

Moyo - Fetal Heart Rate Monitor

Flip Chart



Practical information

Introduction

This flip-chart will walk you through the use of Moyo. It will be interactive, meaning that there will be questions asked to reassure your knowledge on how to use Moyo. After the training, learners can:

- Understand how Moyo works
- Use Moyo on patients
- Use Moyo to **support** medical decision making. Moyo only monitors, it can not make obstetric decisions.

Additional information on Moyo can be found in the Moyo user guide.

Cautions

- Read the user guide and become familiar with the operation of the device prior to use
- Moyo is intended for use by authorized healthcare professionals only
- Moyo is intended for monitoring only one fetus at a time

Preparation

Learners

This training is ideal for 1 facilitator and learners.

Equipment

1 Moyo for the learners and 1 Moyo for the instructor.

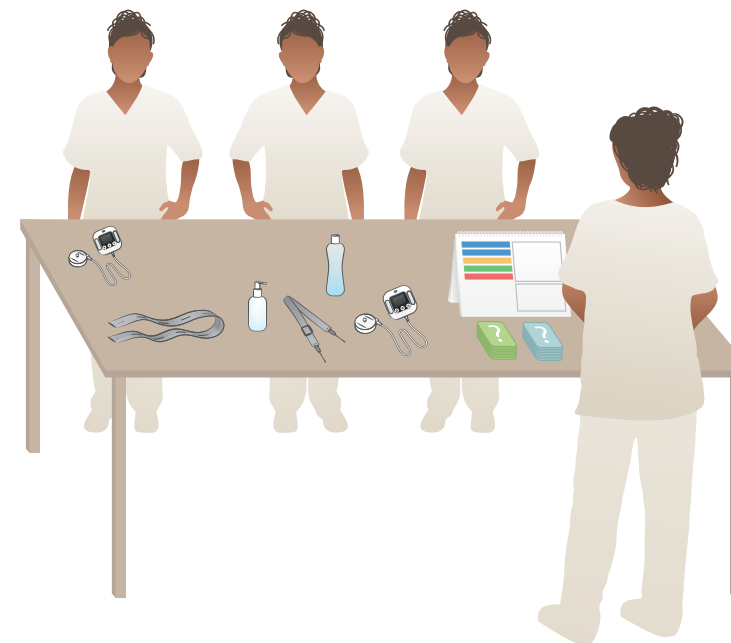
Make sure Moyo devices are charged sufficiently before the training.

In addition, you need:

- Ultrasound gel
- A cup of water
- Abdominal transducer belt
- Neck-strap
- Flip Chart

Setup

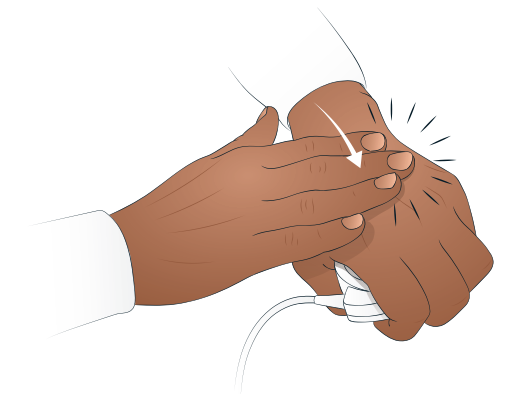
Prepare the equipment and place on the table as illustrated below. Make sure Moyo devices are charged sufficiently before training



Tips

How to simulate FHR

Place the patient side of the ultrasound transducer inside your hand, and tap on the top of your hand like this:



Make sure the ultrasound transducer has good skin contact inside your hand.

