



PRODUCT PORTFOLIO & COMPANY INFORMATION



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COMPANY PROFILE

HTL-STREFA S.A., a company of **MTD group**. We are one of the global leaders in the production of medical devices, particularly: safety lancets, personal lancets, pen needles, and lancing devices.

Our products are used by healthcare professionals for capillary blood collection in diagnostic tests conducted in hospitals, clinics, and laboratories, as well as by diabetics for daily blood glucose monitoring and subcutaneous drug administration, including insulin.

* **MTD (Medical Technology and Devices)** is a leading group in med-tech that designs, develops and delivers innovation globally through a comprehensive range of safety sharps and medical devices for diabetes management and personal care. MTD is a holding company founded in 2018 by the union of two historical and leading companies in the health market: Pikdare and HTL-STREFA that together count over 80 years of experience in these areas. MTD products are designed to improve the safety, quality and comfort of use of medical equipment for both patients and healthcare professionals. Made with cutting-edge technologies and maximum precision from the three production plants in Europe, the solutions of the holding company help to reduce hospital complications and consequently promote the sustainability of the healthcare system. The group's headquarters are located in Lugano, Switzerland, but the company is present worldwide with five offices (Italy, Poland, USA, Canada, France) and a widespread distribution of its products in over 100 countries.

25 years of „



We employ a continuous improvement strategy to analyze and update products. We are implementing and launching new solutions to meet the changing needs of patients and health care professionals. Our internal SOPs ensure the required cleanliness of production. Additionally, the air cleanliness requirements of class ISO 8 (100.000 as per USA Federal Std 209 E) are fulfilled in clean zones. The design of our products is defined by ergonomics, simplicity and reliability.

HISTORY

1994

First patent for
a **safety lancet**
granted in the USA

2000

Opening of the **first
modern manufacturing
plant** in Ozorków,
within the Łódź Special
Economic Zone

2006

Company was
listed on the
**Warsaw Stock
Exchange**

2007

- Launch of the **second manufacturing plant** with an in-house needle grinding facility **located in Łęczycza (Łódź Special Economic Zone)**
- acquisition of a **major Swedish competitor** – Haemedic AB
- Establishing of a subsidiary in the USA dedicated to sales and marketing of HTL-STREFA products
- Gaining over **50%** market share in the safety

2009

Acquisition of ownership
by the **EQT V** investment
fund (a leading private
equity entity)

2011

Introduction of a **new
product line – pen
needles**

2015

Introduction of a new
product line – **safety
pen needles**

2018

HTL-STREFA becomes part
of the **MTD Group**

2021

Opening of a **tool shop
in Bydgoszcz** for regular
maintenance and
repair of our molds as an
internal service

PRODUCTION

At the moment, HTL-STREFA has three modern production facilities in Poland (Lodz Special Economic Zone and Bydgoszcz), and a sales and marketing office located in Warsaw, Poland. HTL-STREFA, Inc. a distribution facility **in the United States** is also responsible for Sales & Marketing in North and South America.

3 modern 
production
facilities

HTL-STREFA works in close cooperation with its customers and end users to exactly meet the market requirements. We maintain complete control over **quality and design for all aspects of each product**. Our team of committed designers and engineers constantly improve the quality of our products and processes, while also **developing new and innovative solutions**.



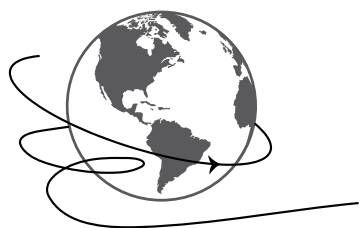
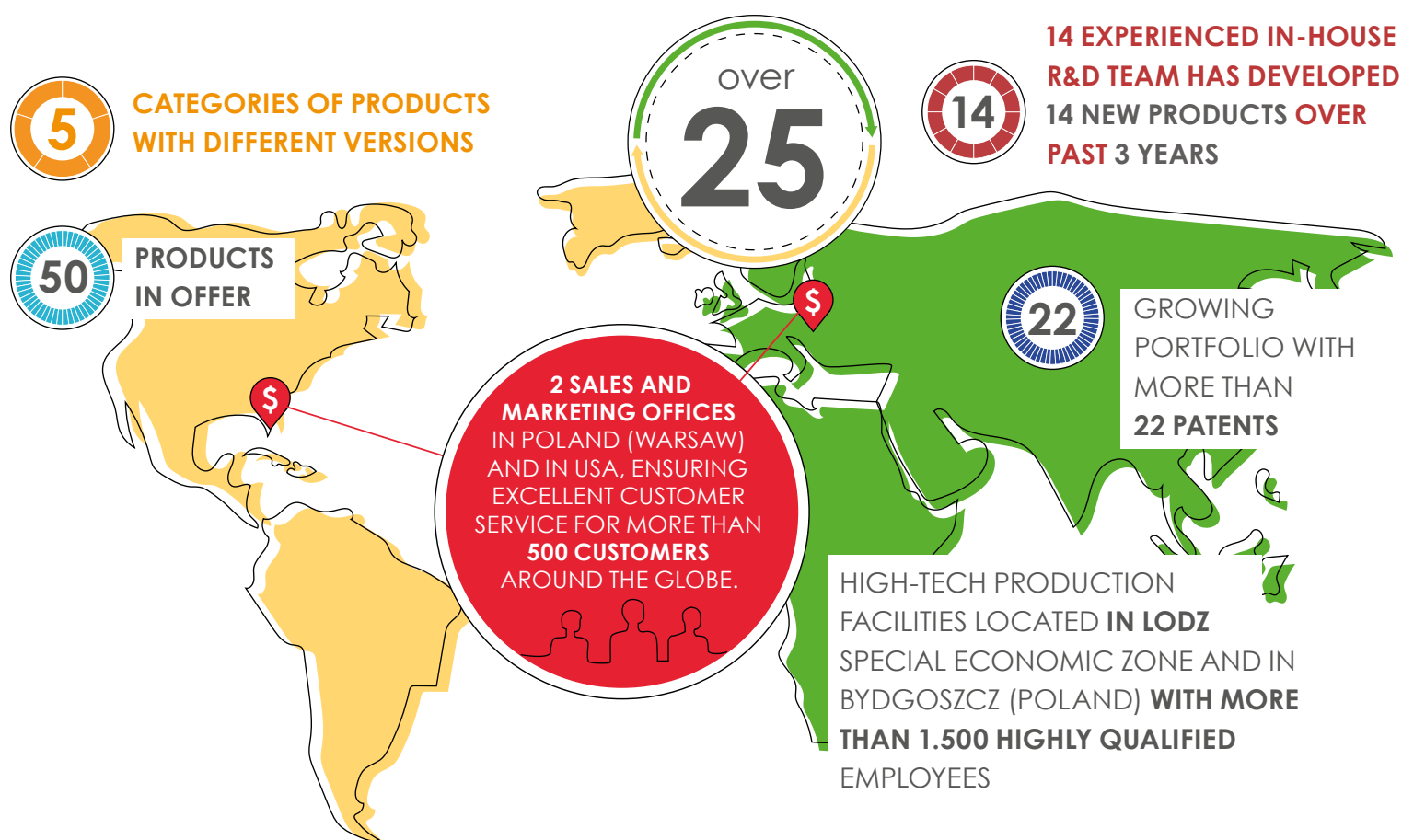
HTL-STREFA is focused on strategic manufacturing for top multinational medical device corporations; we also market our own products under the HTL-STREFA brand in cooperation with local distributors.

Every day, nearly **10 million products are shipped from HTL STREFA plants**. Thanks to a highly developed distribution network, safety lancets, personal lancets and pen needles carrying the HTL STREFA logo, or under our Customers' brands, are available worldwide.



MARKET

The **medical technology industry** is a dynamic and essential component of the healthcare sector. **Advances in technology** improve medical devices to simplify the **prevention, diagnosis and treatment** of many diseases.



10 MILLION PRODUCTS
SHIPPED EVERY DAY

HTL-STREFA is a brand with global experience from **more than 80 countries**. We are the global leading provider of blood micro-sampling medical devices with close to 50% global market share in safety lancets (#1 position globally) and #2 provider globally of personal lancets. For many years, our brand has never failed the promises made to the patients and health care professionals.

