Innovation makes healthcare better.

Follow the official account to get product upgrade information, watch the operation and usage videos, and contact the enterprise's after-sales service personnel.

Zhejiang Anokai Medical Technology Co., Ltd.
www.annuocare.com

Ver 2.0.4

Kiss™

Lancing device

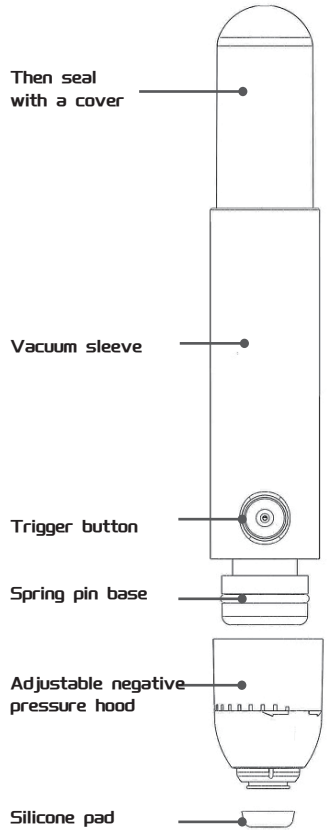
Less pain, more love

User Manual

Negative pressure skin stabilization technology
High-speed track spring needle technology
Hrecise depth adjustment technology

ANNUOCARE

structure and accessory components



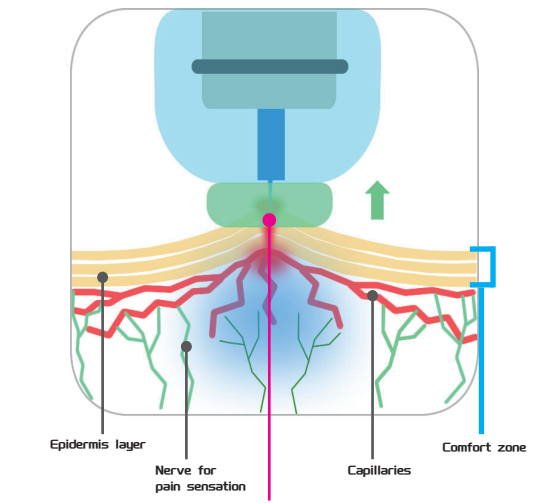
(Accessories)

A-shaped clamp - 1 piece

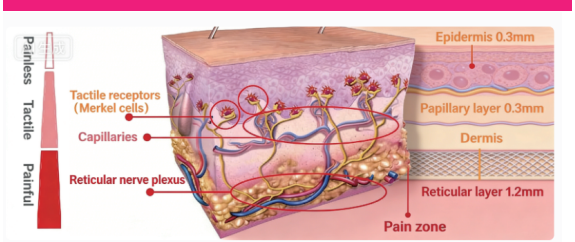
Anti-irritation Principle and Advantages

Anti-ache mechanism

Anti-itch Principle: The Kiss Lancing deviceis an innovative personal peripheral blood collector developed by Anokai Medical Technology based on patented technology. This product uses negative pressure technology to adsorb and stabilize the skin at the blood collection site. The precise spring system precisely controls the force of the needle, and the high-precision depth regulator precisely controls the depth of blood collection. It enables stable blood collection in the subcutaneous comfort zone, reducing the pain of needle insertion.



Principle: The Kiss blood collection technique can precisely reach the capillaries without stimulating the deeper pain receptors, thereby effectively reducing the stinging sensation.



Technical advantages

1. The negative pressure technology closely adheres to the skin of the blood collection area, eliminating tremors.
2. The track ejection technology ensures stable needle extraction and precise needle insertion.
3. The ejection system with precise design and calculation eliminates redundant vibration waves, making the needle extraction more accurate.
4. The negative pressure adsorption tightens the skin of the blood collection area, inhibiting the transmission of pain sensation nerves.
5. High-precision depth adjustment, precisely reaching the comfortable area beneath the skin.

