



Cardea SOLO™ University for Researchers

SKIN PREP 101

This presentation will discuss:

- The importance of skin prep for Cardea SOLO™ Sensor placement
- The skin prep steps specific to placing the Cardea SOLO Sensor

Let's get started by reviewing how to place and activate the Cardea SOLO Sensor



First, let's watch our application video.



<https://vimeo.com/662424766/09bb836a17>

GOOD SKIN PREP IS IMPORTANT

- The better the skin prep when applying the Cardea SOLO ECG Sensor, the better the sensor can record and analyze the participant's rhythm during the wear time duration
- Good skin prep helps to ensure the *best possible data collection* when the participant is wearing the sensor

SIGNS OF GOOD SKIN PREP

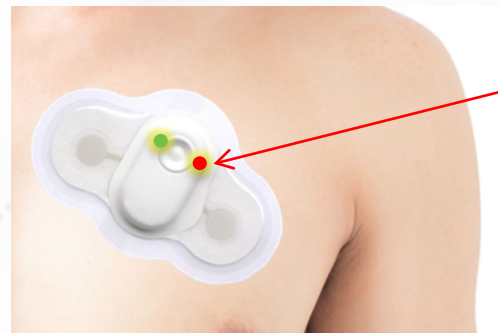
- Cardea SOLO Sensor activates without issue
- Cardea SOLO Sensor remains adhered to participant's skin throughout study protocol wear period - up to a maximum of 8 days, 3 hours per sensor
- Percent of analyzable data is *90% or higher*

	Ambulatory ECG Recording				
	Patient Name SUBJECT ID 12345	Patient ID	Date of Birth 07-14-1977 (43)	Gender Male	
Primary Indication: Prescribing Physician: XYZ Research Study Location: Start Date: 07/16/2020 04:10 AM End Date: 07/22/2020 11:27 PM					
Wear Time: 6d 19h 17m		Percent Analyzable: 94.6%			



SIGNS OF INCORRECT SKIN PREP

- **Red** and **green** lights flashing mean the Cardea SOLO Sensor is not activated



A blinking or solid RED light *at any time* means the Sensor is not activated or recording ECG data. Take corrective action.

- Sensor falls off before participant wear time is finished
- Low percentage of analyzable data (<90%)

TIPS FOR SUCCESSFUL APPLICATION



Skin should be free of lotions, oils, powders, etc.



No showering for the first 24 hours after application



Shower with back towards direct shower stream

⚠ Excessive sweating may limit wear duration

If your study includes an (optional) adhesion enhancer for electrode placement (such as SkinTac™, NuPrep®, etc), Cardea SOLO would also benefit from its use.

Preferred use is avoiding showers for the first 24 hours while wearing the Cardea SOLO Sensor. (NEVER let a continuous direct shower stream reach the sensor.)

