Guardian[™] Sensor (3)

User Guide

English

Introduction

The Guardian[™] Sensor (3) glucose sensor is part of your Continuous Glucose Monitoring (CGM) system. The sensor continuously converts tiny amounts of glucose from the interstitial fluid under your skin into an electronic signal. Your system then uses these signals to provide sensor glucose values.



- A. pedestal
- B. needle housing
- C. sensor
- D. clear liner

Potential risks related to sensor use

General risks with sensor use include:

- · Skin irritation or other reactions
- Bruising
- Discomfort
- Redness
- Bleeding
- Pain
- Rash
- Infection
- Raised bump
- Appearance of a small "freckle-like" dot where needle was inserted
- Allergic reaction
- · Fainting secondary to anxiety or fear of needle insertion
- · Soreness or tenderness
- · Swelling at insertion site
- · Sensor fracture, breakage or damage
- · Minimal blood splatter associated with sensor needle removal
- Residual redness associated with adhesive or tapes or both
- Scarring

Indications for use

The Guardian Sensor (3) is intended for use with the Medtronic MiniMed[®] 670G system to continuously monitor glucose levels in persons with diabetes. It is intended to be used for detecting trends and tracking patterns in persons aged fourteen years and older, and to be used by the MiniMed 670G system to automatically adjust basal insulin levels. It is indicated for use as an adjunctive device to complement, not replace, information

obtained from standard blood glucose monitoring devices. The sensor is intended for single use and requires a prescription. The Guardian Sensor (3) is indicated for 7 days of continuous use.

Contraindications

None known.

Assistance

Department	Telephone Number
24 Hour HelpLine (calls within the United States)	800 646 4633
24 Hour HelpLine (calls outside the United States)	+1 818 576 5555
Website	www.medtronicdiabetes.com

General warnings

Read this entire user guide before attempting to insert the sensor. The one-press serter (MMT-7512) does not work the same as other Medtronic insertion devices. Failure to follow directions or using a different serter may result in improper insertion, pain, or injury.

The Guardian Sensor (3) was developed for use with and the performance evaluated with the approved system only. The sensor should not be used as part of unapproved systems, as it may provide inaccurate sensor glucose readings.

The sensor is designed to work with approved transmitters only. It is not interchangeable with transmitters and recorders that are not compatible with the sensor. Connecting your sensor to a transmitter or recorder that is not approved for use with the sensor may cause damage to the components or inaccurate sensor glucose values.

Do not make therapy decisions based on sensor glucose values because sensor glucose and blood glucose (BG) values may differ. If your sensor glucose reading is low or high, or if you feel symptoms of low or high glucose, do the following prior to making therapy decisions. Confirm your blood glucose with your meter using a fingerstick blood sample.

Taking medications with acetaminophen, such as Tylenol[®], fever reducers, or cold medicine, while wearing the sensor may falsely raise your sensor glucose readings. The level of inaccuracy depends on the amount of acetaminophen active in your body and may be different for each person. Always check the label of

any medications to confirm whether acetaminophen is an active ingredient.

Do not expose your sensor to MRI equipment, diathermy devices, or other devices that generate strong magnetic fields as the performance of the sensor has not been evaluated under those conditions and may be unsafe. If your sensor is inadvertently exposed to a strong magnetic field, discontinue use and contact the 24 Hour HelpLine for further assistance.

A retractable needle is attached to the sensor and minimal blood splatter may occur. If you are a healthcare professional or caregiver, wrap sterile gauze around the sensor to minimize contact with blood. Keep as much distance as possible between you and the patient when removing the needle.

Keep the needle housing within sight at all times to avoid an accidental needlestick or puncture.

Always inspect the packaging for damage prior to use. Sensors are sterile and non-pyrogenic, unless the package has been opened or damaged. Do not use the sensor if the sterile package has been opened or damaged. Use of an unsterile sensor can cause site infection.

This product contains small parts and may pose a choking hazard for children.

Watch for bleeding at the insertion site (under, around, or on top of the sensor).

If bleeding occurs, do the following:

- 1. Apply steady pressure, using sterile gauze or a clean cloth placed on top of the sensor, for up to three minutes. The use of unsterile gauze can cause site infection.
- 2. If bleeding stops, connect the transmitter (or recorder) to the sensor.

If bleeding does not stop, do not connect the transmitter to the sensor because blood can get into the transmitter connector. and could damage the device.

If bleeding continues, causes excessive pain or discomfort, or is significantly visible in the plastic base of the sensor, do the following:

1. Remove the sensor and continue to apply steady pressure until the bleeding stops. Discard the sensor in a sharps container.



plastic base

- 2. Check the site for redness, bleeding, irritation, pain, tenderness, or inflammation. Treat based on instructions from your healthcare professional.
- 3. Insert a new sensor in a different location.

General precautions

Wash your hands with soap and water before inserting the sensor to help prevent site infection.

Wear gloves when inserting the sensor into someone other than yourself to avoid contact with patient blood.

Do not insert the sensor through tape. Inserting the sensor through tape may cause improper sensor insertion and function.

Only use alcohol to prepare the insertion site, to ensure that residue is not left on the skin.