Precise elastic system +
negative pressure stable adsorption +
high-precision depth adjustment
(force control) (skin stability) (depth control)
= Eliminate stinging sensation + Precise blood collection

When using a regular blood collection device for blood collection, due to shaking or other factors, the needle may become unstable, resulting in a significant pain sensation. The Anokai Kiss series blood collection pen adopts a front-end cavity designed based on the negative pressure principle, which can firmly adsorb and fix about 12mm2 of the local surface skin. Under the vacuum negative pressure, the skin bulges inward. At this time, the skin in the blood collection area will not be affected by shaking, significantly improving the stability of the blood injection needle insertion, and thus enabling precise control of the injection depth.
Patent number: 201921669552.6 201930545509.8

Select a stretch system that matches the hardness of your skin.

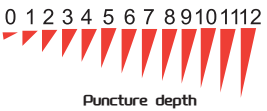
The Kiss series Lancing device from the Kiss series is a highly customized product designed for users, taking into account various factors that affect the pain feedback during blood collection. One of the most important factors is the difference in the softness of individual fingers' skin (skin elasticity). Annoke has conducted extensive repeated measurements and research, indicating that the majority of people in the population have finger skin hardness ranging from 5HA to 15HA. The smaller the number, the softer the skin, and the larger the number, the harder the skin. A small number of people have less than 5HA or more than 15HA, which indicates that the skin of these users is very soft or overly hard. The Kiss blood collection technology adopts a precisely calculated and designed ejection system, with more precise grading of the ejection force, fully matching the different skin hardness of users to eliminate redundant excessive ejection impacts. Thus, it avoids excessive ejection impacts of the needle or insufficient ejection force resulting in depth compensation, causing needle puncture pain.

Skin characteristics	Hardness range	Product model	Strength classification
Soft skin	< 5 HA	FY-11-I	Weak type
Normal skin	5 - 15 HA	FY-11-II	Universal type
Hard skin	> 15 HA	FY-11-III	Strong type

Precise adjustment of the blood collection depth

Kiss's precise depth controller

Kiss has innovatively designed a high-precision depth regulator based on a negative pressure system, with up to 13 adjustment levels. Each adjustment can precisely adjust the depth to 0.1mm. This ensures that by adjusting the gears, the blood sampling needle tip can accurately reach the comfortable skin area for blood collection at a depth of 0.6mm. When combined with the negative pressure system, it can provide a stable and comfortable blood collection experience.



Puncture depth

Rotatable front end depth adjustment ring

Adjustment of blood collection depth and stability of pressure application:
Because silicone gel and the skin have certain elasticity, slight elastic deformation can occur depending on the degree of pressure applied by the finger, thereby increasing the depth of the needle insertion. Therefore, in addition to adjusting the depth through the gear, it is also necessary to maintain a stable pressure, thereby reducing the depth differences caused by the elastic deformation.
The more consistent the pressure is, the more precise the depth will be, and the better the blood collection experience will be. Therefore, it is necessary to repeatedly train several times to fix the pressure applied by the finger.

Level 2 (thickness) silicone pad

Standard pad Reinforced pad

The Kiss Lancing device comes with two types of silicone pads - a black thick version and a grey thin version. The black thick version is suitable for normal skin, while the grey thin version is suitable for thick and hard skin.

For users with thicker skin, if the black silicone pad blood collection level has reached a relatively high level of over 8, the grey thin one can be replaced to achieve a better experience. The overall level of the 2nd grade can reach up to 24.

Select the appropriate area for blood collection

"It is recommended to choose the sides of the fingertips of the middle finger or the ring finger. Because there are abundant nerve endings at the fingertip ends, if blood is drawn in the middle part of the fingertip, it will simultaneously stimulate the nerve endings of the ulnar nerve and the median nerve, causing a stronger pain sensation. Therefore, drawing blood on the finger side can alleviate the pain. In addition, the flexor tendon of each finger is surrounded by a synovial sac, and the synovial sac of the thumb and the little finger can directly connect to the deep part of the palm. If there is an infection, it may lead to a deep infection of the entire palm. However, the synovial sacs of the middle finger and the ring finger are relatively independent, so they are safer."

