur for 0.5 cycle @ 0, 45, 90, 135, 180, 225, 270 and 315 degrees.</p> <p>0% Ur for 1 cycle</p>	<p>>95% Dip for 0.5 Cycle</p> <p>60% Dip for 5 Cycles</p> <p>30% Dip for 25 Cycles</p> <p>>95% Dip for 5 Seconds</p> <p>-----</p> <p>0% Ur for 0.5 cycle @ 0, 45, 90, 135, 180, 225, 270 and 315 degrees.</p> <p>0% Ur for 1 cycle</p>	<p>Mains power quality should be that of a typical commercial or hospital environment. If the user of the SOZO Device requires continued operation during power mains interruptions, it is recommended that the SOZO Device be powered from an uninterruptible power supply or a battery.</p>
<p>Power frequency (50/60 Hz) magnetic field IEC 61000-4-8</p>	<p>30A/M 50 or 60 Hz</p>	<p>30A/M 50/60 Hz</p>	<p>Power frequency magnetic fields should be that of a typical commercial or hospital environment.</p>
<p>NOTE Ur is the AC mains voltage prior to application of the test level.</p>			

Guidance and Manufacturer's Declaration – Immunity

Test Frequency (MHz)	Band (MHz)	Service	Modulation	Maximum Power (W)	Distance (m)	Immunity Test Level (V/m)
385	380-390	TETRA 400	Pulse Modulation 18Hz	1.8	0.3	27
450	430-470	GMRS 460, FRS 460	FM ± 5 kHz deviation 1KHz sine	2	0.3	28
710	704-787	LTE Band 13, 17	Pulse Modulation 217 Hz	0.2	0.3	9
745						
780						
810	800-960	GSM 800/900, TETRA 800, iDEN 820, CDMA 850, LTE Band 5	Pulse Modulation 18 Hz	2	0.3	28
870						
930						
1 720	1700-1990	GSM 1800; CDMA 1900; GSM 1900; DECT; LTE Band 1,3,4,25; UMTS	Pulse Modulation 217Hz	2	0.3	28
1 845						
1 970						
2450	2400-2570	Bluetooth, WLAN, 802.11 b/g/n, RFID 2450, LTE Band 7	Pulse Modulation 217 Hz	2	0.3	28
5240				0.2	0.3	9

5500	5100-5800	WLAN 802.11 a/n	Pulse Modulation 217 Hz			
5785						

Recommended separation distances between portable and mobile RF communications equipment and the SOZO Device

The SOZO Device is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the SOZO Device can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the SOZO Device as recommended below, according to the maximum output power of the communications equipment.

Max Output Power (Watts)	Separation (m) 150kHz to 80MHz Non-ISM $D=(3.5/V1)(\text{Sqrt } P)$	Separation (m) 150kHz to 80MHz ISM $D=(12/V2)(\text{Sqrt } P)$	Separation (m) 80 to 800MHz $D=(12/E1)(\text{Sqrt } P)$	Separation (m) 800MHz to 2.7GHz $D=(23/E1)(\text{Sqrt } P)$
0.01	0.116667	0.12	0.12	0.23
0.1	0.368932	0.379473	0.379473	0.727324
1	1.166667	1.2	1.2	2.3
10	3.689324	3.794733	3.794733	7.273239
100	11.66667	12	12	23

17 GLOSSARY

Administrator - MySOZO User authorised to manage Clinician and Administrator accounts and perform SOZO system-wide administrative functions. The Administrator has exclusive authority to adjust certain SOZO system-wide settings through MySOZO.

Assessment - An assessment of measurements taken of the patient, which is an output of the SOZO system. Different types of Assessments are available to the ImpediMed customer and viewable on the SOZOapp and MySOZO, including L-Dex[®], HF-Dex[®], ESRD, BodyComp[™] and Segmental BodyComp[™] Analysis.

Assessment licence-ImpediMed grants a separate licence for each type of Assessment. Once an Assessment is licenced, the Clinic has access to that Assessment for all current and previous measurements. The availability of the Assessment licence is viewable in MySOZO and the SOZOapp.

At-risk limb - The limb at risk of developing lymphoedema.

Bilateral - A type of L-Dex Assessment for a patient who has both arms or both legs at risk of lymphoedema.

Bioimpedance - The measure of impedance of the human body to an alternating electric current.

