



TECHNOLOGY
MAKING A DIFFERENCE

LD TECHNOLOGY MEDICAL DEVICES CATALOG

All our medical devices connect to the CCS Cloud data management to customize the patient report and invite specialist physicians or billing system. EMR connection are available.



No Human
Error



Editable
Reports



Accurate
Results



Results
overview



Simultaneous
measurement

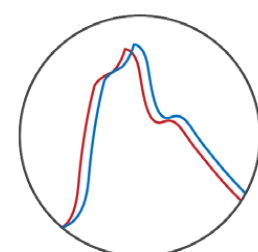
LD Technology medical devices are patented.



AUTONOMIC NERVOUS SYSTEM AND VASCULAR FUNCTION ASSESSMENTS

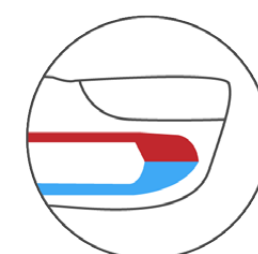
BLOOD PRESSURE AND ARTERIAL STIFFNESS ANALYSIS

Monitoring and Treatment Management of Hypertension



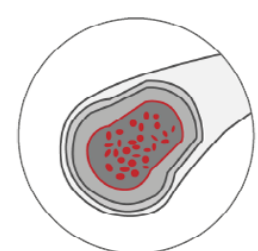
PHOTOPLETHYSMOGRAPHY

Mathematical Analysis of the pulse Ox waveform and Vital signs.



ANKLE BRAKIAL INDEX (ABI)

Peripheral Artery Disease (PAD)
Assessment Blood Flow Blockage or Calcification



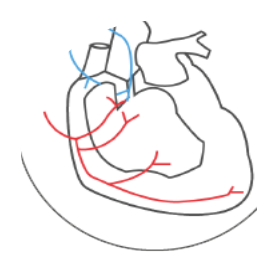
HEART RATE VARIABILITY (HRV)

Cardiac Autonomic Dysfunction and Fitness Assessment



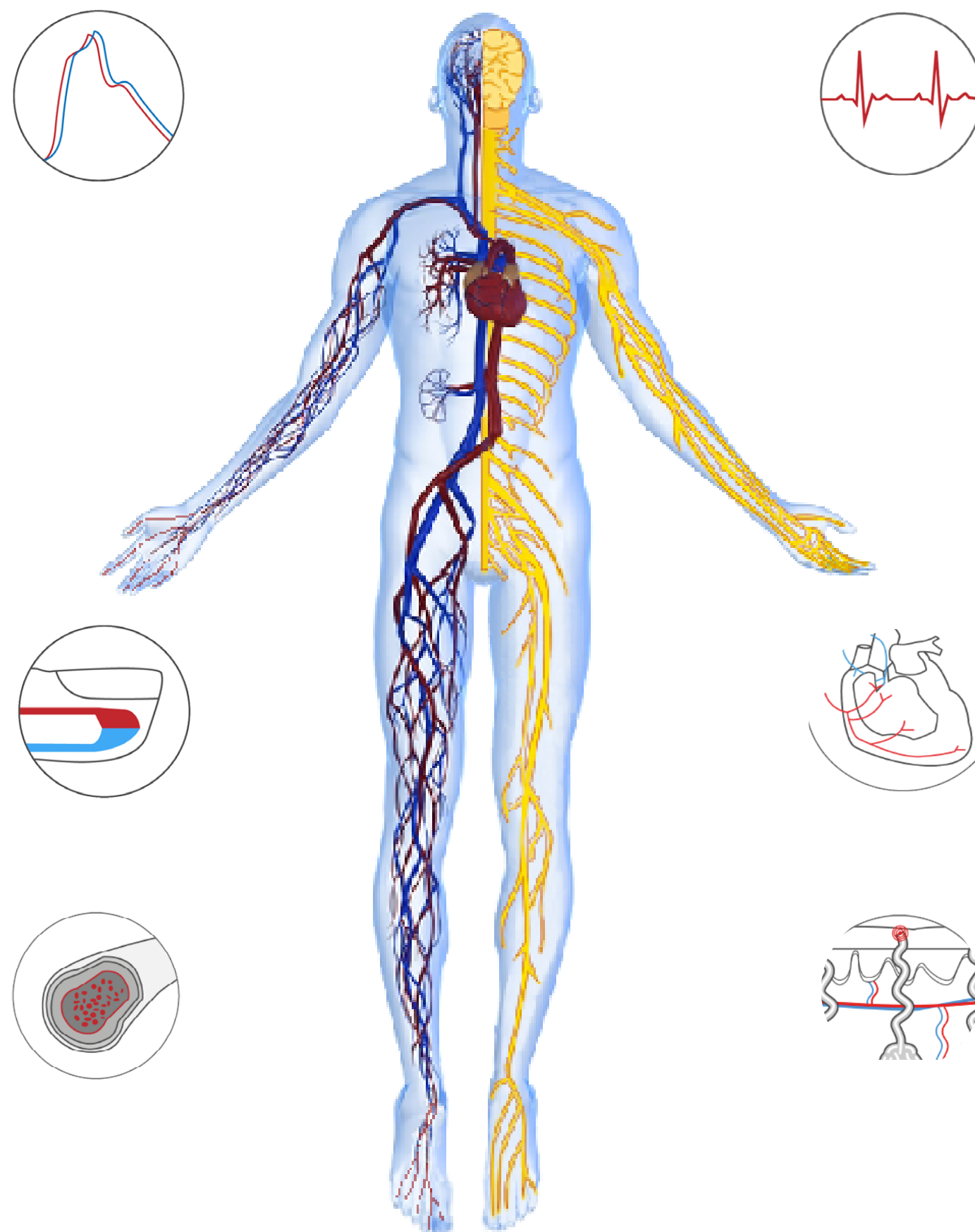
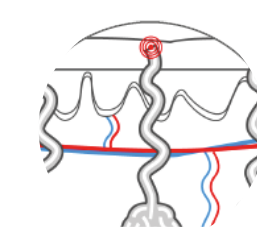
CARDIAC AUTONOMIC REFLEX TESTs (CARTs)