"Consensus on Peripheral Blood Sampling in China"
(Chinese Medical Association)

Applicable population

Target population: For patients who need to conduct multiple blood glucose tests daily, as well as children, pregnant women, and others who are highly sensitive to the pain of blood collection, it can reduce the pain sensation and improve clinical compliance. For some special types of diabetes patients, such as pregnant women with gestational diabetes, adult latent diabetes, etc., these patients need to strictly monitor and manage their blood glucose levels; otherwise, serious consequences may occur. Especially for pregnant women with gestational diabetes, the incidence rate has been increasing in recent years, and the number of affected individuals is large. These pregnant diabetes patients need to conduct multiple blood collection tests daily, also known as the "7-point method" monitoring, so as to lower blood glucose levels and strictly control them within a reasonable range. Due to the continuous and frequent blood collection from the fingertip, the continuous pain sensation causes a strong sense of fear and resistance in the patients, making it difficult for them to persist. Using Kiss can reduce the pain sensation during blood collection, significantly improving the quality of life of the patients.

Preparation of materials before blood collection

Preparation of materials before blood collection

Lancet

Alcohol Pad

A-Clamp

Massage or apply heat to the puncture site before blood collection.
Gently massage the blood collection site to promote blood circulation in the local tissues. For subjects with poor blood circulation, appropriate heat application can be performed.

Disinfect the puncture site

Disinfect the puncture site Before blood collection, a cotton swab or cotton pad soaked in 75% ethanol or 70% isopropyl alcohol solution should be used to disinfect the puncture site. After disinfection, it should be allowed to dry naturally to ensure the disinfectant takes effect. Do not wipe off the disinfectant prematurely to avoid affecting the disinfection result.

The usage method of the Kiss Lancing device

1 Remove the vacuum cover at the front end of the Kiss blood collection pen.

2 Press and then secure the needle holder by pressing the cover. Hear a "click" sound, confirming that the spring has entered the slot.

3 Insert the blood collection needle into the bottom of the central needle holder and confirm repeatedly.

4 Rotate and break the protective cap of the blood collection needle and place it aside without discarding.

5 Press the front negative pressure cover tightly.

6 Adjust the depth scale position.

7 Apply the silicone pad at the front end of the Kiss pen with the appropriate force and press it onto the blood collection area at the front end of the finger.

8 Press the trigger button, wait for 1-2 seconds, then release the air vent on the trigger button, and then remove the front end of the Lancing device. The peripheral blood is used for testing.

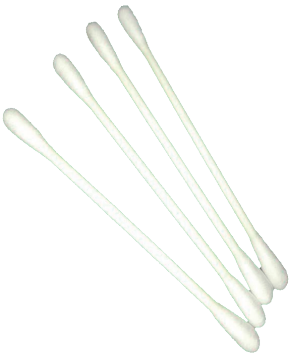
9 After the blood collection is completed, remove the blood collection needle. Press down and then secure the needle holder by pressing the cover. At the same time, insert the front end of the needle into the protective cap of the blood collection needle that has been temporarily placed aside.

10 Use the matching A-shaped clamp to open the needle insertion opening from the side, clamp the blood collection needle and pull it out, and dispose of it according to the method for medical waste.

Important Notes for First-Time Use (Very Important, Please Read Carefully)

1 Use the adjustable negative pressure mask to adjust the needle insertion depth. The range from shallow to deep is "0 gear - 12 gears", with 0 gear representing the shallowest insertion.
2 The first use is a debugging process. It is necessary to start the debugging from gear 0.
3 The force applied by the fingers on the rubber pad may change the needle insertion depth. It is necessary to determine the force level at the beginning of the debugging and maintain consistency of this force level throughout.
4 For users with thinner skin, during the initial debugging, start with a light pressure and gradually test. The 5-pin needle must be inserted when the rear cover is pressed down. Make sure the needle holder is in a fixed position and ensure that the needle is fully inserted and cannot be pulled out.

Cleaning and disinfection as well as daily maintenance



Cleaning and Disinfection
The Kiss Lancing device needs to undergo regular cleaning and disinfection to maintain its internal cleanliness and hygiene, preventing the growth of bacteria. Usually, the front vacuum cover and silicone pad can be disassembled, and alcohol swabs can be used to repeatedly wipe the vacuum cover, silicone pad, needle holder, etc.
Daily Maintenance

The Lancing device should be carefully prevented from getting contaminated with chemical components such as lotions, and should be placed in a dry and cool place to avoid high temperatures; the sealing ring should be kept clean to prevent air leakage. Maintenance of the sealing ring of the needle base During daily use, a small amount of Vaseline or lubricant-containing ingredients such as hand cream can be applied to ensure the airtightness and lubrication of the sealing ring.