Acronyms

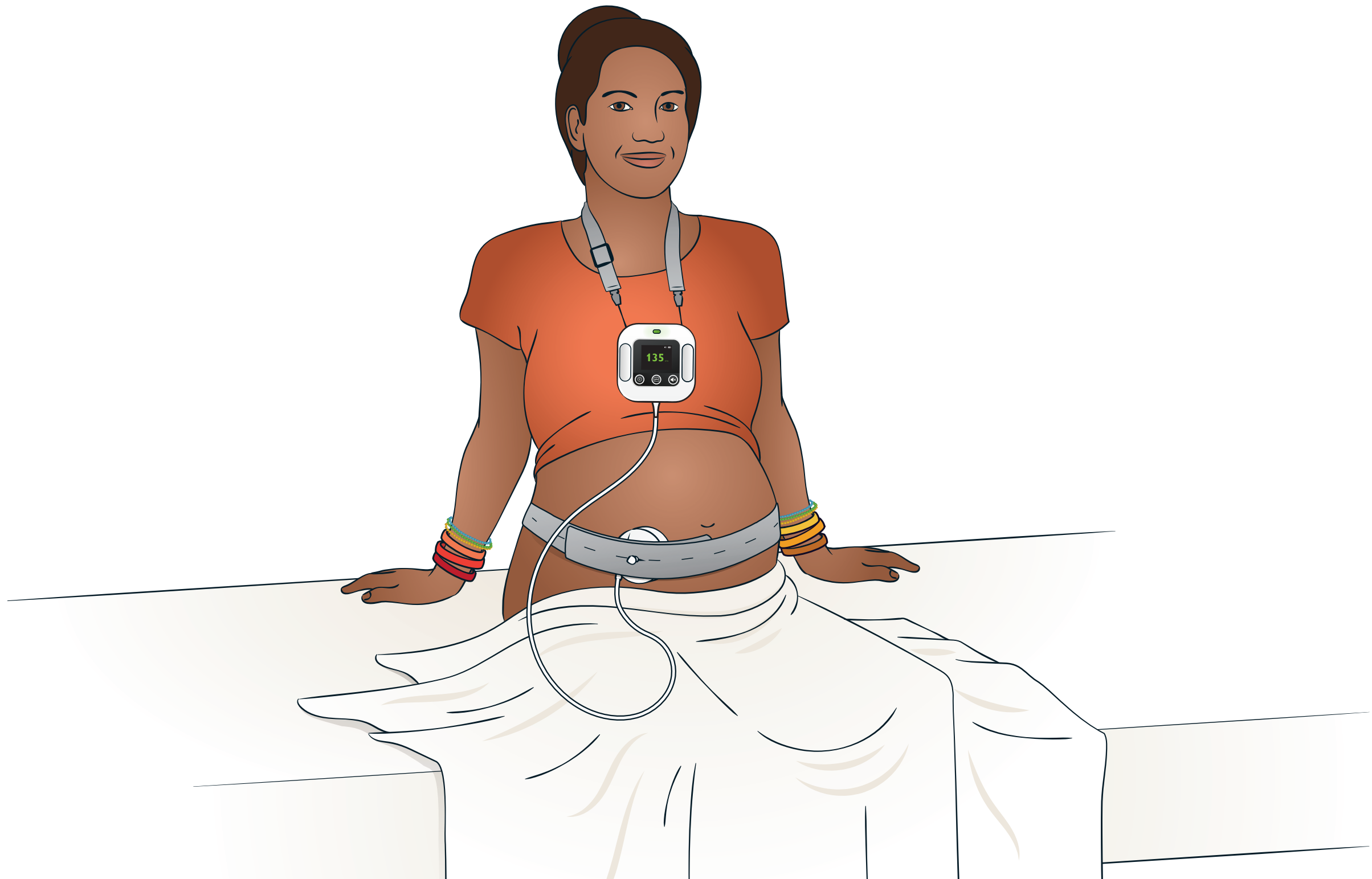
HR = Heart rate

FHR = Fetal heart rate

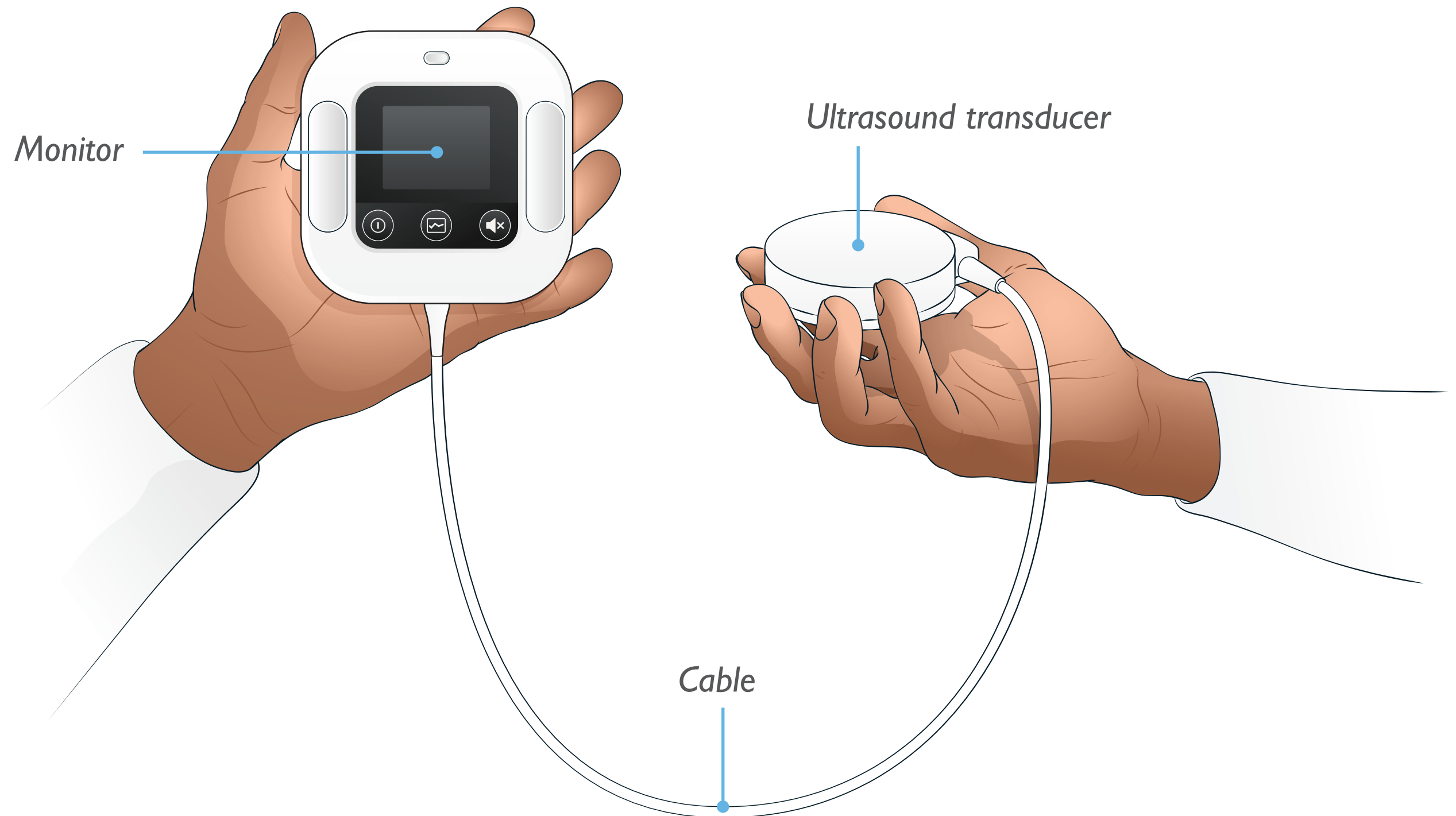
MHR = Maternal heart rate

Chapter 1

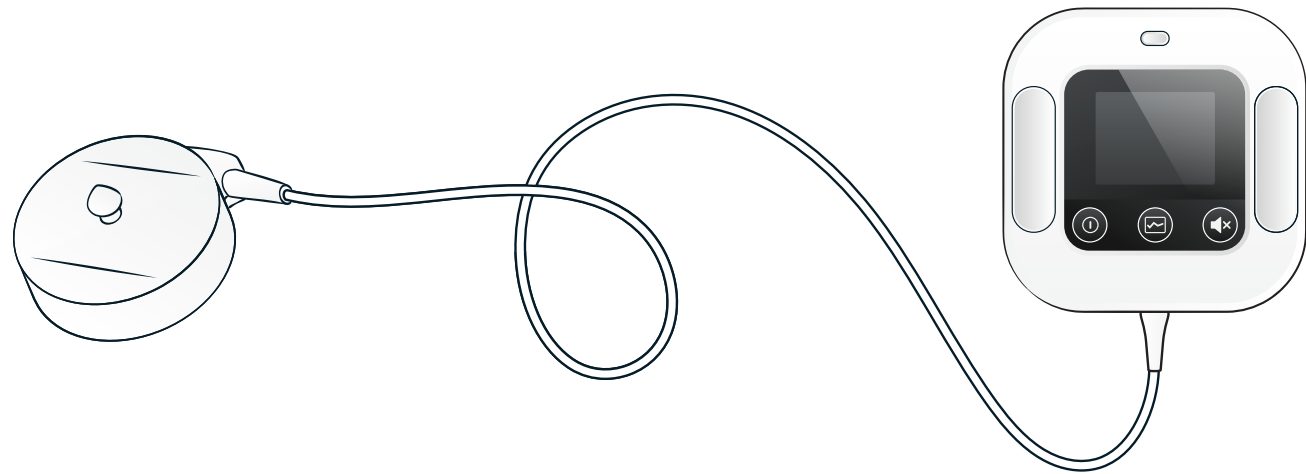
Introduction of Moyo



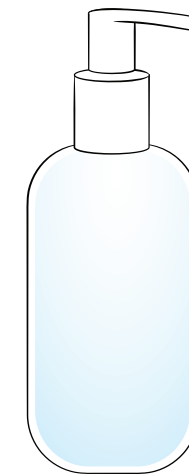
This is Moyo



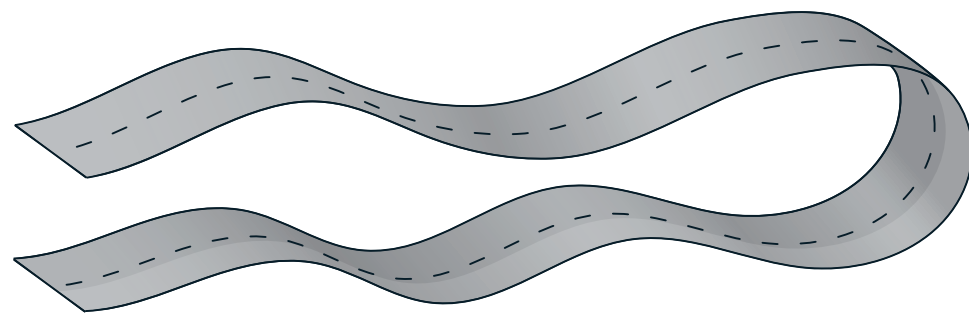
This is what you need to use Moyo



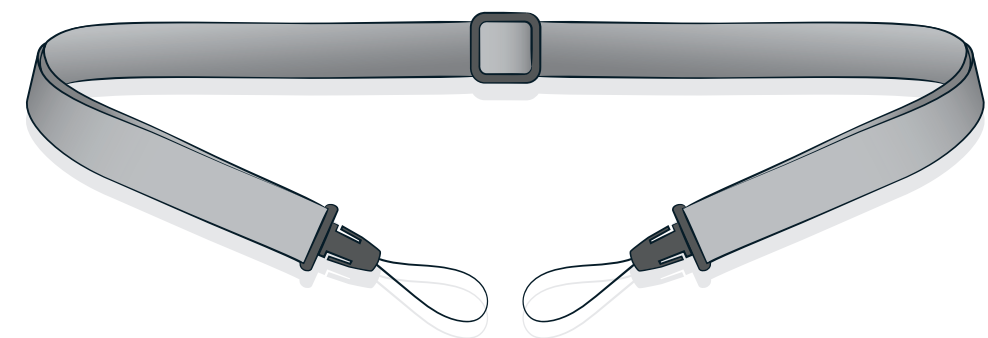
Moyo



Ultrasound gel

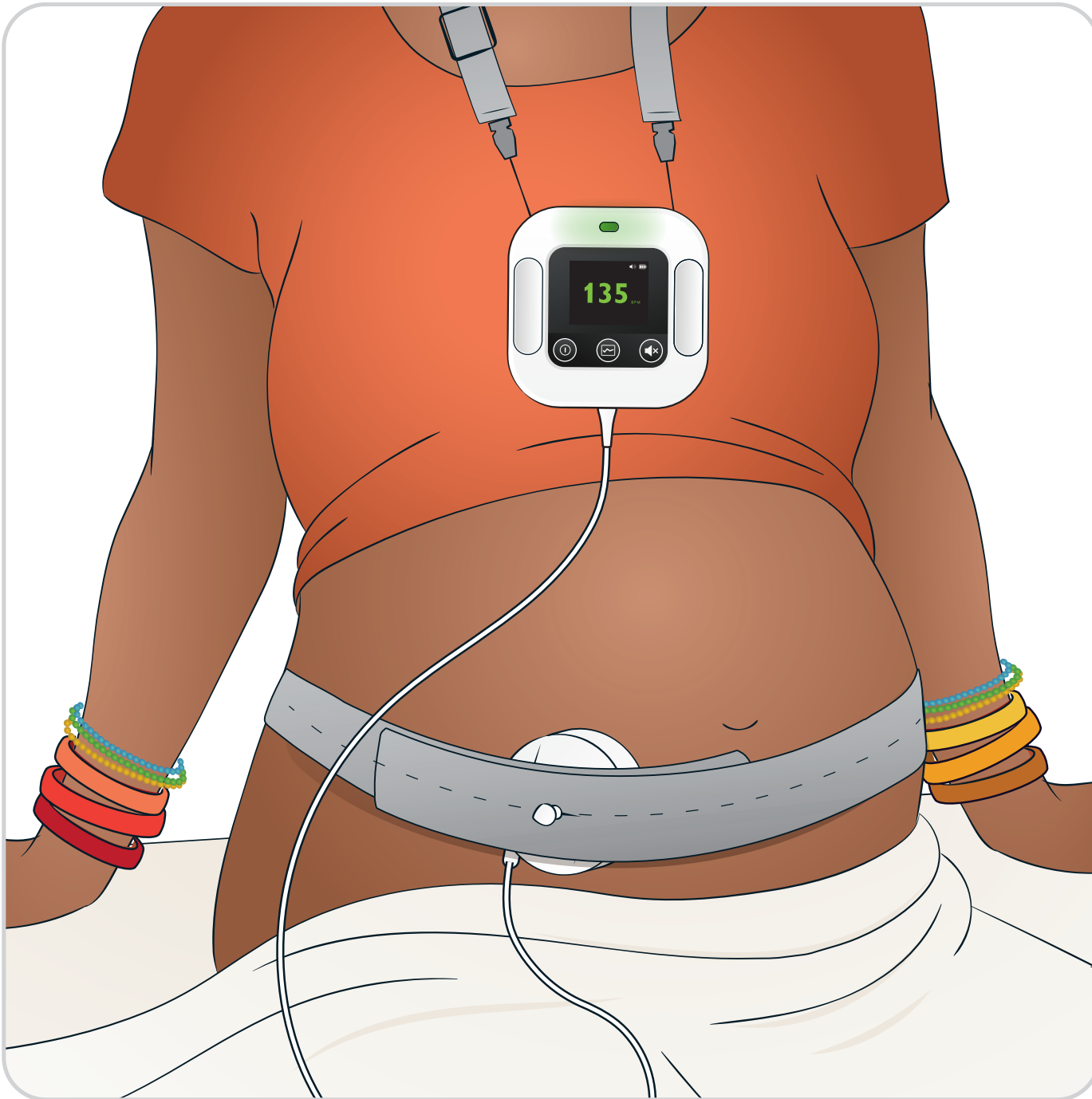


Abdominal transducer belt
(To attach the ultrasound transducer on the mother)



Neck-strap
(Allows Moyo to be carried by the mother)