Cardiac Autonomic challenges tests and Cardiac Autonomic Neuropathy Assessment



SUDOMOTOR FUNCTION TESTS

Skin Microcirculation and Sweat Peak response. Sudomotor Assessment

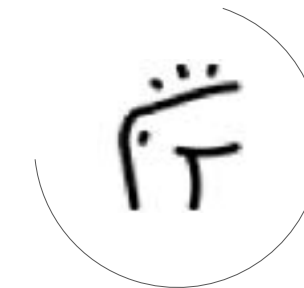




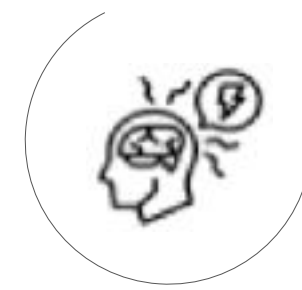
MAIN SYMPTOMS OF AUTONOMIC NEUROPATHY AND VASCULAR DYSFUNCTION



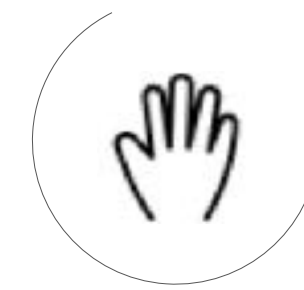
Fatigue



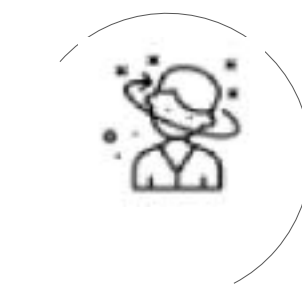
Fainting



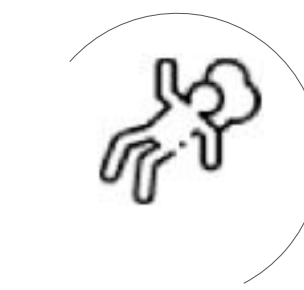
Headache



Tingling in the toes or fingers



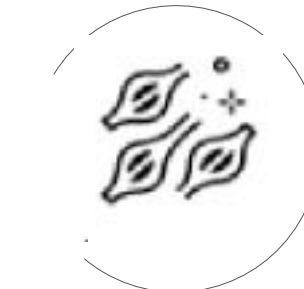
Dizziness



Claudication



Exercise intolerance

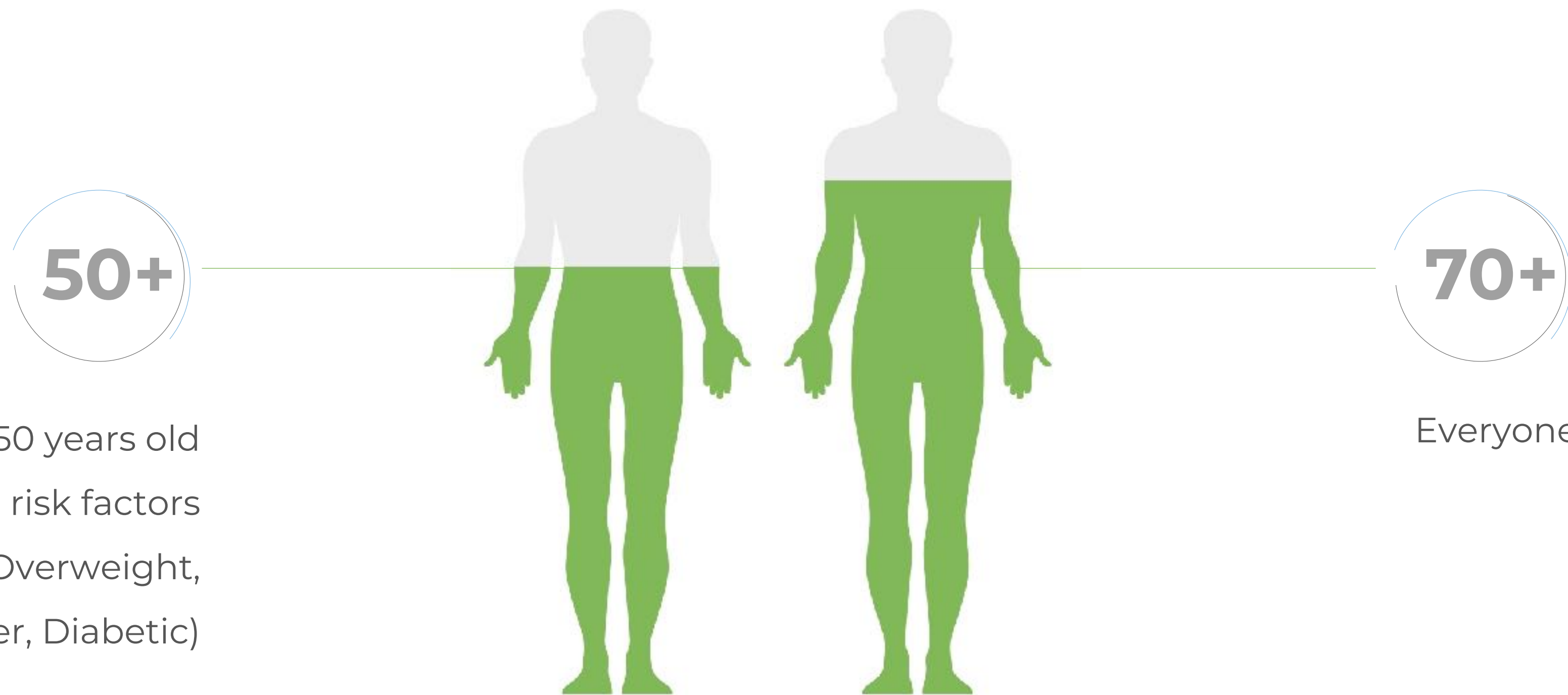


Painful muscle cramping in the hips, thighs or calves when walking, climbing stairs or exercising.