Prevention

Medical devices equipped with a single use protection feature allow patients to be protected from blood borne pathogens.

Diagnosis

Safety lancets of a wide variety of sizes allow quick sample collection while ensuring maximum patient comfort.

Treatment

Personal lancets allow diabetics to easily monitor blood glucose level which helps to manage diabetes in a more sufficient way; pen needles are dedicated for injectable drug delivery.

QUALITY STANDARDS

HTL-STREFA products consistently exceed the most rigorous international safety and quality standards.

HTL-STREFA PRODUCTS ARE SOLD IN OVER 80 COUNTRIES.

Since its very foundation, HTL-STREFA has maintained and improved a quality management system. Our quality management system complies with the **EN ISO 13485:2016** standard requirements.

All HTL-STREFA products bear the CE marking, which proves compliance with the requirements for medical devices applicable in the European Union specified in **Directive 93/42/EWG** and Regulations **(EU) 2017/745, (EU) 2023/607** and relevant regulations.

The Notified Body involved in the conformity assessment process of our products is **TÜV Rheinland LGA Products GmbH**.

Since January 2019, HTL-STREFA holds Medical Device Single Audit Program Certificate (MDSAP), confirming compliance with **ISO 13485:2016**, and the regulatory requirements of five jurisdictions: Australia, Brazil, Canada, Japan, and the United States.



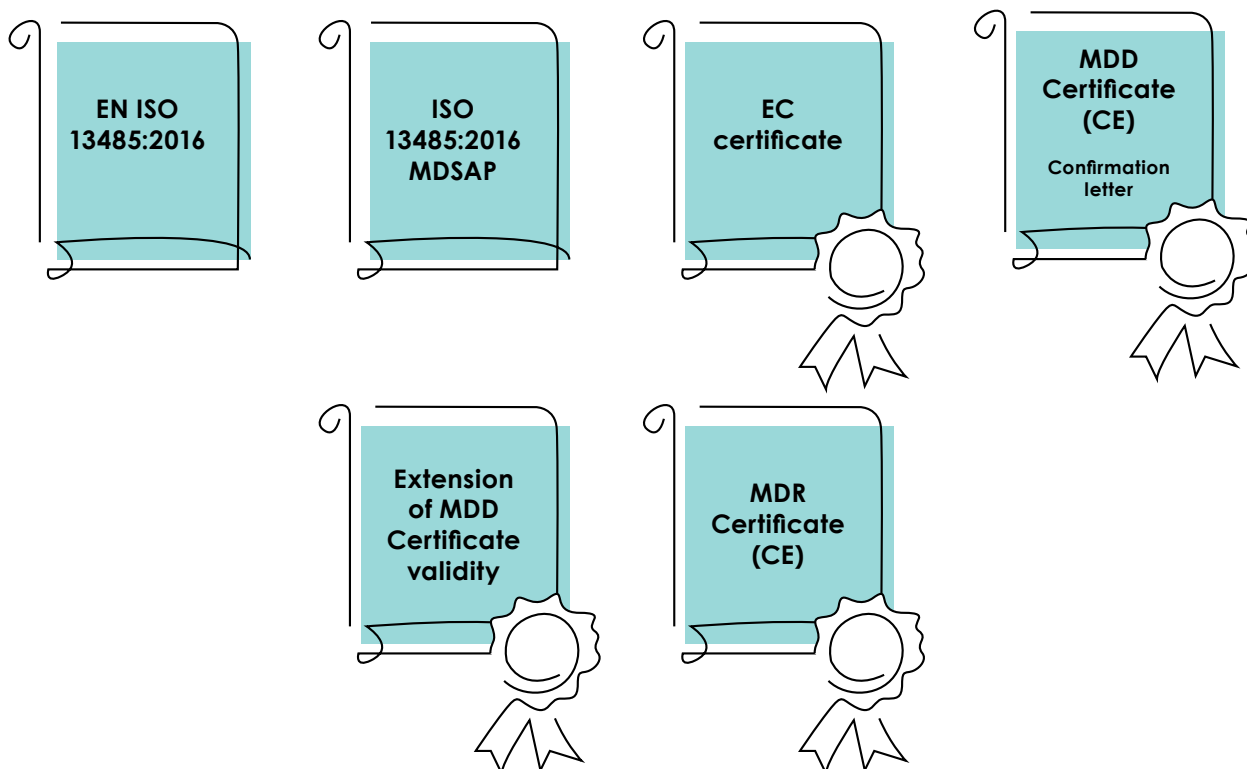
HTL-STREFA products are sold worldwide, primarily in **Europe**, the **USA**, **Canada**, and **South American** countries, including **Brazil**, **Mexico**, **China**, **Japan**, **Australia**, as well as in **the Middle East** and **Asia**. We hold registrations and marketing authorizations issued by competent authorities and government agencies, as well as certificates of conformity issued by accredited notified bodies, allowing us to place the medical devices on the market, among others:

- **TÜV Rheinland LGA Products GmbH. (European Union)**
- **FDA in the Unites States**
- **Anvisa in Brazil**
- **HC in Canada**
- **MHLW in Japan**
- **MFDS in Korea**
- **COFEPRIS in Mexico**
- **UKRMEDCERT in Ukraine**
- **SFDA in Saudi Arabia**
- **CFDA in China**

HTL-STREFA branded devices are registered in:

- | | | | |
|---------------------------|-------------------|-------------------|-------------------------------|
| • All EU countries | • Korea | • Thailand | • United Arab Emirates |
| • the USA | • Brasil | • Israel | • Australia |
| • China | • Mexico | • Canada | |
| • Russia | • Thailand | • Turkey | |

HTL-STREFA holds multiple certifications:



SUSTAINABLE DEVELOPMENT POLICY

HTL-STREFA is part of the **MTD Group** with a shared sustainability strategy.

Environmental, social, and governance issues are an integral part of our corporate culture. Sustainability plays a central role in our business model, and ethical management guides all corporate decisions.

MTD's commitment is translated into a roadmap, based on a sustainability strategy. The strategy is built on four pillars, each with specific objectives aligned with the United Nations Sustainable Development Goals (SDGs).

TAKING CARE OF PEOPLE'S WELLBEING

Our actions are driven by a commitment to caring for people, patients, and consumers. This is why we pay close attention to their unmet needs, taking into account their emotional well-being, in order to design products that address those needs. This approach of listening has been key to our continuous product innovation, making our products more user-friendly, enhancing comfort, and ultimately improving compliance with medical treatments.



THE SAFETY OF HEALTHCARE PROFESSIONALS

At HTL-STREFA, along with the MTD Group, one of our key priorities is the portfolio of safety sharps. These products focus on preventing hospital infections, which not only jeopardize the health of healthcare professionals but also represent a significant financial burden on healthcare systems.

We design and provide safety solutions specifically aimed at minimizing or eliminating the risk of healthcare professionals' exposure to bloodborne pathogens. Our devices are designed to enhance the comfort and safety of medical treatments for both healthcare professionals and patients.



THE IMPACT ON PLANET AND PEOPLE

Achieving a positive impact on health also means caring for the environment. That's why, as the MTD Group, we not only focus on the well-being of people but also play an active role in preserving and improving the health of our planet.

Learn more about how **HTL-STREFA**, as part of **MTD Group**, takes care of the planet.

htl-strefa.com

EDUCATION

The **educational materials** have been carefully developed to provide reliable information and practical support for **diabetes monitoring**. With these resources, you can deepen your knowledge and make informed decisions on your journey to **better health**.

We are committed to improving your daily **quality of life**, which is why we offer tools that provide valuable and up-to-date information.

DIABETES AND HOT WEATHER

Problems that hot weather can cause for people with diabetes



DEHYDRATION



BLOOD SUGAR LEVELS
RISING OR FALLING



HEAT
EXHAUSTION



DAMAGE OF MEDICATION
& MEDICAL SUPPLIES

How to stay safe?



