



Caution

Don't mark on the model and other components with pen or leave printed materials contacted on their surface.

Ink marks on the models will be irremovable.

MW77

Smart Nursing & Emergency Care Torso JANA

Instruction Manual



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Manufacturer's Note

MW77 is Smart Nursing and Emergency Care Torso JANA is a training simulator of pediatric care including tracheostomy care, aimed to empower caregivers of medically dependent children. It supports to promote understanding of whole community that including a variety of professions toward these children through hands-on learning about their medical and social requirements.

Read before use

This simulator has been developed for the training of medical care. Any other use, or any use not in accordance with the enclosed instructions, is strongly discouraged. Also kindly be advised that for the included tracheostomy tube, PEG tube and their accessories are for educational use on the MW77 manikin only. **Never use these devices on other subjects or purposes.** The manufacturer cannot be held responsible for any accident or damage resulting from such use.

Please use this product carefully and refrain from subjecting to any unnecessary stress or wear.

Should you have any questions on this simulator, please feel free to contact our distributor in your area or KYOTO KAGAKU at any time. (Our contact address is on the back cover of this manual)

Features

- Lightweight and highly portable, enabling practice among family members and multidisciplinary healthcare professionals, as well as discharge guidance.
- Repetitive training can be conducted.
- Clear representation and visualization of the cannula site for a better understanding of the principles underlying its management and care.
- Visualization of lungs for understanding of air flow in ventilation.
- Allows for practice of caregiving tasks associated with child-rearing, such as holding the child, replacing securing straps, and observing safety precautions during bathing.
- CPR add-on kit for CPR training with smartphone App.

Handling Precautions

● Do not give shocks

Strong shocks may cause breakages of its internal structure.

● The skin color may change over time

Even if color on its surface might be changed across the ages, this does not affect the quality of its performance.

● Ink marks on the soft surface won't be removable

Don't mark on the product and components with pen or leave any printed materials in contact with their surface.

● Storage

Store the product at room temperature, away from heat, moisture and direct sunlight.