Moyo has a rechargeable battery



When fully charged you can use Moyo more than 10 hours

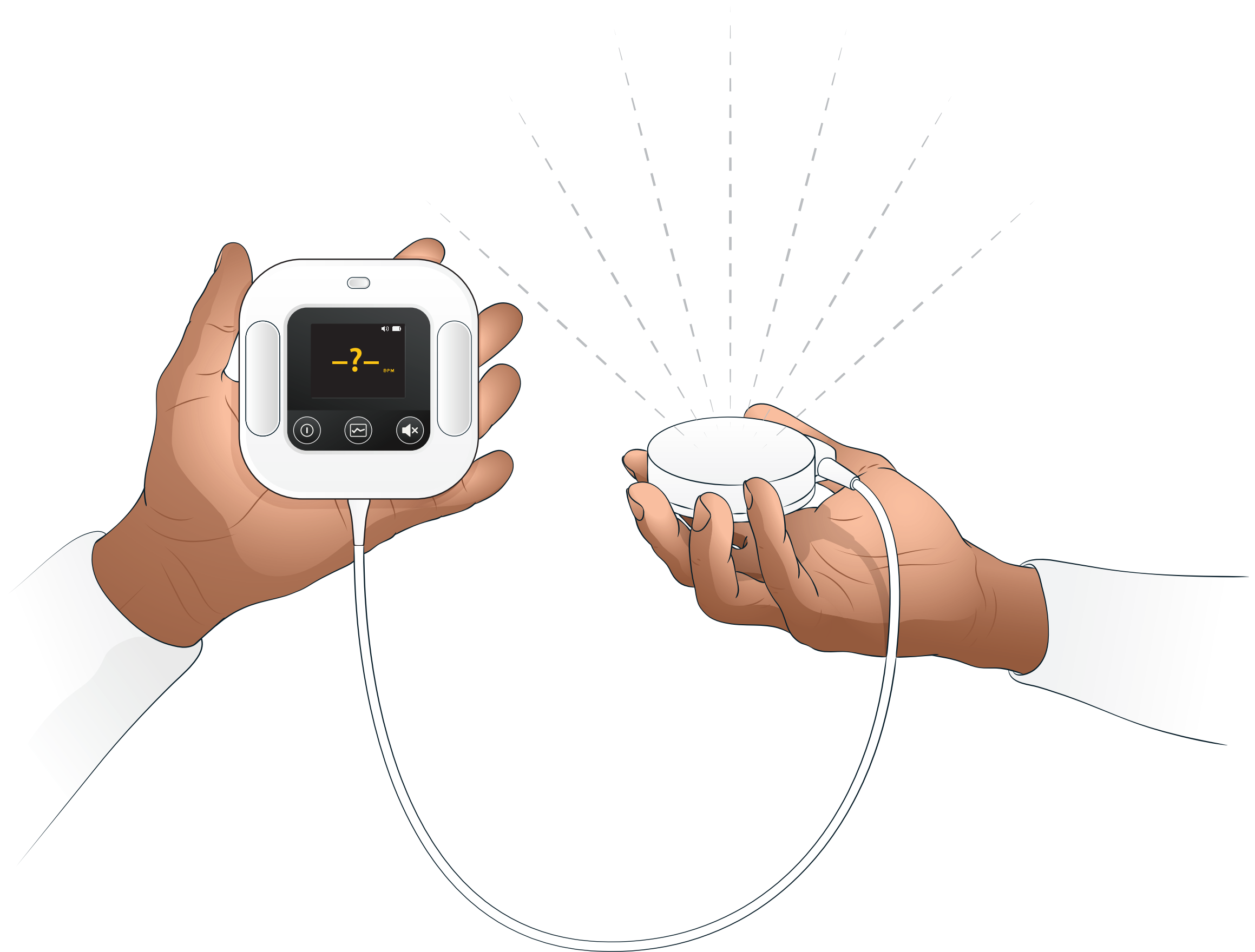


Charging time can be 5 hours when the battery is empty

Turning on Moyo:
Press and hold the power button for at least 0.5 seconds



Ultrasound transducer and feedback



To turn off Moyo:
Press and hold the “power on/off” button
for at least 1.5 seconds.



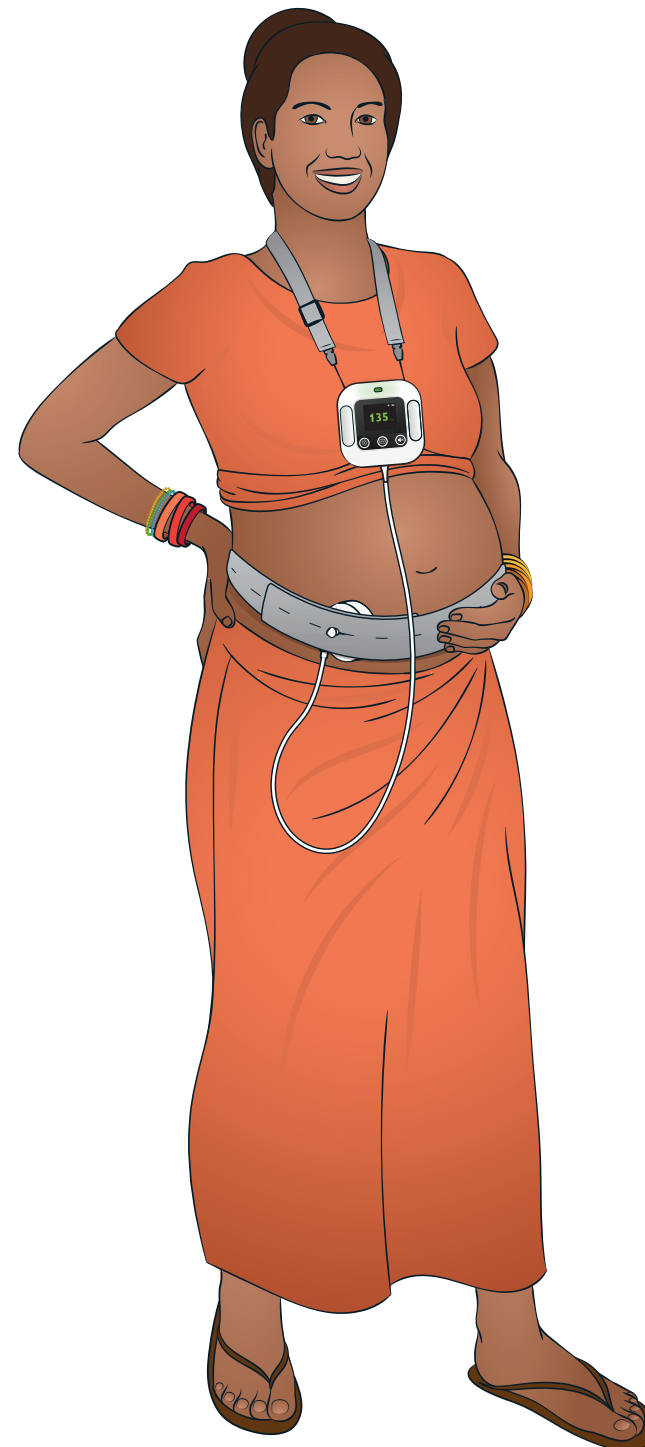
Chapter 1 - Questions

1. How many hours can Moyo be used when fully charged?
2. What does `-?-` mean?



Chapter 2

Monitoring FHR using Moyo



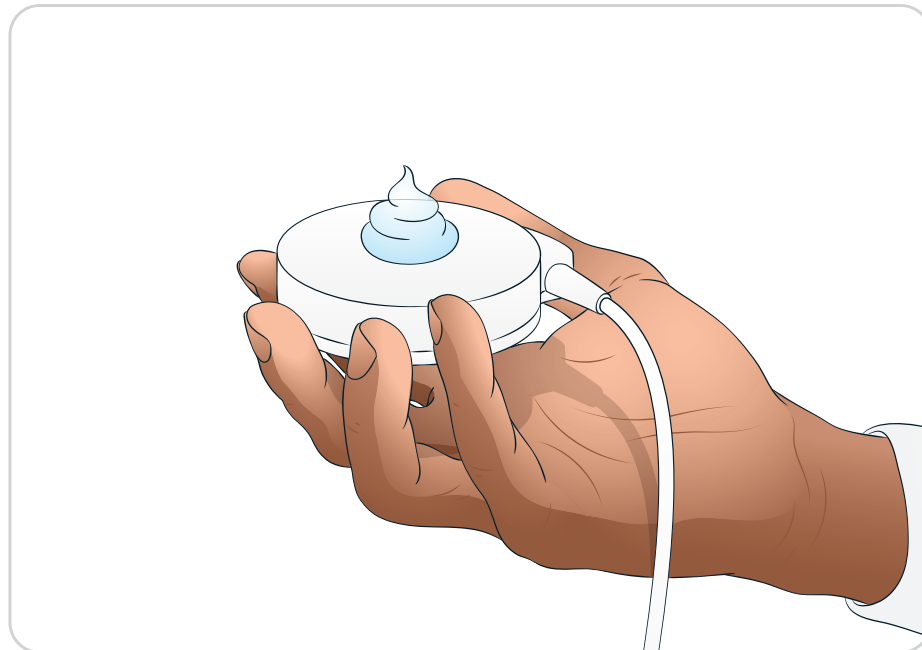
Moyo can be used for intermittent monitoring