SKIN PREP STEPS

- **PLAN** - sensor position



- **CLEAN** - sensor application area



- **ABRADE** - the skin



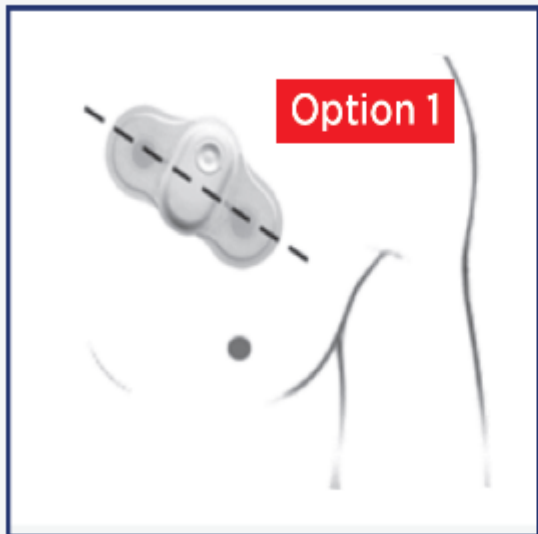
- **WIPE** - away the dead skin



- **APPLY/ACTIVATE** - sensor to the chest

PLAN THE SENSOR PLACEMENT

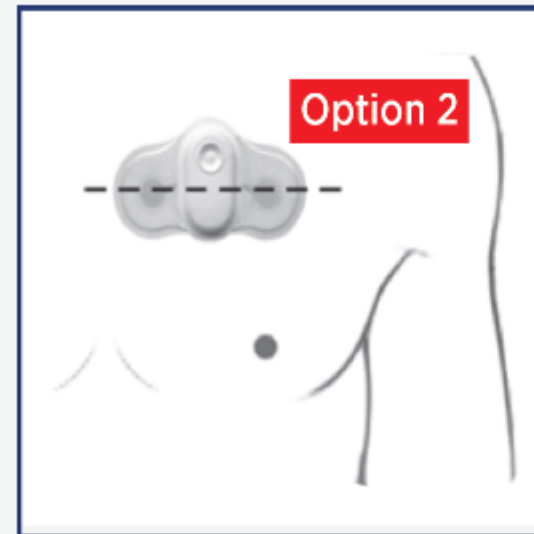
Recommended placement choice



Option 1

approximates the lead orientation of Lead II of a standard 12-lead ECG.

Place the right electrode at about the 2nd intercostal space and the left electrode at the 3rd or 4th intercostal space.



Option 2 is aligned with Lead I of a standard 12-lead ECG.

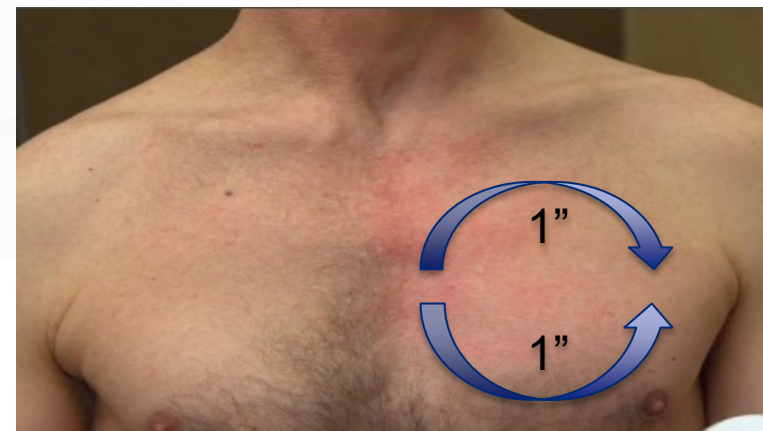
Place the Sensor horizontally, approximately in the 3rd or 4th intercostal space.

***Consider body habitus and adjust as needed to avoid dense breast tissue while avoiding direct placement on the sternum.**

PLAN THE SENSOR PLACEMENT

- Use the template provided to determine best sensor placement area
- Shave hair 1" beyond template on all sides of template
- Wet shave or electric shave*

***DRY SHAVING MAY CAUSE SKIN IRRITATION**



CLEAN THE APPLICATION AREA

- Use the provided alcohol wipe to VIGOROUSLY wipe the ENTIRE area where the Cardea SOLO Sensor will be placed.
- The alcohol wipe will remove any existing oils on the skin
- Let the skin dry after wiping with the alcohol wipe



ABRADE THE SKIN

- Use the provided template to mark an X in the area where the electrodes will contact the skin
- Choose an abrasive pad to abrade **ONLY** in the areas marked with an X



WIPE AWAY THE SKIN RESIDUE

- Use the gauze provided to wipe away dead skin removed from the previous step of abrading



- These particles may not be visible to the naked eye, but they are present and can prevent good adhesion of the SOLO Sensor



APPLY THE SENSOR

- Remove one side of the release liner and place the Cardea SOLO Sensor on the area marked by the template (button towards participant's head)
- With one side attached, remove the other side of the release liner and apply the second half of the Cardea SOLO Sensor to the skin



APPLY THE SENSOR

- Firmly press the Cardea SOLO Sensor on the skin and smooth out the clear adhesive border (trace around the border of the sensor with your finger to help seal)



ACTIVATE THE SENSOR

- Press the Cardea SOLO Sensor button. The indicator light will blink **green**, pause and then flash **green** in cadence with the heartbeat for 10 seconds. The ECG acquisition sequence has started.



IT'S TIME TO TEST YOUR SKIN PREP KNOWLEDGE

- Click the link below to access the **Cardea SOLO University Skin Prep 101 Knowledge Test**
- A certificate of completion will be emailed when a passing score is achieved

<https://www.classroomclipboard.com/838681/Test/3B96FBC7-1F56-4E50-A27C-07E1EC19E912>

Enter Access Code: S4T38