



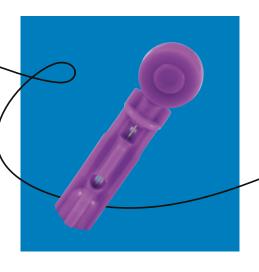




PRODUCT PORTFOLIO

& COMPANY INFORMATION

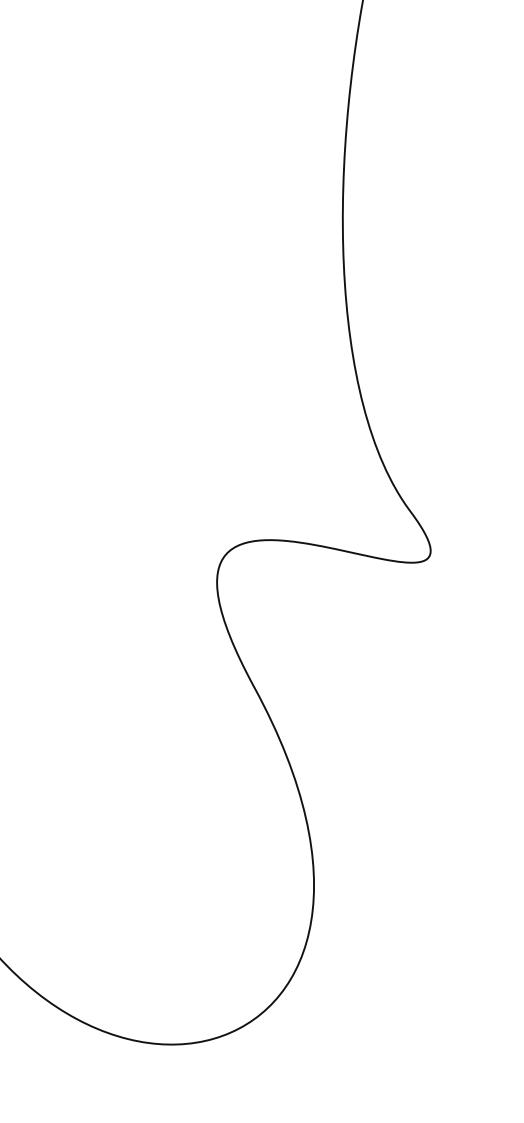












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COMPANY PROFILE

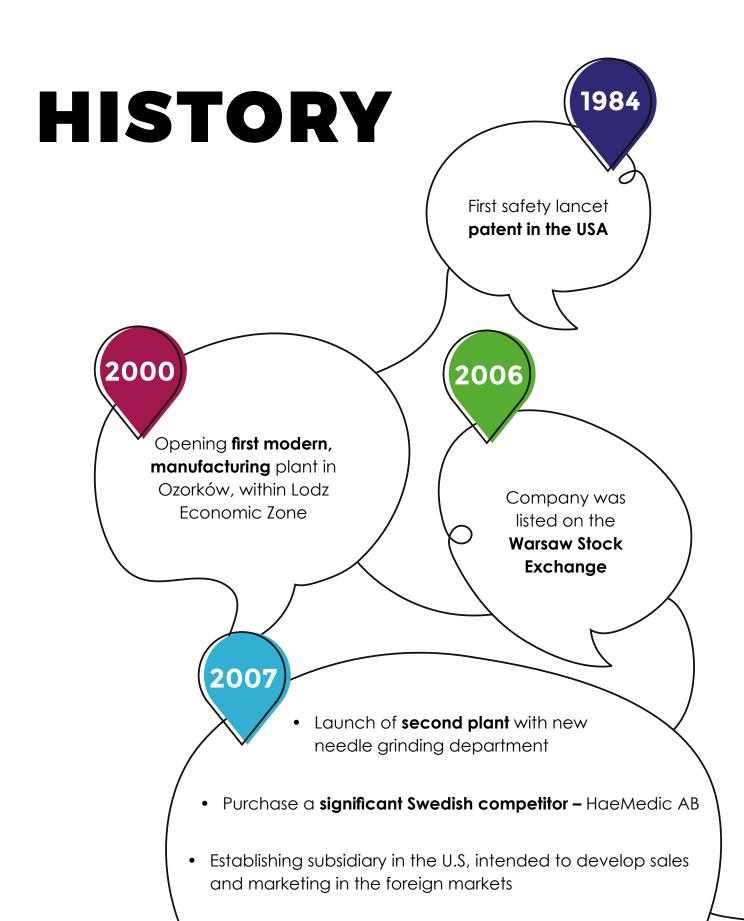
HTL-STREFA S.A. (HTL-STREFA) a company of MTD Medical Technology and Devices*, is a world-leading medical device company that develops, manufactures and sells safety lancets, personal lancets, safety pen needles and pen needles for drug injection. Our modern manufacturing process and more than 20 years of experience in the global market allows us to successfully ensure top quality, safety, convenience and reliability.

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.

Over 20 years of experience

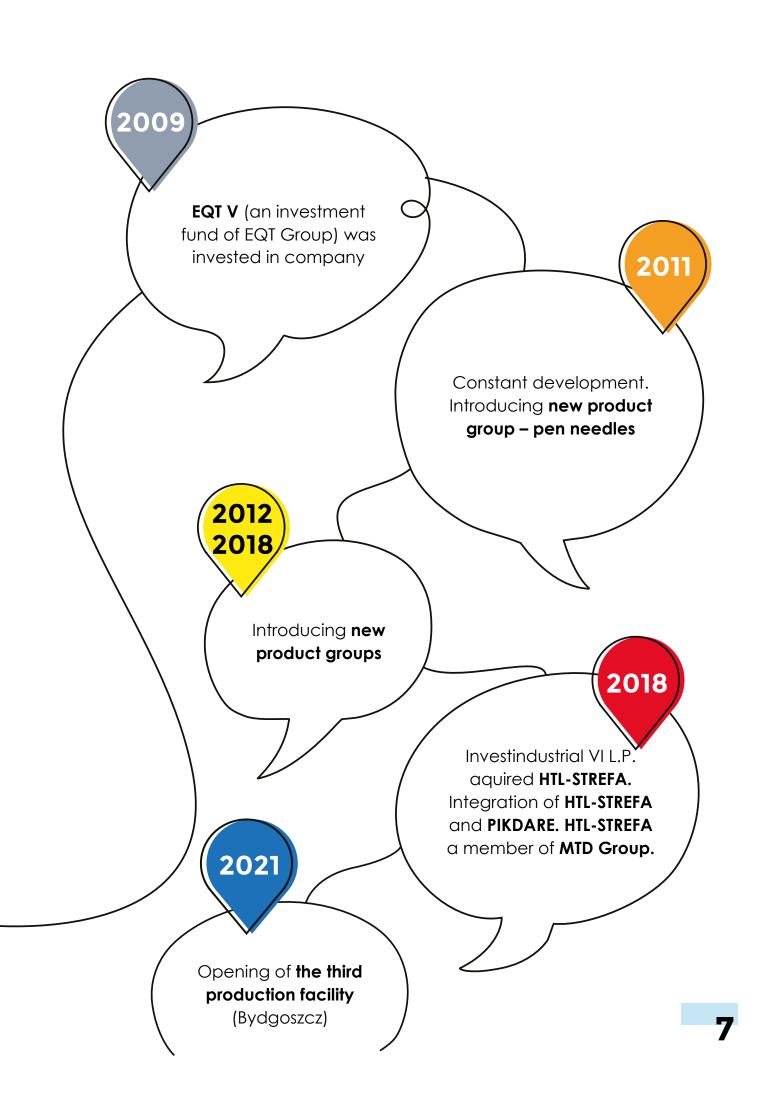


We employ a continuous improvement strategy to analyze and update products. We are implementing and launching new solutions to meet the changing needs of patients and health care professionals. Our internal SOPs ensure the required cleanliness of production. Additionally, the air cleanliness requirements 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.



Participation in the world production of safety

lancets exceeded 50%



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.