POPULATION THAT SHOULD BE TESTED WITH LD PRODUCTS

Autonomic neuropathy and vascular dysfunction risk group in the USA



Population over 50 years old
with cardiovascular risk factors
(Hypertensive, Overweight,
Smoker, Diabetic)

Everyone older than 70

OVER **45 MILLION PEOPLE**

ANYONE THAT FALLS IN THE RISK GROUP SHOULD BE MEASURED
WITH LD PRODUCTS



VISION

Our vision is to provide physicians with new tools that simplify complex procedures, such as Ankle Brachial Index (ABI) endothelial function and Autonomic Nervous System assessments, recommended by U.S. and International Medical Associations.

Our most recent innovation includes wireless transmission to increase patient and technician comfort. Our products offer a better, faster and easier approach to manage the chronic diseases. In addition, the CCS cloud data management platform enables to customize the patient report and the formation of effective teamwork by helping align primary and specialty care physicians to deliver better patient care.

MISSION

LD Technology's mission is to help physicians

1. Manage the chronic diseases and related treatments affecting the vascular and autonomic nervous systems.
2. Distinguish the cause of symptoms
3. **improves the early detection and treatment management of vascular and autonomic nervous system** complications resulting from chronic diseases, aging, and/or an unhealthy lifestyle.

If there is no early diagnosis, then there is no timely treatment.



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CHRONIC DISEASE CARE MANAGEMENT
EARLY DETECTION OF COMPLICATIONS

TM FLOW 7



Price under request for
distributors or users

TM Flow is a medical device data
system integrating 3 technologies

TBL-ABI + SWEATC + OXI_W

Models C001 A001 and D001



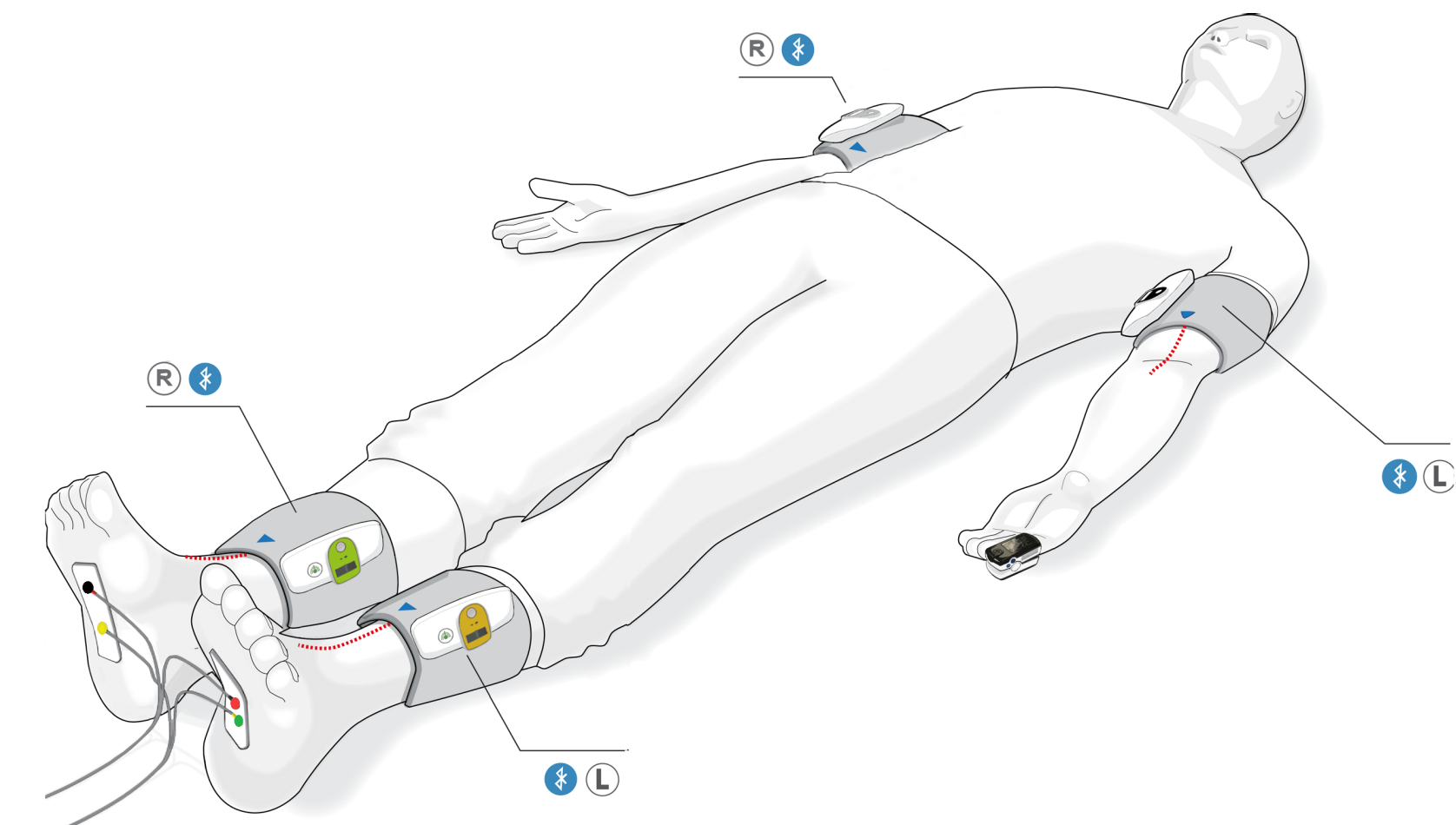
TM FLOW FEATURES:

The TM-Flow is a patented medical device with the following features:

- Measurement of Ankle Brachial Indices for the screening of Peripheral Artery Disease.
- Measurement of the Galvanic Skin response related to the sudomotor function.

Mathematical Analysis of the Photoplethysmography for assessing:

- The autonomic nervous system via Heart Rate Variability Analysis at the rest and during the Ewing Tests.
- The Endothelial function via the Photoplethysmography (PTG) Analysis.





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ADAPTED TO HEALTH
PROFESSIONAL NEEDS

PAD SERIES



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NEUROLOGY

Autonomic Nervous System Assessment

Sudomotor test & Cardiac
Autonomic Neuropathy assessment.