Moyo can be used for continuous monitoring



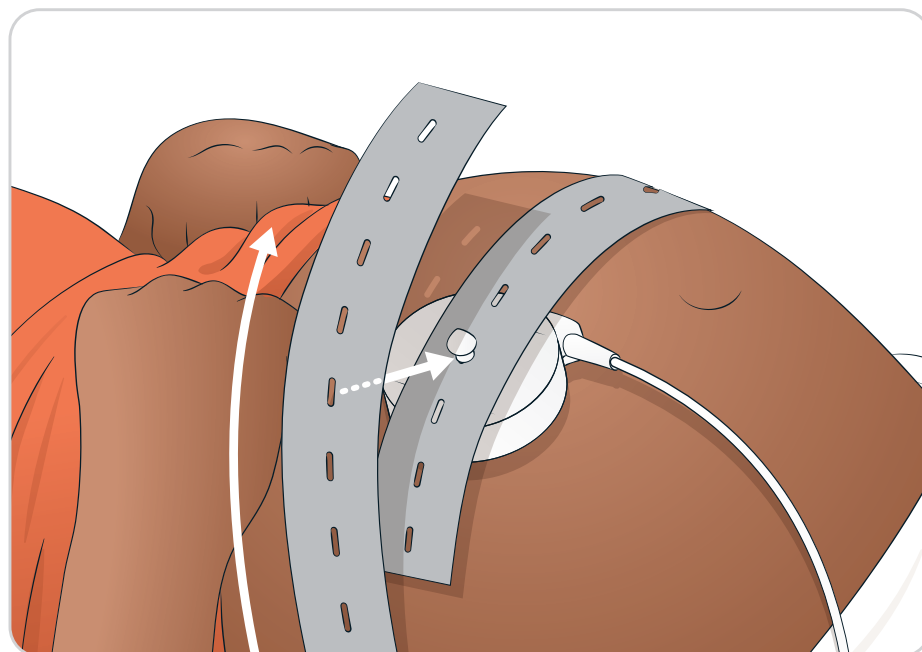
This is how to use Moyo



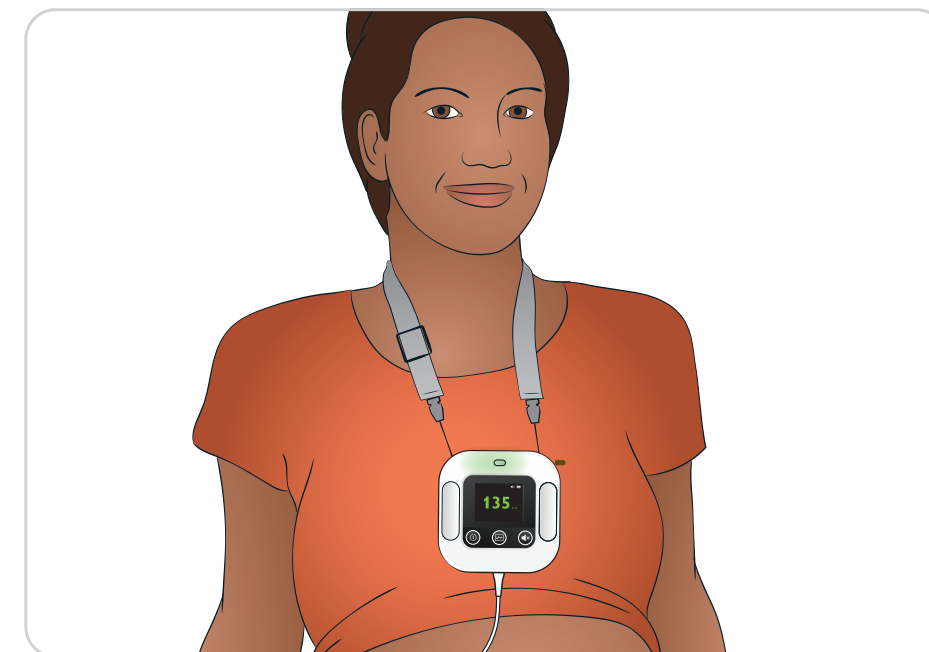
Put ultrasound gel on the ultrasound transducer.



Palpate, place and listen to find the FHR.



The ultrasound transducer can be attached to the mother.



Neck strap allows the mother to move freely.

Moyo only monitors,
it can not make obstetric decisions.



FHR ranges

Abnormally High FHR
(Yellow and red)

More than
160 bpm

Normal FHR
(Green)

Between
110 - 160 bpm

Abnormally Low FHR
(Yellow and red)