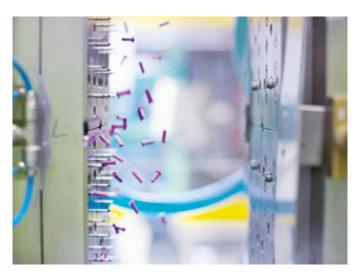


HTL-STREFA works in close cooperation with its customers and end users to exactly meet the market requirements. We maintain complete control over **quality and design for all aspects of each product.** Our team of committed designers and engineers constantly improve the quality of our products and processes,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





3 modern 7 production facilities

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.



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.





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.



QUALITY STANDARDS

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

HTL-STREFA PRODUCTS ARE SOLD IN OVER 80 COUNTRIES.

HTL-STREFA has maintained and improved the quality management system in accordance with the requirements of EN ISO 13485:2016, ISO 13485:2016 MDSAP. Our products are CE marked. We also comply with the regulations of FDA 21 CFR, Part 820, Part 806, Part 803. We are DEKRA certified (http://www.dekra-certification.com) in compliance with MDD 93/42/EEC as amended in 2007 (2007/47/EC).

HTL-STREFA

branded devices are registered in:

All EU countries

the USA

China

Russia

Korea

Brasil

Mexico

Thailand

Israel

Canada

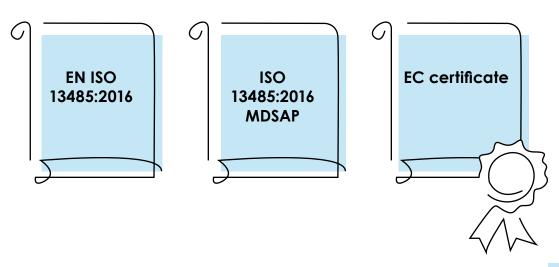
Turkey

United Arab Emirates

Australia



HTL-STREFA holds multiple certifications:



SUSTAINABLE DEVELOPMENT POLICY

HTL-STREFA by promoting unique and effective solutions related to public health, focuses on business development considering the values of social, ethical and environmental responsibility.



HTL-STREFA develops its products in a responsible and sustainable way. Sustainable development is an integral part of our activity – now and in the future. By supplying patients and healthcare professionals with innovative products, HTL-STREFA contributes to the protection of life and health.





We are aware that success of a company depends on the condition of the surroundings in which it operates, thus we aspire to maintain balance with regard to three goals: **business, community, and the environment.**

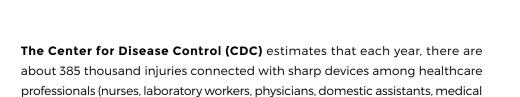


Three goals: BUSINESS COMMUNITY ENVIRONMENT



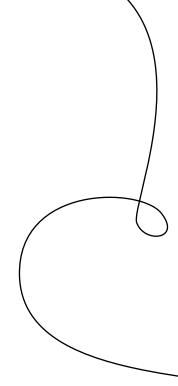
WE CARETM PROJECT

The driving force for the creation of **We Care™** project was our concern for safety and the comfort of people with diabetes and healthcare professionals.



In our company, we take advantage of over 20 years of market experience and know-how gathered over the years of cooperation with our clients. Our products are designed to care about the safety and comfort of their users. **We CareTM** is our contribution into simplification of disease prevention, diagnostics and treatment. We want to **care for the health** of our products users in all aspects. We want to increase the awareness of risks that can arise from improper diabetes monitoring and injuries with sharp objects among healthcare professionals.

students and other healthcare workers).







CORPORATE SOCIAL RESPONSIBILITY

HTL-STREFA has been involved in supporting the health service sector for many years. We strongly believe in social responsibility to the communities in which we live and work and to the environment around us. We are committed to corporate social responsibility (CSR) and we encourage all our employees to support HTL-STREFA CSR initiatives.

Product support – screening during various events in Poland



SZLACHETNA PACZKA (NOBLE GIFT) 2016





ZDROWIE POD KONTROLA (HEALTH UNDER CONTROL) product support for the project of the International Association of Medical Students

Our running team - HTL-STREFA RUNNERS (Ekiden)



WE ARE COMMITTED TO CORPORATE SOCIAL RESPONSIBILITY



Sponsoring trips of the Polish Diabetics Team for the DiaEuro 2018 European Futsal Championship

EDUCATION

Our **promotional and educational** materials help our product users and health care professionals to gain the necessary knowledge and support. We want to **care for the health** of our products users in all aspects. We want to increase the awareness of risks that can arise from **improper diabetes monitoring and injuries** with sharp objects among healthcare professionals. We are constantly **developing new tools** to provide them knowledge and help them to improve their everyday life.













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 "DID YOU KNOW?" section. https://htl-strefa.com/htl-strefa-care/did-you-know/)

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...

RESEARCH

Diabetes Managment

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

Gaiane Żurawska

ABSTRACT

Introduction

Randomised controlled trial is a specific type of so and the gold standard for a clinical trial. RCTs are a efficacy or effectiveness of various types of medica a patient population. RCTs may also provide an or useful information about adverse effects.

In recent years the performance and accuracy

Marketing Director, HTL-STREFA, Poland

Journal of Medical Laboratory and Diagnosis



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 Zurawska, Karolina Banys* and Justyna Morozowska

The aim of the study is to determine and measure the blood volume as well as level of pain of the study volunteers after being punctured with different safety lancets (varying sizes) from 20 s to 2 m. Blood sample

liagnosis, to determine health 300 subjects were punctured 4 each puncture their blood was me calculated. After...

Journal of Infection Prevention 1 –9



DropSafe safety pen needle helps to prevent accidental needlestick after injections: results of a simulated clinical study

Mariusz Malinowski, Anna Serafin and Aleksandra Prazmowska-Wilanowska

Abstract

Background: Most needlestick injuries (NSIs) result from unsafe needle devices. DropSafe safety pen needle (SPN) was designed to help prevent such injuries before, during and after use through a built-in sharps injury prevention feature (SIPF).

Methods: A two-phase study was undertaken. For the pilot study, five non-healthcare users (NHCUs) performed evaluations. For the validation study, 30 evaluators comprising 10 healthcare professionals (HCPs)...

Date received: 2 December 2019; accepted: 12 July 2020

DIABETES PANDEMIC

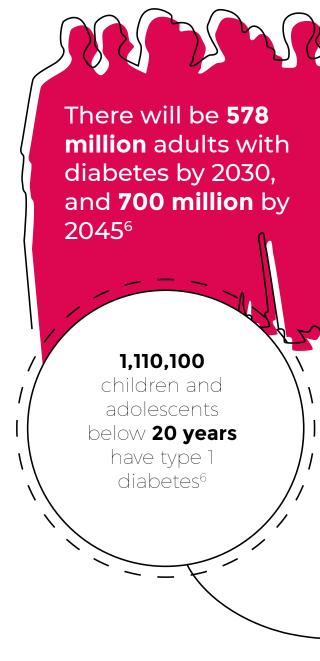
Diabetes is a **global epidemic** affecting as estimated **463 million people worldwide.** According to "Global status report on noncommunicable diseases 2010", published by World Health Organization, diabetes will be the 7th leading cause of death by 2030. As estimated **4 million** people die annually from diabetes complications.⁶

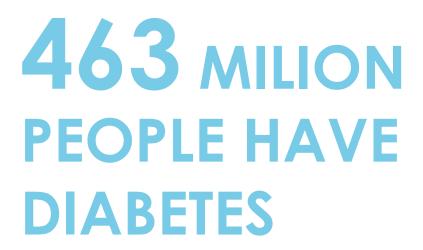
Why is diabetes such a dangerous disease?

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.





People with **type 2**diabetes can remain
undiagnosed for many
years, unaware of the

LONG-TERM DAMAGE

being caused by the disease⁶

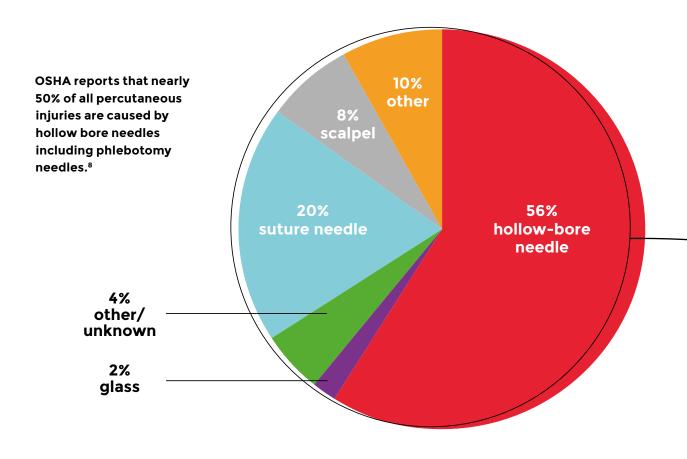
The number of people with type 2 diabetes is increasing in every country⁶

almost 232 milion

people with diabetes are undiagnosed⁶ 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.