CARDIOLOGY

Vascular Assessment

Peripheral artery stiff ness
BloodPressure Analysis &
Ankle and toe Brachial Indices



PODIATRY

Lower Extremity Assessment

Sudomotor test &
Ankle brachial Indices



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Ankle Brachial Index and Volume
Plethysmography:
Peripheral Artery Disease (PAD) Assessment

TBL-ABI
Model
C001



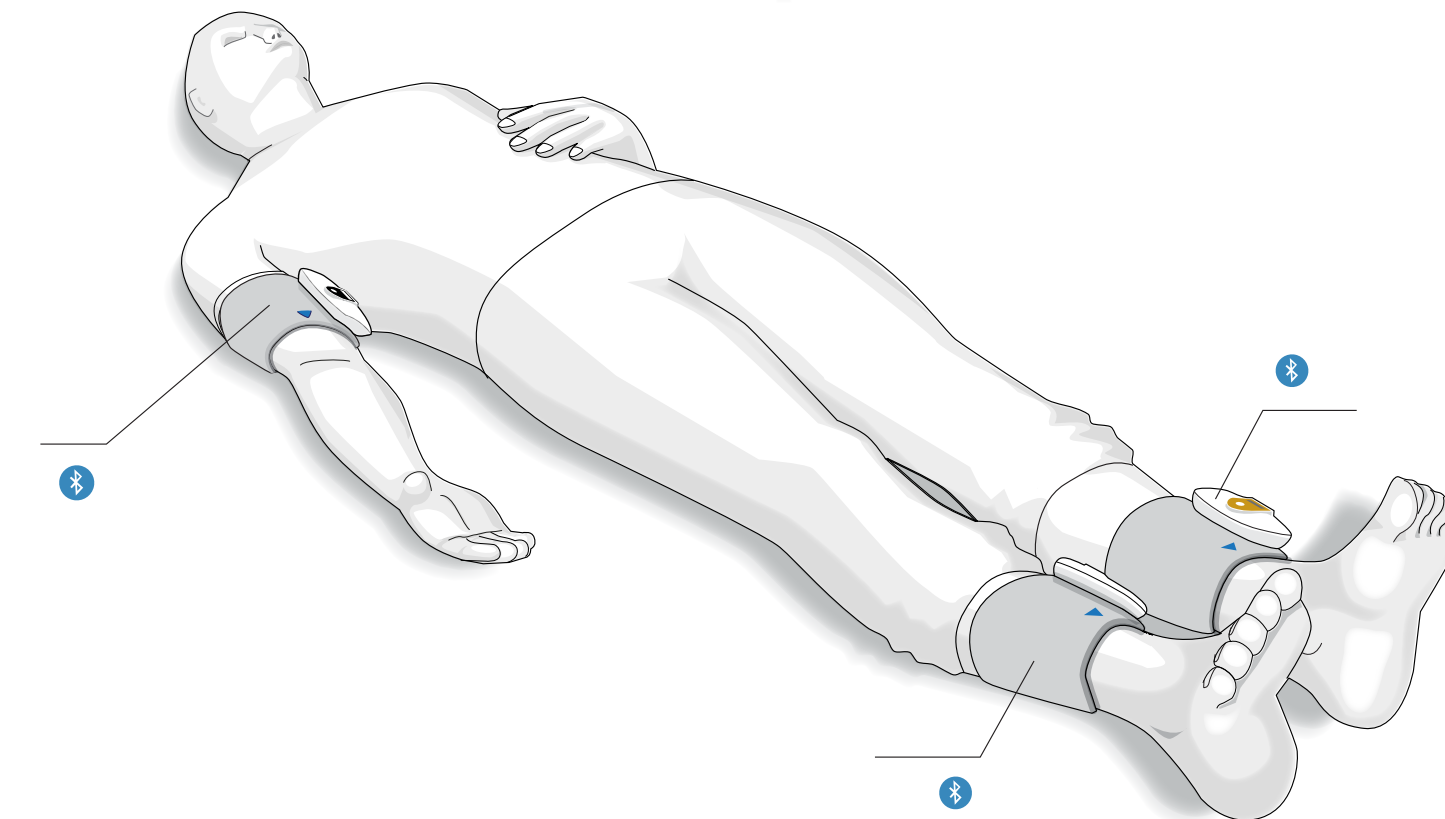
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The TBL-ABI system is indicated for use on adult subjects at risk of having or developing peripheral arterial disease (**PAD**).

TBL-ABI system is intended for the rapid measurement of anklebrachial pressure index (**ABPI**), or ankle-brachial index (**ABI**), and pulse volume recording (**PVR**) / volume plethysmography in adults.

It is suitable for use in wound care assessment, for assessing symptomatic **PAD**, and as a screening device for **PAD**. It may also be used on patients with venous or arterial ulcers prior to the application of compression therapy.

The ankle-brachial index (**ABI**) is the ratio of the lower systolic blood pressure measured at each ankle to the highest systolic pressure measured at the right and left arm.

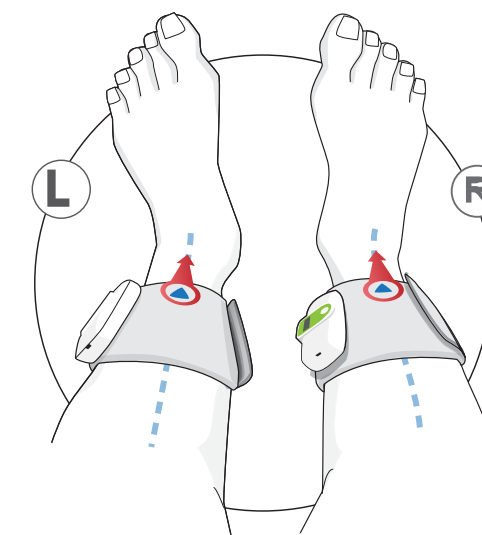




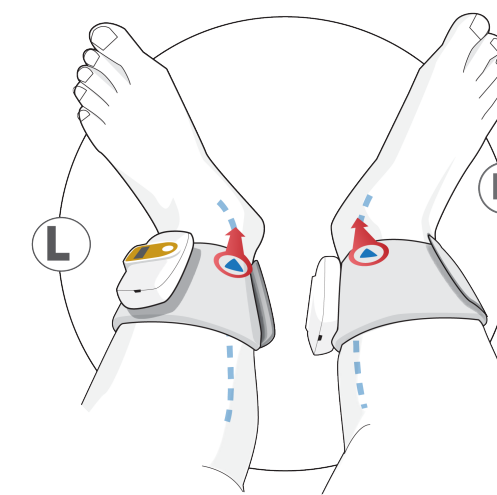
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ADVANTAGES OF TBL-ABI