Bioimpedance Spectroscopy - The technology used by the SOZO Device to accurately measure body water volumes of the patient, based upon bioimpedance parameters over a frequency range of 3 - 1000 kHz using 256 frequencies.

BIS - Bioimpedance Spectroscopy.

BMR - Basal Metabolic Rate. Basal Metabolic Rate is the amount of energy used by a person's body when at rest. ImpediMed uses the Mifflin-St. Jeor equation to calculate BMR. BMR is expressed in calories per day.

BodyComp[™] Assessment - The Assessment, also referred to as "Fluid and Tissue Analysis," performed by the SOZO Device of the body composition of the patient, designed to estimate various body composition parameters, including Total Body Water (TBW), Extracellular Fluid (ECF), Intracellular Fluid (ICF), Fat-free Mass (FFM) or Fat Mass (FM), Basal Metabolic Rate (BMR), Skeletal Muscle Mass (SMM), Phase Angle (Phi), Body Mass index (BMI), and the Hydration Index (Hy-Dex[®]) analysis.

Clinic - A customer of ImpediMed, such as a hospital or medical clinic, which uses the SOZO system.

Clinician - The primary User of the SOZO system, and an authorised User of MySOZO and the SOZOapp. The Clinician uses the SOZO Device to take and record measurements of patients; view and evaluate measurements and Assessments over time; and assess patient progress.

Cole plots - The SOZO measurement data is displayed in the form of a complex impedance plot, commonly called a Cole plot. The X axis is the resistance value, and the Y axis is the reactance value of the measurement at each of the 256 frequencies measured. Cole plots are reviewed when determining whether to accept or reject measurements. The SOZO software helps determine the quality of measurements as high, medium, or low quality.

Consumable - A hardware component of the SOZO Device which the ImpediMed customer uses recurrently, and which eventually wears out, gets used up or is discarded. For example, the Tablet sleeve is a consumable.

Contralateral limb - The limb located on the other side of the patient's body. For purposes of the L-Dex Assessment of a patient with unilateral lymphoedema, if the right arm is at-risk of lymphoedema, then the left arm is the contralateral limb.

Dominant limb - The limb which the patient uses the most. For example, for a right-handed patient, the right arm is the dominant limb.

ECF - Extracellular fluid. Extracellular fluid is all the fluid that is not contained within the cells. ECF is usually expressed as a volume (litres or pints).

Electrode Plates - See "Electrodes."

Electrodes - Stainless steel plate components of the SOZOtouch (where the patient places their hands), and of the SOZOstep (where the patient places their feet), which drive and sense electrical current for the performance of Bioimpedance Spectroscopy.

ESRD - End Stage Renal Disease.

FM - Fat Mass. Fat mass is the amount of mass a person has that is made up of fat. FM is typically measured in kilograms (kg) or pounds (lb) and is also expressed as a percentage of total mass (e.g., 24% body fat).

FFM - Fat-Free Mass. Fat Free Mass is the amount of mass a person has that contains no fat. FFM includes bone, muscle, connective tissue, organs, and body water. FFM is typically measured in mass (kg or lb) or expressed as a percentage of total mass (e.g., 60% fat free mass).

Hex Key - A tool which comes with the SOZO system for assembling the SOZOsupport Stand.

HF-Dex[®] - Heart Failure Index, a numeric value used in HF

HF-Dex[®] - Assessment— also referred to as 'HF-Dex'. The HF-Dex score is a tool to assist in the clinical assessment of fluid status on a patient with heart failure by a medical provider. The results screen will display the patient's HF-Dex score on a scale, as well as other fluid analysis outputs. The HF-Dex score is the patient's ECF/TBW %, compared to clinical data in the following manner.

Hy-Dex[®] - Hydration Index. A bi-directional "open-ended" scale that displays a person's fluid status as compared to a dataset from an average population. Can be used as a tool to assist a Clinician or user in assessing their fluid status or hydration.

ICF - Intracellular fluid. Intracellular fluid is all the fluid that is contained within the cell membranes of the body. ICF is usually expressed as a volume (litres or pints).

Ipsilateral limb - The limb on the same side of the patient's body. For purposes of L-Dex Assessment of a patient with bilateral leg lymphoedema, SOZO compares R0 impedance of the at-risk limbs with the R0 impedance of the unaffected ipsilateral limbs. For example, if the patient has bilateral lymphoedema in both legs, the left arm is the unaffected ipsilateral limb to the at-risk left leg, and the right arm is the unaffected ipsilateral limb to the at-risk right leg.