DRINK WATER

Your body loses a lot of fluids through perspiration, stay hydrated by drinking water regularly during the day.



BLOOD GLUCOSE MONITORING

Check sugar level more often - at least 4 times a day; if you're planning long journeys, test it before and after each journey and stop regularly to check your blood sugar level. Also you may need to adjust your insulin levels during changes of temperature outside.



SUN PROTECTION

Use sunscreen and use a lip balm with sunscreen also wear loose-fitting, lightweight, and light-colored clothing.



HEAT EXHAUSTION

When you feel overheated or dizzy, lie down and use cool compress to lower your body temperature; also check your sugar level.



FEET PROTECTION

Pay attention to your feet; wear comfortable shoes and examine feet carefully for any sign of infection or injury.



INSULIN

Keep insulin at near-normal temperatures in an insulated case; keep in cooler or use cooling packs, but do not place insulin directly on ice or a gel pack.



DIABETES SUPPLIES

Keep your medical supplies out of direct sunlight, away from heat and humidity; do not leave supplies in the car; use a protective pouch on your insulin pump.




IDENTIFICATION

Identify yourself as a person with diabetes, so you can get appropriate help and care if you need.

HTL-STREFA

SAFETY LANCETS LANCING TECHNIQUE & LANCING PROCEDURE FOR CAPILLARY BLOOD SAMPLING





5!

1

Great job injecting your insulin! To ensure your medicine works properly, remember that your pen needles should be used once only. It's important to your health to not reuse pen needles. Let's learn together why this is important.

HC HTL-STREFA



7

7

You're doing a great job being responsible for your health! Remember changing your pen needle every time is part of being healthy!

HC HTL-STREFA

SAFETY LANCETS

sterile, single-use medical devices designed for capillary blood sampling from the finger.

Intended for healthcare professionals and lay users.*
Clinically proven blood sample volumes.^{1,2,3}



Safety lancets are an integral component to the sharps injury prevention programs in hospitals, clinics, laboratories, doctor's offices and wherever both patients and professionals need to feel safe.

Sometimes, the smallest pieces of equipment offer the greatest protection for both patients and health care providers. These small devices with features like self-destruction mechanisms may protect health care professionals and patients from infections.

HTL STREFA
high tech lab

DIABETES AND TRAVEL

When you have diabetes, vacation or business trip means a little extra planning. Changes in what you eat, how active you are, and time zones can affect your blood sugar levels. How to make your travels easier?

Before you go

SEE YOUR DOCTOR BEFORE YOU GO

Before your holiday have a medical exam to make sure that your diabetes is under control. Ask your doctor for a prescription and letter with all information about your condition.

PREPARE FOR AN EMERGENCY ABROAD

Prepare list of doctors/places where you can ask someone for help. Always wear "I have diabetes" bracelet or necklace, also learn how to say "I have diabetes" in language of the country you'll visit.

MEDICAL IDS

Carry a note from your doctor describing your condition. Also in the event of an emergency have your medical ID with all information about health status - such as insulin dependence, allergies etc.

PACKING

Prepare holiday checklist and remember - rather pack twice as much than too little medication and other diabetes supplies. Pack your items in carry-on bag so that your medication is always with you.

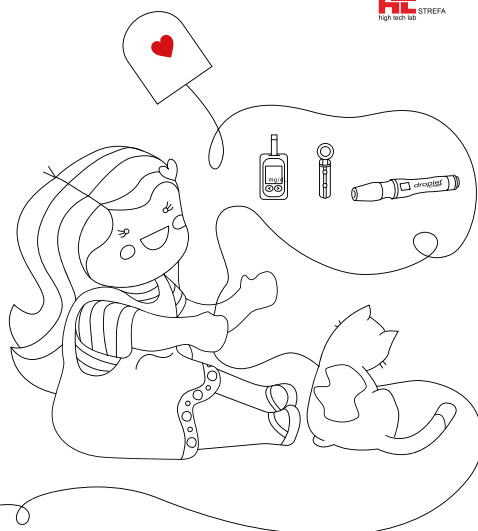
Holiday checklist

- SUPPLY OF INSULIN (LEAVE IT IN ORIGINAL PACKAGING)
- INSULIN PEN AND PEN NEEDLES
- PERSONAL LANCETS, LANCING DEVICE AND ALL DEVICES THAT YOU WILL NEED FOR THE TRIP
- BLOOD AND KETONE TESTING SUPPLIES (+ EXTRA BATTERIES FOR GLUCOSE METER)
- OTHER MEDICATIONS OR MEDICAL SUPPLIES (GLUCAGON, ANTIDIARRHEA MEDICATION, ANTIBIOTIC OINTMENT)
- MEDICAL ID AND DIABETES IDENTITY CARD
- COOLER BAG FOR INSULIN AND TEST STRIPS
- CANDY OR GLUCOSE TABLETS TO TREAT LOW BLOOD SUGAR
- TREATMENT PLAN (WITH INSULIN DOSES AND CORRECTION FACTORS)
- HEALTH INSURANCE AND AN EMERGENCY CONTACT PERSON TELEPHONE NUMBER

When you get there

- EATING IN THE AIR - REQUEST MEAL LOW IN SUGAR, FAT OR CHOLESTEROL & INJECT INSULIN WHEN YOU SEE YOUR FOOD IN FRONT OF YOU
- STORE YOUR INSULIN PROPERLY
- CROSSING TIME ZONES - TALK TO YOUR DOCTOR BEFORE YOUR TRIP AND PLAN THE TIMING OF INSULIN INJECTION WITH YOUR TRAVEL SCHEDULE
- TRY TO STICK YOUR ROUTINE AS MUCH AS POSSIBLE
- KEEP YOUR SUPPLIES CLOSE AT HAND
- INVESTIGATE THE FOOD YOU EAT
- TEST YOUR BLOOD SUGAR OFTEN
- WEAR COMFORTABLE SHOES
- TELL OTHERS THAT YOU HAVE DIABETES

Take it easy & have a great holiday!



Hi, do you know how to measure blood sugar?
Ok, I'll show you it's very easy!

SELF-MONITORING OF BLOOD GLUCOSE

INCLUDING FINGER PRICKS ROTATION
& ALTERNATE SITE TESTING



OUR PUBLICATIONS AND RESEARCH^{1, 2, 3, 4, 5}

We invest in research and development - always striving to create new solutions for patients and medical personnel, always putting their safety and comfort first.

We focus on people and their needs. We listen to our customers and we respond actively for their necessities and expectations. Our products are created in cooperation with healthcare professionals and patients. We evaluate our portfolio in Focus Groups and Consumer Studies all over the World.

We release a variety of publications reflecting our commitment and knowledge. We want to provide our customers not only with innovative and safe solutions in terms of medical devices but also give them educational support.

All our publications are available on our website in the Learning Hub section.

<https://htl-strefa.com/>

Journal of Diabetes Science
and Technology
1 –8

Evaluation of Three Lancing Devices: What Do Blood Volume and Lancing Pain Depend On?

Beata Mianowska, MD, PhD¹, Wojciech Mlynarski, MD, PhD², Irena Szadkowska, MSc³, and Agnieszka Szadkowska, MD, PhD¹

Abstract

Background: Globally millions of people with diabetes still prick their fingers to measure blood glucose. The aim of this study was to comprehensively evaluate and to compare three lancing devices set at the minimum ("1") and at the maximum ("5") lancing depth with respect to blood volume (BV) and pain related to lancing.

Methods: Lancing devices tested were A—Glucoject Dual PLUS, B—droplet (both: HTL-Strefa S.A., Poland), and C—Microlet Next...Switzerland), all used with personal lancets of three sizes 28G, 30G, and 33G. BVs were measured with calibrated capillaries. Pain related to lancing was expressed as a derivative of pain rating with visual analog scale.