Less than
110 bpm

Moyo FHR history



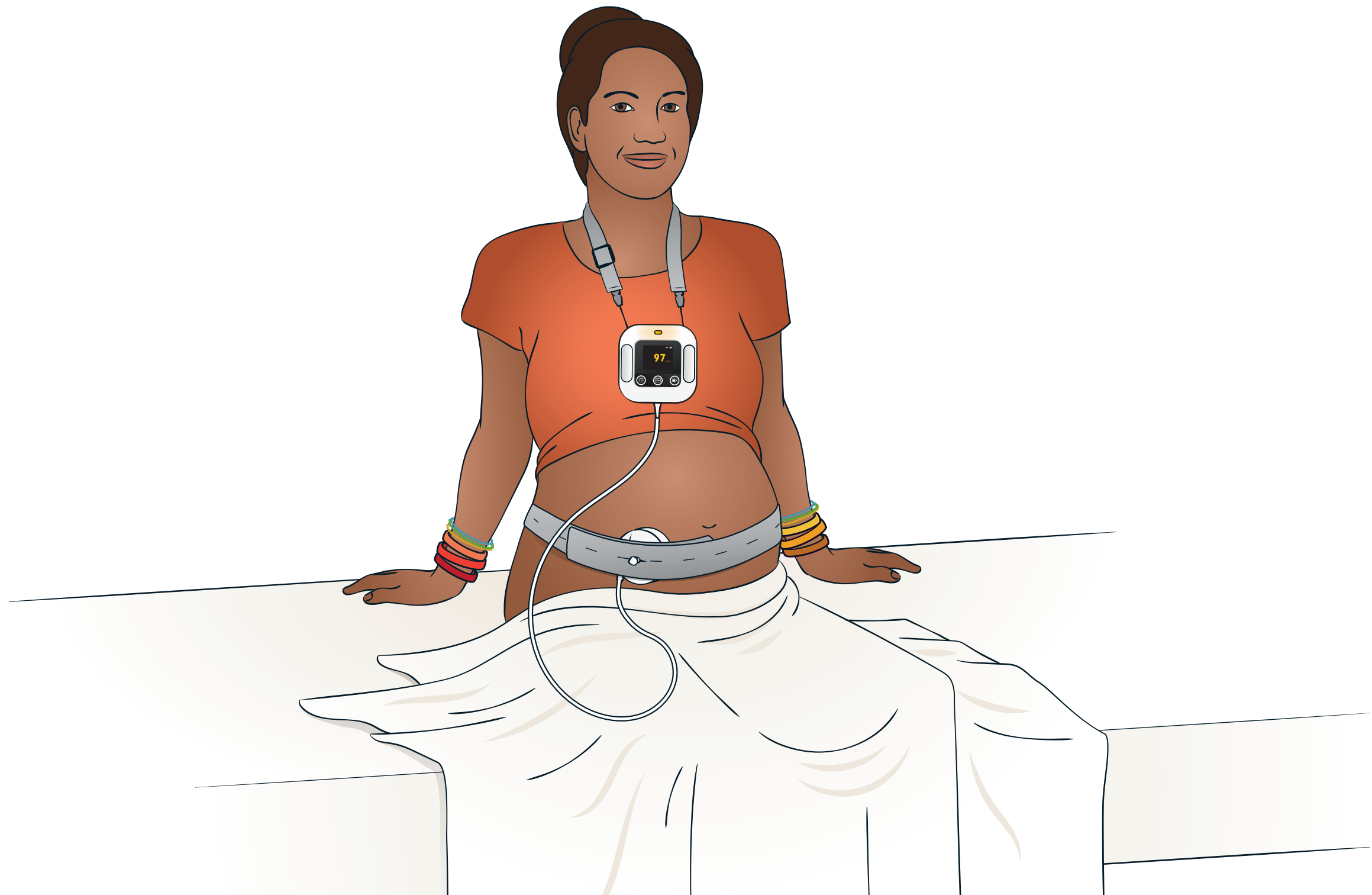
30
minutes

Chapter 2 - Questions

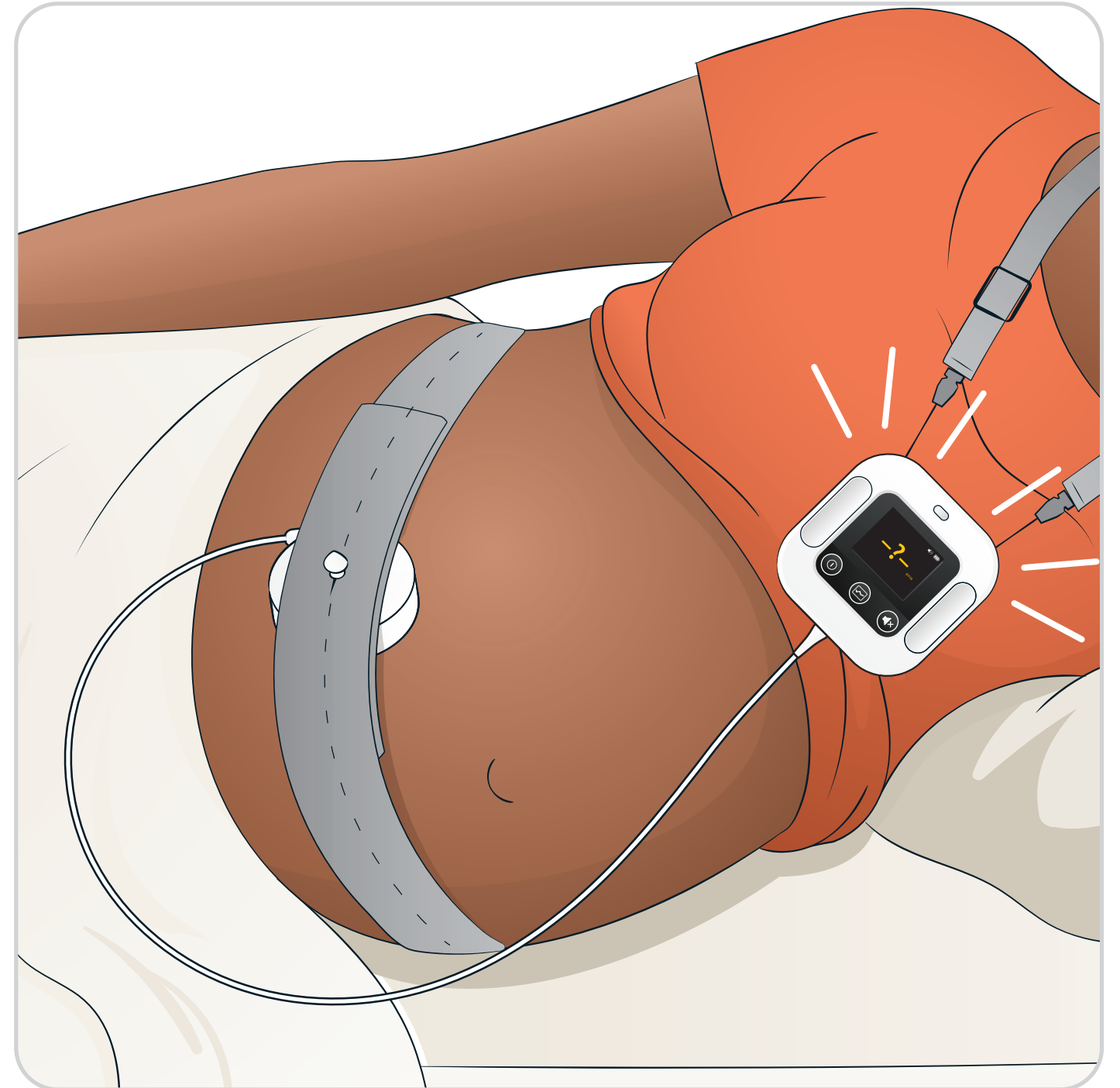
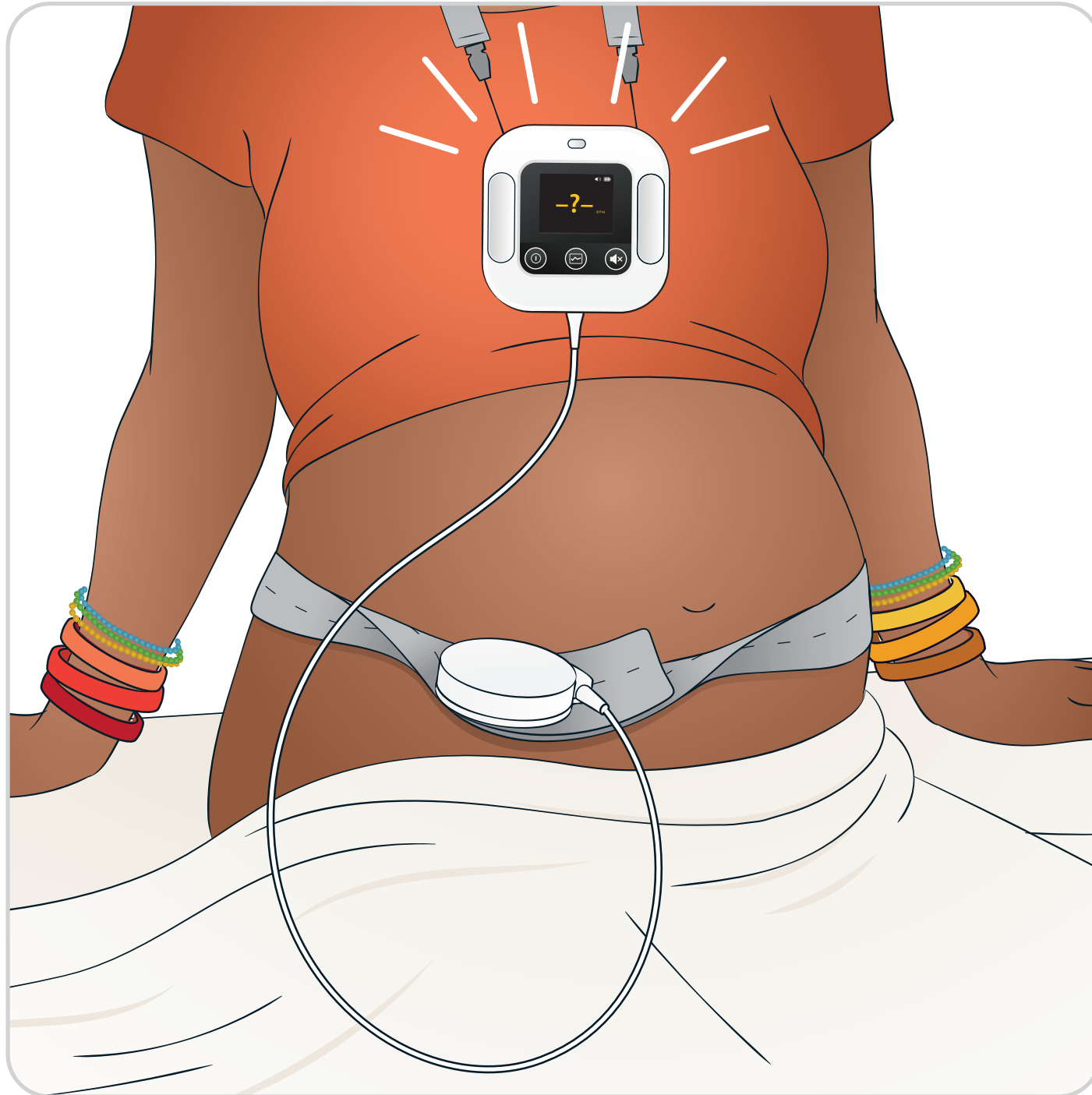
1. Does Moyo make obstetric decisions for you?
2. What do you need to use Moyo?
3. How do you use Moyo?

Chapter 3

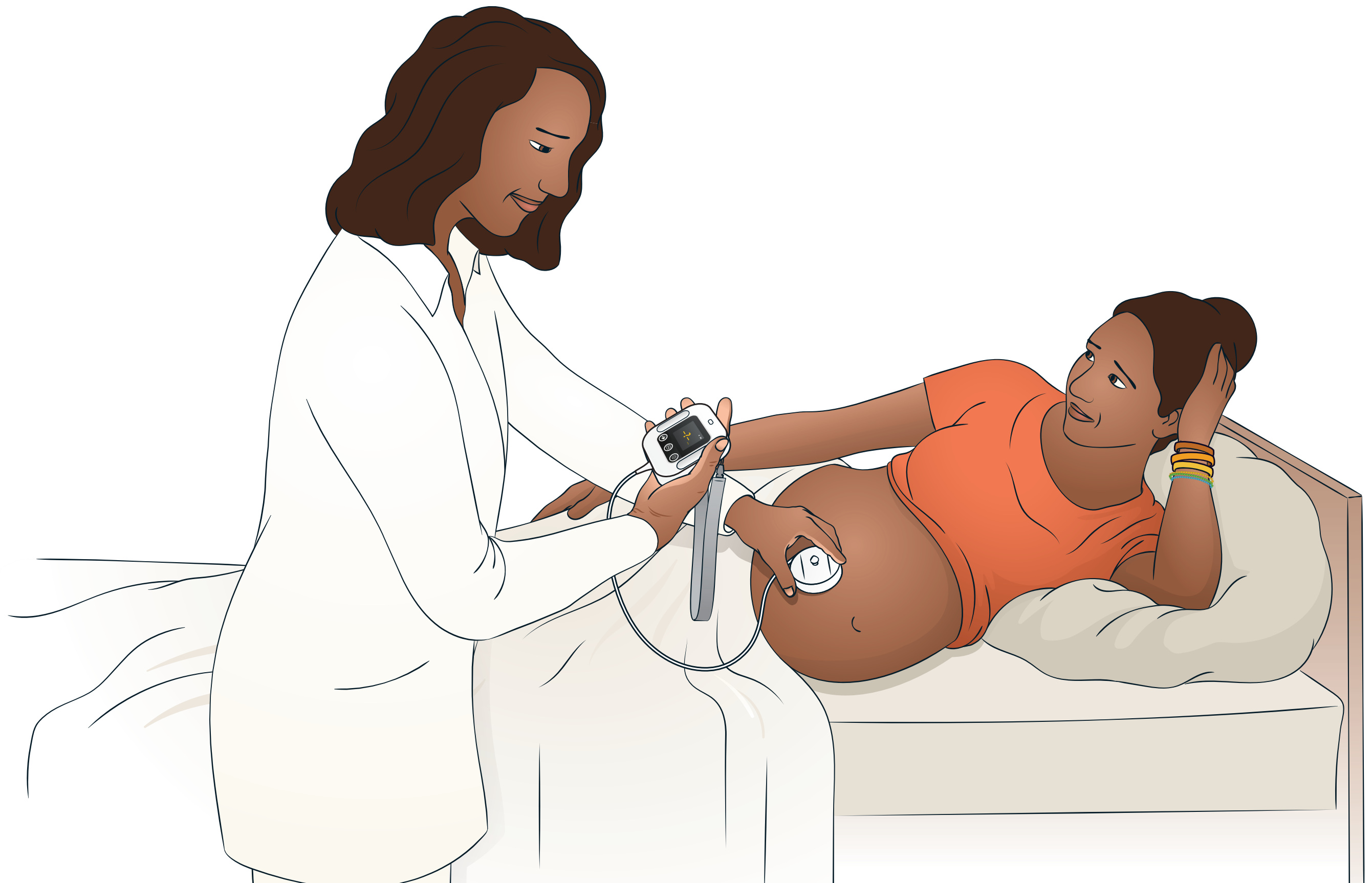
How can Moyo assist you as a health worker?



