



LNCS YI Sensor



LNCS YI Multi-Site Sensor



Non-disposable



Adults (> 30 kg) and Pediatrics (10-50 kg)

Ring or Middle finger of the non-dominant hand is the preferred monitoring site. Alternately, the other digits on the non-dominant hand or great toe may be used.

Infants (3-10 kg)

The preferred sites are the outer aspect of the foot, under the 5th toe, or outer aspect of the palm of the hand under the 5th finger. For infants with large or edematous feet, the great toe or thumb is recommended.

Infants (10-30 kg)

The preferred sites are the great toe or thumb. Alternatively, the 2nd toe or ring or middle finger can be used.

Neonates (1-3 kg)

The preferred site is the outer aspect of the foot. Alternately, across the palm of the hand can be used.

Sensor Guideline – Inspection



Non-disposable



Note – The sensor should be removed and the site inspected at least every four (4) hours or sooner, and, if indicated by circulatory condition or skin integrity, reapplied to a different monitoring site.

- > The sensor site for *reusable* sensors must be repositioned at least every four (4) hours to ensure adequate circulation and skin integrity.
- > Exercise extreme caution with poorly perfused patients; skin erosion and pressure necrosis can be caused when the sensor is not frequently moved. Assess the site at least every one (1) hour with poorly perfused patients.

The YI Multi-site sensor is not intended for placement on the ear.

Applications of YI Wraps



Clean Shield®
Multisite Wrap



Standard
Petite Wrap



Standard Wrap



Foam Wrap



Body Weight		Clean Shield® Multisite Wrap	Standard Petite Wrap	Standard Wrap	Foam Wrap
	1 kg ~ 3 kg	■		■	■
	3 kg ~ 10 kg	■		■	■
	10 kg ~ 30 kg		■		■
	10 kg ~ 50 kg		■		■
	> 30 kg	■	■	■	■

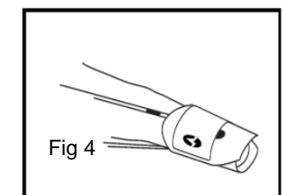
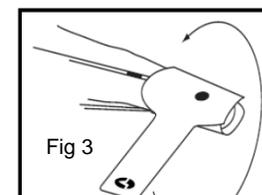
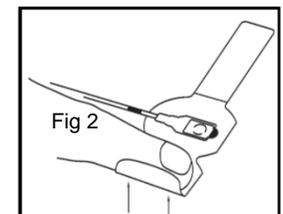
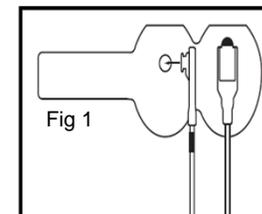
YI Sensor with Standard Multi-Site Wrap

Attaching the Attachment Tapes to the LNCS YI Sensor Standard Multi-site Wrap

1. Remove the backing from the attachment tape leaving the backing on the tab end.
2. Push the "button" on the emitter sensor pad (cable is marked with a red indicator) through the hole on the left and the remaining "button" on the photodetector sensor pad through the hole on the right (Fig 1).

Attaching the Sensor to the Patient

1. Orient the sensor on the selected site so that the photodetector window is on the fleshy portion and the emitter window (cable marked with a red indicator) is directly opposite, secure the small tape end (Fig 2).
2. Orient the cable along the side of the finger, hand, foot or toe (Fig 3).
3. Remove the remaining backing from the tape and wrap the tape loosely enough to avoid restricting circulation around the site and to maintain proper alignment of the detector and emitter windows (Fig 4).



LNCS YI CleanShield® Multisite Wrap

CleanShield® Multisite Wrap

1. Remove the backing from the attachment tape leaving the backing on the tab end.
2. Push the “button” on the emitter sensor pad (cable is marked with a red indicator) through the hole on the left and the remaining button on the photodetector sensor pad through the hole on the right (Fig. 4).
3. Fold the upper portion of the attachment tape down over the sensor pads (Fig. 5).
4. Remove the release liner from the folded over section of the attachment tape prior to applying the sensor to the site.