Rotate the sensor insertion site so that sites do not become overused.

Discard used sensors and needle housings in a sharps container after each use to avoid accidental needlestick or puncture.

Do not clean, resterilize, or try to extract the needle from the needle housing. An accidental needlestick or puncture may occur.

Do not reuse sensors. Reuse of a sensor may cause damage to the sensor surface and lead to inaccurate glucose values, site irritation, or infection.

Where to insert the sensor

CAUTION: Avoid the 2 inch (5.0 cm) area around the navel to help ensure a comfortable insertion site and to help with sensor adhesion.

Choose an insertion site that has an adequate amount of subcutaneous fat. Shown here are the best body areas (shaded) for sensor insertion.



Do not insert the sensor in muscle or areas constrained by clothing or accessories, areas with tough skin or scar tissue, sites subjected to rigorous movement during exercise, or in sites under a belt or on the waistline for best sensor performance and to avoid accidental sensor removal.

Removing the sensor

When you are ready to change your sensor, disconnect the transmitter from the sensor as described in your transmitter user guide. Gently pull the sensor from your body to remove it. Place the sensor in a sharps container.

Reagents

The sensor contains two biological reagents: glucose oxidase, and human serum albumin (HSA). Glucose oxidase is derived from *Aspergillus niger* and manufactured to meet industry requirements for extraction and purification of enzymes for use in diagnostic, immunodiagnostic, and biotechnical applications. The HSA used on the sensor consists of purified and dried albumin fraction V, derived from pasteurized human serum which is cross-linked via glutaraldehyde. Approximately 3 µg of glucose oxidase and approximately 10 µg of HSA are used to manufacture each sensor. HSA is approved for IV infusion in humans at quantities much larger than in the sensor.

Storage and handling

CAUTION: Do not freeze the sensor, or store it in direct sunlight, extreme temperatures, or humidity. These conditions may damage the sensor.

Only store sensors at room temperature between 36 $^\circ\text{F}$ to 80 $^\circ\text{F}$ (2 $^\circ\text{C}$ to 27 $^\circ\text{C}).$

Discard sensor after the "Use by date" indicated on the label, if the package is damaged, or the seal is broken.

Sensor life of use

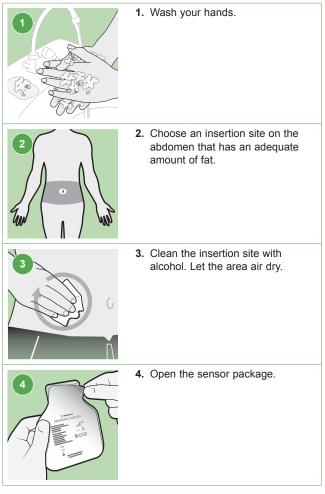
The sensor can be used one time, and it has a maximum life of 170 hours (seven days). The 170-hour life span of the sensor begins when the sensor is connected to the transmitter.

Components

A	One-press serter A. bump on both buttons B. thumbprint marking
	Glucose sensor assembly A. pedestal B. needle housing C. sensor D. clear liner
A B	Sensor base A. sensor connector B. sensor snaps
	Transmitter
ABC	Tape and sensor components A. adhesive tab B. sensor base C. oval tape

Inserting the sensor

WARNING: Wear gloves when inserting the sensor into someone other than yourself to avoid contact with patient blood. Minimal bleeding may occur. Contact with patient blood can cause infection.





 Hold the pedestal and remove the glucose sensor assembly from the package. Place the pedestal on a flat surface.

Note: The pedestal and glucose sensor assembly are the established definitions in the component table.



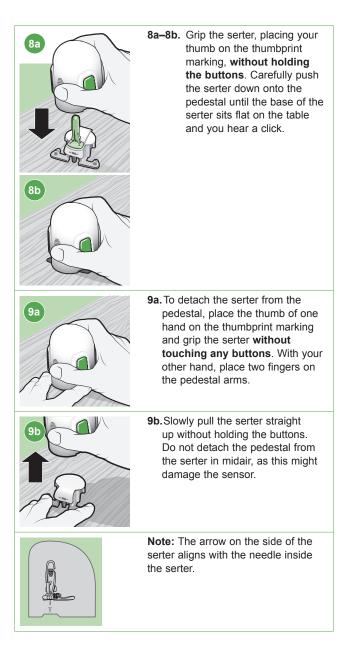
 Make sure that the adhesive tab of the sensor is tucked under the sensor connector and sensor snaps.

7. Holding serter correctly

Place your thumb on the thumbprint marking to hold the serter without touching the buttons.

Holding serter incorrectly

Your fingers should not be touching the buttons.

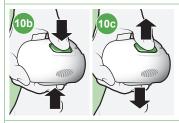


WARNING: Never point a loaded serter toward any body part where insertion is not desired. An accidental button-push may cause the needle to inject the sensor in an undesired location, causing minor injury.



10a. Hold the serter steady against your cleaned insertion site, without pushing the serter too deeply into your skin.

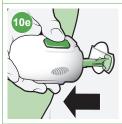
Note: Failing to hold the serter securely flat against your body during insertion may let the serter spring back after pressing the buttons, and result in improper insertion of the sensor.