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:

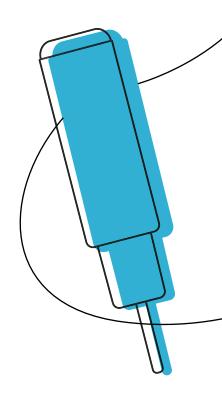
- Dual-spring design to ensure complete needle retraction
- Full housing to prevent needle exposure before and after activation
- Auto-disabling mechanisms to prevent lancet re-use



PRODUCTS

SAFETY LANCETS

Medlance® Plus
ergoLance®
Acti-Lance®
Prolance®
Haemolance® Plus
MediSafe® Solo



PEN NEEDLES

droplet® Pen Needles

SAFETY PEN NEEDLES

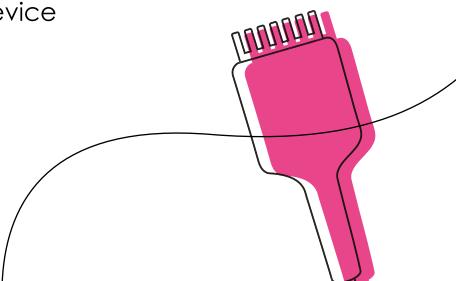
DropSafe® Safety Pen Needles

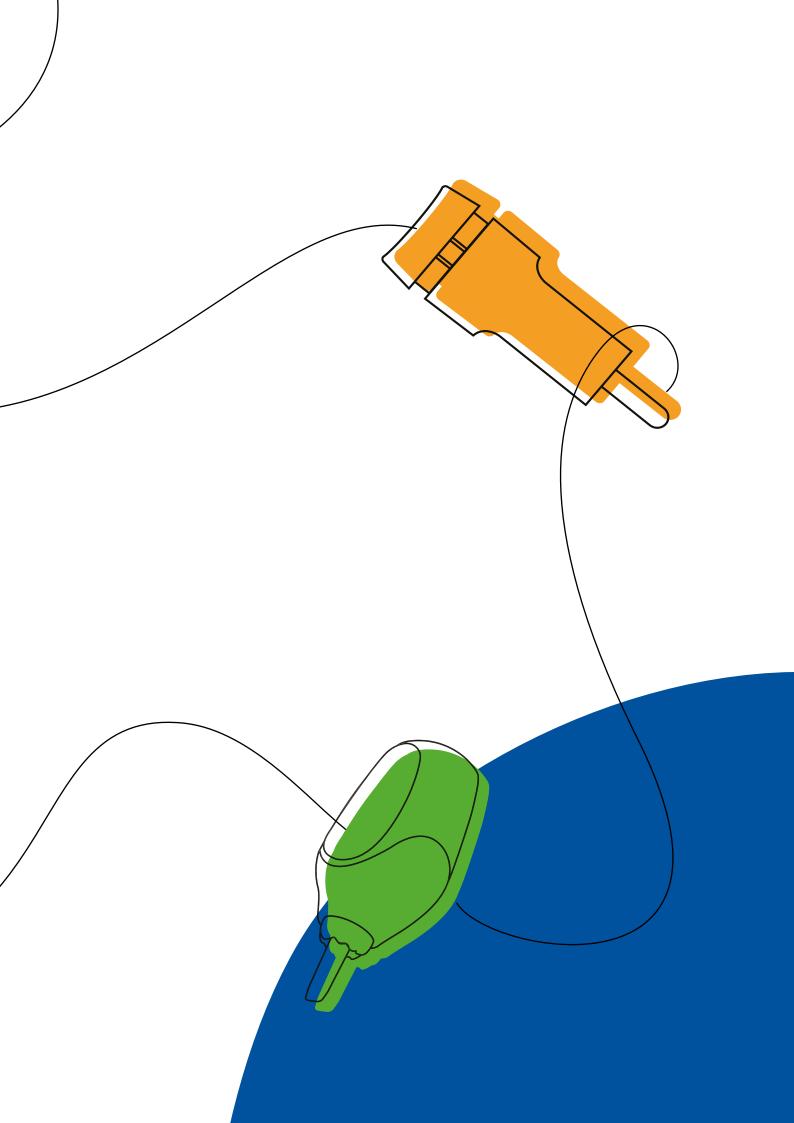
PERSONAL LANCETS

droplet® Personal Lancets

LANCING DEVICE

droplet® Lancing Device





SAFETY LANCETS

Safety lancets are sterile, single-use devices intended for the capillary blood sampling. Depending on the safety lancets type intended users are healthcare professionals (Medlance® Plus; ergoLance®; Acti-Lance®; Prolance®; Heamolance® Plus; MediSafe® Solo) 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 a sterility tab
- 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: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:



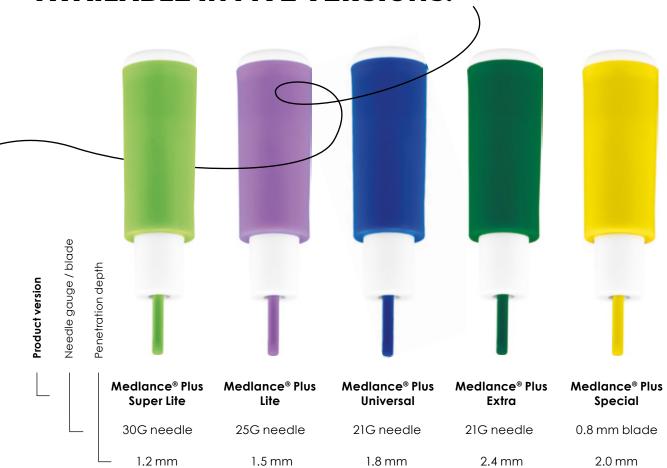


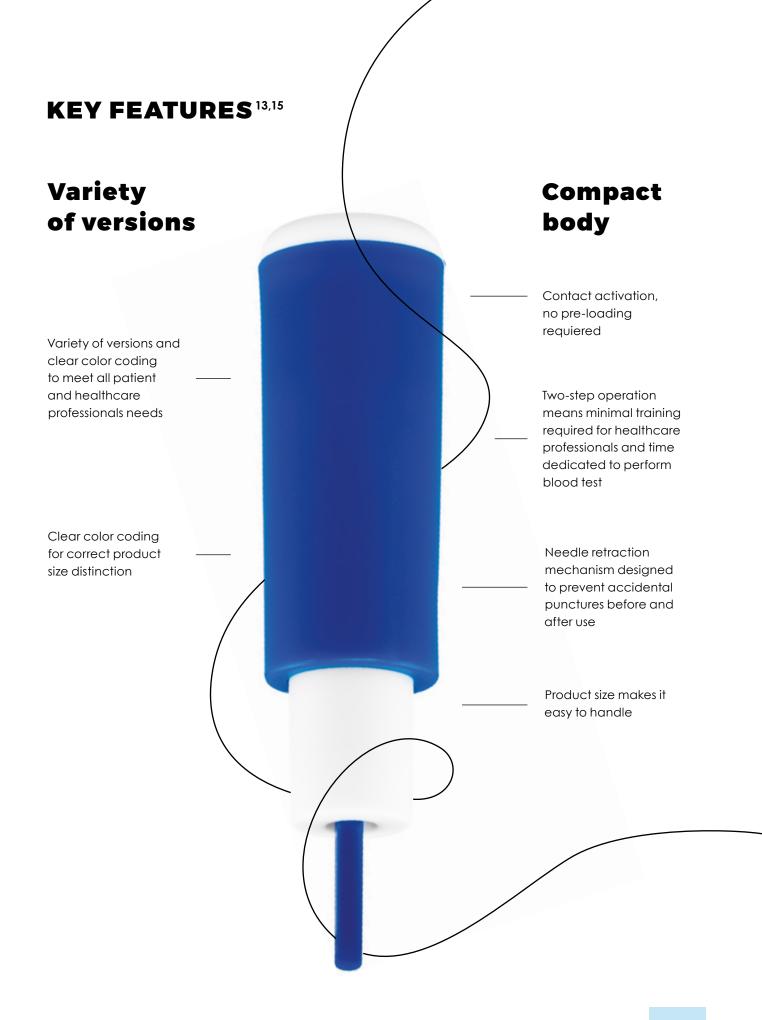


PRODUCT INTENDED USE

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

AVAILABLE IN FIVE VERSIONS:





ERGOLANCE®

USERS:









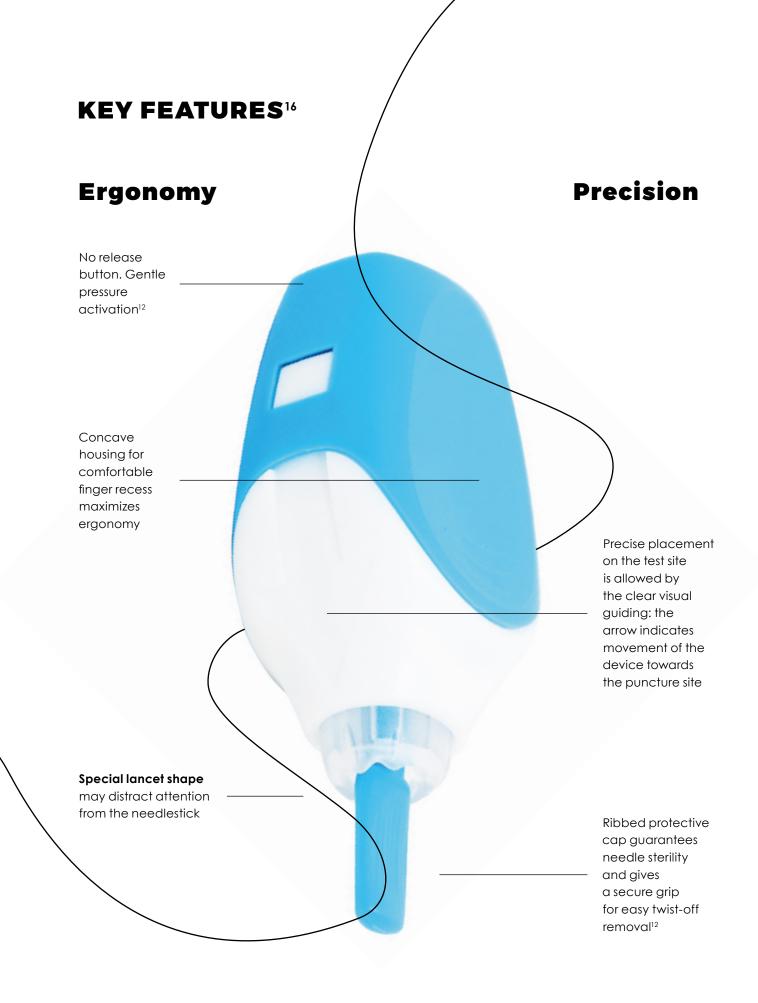
PRODUCT INTENDED USE

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:





ACTI-LANCE®

USERS:







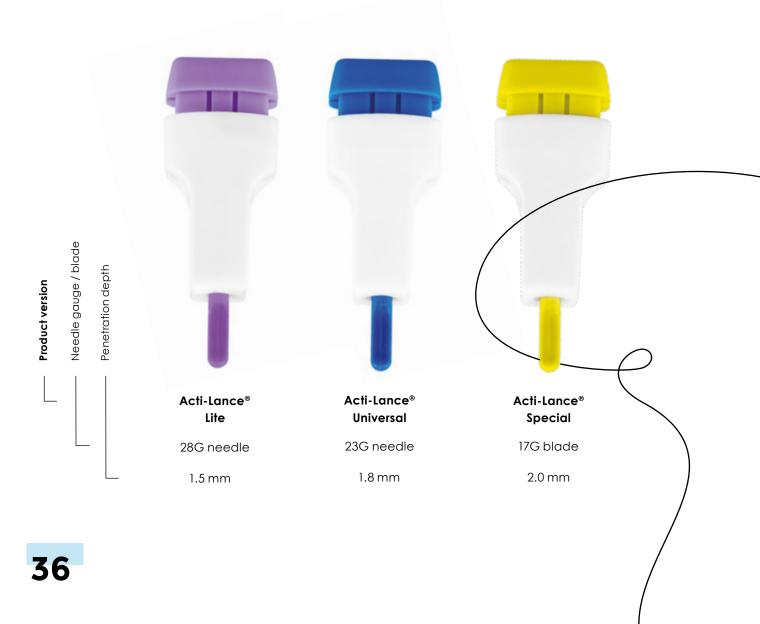




PRODUCT INTENDED USE

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 THREE VERSIONS:





PROLANCE®

USERS:

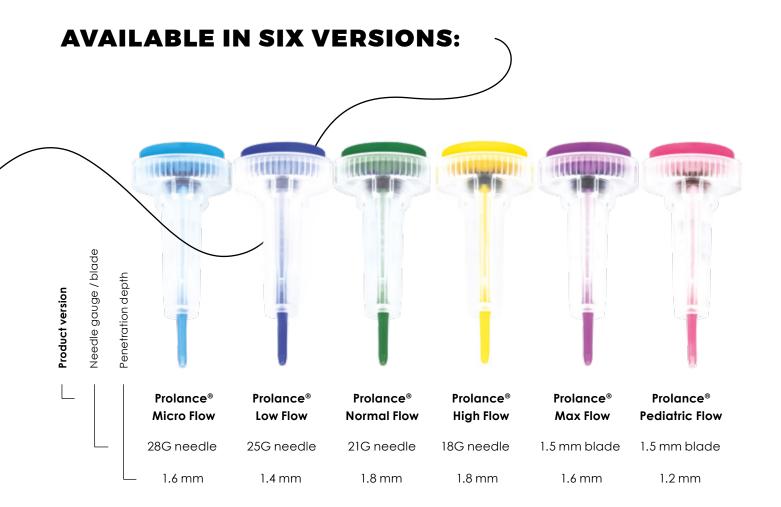






PRODUCT INTENDED USE

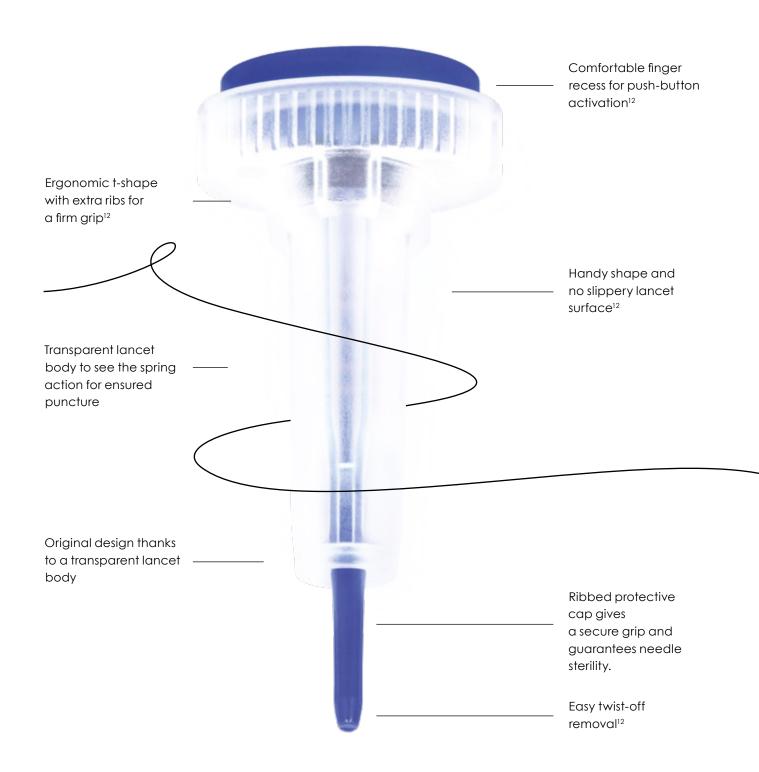
Prolance® safety lancets are sterile, single-use medical devices intended for capillary blood sampling. Intended users are healthcare professionals.