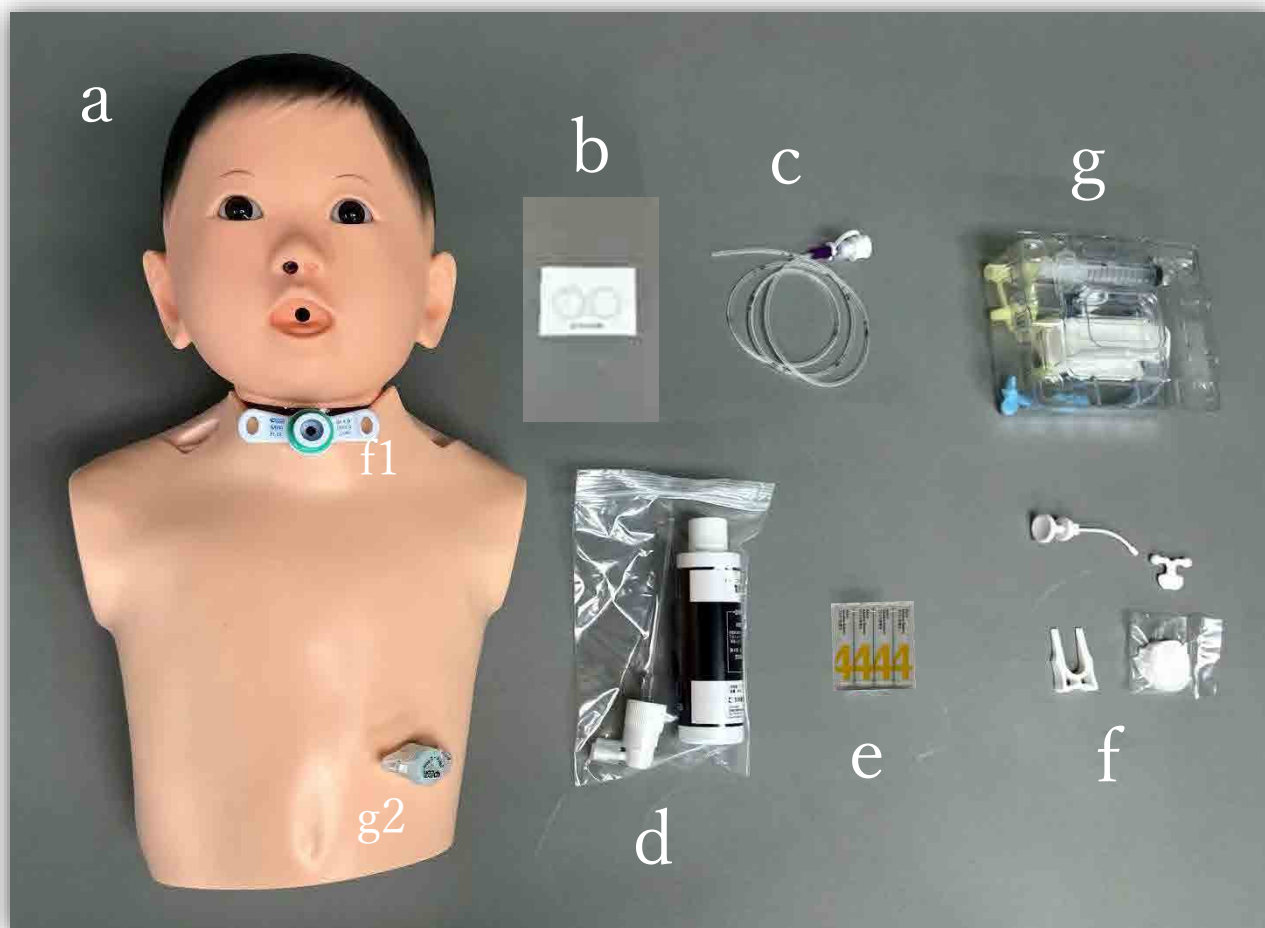
● Do not wet the electric components

Do not pour or spill water or liquid detergent over the electric components. Running the system while the electric components are wet may create a shock hazard or a risk of fire.

- Use mild detergent or alcohol for cleaning
The manikin skin may be cleaned with a wet cloth if necessary, using mildly soapy water or diluted detergent. For persistent stain, use alcohol and apply talcum powder after wiping the surface.
Never wipe the product and components with thinner or organic solvent

Set Includes

Before your first use, ensure that you have all the components listed below.



a. pediatric manikin	1	f. Accessories of tracheostomy tube	1
		f 1. tracheostomy tube (sample inner dia. 4.0mm)	1
b. numbering sticker	1	g. Accessories of gastrostomy tube	1
c. feeding catheter (8Fr)	1	g 1. gastrostomy tube (sample 14 Fr)	1
d. lubricant	1	▪ carrying case	1
e. dry batteries	4	▪ instruction manual	

*f1. tracheostomy tube and g1. gastroscopy tube are not attached to the manikin at the time of delivery.

Features of the Manikin

The pediatric manikin of JANA offers following training features.

Insertion of intra oral /intra nasal feeding tube

- Procedures of tube feeding (dry)
- *Use the included 8Fr. feeding tube.

Management and Care of Tracheostomy Tube

- Insertion and care of tracheostomy tube.
- Understanding of relevant anatomy.
- PPV (Positive Pressure Ventilation) through a tracheotomy tube.
- Understanding of air flow and movement of lungs under PPV.
- By removing the torso skin:
 - Anatomy of the rib cage
 - Placement and replacement of the securing straps.
 - Visual understanding of anatomical structure of bronchi (made with clear material) and location of the tube and the catheter.