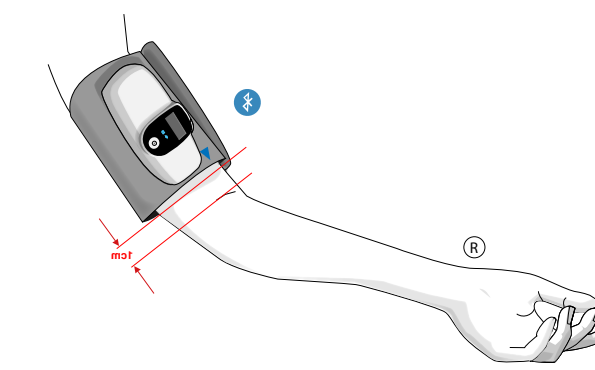
- Improvement of the patient comfort: No tube or wire on the body.
- Reduction of the technician errors when preparing the patient for taking a measurement:
 - In addition to the color code of the cuffs, the devices are labelled "ARM ", "RIGHT ARM ", "LEFT ANKLE" and " RIGHT ANKLE".
 - All the cuffs are labelled with a blue arrow « DOWN”, and therefore, the technician doesn't have to take care about the direction of the tubes.
- 60 to 100 measurements per full charge.
- Charging dock that stops automatically when the battery is fully charged.



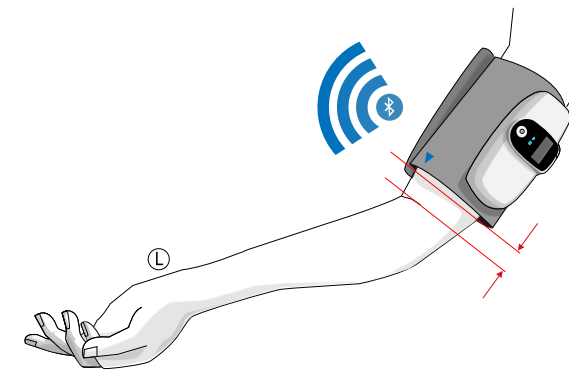
Right and Left Dorsalis
Pedis (DP) Artery Pressure