**A Single-Blind, Randomized,
Single-Centre Study to Investigate
the Characteristics of Different
Personal Lancets on Blood Volume
and Perceived Pain in Patients
With Diabetes Mellitus**

Gajane Żurawska

**DropSafe Safety Pen Needle Helps
to Prevent Accidental Needlesticks
After Injections: Results of a Simulated
Clinical Study**

M. Malinowski, A. Serafin,
A. Prażmowska-Wilanowska

Capillary Blood Sampling in Adults

Anna Serafin

**Capillary Blood Sampling Procedure
in Pediatric Population**

Mariusz Malinowski

**Blood Volume and Pain Perception
During Finger Prick Capillary Blood
Sampling: Are All Safety Lancets
Equal?**

A. Serafin, M. Malinowski,
A. Prażmowska-Wilanowska

**Evaluation of Three Lancing Devices:
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**Safe and Effective Use of a Passive
Safety Needle by Healthcare
Professionals in a Simulated
Environment, Including Perceptions
and Preferences**

Anna Serafin, Aleksandra Ryk, Wojciech Fendler

**The Impact of Needle Diameter
and Penetration Depth of Safety
Lancets on Blood Volume and Pain
Perception in 300 Volunteers:
A Randomized Controlled Trial**

Katarzyna Jarus-Dziedzic, Gajane Żurawska,
Karolina Banys, Justyna Morozowska

DIABETES PANDEMIC

Diabetes is a **global epidemic** affecting as estimated **589 million people worldwide**. According to “Global status report on noncommunicable diseases 2010”, published by World Health Organization, diabetes will be the 6th leading cause of death by 2030. An estimated **6,7 million** people die from diabetes complications in 2021.⁶

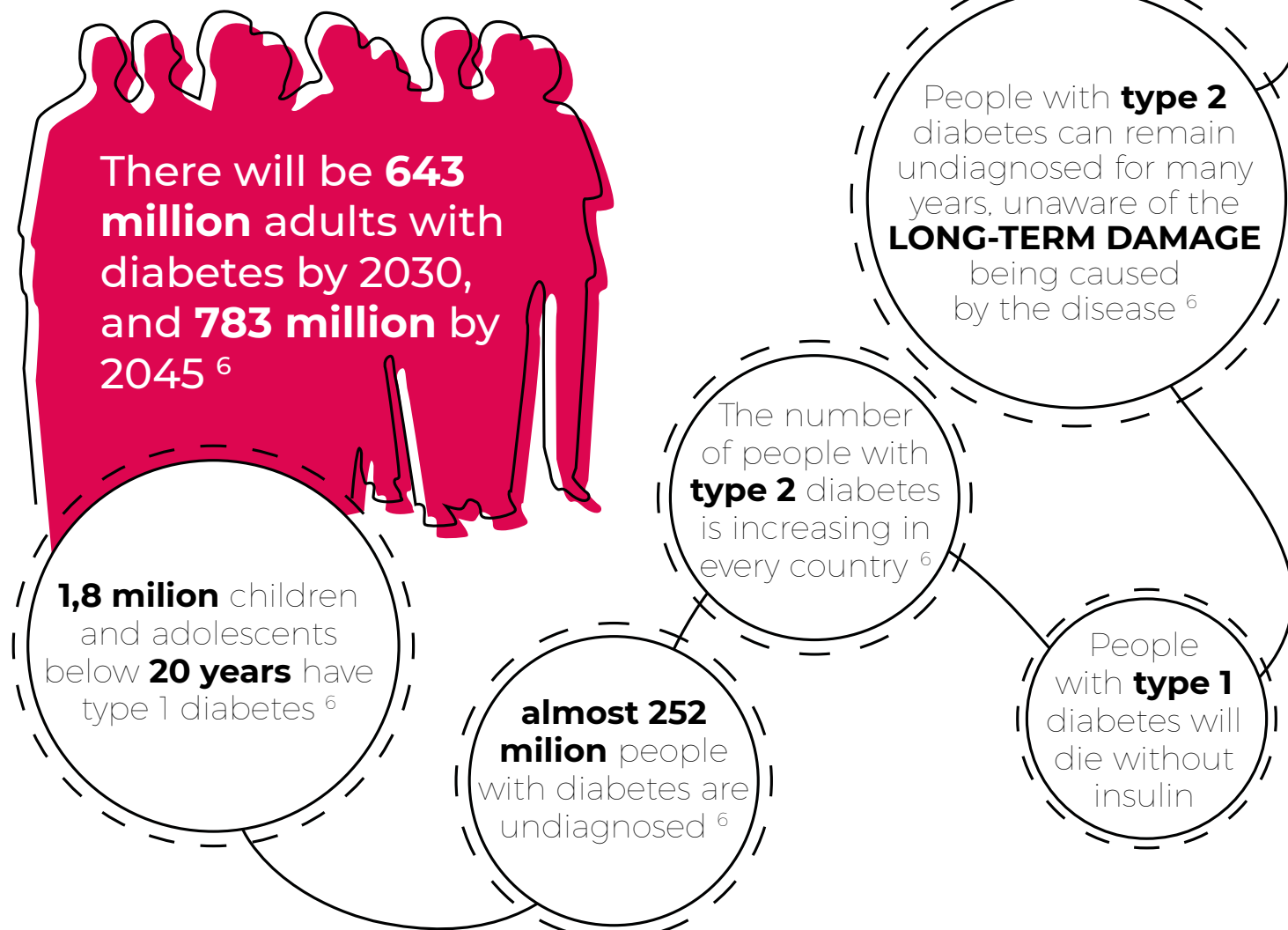
Why is diabetes such a dangerous disease?

It is a chronic disease occurring when the body's pancreas does not produce enough insulin or when the body cannot effectively use the insulin produced. Diabetes can cause chronic complications.⁷

Diabetes complications:⁷

- **Diabetic cardiomyopathy**, damage to the heart, leading to diastolic dysfunction and eventually heart failure.
- **Diabetic nephropathy**, damage to the kidney which can lead to chronic renal failure, eventually requiring dialysis.
- **Diabetic neuropathy**, abnormal and decreased sensation which combined with damaged blood vessels can lead to diabetic foot sometimes requiring amputation.
- **Diabetic retinopathy**, severe vision loss or blindness.

589 MILLION PEOPLE HAVE DIABETES



There will be **643 million** adults with diabetes by 2030, and **783 million** by 2045 ⁶

1,8 million children and adolescents below **20 years** have type 1 diabetes ⁶

almost 252 million people with diabetes are undiagnosed ⁶

The number of people with **type 2** diabetes is increasing in every country ⁶

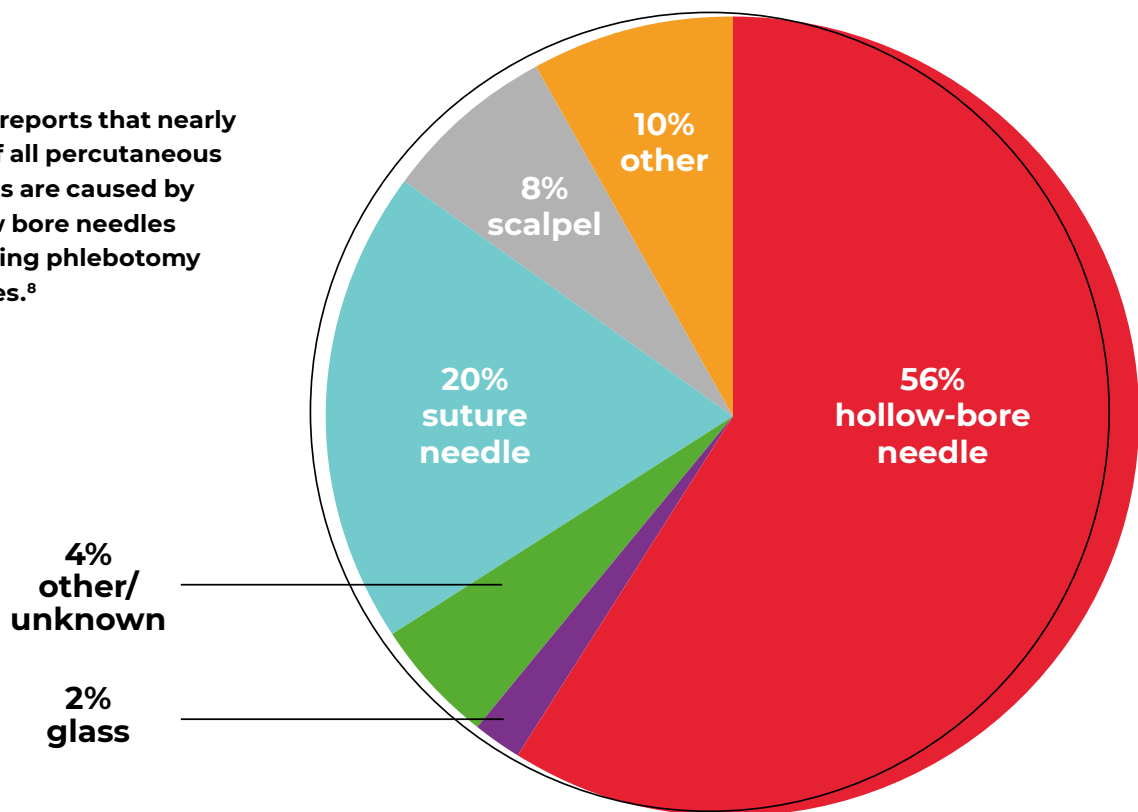
People with **type 2** diabetes can remain undiagnosed for many years, unaware of the **LONG-TERM DAMAGE** being caused by the disease ⁶