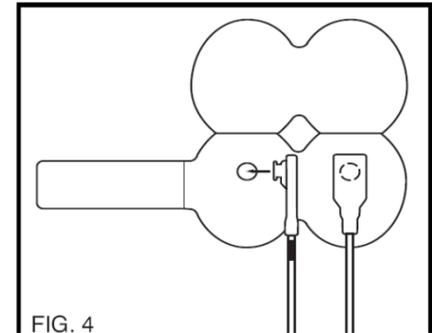


FIG. 4

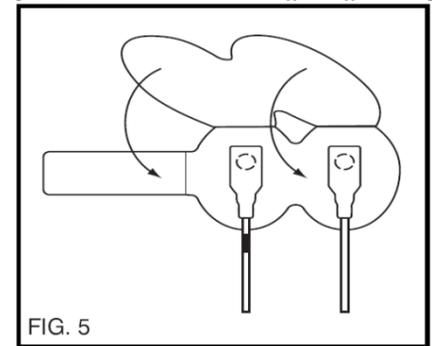


FIG. 5



YI Sensor with Petite Wrap

Attaching the Attachment Tapes to the LNCS YI Sensor Petite Wrap

1. Remove the backing from the attachment tape leaving the backing on the tab end.
2. Push the “button” on the emitter sensor pad (cable is marked with a red indicator) through the hole on the left and the remaining “button” on the photodetector sensor pad through the hole on the right.



Attaching the Sensor to the Patient

1. Orient the sensor on the selected site so that the photodetector window is on the fleshy portion and the emitter window (cable marked with a red indicator) is directly opposite, secure the small tape end.
2. Orient the cable along the finger, hand, foot or toe.
3. Remove the remaining backing from the tape and wrap the tape loosely enough to avoid restricting circulation around the site and to maintain proper alignment of the detector and emitter windows.



YI Sensor with Foam Wrap

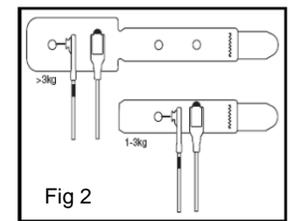
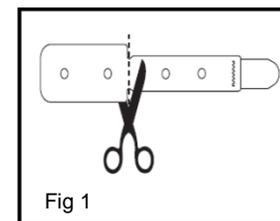
Attaching the Foam Wrap to the LNCS YI Sensor

1. The foam wrap can be trimmed to shorter length for smaller site applications such as a child's finger or toe or a pre-term infant's foot or hand (Fig 1).
2. Push the "button" on the emitter sensor pad (cable is marked with a red indicator) through the hole on the left and the remaining "button" on the photodetector sensor pad through the hole on the right (Fig 2).



Attaching the Sensor to the Patient

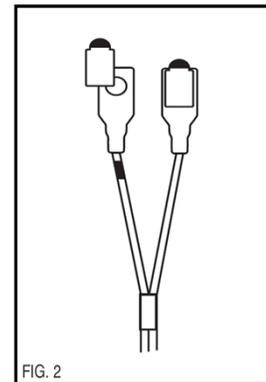
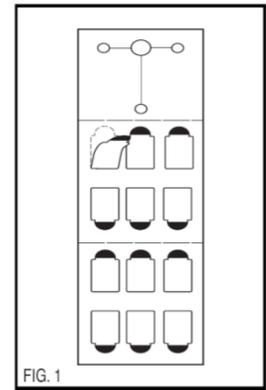
1. Orient the sensor on the selected site so that the photodetector window is on the fleshy portion and the emitter window (cable marked with a red indicator) is directly opposite.
2. Wrap the Foam Wrap loosely enough to avoid restricting circulation around the site and to maintain proper alignment of the detector and emitter windows, secure the Foam Wrap using the "hook and loop" tab.
3. Orient the cable along the side of the finger, hand, foot or toe.



LNCS YI Adhesive Squares

Attaching the Adhesive Squares to the Sensor

1. For improved adherence of the adhesive squares to the sensor wipe the sensor pads with 70% isopropyl alcohol and allow to dry prior to attaching the adhesive squares.
2. Remove the adhesive squares from the backing (Fig. 1) and attach one square to each window of the sensor pads (emitter and detector). Avoid touching the sticky side prior to applying to the sensor pads (Fig. 2).
3. Do not remove the release liner until ready to apply the sensor to the site.