KEY FEATURES19

Transparency

Accuracy



HAEMOLANCE® PLUS

USERS:



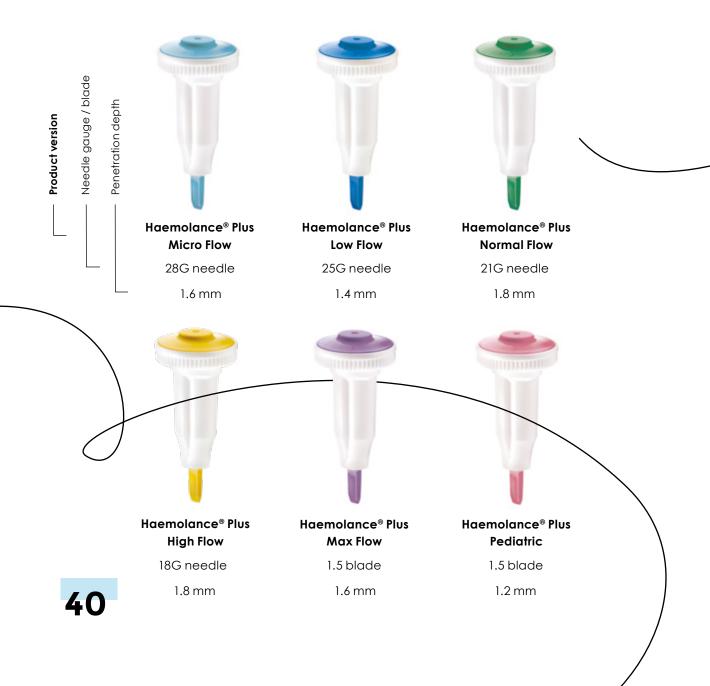




PRODUCT INTENDED USE

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 FEATURES²⁰

Quality Handy design Comfortable finger recess for push-button activation²¹ High quality product appearance Ergonomic shape with extra ribs for a firm and non-slip grip¹² Guide marks denote sample point Protective cap for adequate guarantees placement needle sterility on the test site Ribbed protective cap offers a secure grip

MEDISAFE® SOLO

USERS:

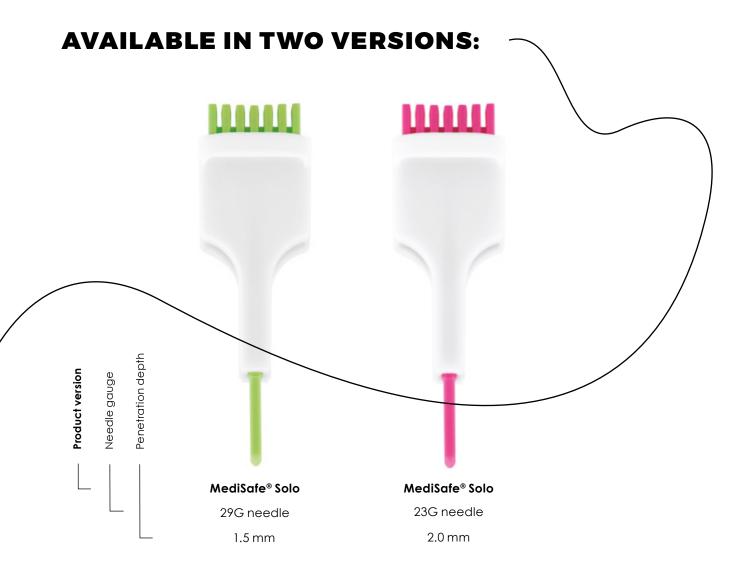


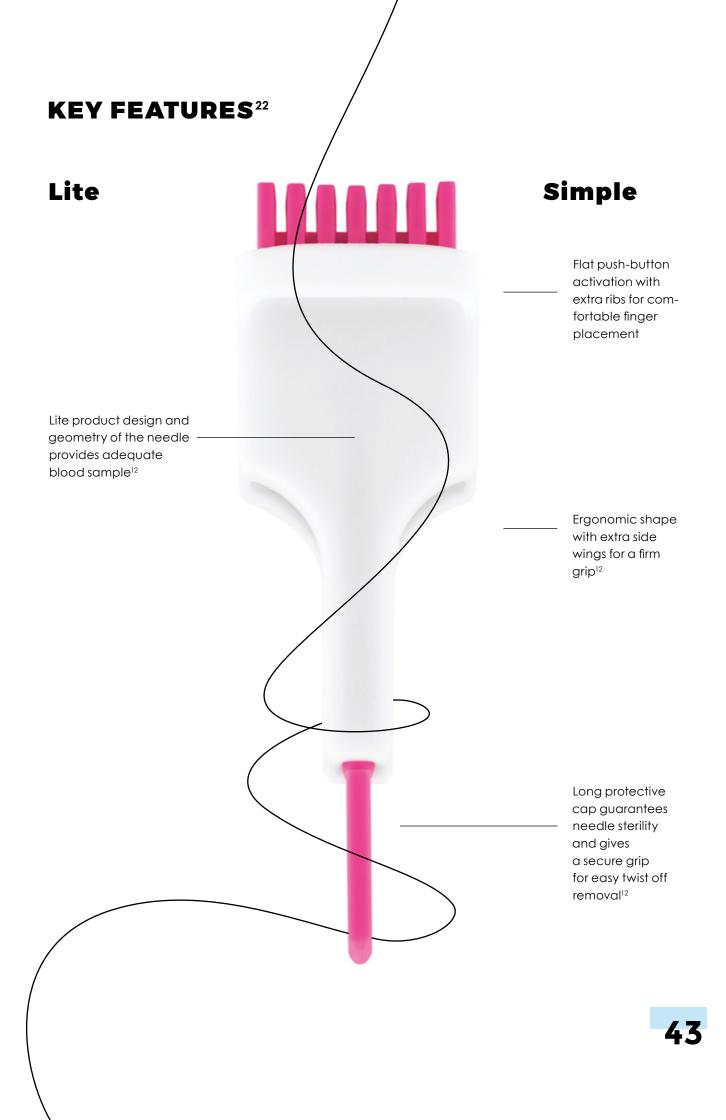




PRODUCT INTENDED USE

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





SAFETY LANCETS LANCING TECHNIQUE & LANCING PROCEDURE FOR CAPILLARY BLOOD SAMPLING

HTL-STREFA developed a lancing procedure that has been clinically proven & increases the expected blood volumes by reducing pain perception at the same time.11

This procedure for capillary blood lancing technique was confirmed by the results of the Clinical Studies conducted by HTL-STREFA.^{1,11}

This material also follows The World Health Organization guideline and Global recommendations for capillary blood sampling.25,26

GOALS which you can achieve by using the recommended lancing technique:

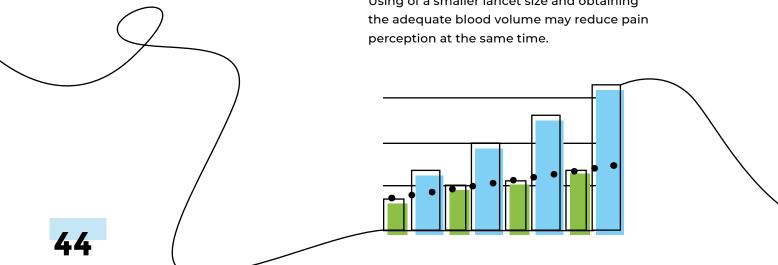
Efficacy

Adequate blood samples for chosen version of the lancet (depending on the type of the lancet - from a few µl up to 150 µl).

Convenience

May minimize pain perception during and after lancing.1

Using of a smaller lancet size and obtaining perception at the same time.