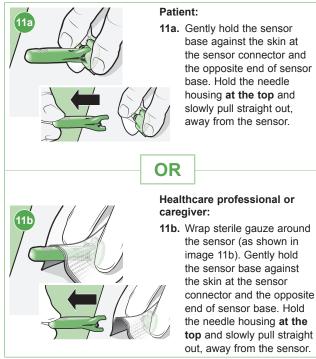
10b-10c. Press and release the bump on both buttons at the same time, while holding the serter flat against your body.



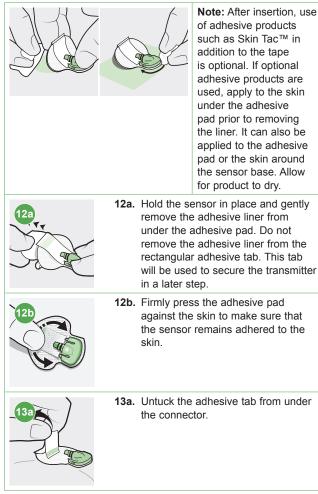
10d. Continue holding the serter flat against your body for at least five seconds to let the adhesive stick to your skin.



10e. Slowly lift the serter away from your body, making sure that the buttons are not pressed. If you inserted the sensor into yourself, complete step 11a. If you are a healthcare professional or caregiver who inserted the sensor into a patient, complete step 11b.



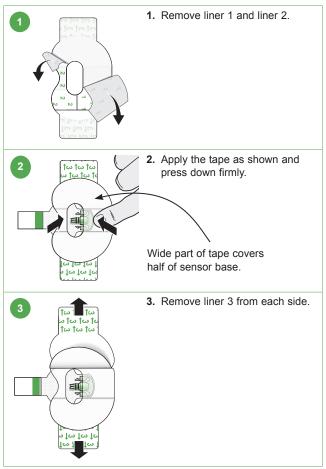
WARNING: Watch for bleeding at the insertion site. If bleeding occurs under, around, or on top of the sensor, apply steady pressure using sterile gauze or a clean cloth placed on top of the sensor for up to three minutes. The use of unsterile gauze can cause an infection. If bleeding does not stop, remove the sensor and apply steady pressure until the bleeding stops. **Note:** Medtronic adhesives are pressure-sensitive. Pressing the adhesive against the skin ensures that the sensor remains adhered to the skin throughout the wear period.

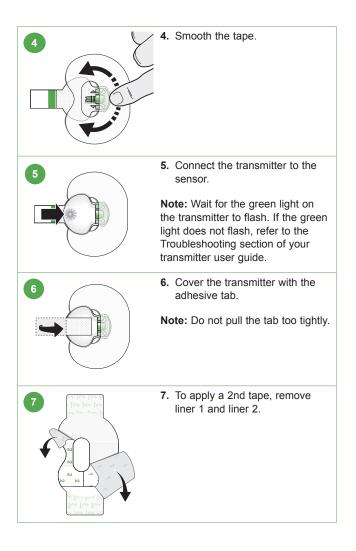


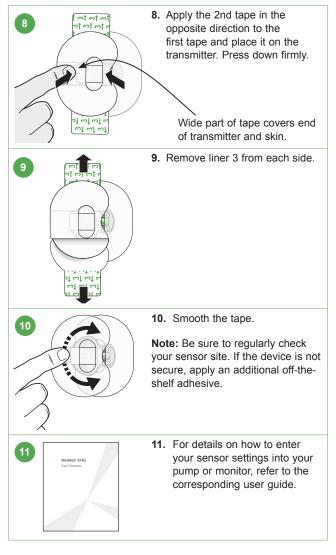


13b. Straighten the sensor adhesive tab so that it lies flat against the skin.

Applying Oval Tape







Icon table

	Use by date
--	-------------

2	Do not reuse
(1x)	One sensor per container/package
(5x)	Five sensors per container/package
(2x)	Two tapes per package
(10x)	Ten tapes per package
Ĩ	Consult instructions for use
REF	Catalogue or model number
LOT	Batch code
STERILE R	Sterilized using irradiation
+2°C +38°F	Temperature limit
	Open here
	Manufacturer
R _{x Only}	Prescription only
STERNAR	Do not resterilize
Ţ	Fragile, handle with care
Ĵ	Keep dry
3	Recycle cardboard, paper, plastic packaging supplies and unwanted written material.
	Magnetic Resonance (MR) unsafe: keep away from magnetic resonance imaging (MRI) equipment.
X	Non-pyrogenic - Does not contain endotoxins.

©2016 Medtronic MiniMed, Inc. All rights reserved.

MiniMed[®] and Guardian[™] are trademarks of Medtronic MiniMed, Inc.

Skin Tac™ is a trademark of Torbot Group, Inc.

Tylenol® is a registered trademark of Johnson & Johnson consumer Inc.



Medtronic MiniMed 18000 Devonshire Street Northridge, CA 91325 USA 800 646 4633 818 576 5555 www.medtronicdiabetes.com



REF MMT-7020



6026096-011_a