Moyo provides a lost signal alarm

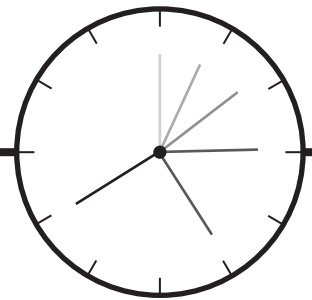


Reposition the ultrasound transducer



Abnormal FHR Alarm

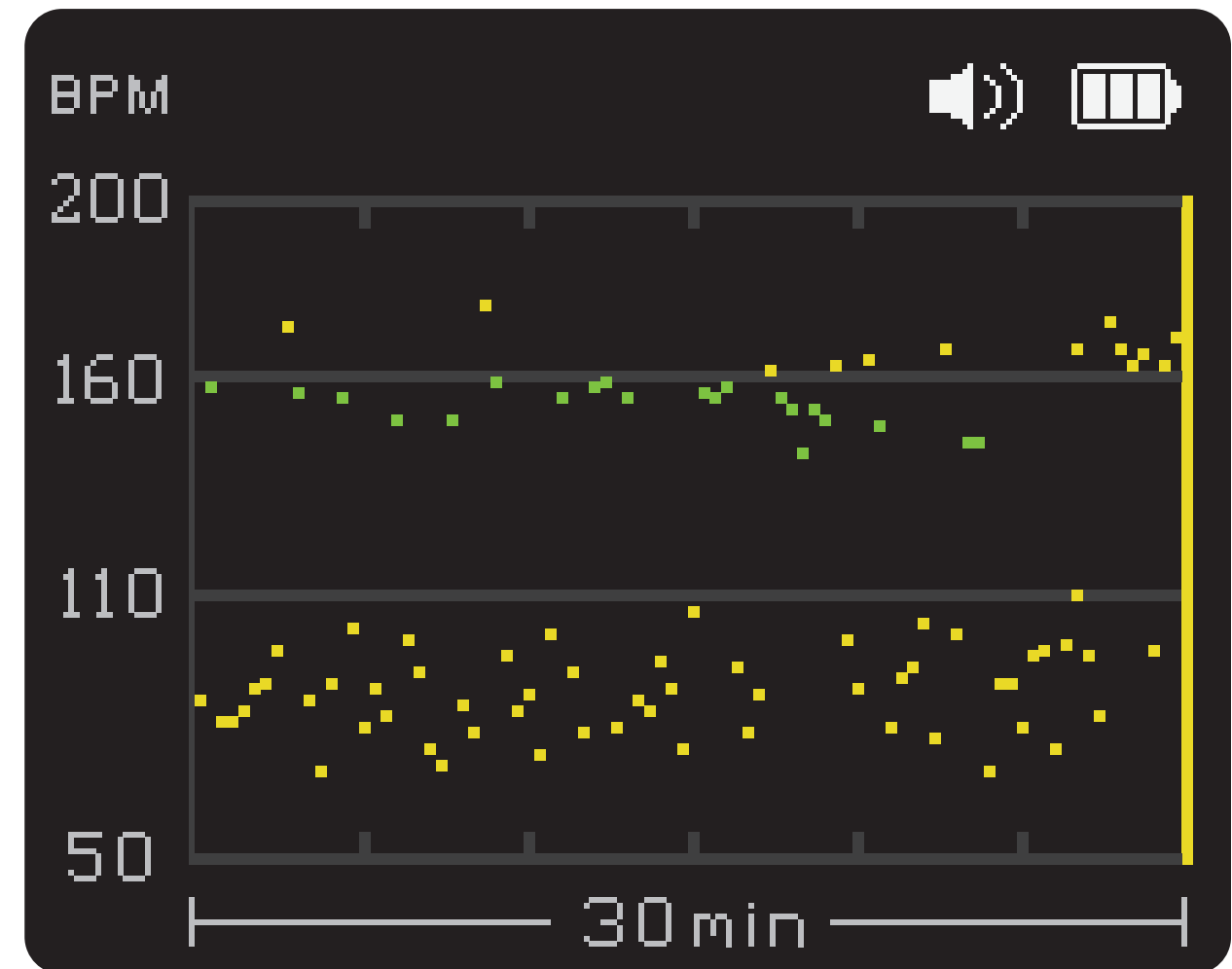
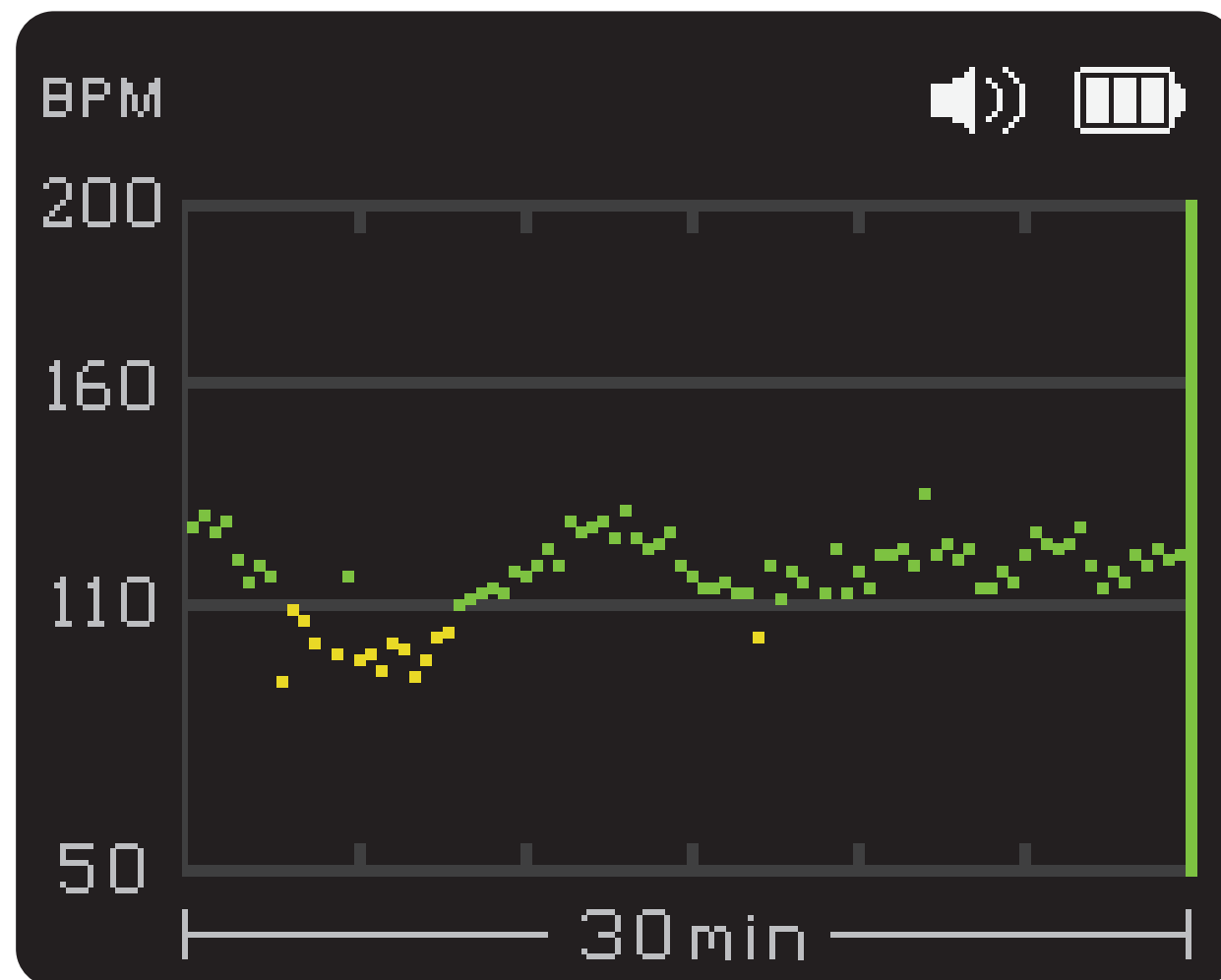
FHR stays **more than 160 bpm** the displayed number and blinking light will turn into yellow or red



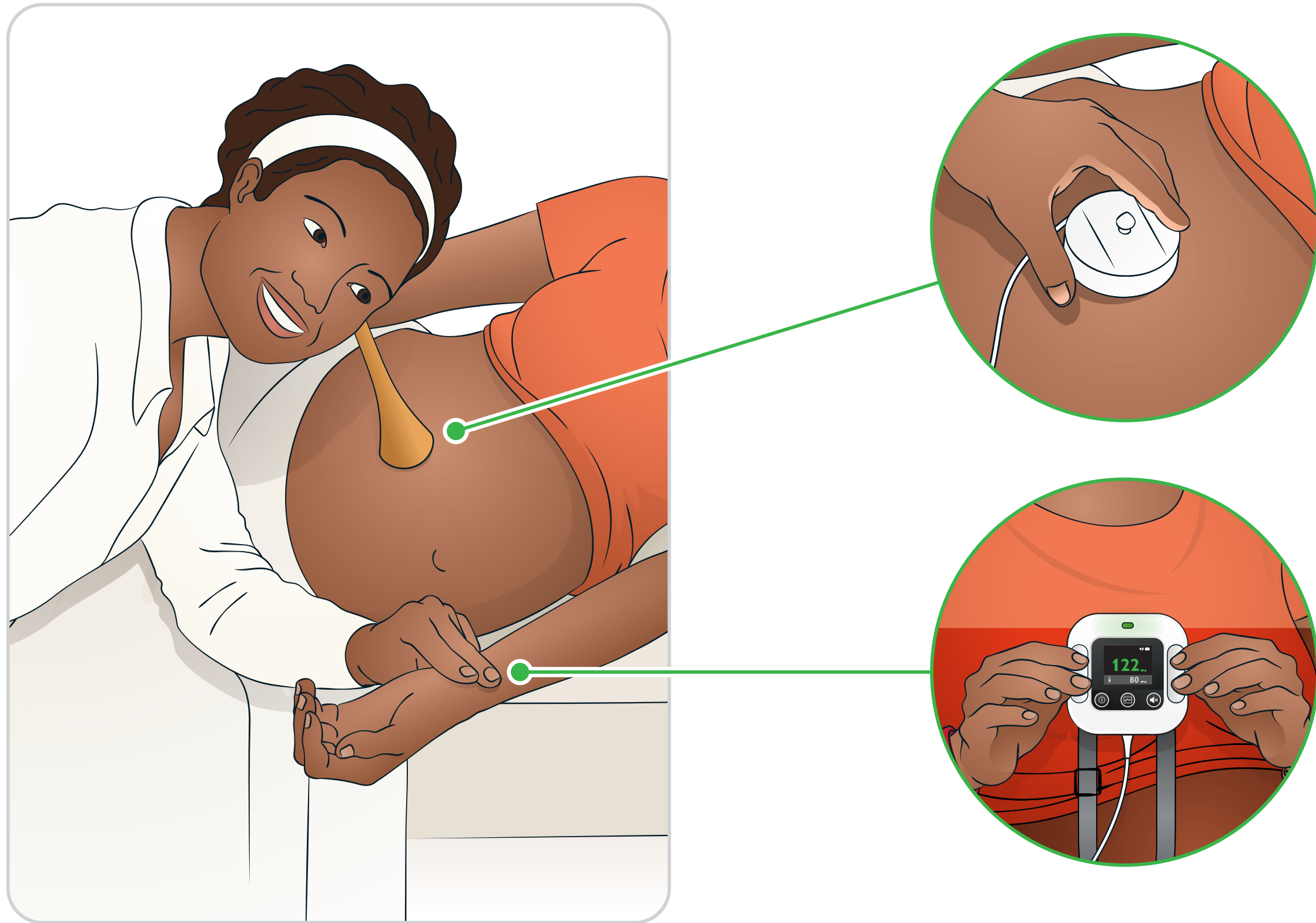
FHR stays **less than 110 bpm** the displayed number and blinking light will turn into yellow or red