SAFETY LANCETS LANCING PROCEDURE CAN BE DIVIDED INTO PHASES AND STEPS: 25,27

Prelancing

- · Select hand and finger to be lanced. Area to be chosen fingertip, palmar surface of the distal segment of the middle or ring finger. (Ref. Picture 1)
- Massage the test site for a full 30 seconds.
- · Disinfect the selected site and allow disinfectant to evaporate from the skin.

Lancing

- · Place the safety lancet on the prepared test site and inform the patient of the imminent puncture. Activate the device.*
- · Collect the required blood sample.

For bigger blood samples gently press the fingertip during blood collection. Do not milk the site to avoid hemolysis and contamination of sample.

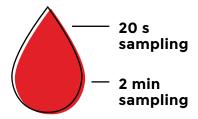
- *1. If contact safety lancet: activate the device by simply pushing the lancet on the finger.
- 2. If push-button: activate the device by simply pressing the push-button on the top of the device.

Post lancing

- · Protect the test site by sterile gauze pad.
- · After puncture, the device should be placed into an appropriate sharps container.











Recommended patient position during the whole lancing procedure:

seated, with the hand placed below the elbow level.

This is HTL-STREFA recommendation based on the experience from Clinical Studies.^{1,11}

DROPLET® PEN NEEDLES

USERS:



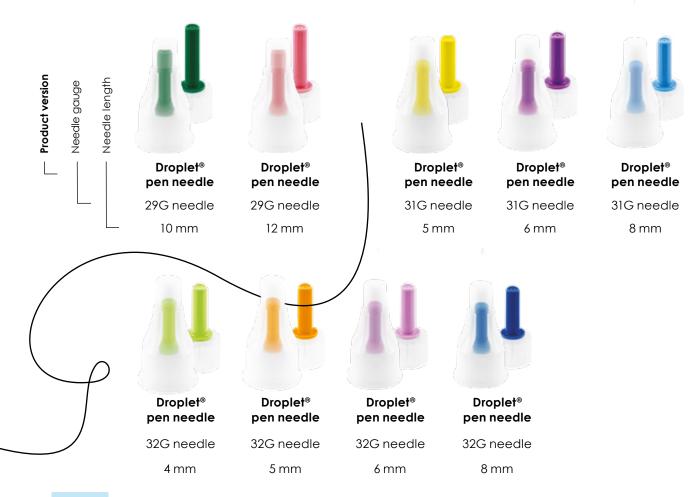


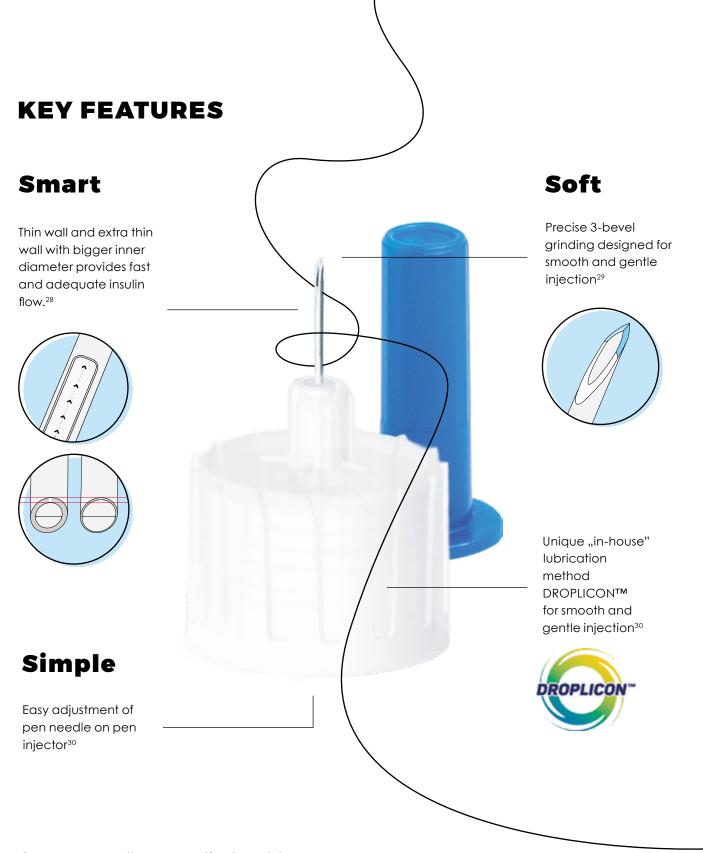
PRODUCT INTENDED USE

Sterile, single-use pen needles intended for use with pen injector devices for the subcutaneous injection of drugs.

Droplet® pen needles are compatible with most insulin pens available on the market: https://htl-strefa.com/products/penneedles/droplet-eu-for-patient/

AVAILABLE IN NINE VERSIONS:





Our pen needles proactively address:30

- easy adjustment
- greater convenience
- quick and comfortable use

DROPSAFE® SAFETY PEN NEEDLES

USERS:





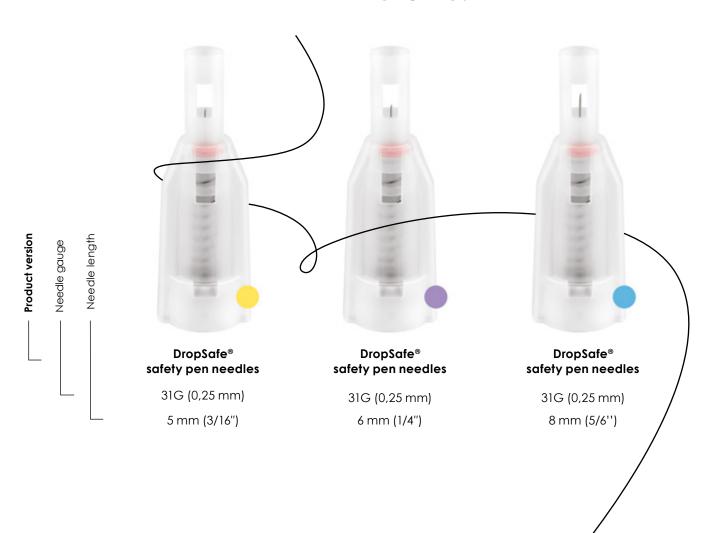


PRODUCT INTENDED USE

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: https://htl-strefa.com/products/safety-pen-needles/dropsafe/

AVAILABLE IN THREE VERSIONS:



KEY FEATURES



Comfort

Special and unique "in-house" lubrication method - DROPLICON™ designed for smooth injection30

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 quicker injection of the insulin, which can be of clinical relevance³²

use

DropSafe® safety pen needles work with most pen injectors available on the market³⁵

Just twist on, inject and dispose

INJECTION TECHNIQUES

PRACTICAL GUIDELINES& RECOMMENDATIONS

Injecting insulin is an essential part of the daily regime for many people with diabetes.

Diabetes education, especially in terms of proper insulin injection techniques is very important. Without it, the right type of insulin at the right dose might not necessarily give the right results.

Standards and good practice on **insulin injection technique** are essential for **health care professionals** (doctors, nurses) in order to **administer insulin correctly** and to **educate patients** or their relatives adequately.

The proper **injection technique** helps **diabetic patients** to achieve the best possible health outcomes by ensuring that the correct dose of medication is delivered to the correct injection site, using the correct needle size.





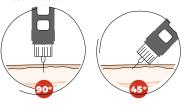
This educational material will provide you with information how to perform proper insulin delivery, how to choose needle gauge and size and also how to rotate injection site.

Lifting a skinfold A correct fold is made by lifting the skin with the thumb and index finger (possibly adding the middle finger), if the skin is lifted using the whole hand, muscle may be lifted as well as subcutaneous tissue, which can lead to intramuscular injections^{2.4}. However, how eedle size and rotate 1. Inst AN longer 0. Journ 3. Hours & Hold. D. Hoch. 1. If a like music believe Recommendations. Mayor Clin Proc. 2014. Sept 1/(9) 221-33. 1. Inst AN longer 0. Journ 3. Hours & Hold. D. Hoch. 1. If a like music believe Recommendations. Mayor Clin Proc. 2014. Sept 1/(9) 221-33. 1. Inst AN longer 0. Journ 3. Hours & Hold. D. Hoch. 1. If a like music believe Recommendations. Mayor Clin Proc. 2014. Sept 1/(9) 221-33. 1. Inst AN longer 0. Journ 3. Hours & Hold. D. Hoch. 1. If a like music believe Recommendations Mayor Clin Proc. 2014. Sept 1/(9) 221-33.