People with **type 1** diabetes will die without insulin

SHARPS INJURY PREVENTION

Sharps injury is defined as: an incident, which causes a needle, blade (such as scalpel) or other medical instruments to penetrate the skin. This is sometimes called a percutaneous injury.

OSHA reports that nearly 50% of all percutaneous injuries are caused by hollow bore needles including phlebotomy needles.⁸



HEPATITIS B

(chances of infection from a contaminated sharps injury):

1 in 5 (if you're not vaccinated)

HEPATITIS C

(chances of infection from a contaminated sharps injury):

1 in 50

HIV

(chances of infection from a contaminated sharps injury)

= 1 in 300

Reduction in the number of sharps injuries and infection prevention has been **successfully achieved in regions that implement:** ^{9,10}

- **Safe sharps handling** and **disposal programs**
- **Immunization** of health care workers
- Use of **safety products** like safety lancets
- **Post exposure prophylaxis** (PEP)

Sometimes, the smallest pieces of equipment offer **the greatest protection** for both patients and health care providers.

HTL-STREFA is committed to manufacturing safety products designed to reduce or eliminate the risk of exposure to blood borne pathogens. We are the leading manufacturer of sterile single-use, safety lancets.

Our unique design features are:

- **Dual-spring design to ensure complete needle retraction**
- **Full housing to prevent needle exposure before and after activation**
- **Auto-disabling mechanisms to prevent lancet re-use**

SAFETY LANCETS

Safety lancets are sterile, single-use medical device intended for the capillary blood sampling. Depending on the safety lancets type intended users are healthcare professionals (Medlance® Plus; ergoLance®; Acti-Lance®; Heamolance® Plus; MediSafe® Solo; Medlance®) and lay users (Acti-Lance®; ergoLance®).

They are an integral component to the sharps-injury prevention programs in hospitals, clinics, laboratories, doctor's offices and wherever both patients and professionals need to feel safe. By using safety lancets needle-stick injuries and infections can be minimized.¹⁰

* Clinically proven safety lancets of HTL-STREFA are available in a different versions to meet specific blood sample needs and address the variety of patients' skin types.^{1,3}



Key features for HTL-STREFA safety lancets:

Safe

- All needles are sterilized using irradiation and protected with protective cap
- Fully enclosed needle housing ensuring that needle is hidden before and after use to prevent sharps injuries
- Self-destructing mechanism preventing reuse of the device

Comfortable:

- Silicone-coated, ultra-sharp needles, ideally positioned during skin penetration
- Various, color-coded product versions to meet specific blood sample applications and address the variety of patient skin types
- Wide range of designs providing simple, comfortable and secure puncture

Simple: ^{11, 12}

- Easy to handle, intuitive activation in 2 steps only with no pre-loading, for both push button and contact activations
- Wide and long safety cap for easy removal – simply twist and pull to remove the needle cover
- Precise designs for convenient finger positioning and ideal blood sample collection



MEDLANCE® PLUS


USERS:



PRODUCT INTENDED USE

Medlance® Plus safety lancets are sterile, single-use medical devices intended for capillary blood sampling. Intended users are healthcare professionals.

AVAILABLE IN FIVE VERSIONS:

Product version					
	Needle gauge / blade	Penetration depth			
	Medlance® Plus Super Lite	Medlance® Plus Lite	Medlance® Plus Universal	Medlance® Plus Extra	Medlance® Plus Special
	30G needle	25G needle	21G needle	21G needle	0.8 mm blade
	1.2 mm	1.5 mm	1.8 mm	2.4 mm	2.0 mm

KEY FEATURES

Variety of versions

Variety of versions and clear color coding to meet all patient and healthcare professionals needs ¹³

Clear color coding for correct product size distinction ¹⁴

Compact body

Contact activation, no pre-loading required ¹³

Two-step operation means minimal training required for healthcare professionals and time dedicated to perform blood test ¹³

Needle retraction mechanism designed to prevent accidental punctures before and after use ¹⁵

Product size makes it easy to handle ^{1, 11}



ERGOLANCE®

USERS:



PRODUCT INTENDED USE

ergoLance® safety lancets are sterile, single-use medical devices intended for capillary blood sampling.

Intended users are healthcare professionals and lay users.

AVAILABLE IN THREE VERSIONS:

Product version

Needle gauge / blade

Penetration depth



**ergoLance®
Micro Flow**

30G needle

1.5 mm



**ergoLance®
Normal Flow**

25G needle

1.8 mm



**ergoLance®
High Flow**

21G needle

2.0 mm

KEY FEATURES

Ergonomy

No release button. Gentle pressure activation ^{12, 13, 16}

Concave housing for comfortable finger recess maximizes ergonomics ^{12, 13, 16}

Special lancet shape may distract attention from the needlestick ^{12, 13, 17, 18}

Precision

Precise placement on the test site is allowed by the clear visual guiding: the arrow indicates movement of the device towards the puncture site ¹²

Ribbed protective cap guarantees needle sterility and gives a secure grip for easy twist-off removal ^{13, 16}



ACTI-LANCE®

USERS:



PRODUCT INTENDED USE

Acti-Lance® safety lancets are sterile, single-use medical devices intended for capillary blood sampling. Intended users are healthcare professionals and lay users.

AVAILABLE IN SIX VERSIONS:

Product version	Needle gauge / blade	Penetration depth						
								
			Acti-Lance® Life	Acti-Lance® Universal	Acti-Lance® Normal	Acti-Lance® Extra	Acti-Lance® Fine	Acti-Lance® Special
			28G needle	23G needle	21G needle	21G needle	17G blade	17G blade
			1.5 mm	1.8 mm	1.8 mm	2.4 mm	1.0 mm	2.0 mm

KEY FEATURES

Safety

Fully enclosed needle housing to prevent sharps injuries ^{12, 19, 20}

Long protective cap for easy removal ^{11, 19, 20}

Protective cap ensures sterility of the lancet ^{19, 20}

Comfort

Comfortable finger surface for push-button activation ¹⁹

T-shape for firm and intuitive grip ^{11, 12}

Wide lancet end enables precise and convenient positioning on the test site ^{11, 12}



