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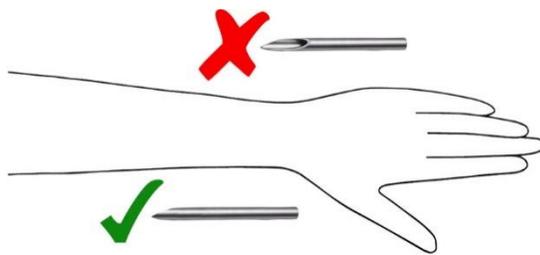
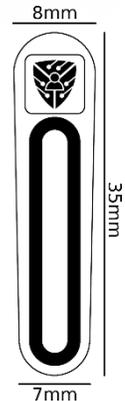
VivoKey Technologies
www.vivokey.com

FLEX NEEDLE INSTALLATION PROCEDURE GUIDE

Flex devices are passive transponders encapsulated in a custom biopolymer that is USP Class IV certified and ISO10993 tested for permanent implantation. The standard form factor of the device is a wedge shape for easy installation.

- 8mm wide at the top
- 7mm wide at the bottom
- Only 0.4mm thick

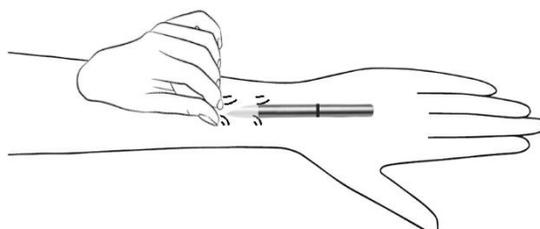
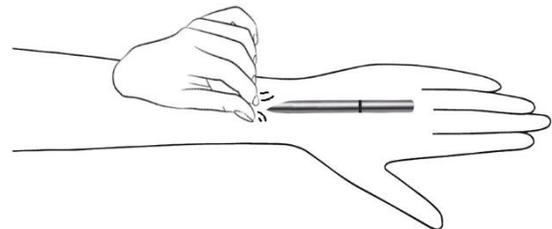
Flex devices do not require a scalpel, dermal elevator, or sutures to install. A safe, successful installation can be achieved with a 4G piercing needle.



**needle size is not to scale*

Use our custom 4G (5mm), 80mm long needle with etched depth marker at 40mm. The bevel must be placed face down.

Pinch and lift the skin at the incision site to ensure the needle point does not dig too deeply or re-surface through the skin.



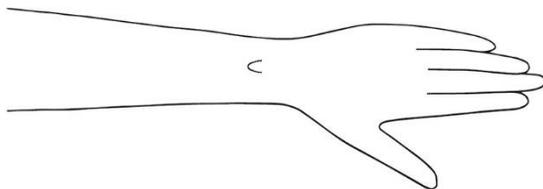
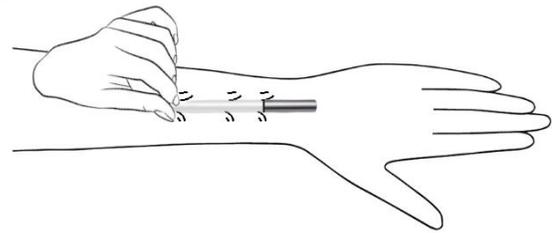
As you insert the needle, continue lifting the skin ahead of the point to ensure safe pocketing.



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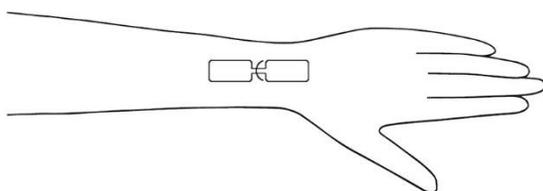
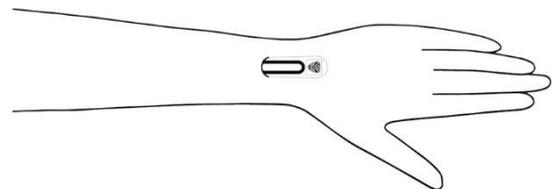
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Insert the needle to a depth of 40mm. If we have provided the needle, it should have a laser etched depth marker ring around the shaft.



Completely remove the needle, and you should be left with a crescent shaped incision and dermal pocket.

Using sterile gloves, manually pick up the Flex and insert it into the incision. Do not use tools to position or place the Flex.



Once **complete** hemostasis is achieved, and all bleeding has stopped, apply a quality butterfly bandage to hold the wound closed.

Additionally, a transparent film bandage (Tegaderm is a popular brand) can be used to help keep tension on the skin and keep the entire wound area clean and stabilized. The stability of this closure technique is extremely dependent on absolute control of any bleeding before the bandaging is put in place.