Product Usage Instructions

1. The Lancing device is for personal use only and should not be shared among multiple people. Each person should use one pen. Do not mix them.
2. Before each use, make sure your hands are thoroughly cleaned and the usage environment is clean to avoid infection.
3. After use, clean and disinfect each component of the blood collection pen promptly and dry it.
4. Avoid contaminating the blood collection pen with lotion, chemical solvents, oil stains or dust.
5. The blood collection needle is a disposable item. Each time you use the Lancing device, you must replace the blood collection needle.
6. Store the blood collection pen in a dry and cool place. Do not use high-temperature burning or baking.
7. Excessive sweating, overly moist or dry skin conditions will affect the blood collection experience and the accuracy of blood glucose testing.
8. When using the blood collection pen, do not use it on visible arterial or venous areas to avoid excessive bleeding. When pressing the rear cover, do not press the side silicone trigger button simultaneously.

Common Questions

Q: Sometimes the vacuum cover at the front end of the Lancing device is difficult to remove. Why is that?
A: The sealing ring and the front vacuum cover will stick to each other to some extent under the long-term compression. Rotate the vacuum cover clockwise and then pull it out upwards.

Q: Why does the needle prick suddenly become very deep and painful?
A: The pain-reducing effect of the blood collection pen requires precise size control. Make sure that the disposable blood needle is fully inserted into the needle holder each time for blood collection.

Q: Why can't I feel the said negative pressure during blood collection?
A: During blood collection, it is necessary to ensure a tight combination between the blood collection area and the front rubber pad. Press down to ensure no air leakage.

Q: Why do I feel different sensations when adjusting the same gear at different positions during blood collection?
A: The hardness of the skin at different positions on the fingers varies, and the pressure applied during blood collection at different positions of the fingers will also be different, thus causing differences in the sensations.

Q: Why doesn't the cover press down after pressing many times?
A: When pressing the cover, you need to press all the way down, and at the same time, make sure that your fingers are not pressing on the trigger button.

Q: What should I do if blood splashes out during blood collection?
A: If the blood collection depth is too deep, it is easy to cause excessive bleeding and result in blood splashing out. You can clean the vacuum cover and silicone pad with alcohol swabs.

Q: Why does the pain sensation become more obvious when using a different brand of needle?
A: Kiss currently supports most excellent brands of needles on the market, but there are still some needles with poor craftsmanship. Please confirm if you have chosen the correct needle. If you wish, we can recommend to you.

Q: What should I do if the silicone pad is lost?
A: The front silicone pad is an easily worn part. Our online store provides online sales. You can contact the customer service to help you solve the problem.

Q: The blood collection pen doesn't work properly after falling on the ground.
A: It may cause accidental damage to some parts. Please contact our customer service as soon as possible to solve the problem.

Quality Assurance

Anokai Medical Technology guarantees a five-year warranty service for the Kiss blood collection pen product. During the warranty period, for any wear or malfunction that occurs during normal usage by the user, we will handle the problem or replace the worn parts for free. After the warranty period, a certain cost for parts and maintenance will be charged. This warranty does not cover damage to the product caused by incorrect use, abuse, or external forces. Such cases will be considered as improper user protection and will not be included in the warranty coverage.

Product Information

Product Name: Lancing device
Specification Model: FY-21-II
Production License Number: Zhejiang Hangzhou Food and Drug Administration Medical Device Production License No. 20210053
Medical Device Registration License Number: Zhejiang Hangzhou Medical Device Registration License No. 20210394
Product Technical Requirements Number: Zhejiang Hangzhou Medical Device Registration License No. 20210394
Manufacturer and After-sales: Hangzhou Anokai Medical Technology Co., Ltd.
Registered Address: No. 2, Building 401, Xianqiao Road, Zhongtai Street, Yuhang District, Hangzhou City, Zhejiang Province
Production Address: No. 2, Building 401, Xianqiao Road, Zhongtai Street, Yuhang District, Hangzhou City, Zhejiang Province
Telephone: 4006-052-668
Contents of Packaging: 1 blood sampling pen, 1 set of silicone pads, 1 needle holder, 1 manual
E-mail: kiss@annuocare.com
Expiration Date: 5 years
Manual Revision Date: June 1, 2023

Follow the official account to get product upgrade information, watch the operation and usage videos, and contact the enterprise's after-sales service personnel.