Injection sites The recommended injection sites are: Abdomen Thigh Buttock Upper arm² Abdomen Upper orm Buttock

Angle of needle entry / without skin fold • For the overage adult, the 4 mm pen peedles are

- For the average adult, the 4 mm pen needles are appropriate and can be injected at a 90-degree angle to the skin surface.
- Although in obese patients longer pen needle can be used
- Injection of drug to children without a skinfold is not recommended^{2,6,11}



 Rid AM, Tewogel G, Grassi G, Helmit J, Hicks D, Hirsch LJ, et al. New Insulin Delivery Recommendations. Mayo Clin Proc. 2016 5997 (1972)135.
 Donne T, Bongstad MJ, Deeb L, Jaross-Chobel P, Mungale L, Sabo B, Bratam T, Bartleiro T, Hanas R: International Society for Pediatric and Adjoince of Biobette. ISPAD Chincal Practice Comensus Guidelines 2014. Insulin treatment in children and adolescents with diabeter. Pediatri Call Agrics Sayo 2121-534.

Angle of needle entry / with skin fold

- Creating a skin fold is highly recommended for slim individuals and children⁶.
- Alternatively, insertion at a 45-degree angle is sensible. Both techniques can be combined.
- The use of a lifted skin fold or injection at a 45-degree angle is suggested whenever a pen needle longer than 6 mm is used^{2,11}.





2 Field AH, Reaguell C, Grassi G, Heimin S, Hicks D, Hisrach LJ, et al. New Installs Delawy Recommendations. Mary Clin Mee. 2008 645(9):15(14):146-16. Lycaso C, Obbot P, Munggale L, Sabos B, Uriclami T, Battellin D, Hanca R, International Society for B, Bargalado HJ, Leibbette. 1899 C Clinical Post Clinical Conference Good Confer

Injection Technique Guidelines and Recommendations are available on our website:

https://htl-strefa.com/products/penneedles/droplet-eu-for-patient/ https://htl-strefa.com/products/pen-

https://htl-strefa.com/products/penneedles/droplet-eu-for-health/

DROPLET® PERSONAL LANCETS

USERS:





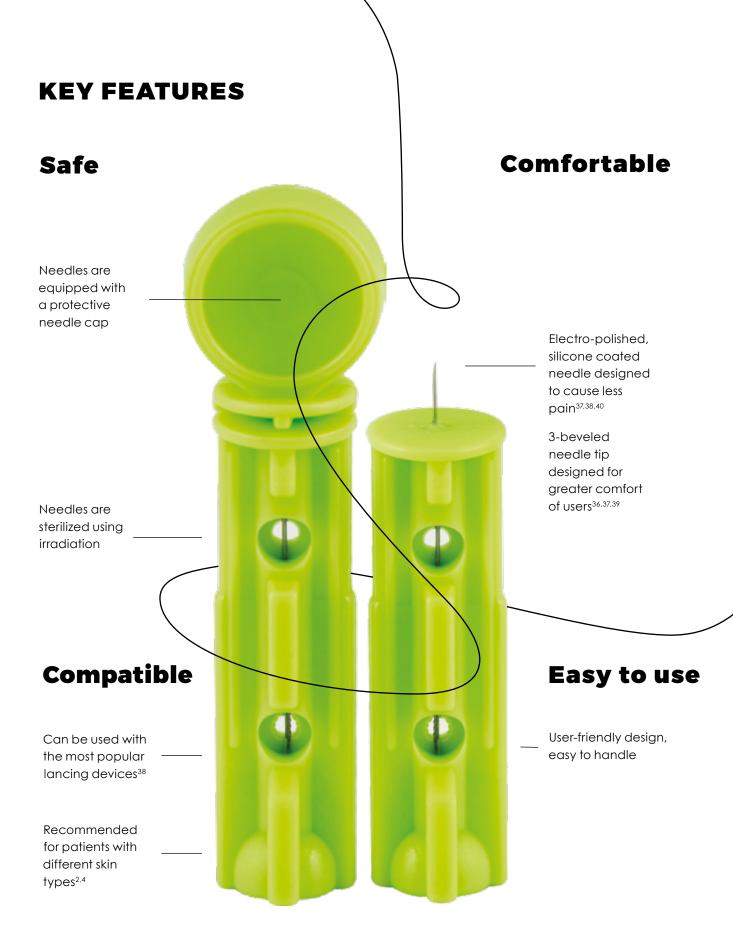


PRODUCT INTENDED USE

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 a droplet lancing device.





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.





SELF-MONITORING OF BLOOD GLUCOSE FINGER PRICKS ROTATION & ALTERNATE SITE TESTING EDUCATIONAL MATERIAL

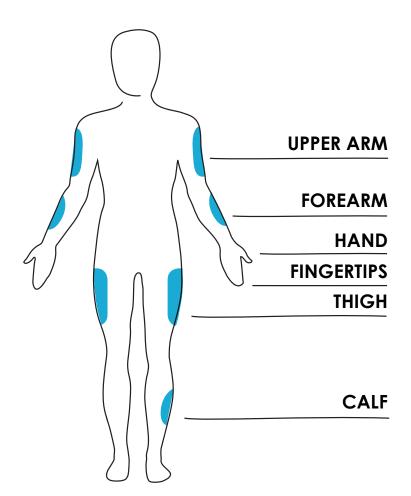
Pricking the fingers is an integral part of self-monitoring of blood glucose and part of everyday life for millions of people with diabetes.

Testing blood sugar levels helps people with diabetes to make proper decisions about their diet, activity and treatment requirements. Testing of blood sugar levels also plays a very important role in prevention and detection of hypoglycaemic events and improvement of quality of life.

People with Type 1 diabetes are recommended to measure their blood glucose levels at least 3-4 times/day.^{36,40}

Blood samples for self-monitoring of blood glucose are obtained by pricking the fingertip with a lancet. Pricking the fingertips is usually connected with discomfort and pain – due to higher amount of nerve endings at the fingertips, than on any other spot on the human body.

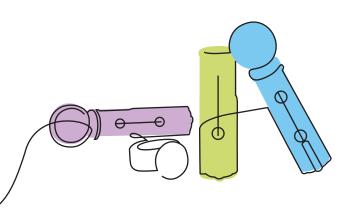
This discomfort might cause negative perception of self-monitoring of blood glucose, diabetes and diabetes management in general. It might lead to psychological problems and to therapy resistance.

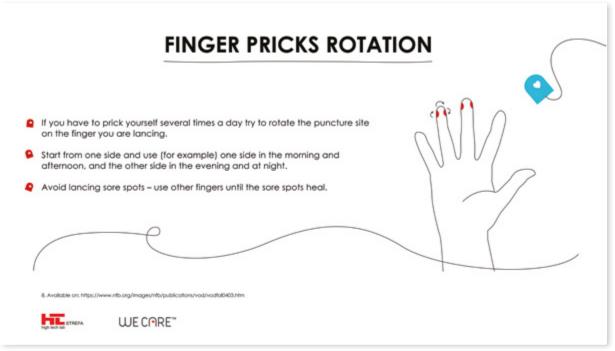


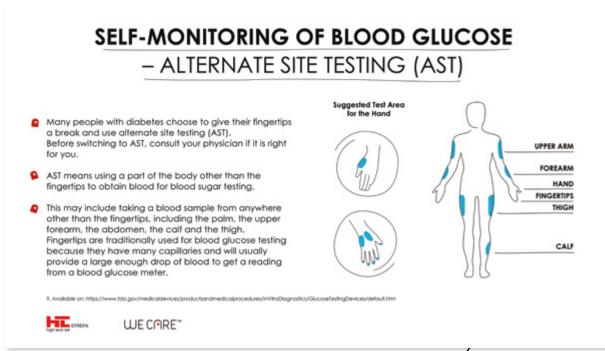
HTL-STREFA prepared educational material that provides people with diabetes with useful tips and recommendations how to reduce pain and discomfort while measuring blood sugar.