HAEMOLANCE® PLUS

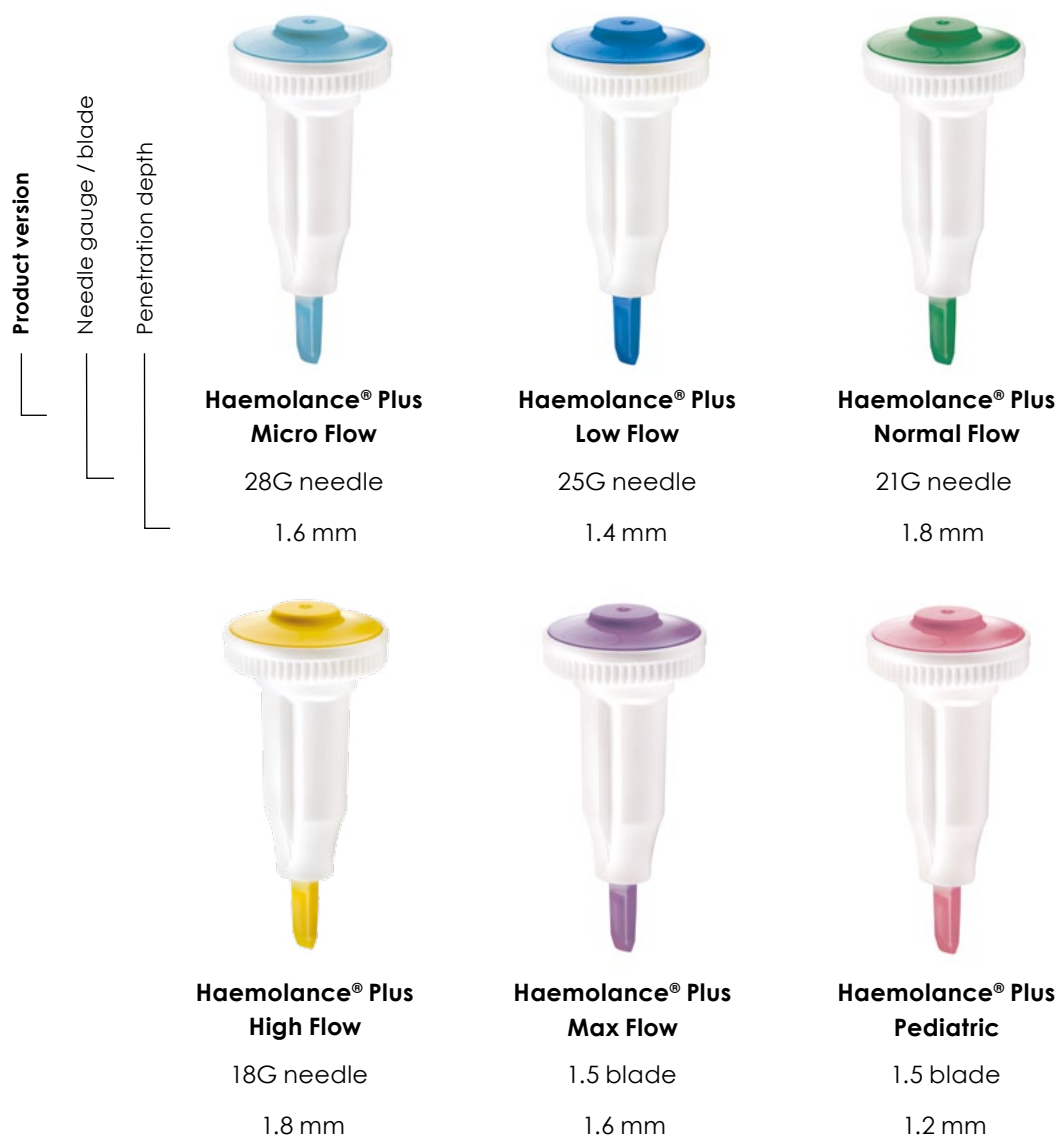
USERS:



PRODUCT INTENDED USE

Haemolance® Plus safety lancets are sterile, single-use medical devices intended for capillary blood sampling. Intended users are healthcare professionals.

AVAILABLE IN SIX VERSIONS:



KEY FEATURES

Quality

High quality
product
appearance

Guide marks
denote sample
point for adequate
placement on the
test site ^{12, 21}

Handy design

Comfortable finger
recess for push-button
activation ¹²

Ergonomic shape with
extra ribs for a firm and
non-slip grip ¹²

Protective cap
guarantees
needle sterility ^{21, 22}

Ribbed protective
cap offers
a secure grip ²²



MEDISAFE® SOLO

USERS:



PRODUCT INTENDED USE

MediSafe® Solo safety lancets are sterile, single-use medical devices intended for capillary blood sampling. Intended users are healthcare professionals.

AVAILABLE IN THREE VERSIONS:



KEY FEATURES

Lite

Lite product design and geometry of the needle provides adequate blood sample ^{1, 23}

Simple

Flat push-button activation with extra ribs for comfortable finger placement ^{1, 23}

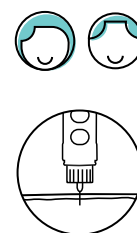
Ergonomic shape with extra side wings for a firm grip ^{1, 23}

Long protective cap guarantees needle sterility and gives a secure grip for easy twist off removal ^{1, 23}



DROPLET® PEN NEEDLES

USERS:



PRODUCT INTENDED USE

are sterile, single use medical devices intended for use with pen injector devices for the subcutaneous injection of drugs by healthcare professionals and lay users. droplet® pen needles are compatible with most insulin pens available on the market:

www.htl-strefa.com

AVAILABLE IN NINE VERSIONS:



*Version 34Gx3,5mm is available on US and Canada market only.

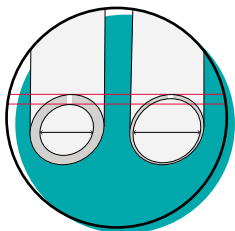
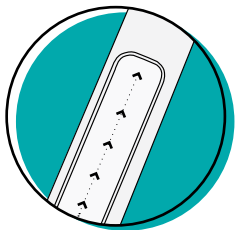
KEY FEATURES

Our pen needles proactively address: ³⁰

- easy adjustment
- greater convenience
- quick and comfortable use

Smart

Thin wall with bigger inner diameter provides fast and adequate insulin flow ⁴⁰



Simple

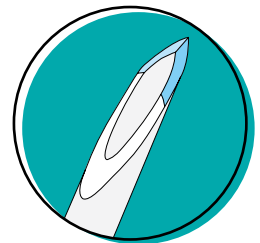
Easy adjustment of pen needle on pen injector ²⁹

Outer cap shape with ribs to remove the protective cap ³¹



Soft

Precise 3-bevel grinding designed for smooth and gentle injection ²⁹

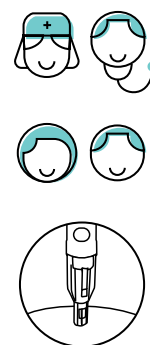


Unique „in-house“ lubrication method DROPLICON™ for smooth and gentle injection ³⁰



DROPSAFE® SAFETY PEN NEEDLES

USERS:

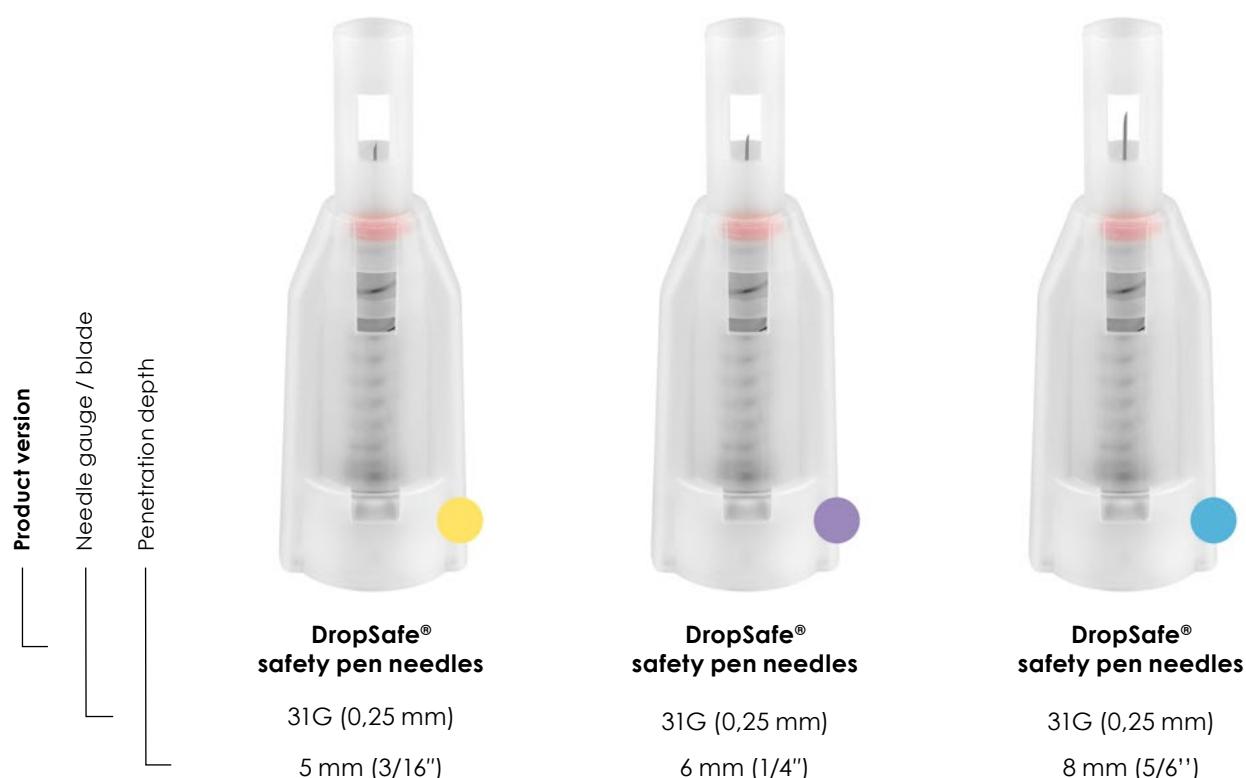


PRODUCT INTENDED USE

DropSafe® safety pen needles are sterile, single-use safety needles intended for use with pen injector devices for the injection of drugs. **DropSafe®** safety pen needles can be used by healthcare professional users and lay users.

DropSafe® safety pen needle work with most pen injectors available on the market: www.htl-strefa.com

AVAILABLE IN THREE VERSIONS:



KEY FEATURES

Safety³²

Safety before and after injection

Needle safely contained behind shield, preventing accidental exposure

Lock-out confirmation

Red stripe appears when the needle is used and locked out

Ease of use

DropSafe® safety pen needles work with most pen injectors available on the market³⁶

Just screw it on the pen, inject and dispose.

Comfort

Special and unique "in-house" lubrication method – DROPLICON™ designed for smooth injection³³

Hidden needle

The needle remains hidden from the view, which may increase patient comfort³³

Accuracy

Needle viewing window

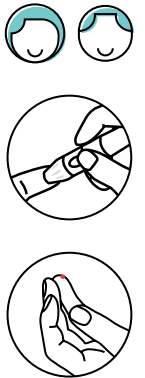
For easy confirmation of drug flow (priming)³⁴

Thin wall (31G) may allow an easier and faster injection of the drug.³⁵



DROPLET® PERSONAL LANCETS

USERS:

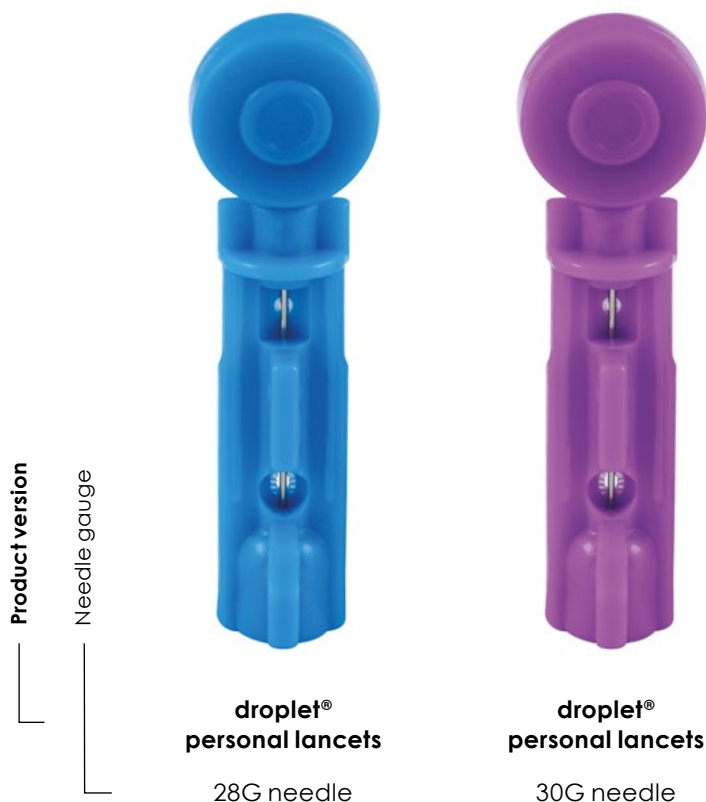


PRODUCT INTENDED USE

droplet® personal lancets are sterile, single-use medical devices intended to be used with a lancing device by lay users for capillary blood sampling.

droplet® personal lancets are recommended to be used with droplet lancing device, however they are compatible with the majority of lancing devices available on the market. See the compatibility statement for more information - www.htl-strefa.com

AVAILABLE IN TWO VERSIONS:



KEY FEATURES

Safe

Needles are equipped with a protective needle cap

Needles are sterilized using irradiation

Compatible

Can be used with the most popular lancing devices³⁸

Recommended for patients with different skin types²

Comfortable

Electro-polished, silicone coated needle designed to cause less pain³⁷

3-beveled needle tip designed for greater comfort of users³⁷

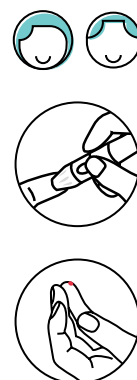
Easy to use

User-friendly design, easy to handle



DROPLET® LANCING DEVICE

USERS:



PRODUCT INTENDED USE

droplet® lancing device is a medical device for multiple use with sterile, single-use lancets intended for capillary blood sampling by a lay person.

KEY FEATURES

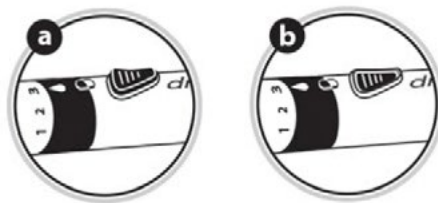
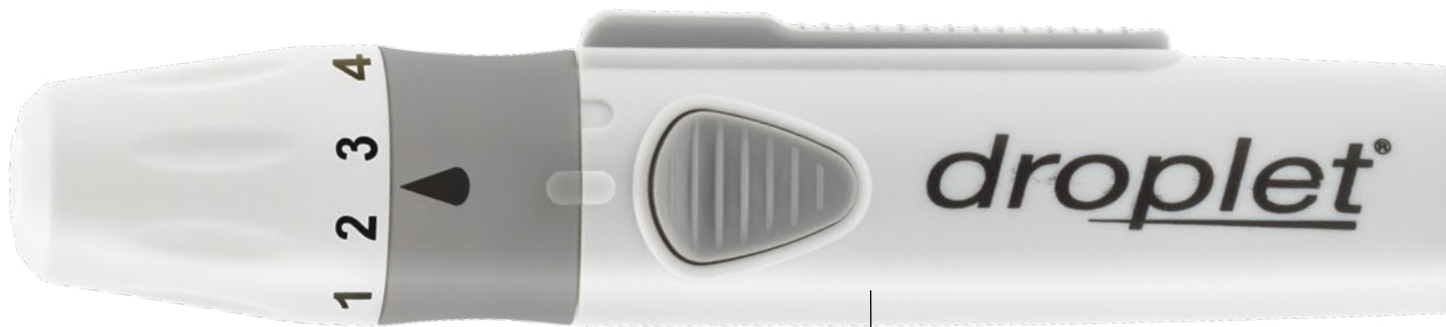
Personalized