Caution: Do not use adhesive squares on fragile skin.

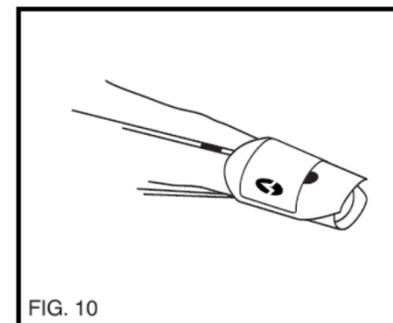
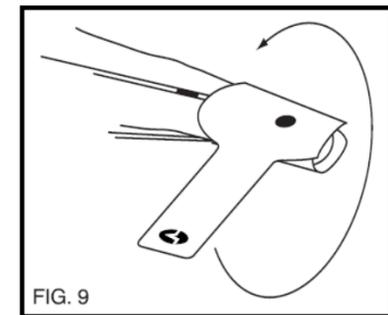
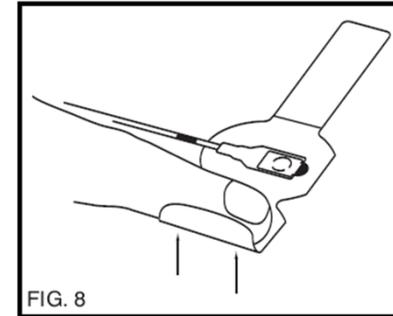
Adhesive squares are not required for use with the CleanShield® Multisite Wrap

Attaching the LNCS YI Sensor

Attaching the LNCS YI Sensor

1. Orient the LNCS YI on the selected site so that the photodetector window is on the fleshy portion and the emitter window (cable marked with a red indicator) is directly opposite, secure the small tape end (Fig. 8).
2. Orient the cable along the side of the finger, hand, foot or toe (Fig. 9).
3. Remove the remaining backing from the tape and wrap the tape loosely enough to avoid restricting circulation around the site and to maintain proper alignment of the detector and emitter windows (Fig. 10).
4. If using the Foam Wrap, wrap loosely enough to avoid restricting circulation around the site and to maintain proper alignment of the detector and emitter windows, secure the Foam Wrap using the "hook and loop" tab.
5. Clip the clothing clip to the patient's clothing to reduce cable pulling on the measuring site.

Note – When placing the LNCS YI on a finger or toe, the emitter (cable marked with a red indicator) pad must be placed on the nail side.



Cleaning LNCS YI Sensors

To Surface Clean the sensor:

1. Remove the sensor from the patient and disconnect it from the attachment wrap and patient cable. Remove any adhesive squares.
2. Clean the LNCS YI by wiping it with a 70% Isopropyl alcohol or mild detergent.
3. Allow the sensor to dry prior to placement on a patient. If low-level disinfection is required, use a 1:10 bleach / water solution.
4. Saturate a cloth or gauze pad with the cleaning solution and wipe all surfaces of the YI sensor and cable.
5. Saturate another cloth or gauze pad with sterile or distilled water and wipe all surfaces of the YI sensor and cable.
6. Dry the sensor and cable by wiping all surfaces with a clean cloth or dry gauze pad.

CAUTION: Do not use undiluted bleach (5-5.25% Sodium Hypochlorite) or any cleaning solution other than those recommended as permanent damage to the sensor may occur.

Cleaning LNCS YI Sensors

To clean or disinfect the sensor using a soaking method

1. Remove the sensor from the patient and disconnect it from the attachment wrap and patient cable. Remove any adhesive squares.
2. Place the sensor in the cleaning solution (1:10 bleach / water solution), such that the sensor pads and desired length of patient cable are completely immersed using care not to submerge the cable connector.
3. Soak the cable and sensor for at least 10 minutes and not greater than 24 hours.
4. Remove from the cleaning solution.
5. Place the sensor and the cable in room temperature sterile or distilled water for 10 minutes. Do not immerse connector.
6. Remove from the water.
7. Dry the sensor and cable by wiping all surfaces with a clean cloth or dry gauze pad.

CAUTION: Do not use undiluted bleach (5-5.25% Sodium Hypochlorite) or any cleaning solution other than those recommended as permanent damage to the sensor may occur.