Impedance - The measure of the total opposition of a circuit or part of a circuit to an electrical current.

L-Dex[®] - The Lymphoedema Index, a numeric value used in L-Dex Assessment.

L-Dex Assessment - also referred to as “L-Dex,” based upon L-Dex values, derived from the ratio of impedance for the unaffected limb and the at-risk limb or the predicted impedance of the limbs in a healthy population, of the body fluid levels of patients at risk of lymphoedema, using certain patient measurements taken with the SOZO Device.

L-Dex score - The measurement parameter for the L-Dex Assessment.

Licensed Assessments-Assessments for which a Clinic has purchased a licence.

Measurements - Measurement data taken by the Clinician of the patient using the SOZO Device. Measurements are the inputs in the SOZO assessment process.

MySOZO - The central cloud-based hub for the SOZO system that computes, and stores assessments based on raw measurement data taken from the SOZO Device. Users may access MySOZO.com via the internet.

Parameter - A clinically meaningful output based upon measurements.

Product - The SOZO Device, including all hardware components of the SOZO Device, except for any hardware component which is a “Consumable.”

Patient - The individual who is being measured with the SOZO Device.

Phi - Phase Angle. Phase Angle is the arctangent of resistance/reactance of a person's cell membrane at a 50 kHz frequency. Phase Angle is expressed as a degree (e.g., 5.5°).

R - Resistance, used by the SOZO Device to perform measurements, calculated from current, voltage and phase angle (Phi).

R_{inf} - Rinfinity. R_{inf} is the impedance determined at an infinite frequency.

R₀ - The impedance determined at a frequency of 0 kHz.

Segmental BodyComp - The Assessment, also referred to as “Segmental Analysis for BodyComp,” performed by the SOZO Device of the body composition of limbs for the patient, designed to estimate various body composition parameters, including Total Body Water (TBW), Extracellular Fluid (ECF), Intracellular Fluid (ICF), Skeletal Muscle Mass (SMM), Lean Soft Tissue and Phase Angle (Phi) for the left arm, left leg, right arm and right leg of the patient.

SMM - Skeletal Muscle Mass. Skeletal Muscle Mass includes all muscle mass that mechanically acts on bones to create movement. It does not include cardiac or smooth muscle. Expressed as mass (kg or lb).

SOZOapp - The app pre-installed on the Tablet which provides the User with access to the SOZO system.

SOZOconnect Cable - The hardware component of the SOZO Device used to connect the SOZOtouch with the SOZOstep.

SOZOcradle - The hardware component of the SOZO Device which holds the Tablet in place.

SOZO Device - The commercially available medical device manufactured by ImpediMed, which uses Bioimpedance Spectroscopy to perform different types of Assessments of patient fluid levels.

SOZOsupport Stand - The hardware component of the SOZO Device upon which the patient stands for the taking of SOZO measurements.

SOZOstep - A hardware component of the SOZO Device upon which the patient stands (places their feet) for connection to the SOZO Device.

SOZO system - The commercially available medical device system manufactured by ImpediMed, also referred to as the SOZO Digital Health Platform in the SOZOapp, which uses Bioimpedance Spectroscopy to perform various Assessments of patient fluid levels. The SOZO System includes hardware (the SOZO Device and the Tablet) and software (MySOZO and the SOZOapp).

SOZOtouch - A hardware component of the SOZO Device upon which the patient places their hands for connection to the SOZO Device.

Tablet - Samsung Tablet, Lenovo Tablet or Apple iPad, provided to the ImpediMed customer as part of the SOZO system.

TBW - Total Body Water. Total Body Water is the total water within a person's body, including both intracellular and extracellular fluid. This is expressed as a volume (litres or pints) or a percentage of total mass (e.g., 60% of mass is TBW).

Unilateral - A type of L-Dex Assessment for a patient with one arm or one leg at risk for lymphoedema.

User Device - A device, including a PC, laptop or mobile device, used by the user to access MySOZO.

Xc - Reactance, used by the SOZO Device to perform measurements, calculated from current, voltage and phase angle (Phi).

Z - Impedance, which is the measure of the total opposition to an electric current. See and compare with bioimpedance.