5 levels of skin penetration for individual user's comfort ³⁹



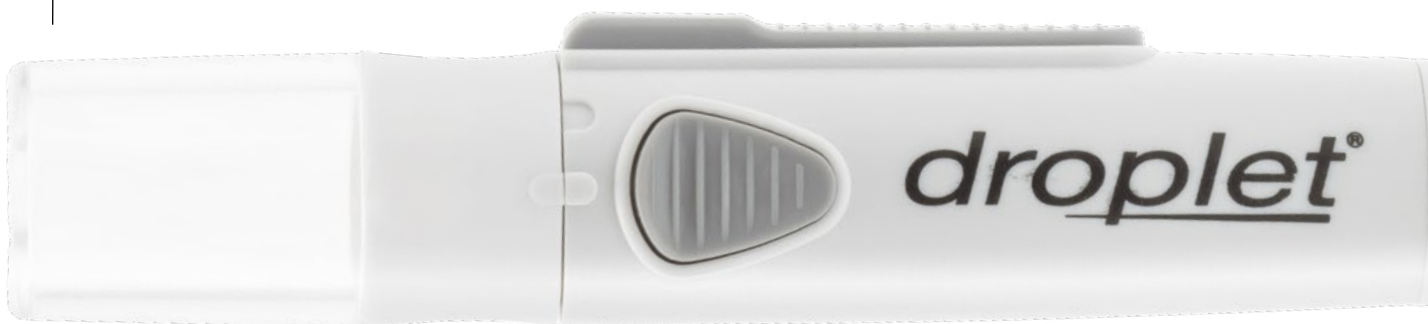
Safe

Specially designed
ejection system
to remove used
lancets ³⁹


























Visible difference between
loaded (a) and unloaded
(b) lancing device ³⁹

Additional
transparent cap for
AST (Alternate Site
Testing) ³⁹



ALL PRODUCTS










SAFETY LANCETS

	Type	Product version	Needle gauge / blade	Penetration depth	
* INTENDED USERS: HEALTH CARE PROFESSIONALS & LAY USERS					
ERGOLANCE®		contact activation	Micro Flow	30G needle	1.5 mm
		contact activation	Normal Flow	25G needle	1.8 mm
		contact activation	High Flow	21G needle	2.0 mm
ACTI-LANCE®		push button	Life	28G needle	1.5 mm
		push button	Universal	23G needle	1.8 mm
		push button	Normal	21G needle	1.8 mm
		push button	Extra	21G needle	2.4 mm
		push button	Fine	17G blade	1.0 mm
		push button	Special	17G blade	2.0 mm
* INTENDED USERS: HEALTH CARE PROFESSIONALS					
MEDLANCE® PLUS		contact activation	Super Life	30G needle	1.2 mm
		contact activation	Life	25G needle	1.5 mm
		contact activation	Universal	21G needle	1.8 mm
		contact activation	Extra	21G needle	2.4 mm
		contact activation	Special	0.8 mm blade	2.0 mm
HAEMOLANCE® PLUS		push button	Micro Flow	28G needle	1.6 mm
		push button	Low Flow	25G needle	1.4 mm
		push button	Normal Flow	21G needle	1.8 mm
		push button	High Flow	18G needle	1.8 mm
		push button	Max Flow	1.5 blade	1.6 mm
		push button	Paediatric	1.5 blade	1.2 mm
MEDISAFE® SOLO		push button	MediSafe Solo®	29G needle	1.5 mm
		push button	MediSafe Solo®	28G needle	1.5 mm
		push button	MediSafe Solo®	23G needle	2.0 mm

* Some types of the safety lancets have different intended users.




* INTENDED USERS: LAY USERS

DROPLET® PEN NEEDLES

	droplet® pen needle	29G needle	12 mm
	droplet® pen needle	31G needle	5 mm
	droplet® pen needle	31G needle	6 mm
	droplet® pen needle	31G needle	8 mm
	droplet® pen needle	32G needle	4 mm
	droplet® pen needle	32G needle	5 mm
	droplet® pen needle	32G needle	6 mm
	droplet® pen needle	32G needle	8 mm
	droplet® pen needle	34G needle	3.5 mm



* INTENDED USERS: HEALTH CARE PROFESSIONALS & LAY USERS

DROPSAFE® SAFETY PEN NEEDLES

	DropSafe® safety pen needles	31G needle	5 mm
	DropSafe® safety pen needles	31G needle	6 mm
	DropSafe® safety pen needles	31G needle	8 mm

* INTENDED USERS: LAY USERS

DROPLET® PERSONAL LANCETS

	droplet® personal lancet	28G needle
	droplet® personal lancet	30G needle

* INTENDED USERS: LAY USERS

DROPLET® LANCING DEVICE



Available with additional AST cap

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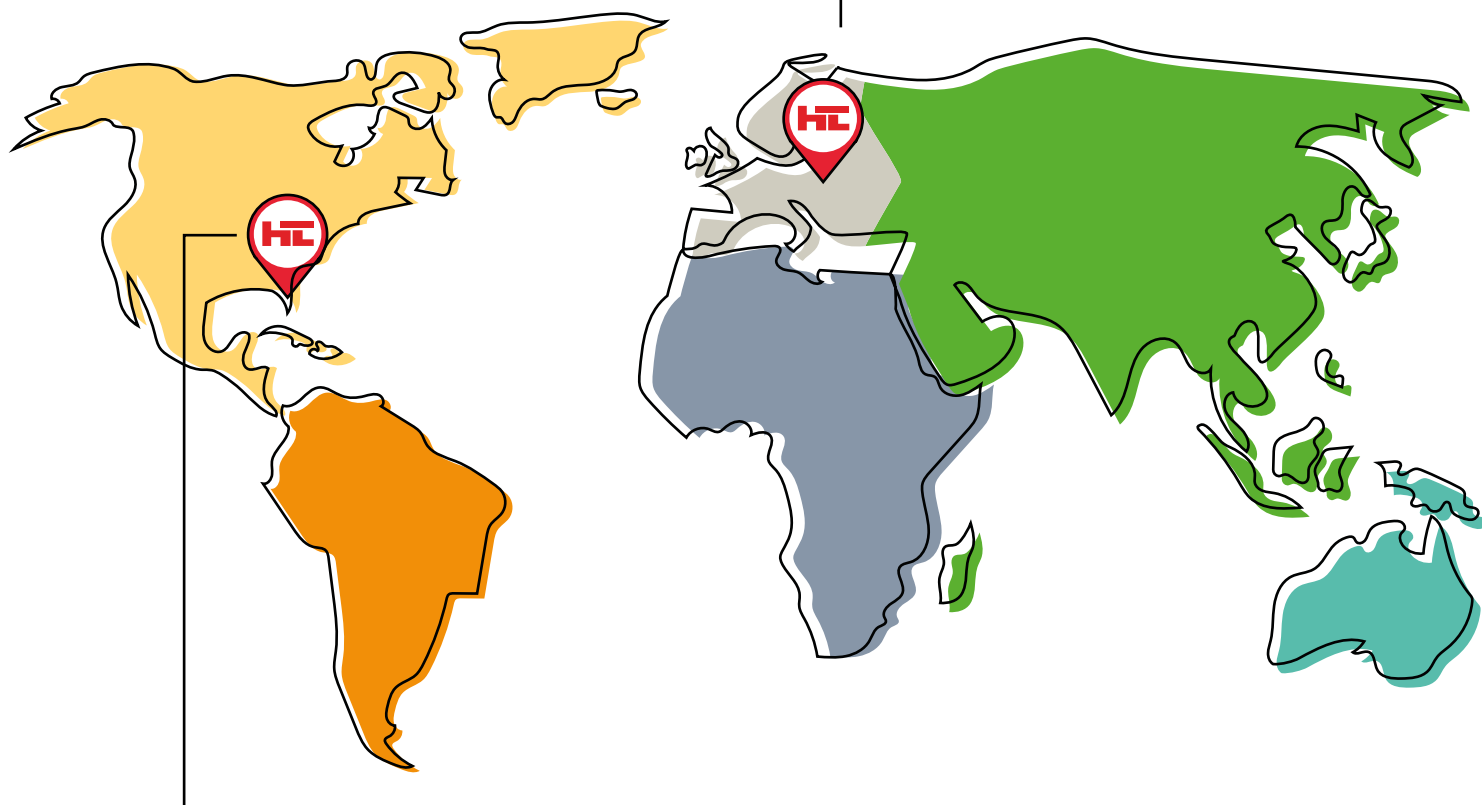
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