SELF-MONITORING OF BLOOD GLUCOSE - FINGER PRICKS ROTATION & ALTERNATE SITE TESTING educational material is available on our website:

https://htl-strefa.com/products/personal-lancets/droplet/







ALL PRODUCTS

SAFETY LANCETS

		Туре	Product version	Needle gauge / blade	Penetration depth
	* INTENDED USERS: HEALTH CARE PROFESSIONALS & LAY USERS				
CE®	-	contact activation	Micro Flow	30G needle	1.5 mm
ΓAΝ	-2	contact activation	Normal Flow	25G needle	1.8 mm
ERGOLANCE®	- 2	contact activation	High Flow	21G needle	2.0 mm
CE®	-11	push button	Lite	28G needle	1.5 mm
ĻΡ	-11	push button	Universal	23G needle	1.8 mm
ACTI-LANCE®	-00	push button	Special	17G blade	2.0 mm
	* INTENDED USERS: HEALTH CARE PROFESSIONALS				
NS	-	contact activation	Super Lite	30G needle	1.2 mm
MEDLANCE® PLUS		contact activation	Lite	25G needle	1.5 mm
Š		contact activation	Universal	21G needle	1.8 mm
DLA		contact activation	Extra	21G needle	2.4 mm
Ä		contact activation	Special	0.8 mm blade	2.0 mm
	- ×	push button	Micro Flow	28G needle	1.6 mm
е ш		push button	Low Flow	25G needle	1.4 mm
PROLANCE®		push button	Normal Flow	21G needle	1.8 mm
PROI		push button	High Flow	18G needle	1.8 mm
		push button	Max Flow	1.5 mm blade	1.6 mm
	- ×	push button	Pediatric Flow	1.5 mm blade	1.2 mm
S	-=	push button	Micro Flow	28G needle	1.6 mm
CE® PLUS		push button	Low Flow	25G needle	1.4 mm
HAEMOLANCE		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			AA - 410 - 5 - 0 - 1 - 6	00C m c = -!!-	1.5
DIS/		push button	MediSafe Solo®	29G needle	1.5 mm
ME		push button	MediSafe Solo®	23G needle	2.0 mm

* INTENDED USERS: LAY USERS

DROPLET® PEN NEEDLES

-	Droplet® pen needle	29G needle	10 mm
	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

^{*} INTENDED USERS: HEALTH CARE PROFESSIONALS & LAY USERS

DROPSAFE® SAFETY PEN NEEDLES

•	3 - 11 -	DropSafe® safety pen needles	31G (0,25 mm)	5 mm (3/16")
•	3 H +	DropSafe® safety pen needles	31G (0,25 mm)	6 mm (1/4")
	- III -	DropSafe® safety pen needles	31G (0.25 mm)	8 mm (5/6")

* INTENDED USERS: LAY USERS

DROPLET® PERSONAL LANCETS

Droplet® personal lancet

Droplet® personal lancet

Droplet® personal lancet

30G needle

Droplet® personal lancet

33G needle

* INTENDED USERS: LAY USERS

DROPLET® LANCING DEVICE



5 levels of skin penetration for individual user's comfort (1 - min. penetration depth 5 - max. penetration depth)

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

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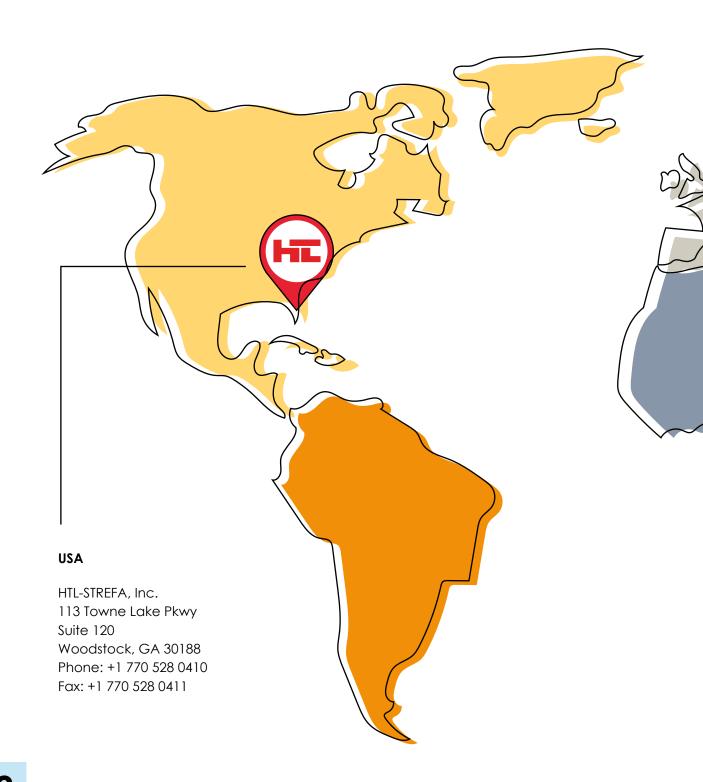
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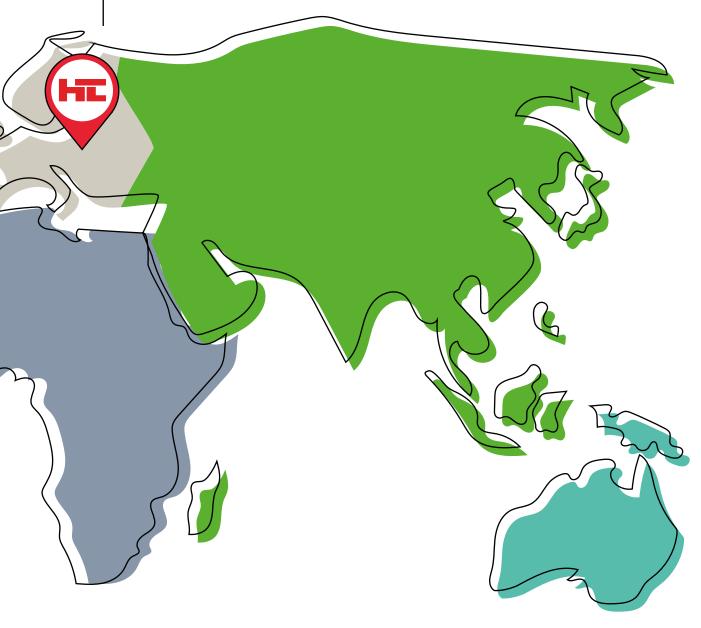
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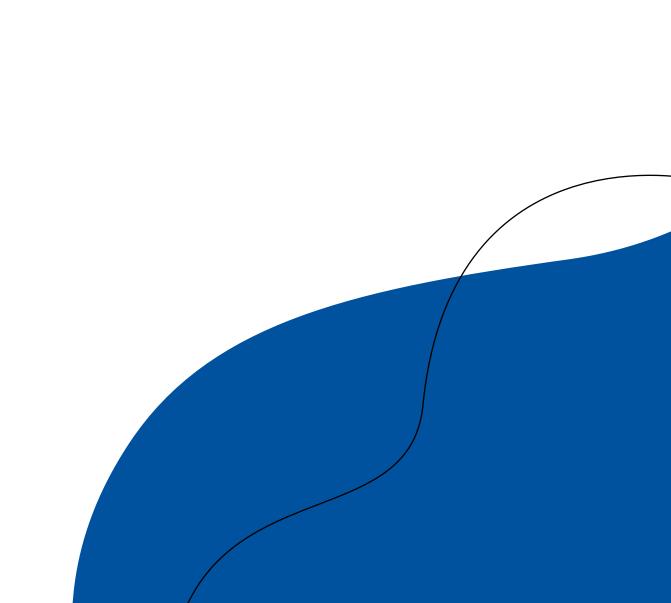


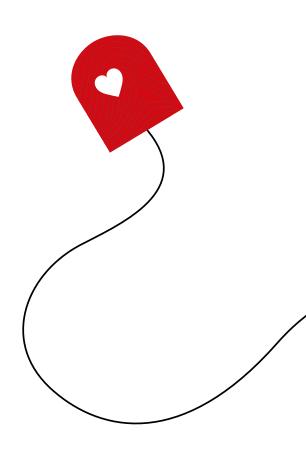


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