Left and Right Posterior
Tibial (PT) Artery Pressure



Right brachial
Artery Pressure



Left Bracial
Artery Pressure



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PHOTOPLETHYSMOGRAPHY

HRV

CARDIA CAUTONOMIC REFLEX
TESTS ENDOTHELIAL FUNCTION

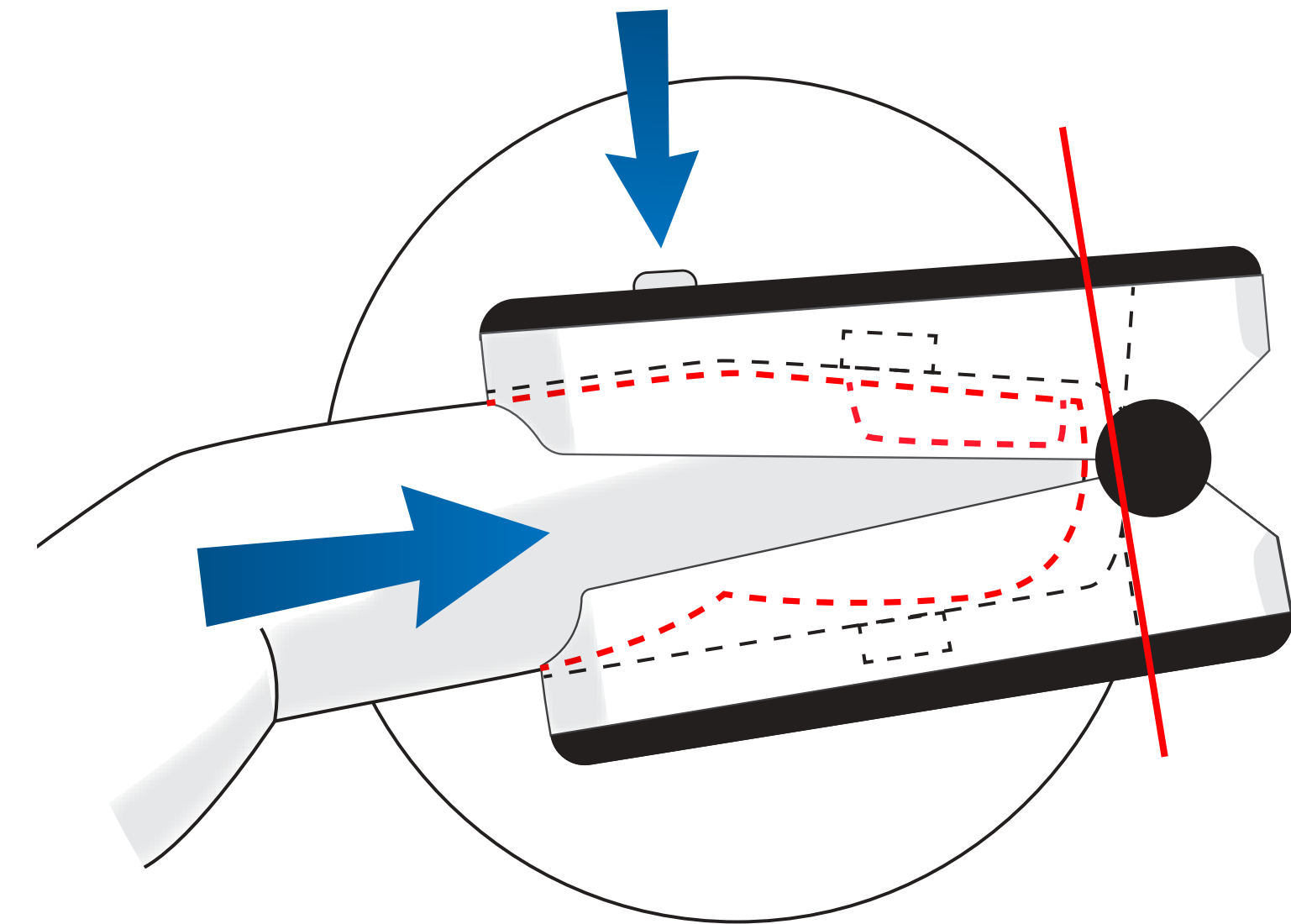
OXI_W
Model
D009



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OXI_W INTENDED USE:

1. To spot check or monitor Oxygen saturation of arterial hemoglobin (SpO2%) and pulse rate.
2. To analyze the pulse waveform (Photoplethysmography or PTG) provided by the oximeter. It only provides mathematical analysis of the input of the PTG using the first and second derivatives of the PTG values related to the microvascular condition and endothelial function.
3. To analyze the basic rhythms of the NN or RR intervals in heart rate from the PTG, both in the time domain and in the frequency domain (short time 5 minutes). It only provides mathematical analysis of the heart rate variability values related to the autonomic nervous system function.





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FEATURES:

- Photoplethysmography (PTG) analysis to assess the peripheral circulation.
- HRV (Heart Rate Variability) analysis both in the time domain and frequency domain to assess early ANS dysfunction.
- Ewing Tests analysis (Valsalva maneuver, deep breathing and K30/15 tests) to assess Cardiac Autonomic Neuropathy (CAN)

ACCURACY:

- Accuracy of the heart rate detection: Comparing our algorithm using the first derivative of the photoplethysmography to EKG, the coefficient of correlation $r=0.99$.
- Accuracy of the HRV analysis: According to the standard ANSI/AAMI EC57, our results follow the Input MIT-BIH database.
- Clinical studies: www.ldteck.com



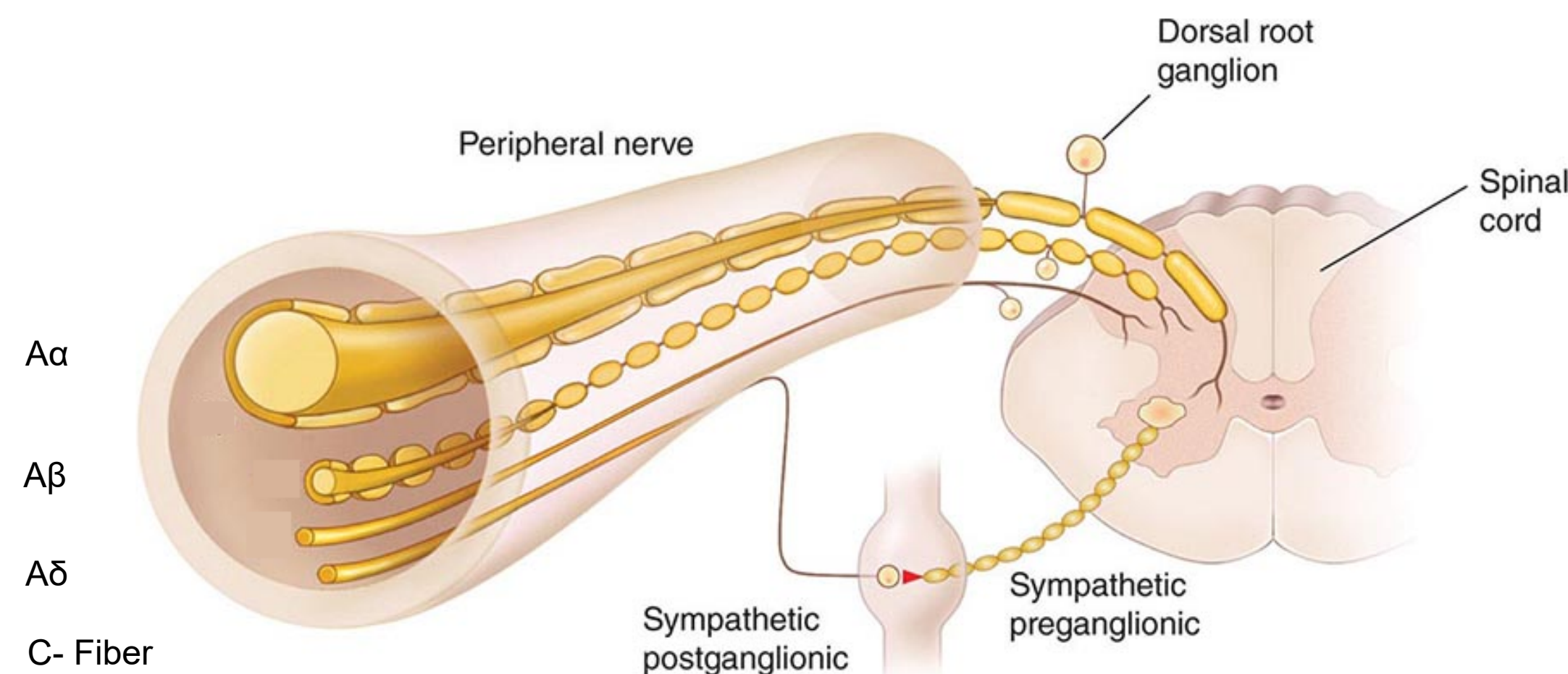
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Galvanic Skin Response
SUDOMOT OR FUNCTION
ASSESSMENT

SWEATC



The SweatC is a patented technology assessing the sweat gland function . It uses the sympathetic skin response (SSR) method to assess the sudomotor function via foot skin disposable electrodes following a predetermined electrical stimulation and specific sequence of measurement.
The test is performed in the supine position on an exam table.