FHR or MHR?

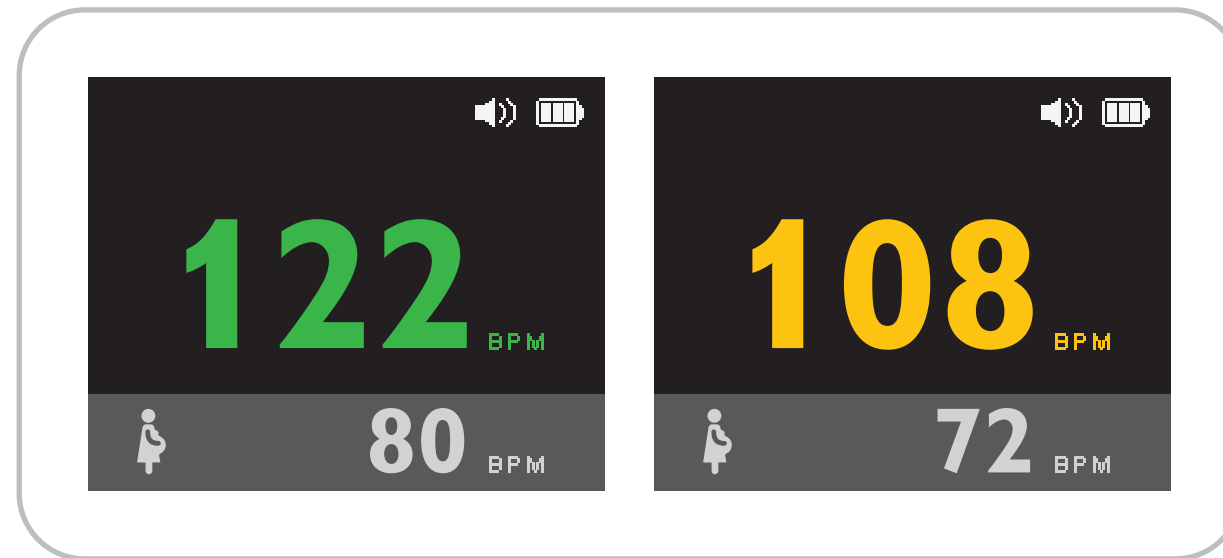


How to compare heart rates with Moyo?

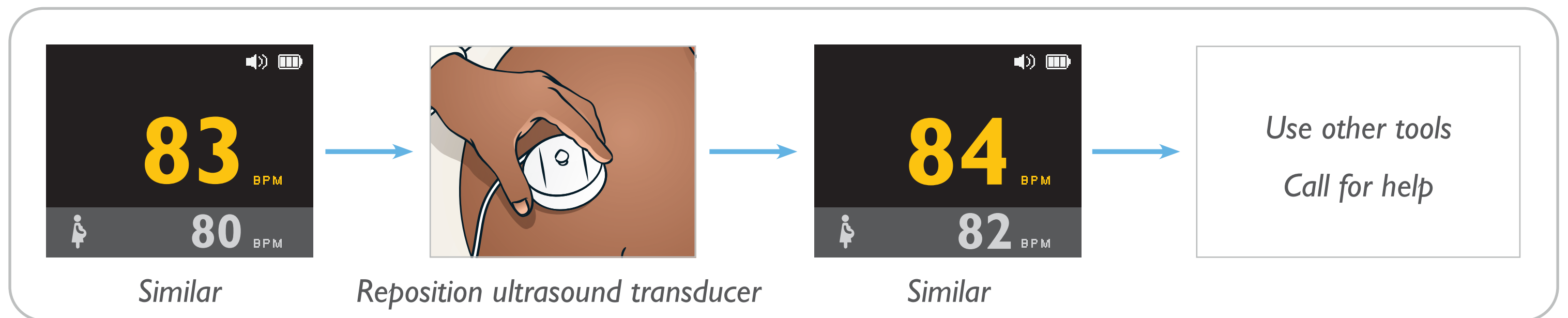


MHR or FHR?

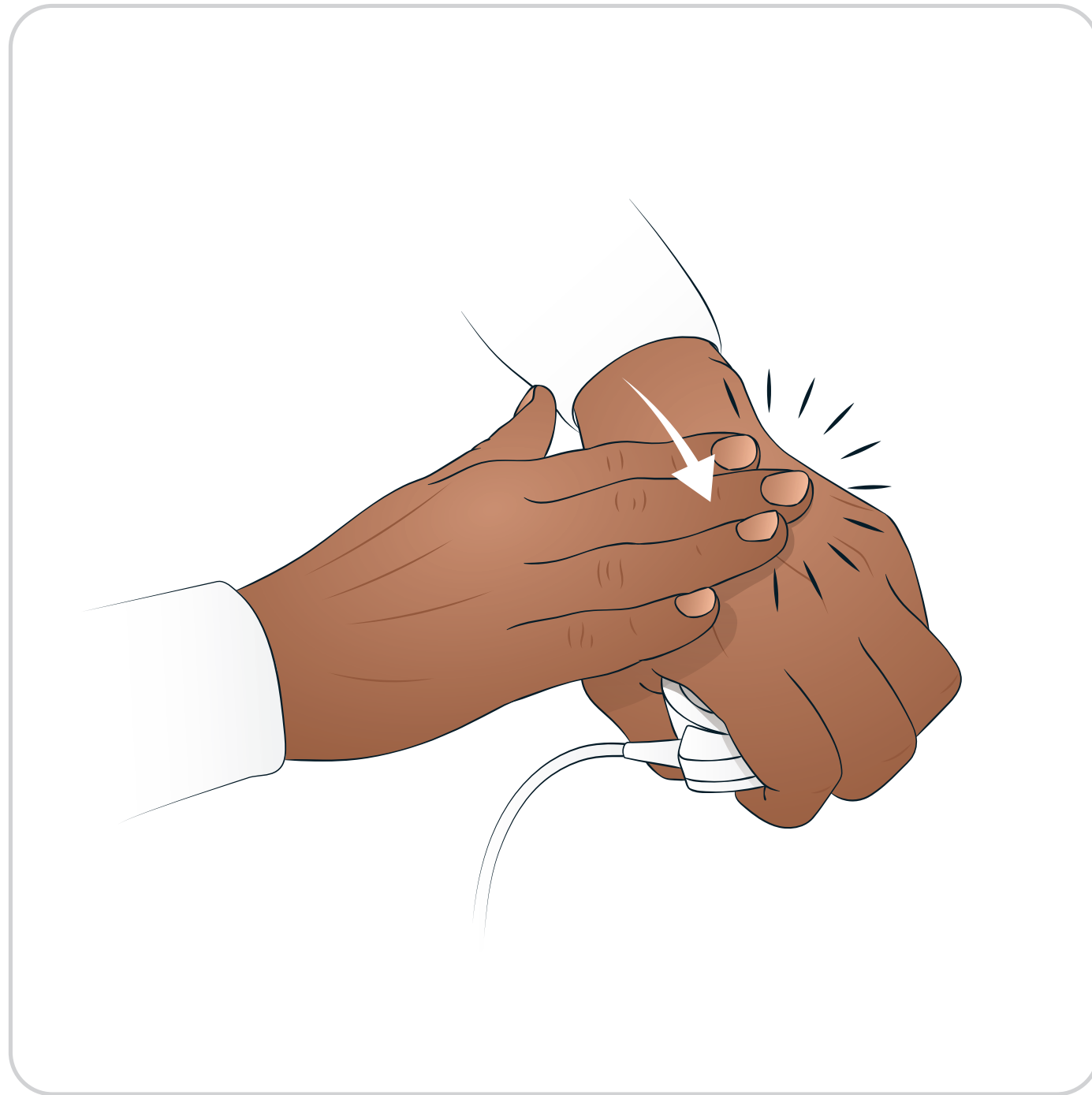
Different numbers



Similar numbers

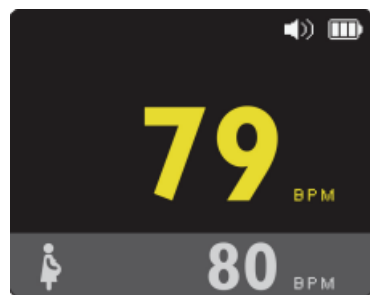


Let's play a little game!



Chapter 3 - Questions

1. How do you make sure that the number measured with the ultrasound transducer is the actual FHR?
2. What do you do if the FHR from the Moyo sensor is similar to the MHR?
3. If FHR is still low after repositioning the ultrasound transducer. What do you do?