Peripheral distal Neuropathy symptoms may be caused by any dysfunction or damage of:
Peripheral motor nerve and /or A α fiber (large fiber) and / or A β or A δ (sensory nerve) and/or C-Fiber (A utonomic cholinergic sympathetic fiber controlling the sudomotor function) Used diagnostic tools:

1. The nerve conduction velocity studies are using to detect the P eripheral motor nerve dysfunction
2. The vibration tests are using to detect the A α fiber dysfunction
3. The mono filam ent tests are using to detect the A β and A δ fiber dysfunction.
4. The sudomotor tests are using to detect the C-Fiber dysfunction . The C-Fibers are the only small fiber unmyelinated. Therefore, they are not protected and usually should be the first one to be affected before the other myelinated nerves.



REVIEW OF THE SUDOMOTOR TEST SWEATC:

The Sudomotor testing clinical data suggest it may be the most sensitive means to detect peripheral small fiber neuropathy (Low, et al.,2006). Sudomotor function is controlled by part of the sympathetic nervous system (post sympathetic cholinergic fiber) and it relates to skin microcirculation and small demyelinated nerve fibers (C-Fibers). **Microcirculatory disorders and Small fiber neuropathy could be the earliest stages of peripheral distal neuropathy in diabetic patients.**

In addition, **sudomotor dysfunction has been found in different diseases or as medication side effects** such as cancer treatment, antihypertensive treatment (in particular beta and alpha blockers and calcium antagonists), metformin treatment, vitamin deficiency, Parkinson's disease, AIDS, amyotrophic lateral sclerosis, hypothyroidism, kidney and liver diseases, alcoholism, Alzheimer's disease and Guillain-Barre syndrome. Traditional and recognized neurophysiologic measurements of sudomotor function include thermoregulatory sweat testing (TST), quantitative sudomotor axon reflex testing (QSART), silicone impressions and sympathetic skin response (SSR).

Sudomotor dysfunction is used to define a decreased sudomotor activity . Impaired response of autonomic C-Fiber (low level or absence or acetylcholine production) or of capillaries vasodilation (low or absence of response to Nitric Oxide) lead to sudomotor dysfunction. The autonomic C-fiber response (Sweat Peak) is measured at the positive electrode. The vasodilation response (NO Peak) is measured at the negative electrode.

DISPOSABLE ELECTRODE BENEFIT

- Increased reproducibility (no ageing of the electrodes)
- Prevent cross contamination
- Prevent biased measurement from the temperature
- Prevent biased measurement from the size of the feet



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Pre-consultation
Assessment

LIFEPROBES
KIOSK



Price under request for
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Lifeprobekiosk integrates 6 technologies to assess a patient pre-consultation

**BLOOD PRESSURE + OXIMETER + BIOIMPEDANCE+ HEIGHT SENSOR + WEIGHT SCALE +
THERMOMETER. In addition it integrates a QR Code scan and automatic Hand sanitizer.**

LIFEPROBES FEATURES

Lifeprobekiosk provides the following:

- Check in Patients:
- Online Patient registration and QR code identification
- Online Medical Questionnaire
- Height and weight,
- Temperature,
- Blood pressure,
- Oxygen saturation percent
- Heart rate,
- Estimate body composition
- Markers related to autonomic nervous system
- Marker of vascular aging.
- Customized diet under the MD

LIFEPROBES BENEFITS

- Improved patient flow in medical offices, clinics, and hospitals.
- It save time for nurses and other employees to focus on other tasks
Triage in ER according to the vital signs
- Monitoring and treatment follow ups of chronic disease.

ONLINE CHECK IN PATIENT LINK

www.life-probes.com

The report is sent automatically to the assigned MD and can be uploaded to any EMR/ EHR.





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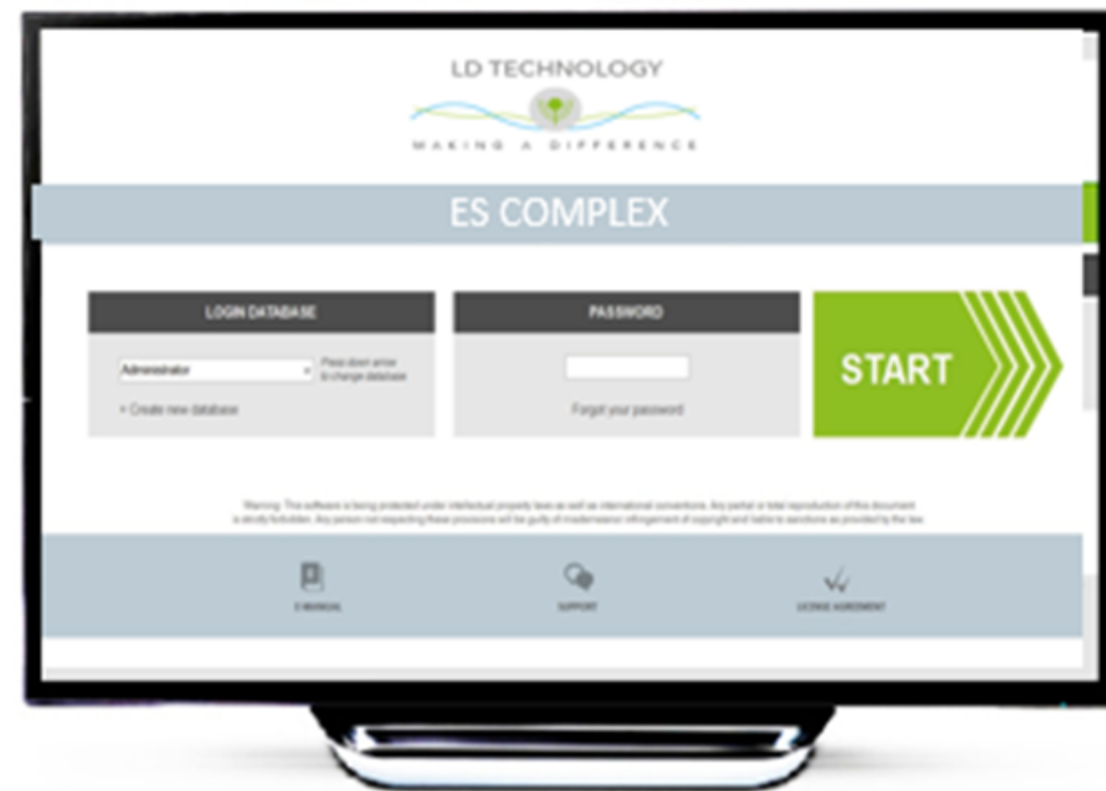
General Wellness
Wellness assessment