4. What does these numbers mean and what will you do when you see them?

165 BPM

181 BPM

175 BPM

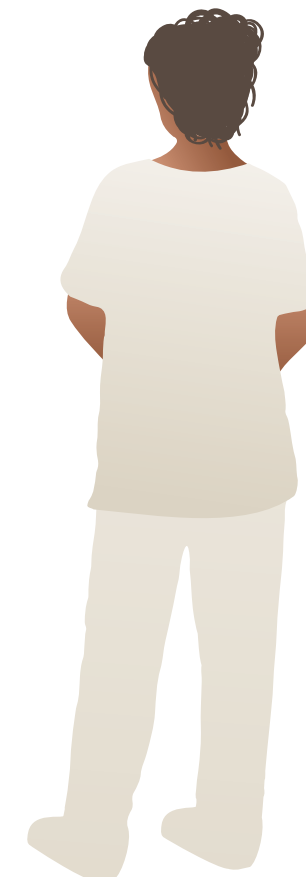
Chapter 4

How to care for your Moyo?

Care for your Moyo

	DO	DON'T
Use the neckstrap Dropping Moyo can damage the device.		
Always close the USB lid Fluids can damage the electronics inside Moyo.		
Protect the cable from tight bending Moyo cable can break from excessive bending.		
Keep the area around Moyo tidy Due to a magnetic force in Moyo, metal objects like staples can penetrate and damage the loudspeaker.		
Clean using a cloth dampened with soapy water (not dripping wet) Fluids can damage the electronics inside Moyo.		
Only use 70% ethanol for disinfection (dampened cloth or spray) Chlorine can damage Moyo.		

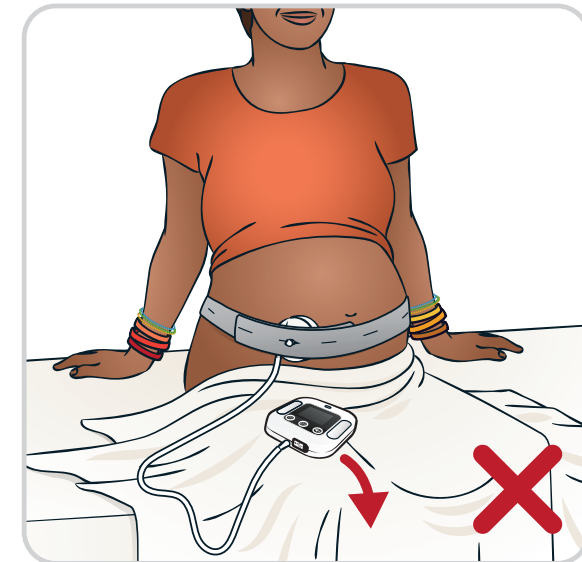
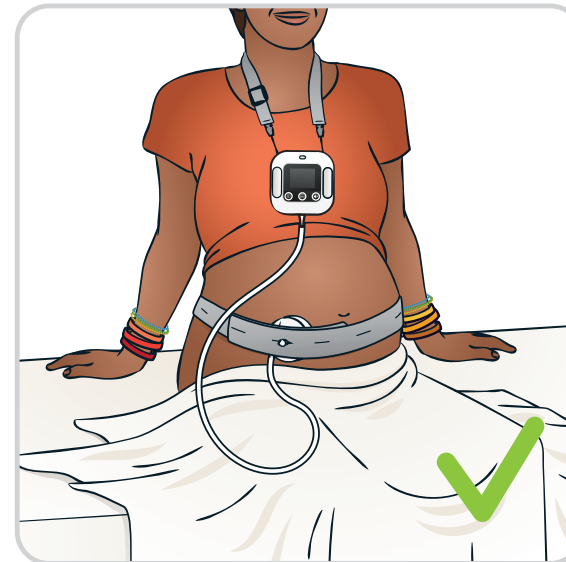
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How to care for your Moyo?

Use the neckstrap

Dropping Moyo can damage the device.



Always close the USB lid

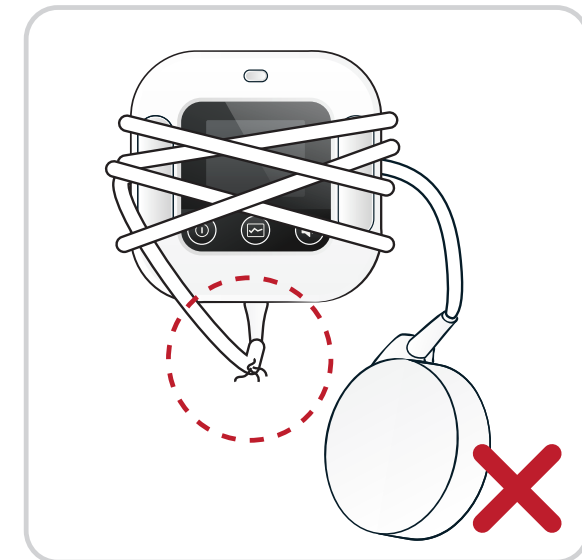
Fluids can damage the electronics inside Moyo.



How to care for your Moyo?

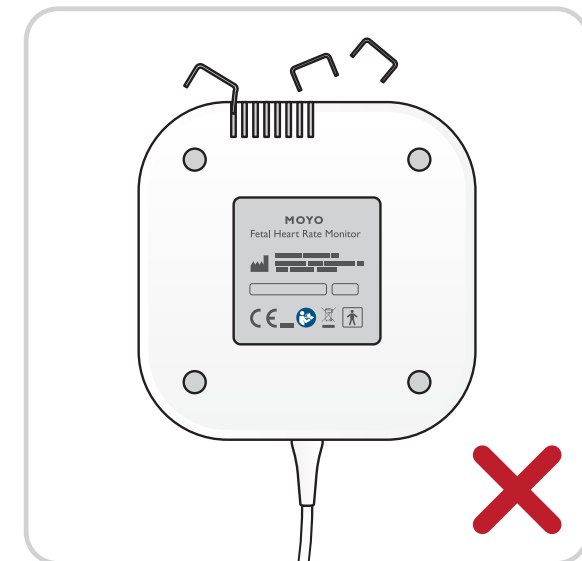
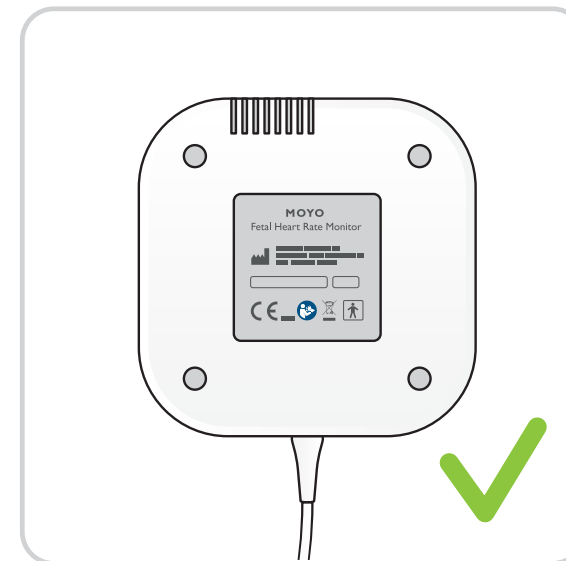
Protect the cable from tight bending

Moyo cable can break from excessive bending.



Keep the area around Moyo tidy

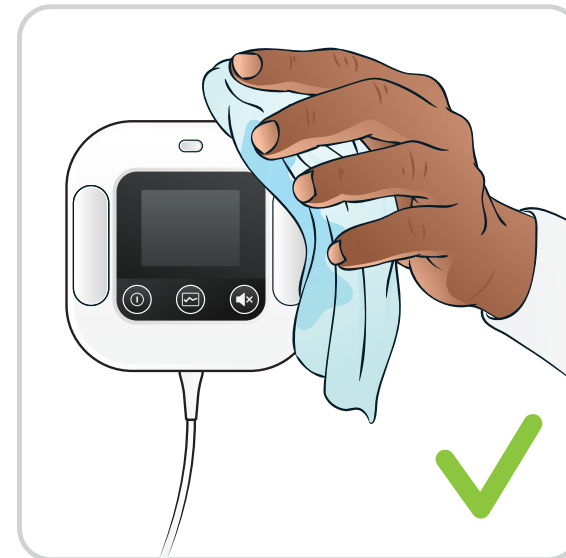
Due to a magnetic force in Moyo, metal objects like staples can penetrate and damage the loudspeaker.



How to care for your Moyo?

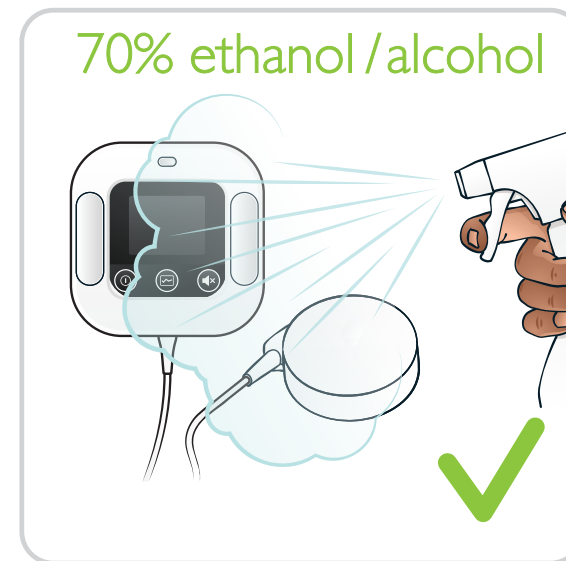
Clean using a cloth dampened with soapy water (not dripping wet)

Fluids can damage the electronics inside Moyo.



Only use 70% ethanol for disinfection (dampened cloth or spray)

Chlorine can damage Moyo.



Chapter 4 - Questions

Can you name at least 3 things that you can do to take care of your Moyo?

You have successfully completed the flip-chart
- well done!