**WMS
ES COMPLEX V.4**

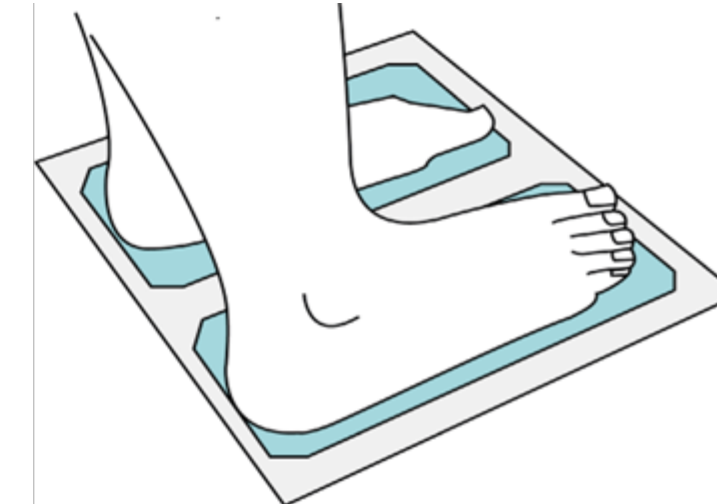


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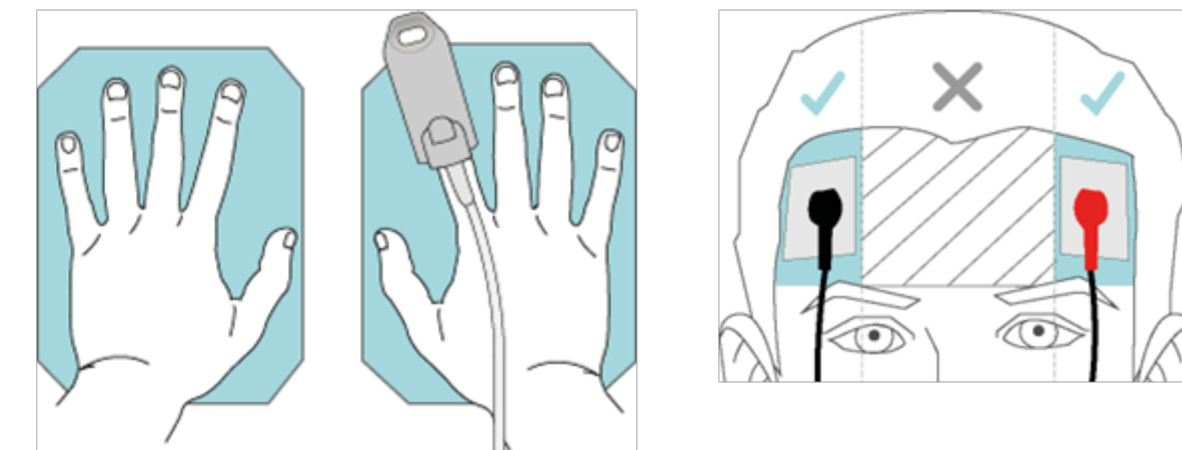
PREVENTION AND TREATMENT MANAGEMENT OF OBESITY, AGING, DIABETES AND CARDIOVASCULAR DISEASES.



➡ GALVANIC SKIN RESPONSE
➡ BIOIMPEDANCE ANALYSIS



➡ PHOTOPLETHYSMOGRAPHY



➡ BLUETOOTH BLOOD PRESSURE



Healthy lifestyle prevents chronic diseases such as obesity, premature aging, diabetes and cardiovascular. In addition, in adjunct to the conventional treatments, lifestyle changes improve the patient outcomes. ES Complex v.4/ WMS provides vascular function markers, autonomic nervous system assessment, homeostatic markers and oxidative stress in order to calculate a wellness score. The wellness score has been clinically validated by published clinical studies as a marker of cardiometabolic risk. According to the markers, WMS suggests a personalized diet , activity level and supplements for each patient



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Cloud data
management

**CCS CLOUD
DATA
MANAGEMENT**



The CCS Cloud manages the data for all the LD Technology medical devices. After each device measurement, the software sends the data to the CCS cloud in order to customize the patient report or allow specialist physicians (neurologist, cardiologist, or vascular specialist) to interpret the results. .

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CONTACT PARTNER PORTAL PATIENT PORTAL PHYSICIAN PORTAL

CCS Cloud Data Management

Effective teamwork is essential for delivering quality patient care, and the CCS platform helps form and develop an effective team.

- Cloud Service**
Secure HIPPA compliance Clouds. The cloud is dedicated to interpreting and reviewing the data of the CCS measurements.
- Security & Privacy**
Encrypted data. Your data will not be shared with any third party or entities.
- Content Management**
Physicians and partners registration. Secure access to the database. Interpretation, view and EMR connection.

Why the CCS Cloud management data

Effective teamwork between the performing physician and qualified interpreting physician (e.g., specialists) is a must in today's healthcare environment due to increasing patient comorbidities and the complexity of specialization care required.

The CCS cloud data management platform enables the formation of effective teamwork by helping align primary and specialty care physicians to deliver better patient care.



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LD TECHNOLOGY ISO 13485-2016

FDA OWNER OPERATOR NUMBER:
10028854

FDA ESTABLISHMENT REGISTRATION NUMBER:
3006146787

SweatC A001 K152216

OXI_W D009 K200141

TBL-ABI C001 K173696

BP-BT Kiosk F001 K200287



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LD TECHNOLOGY MEDICAL DEVICES CATALOG

CHRONIC CARE MANAGEMENT

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