PEG site and gastrostomy tube

- Care of a child with PEG

CPR Training

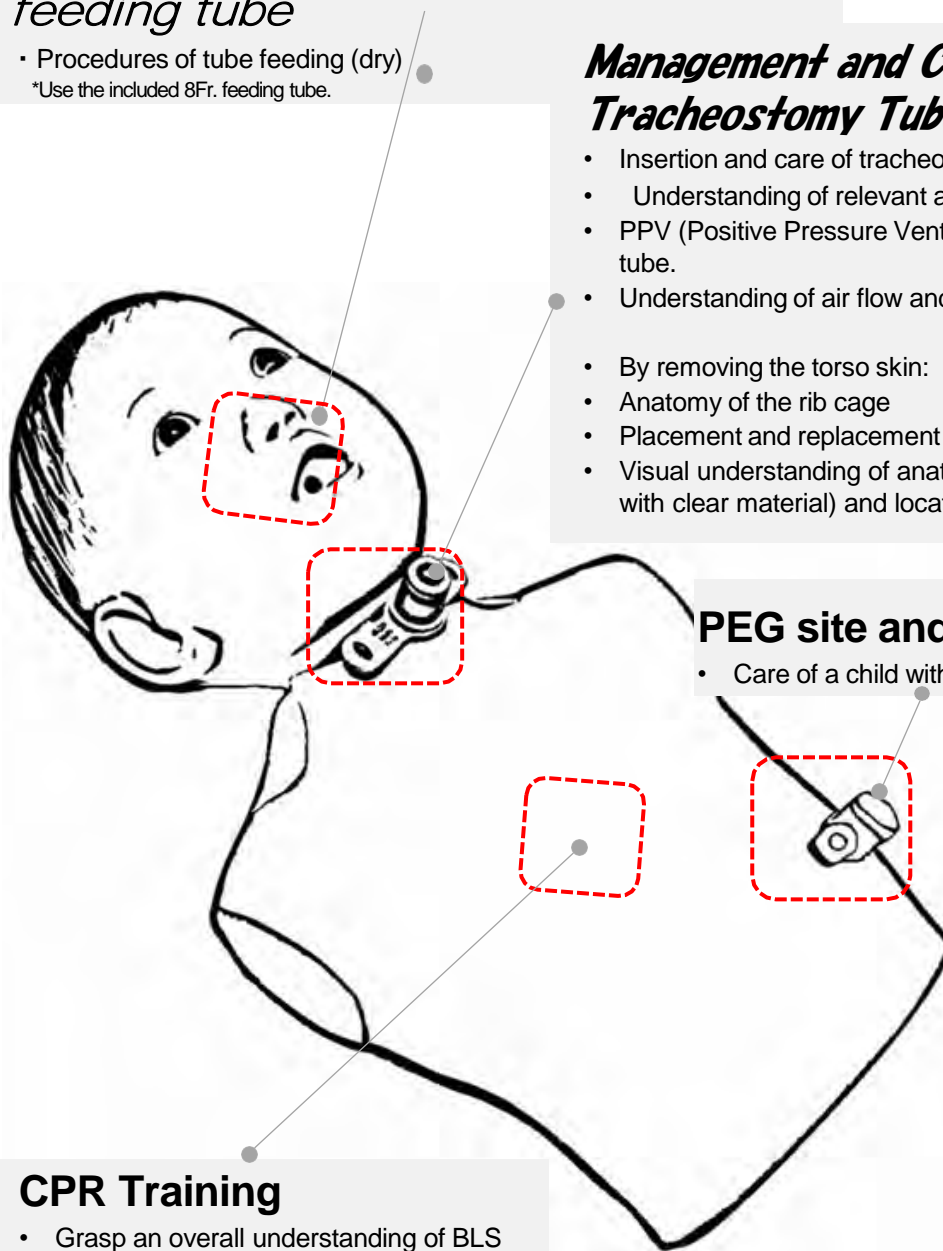
- Grasp an overall understanding of BLS
- Training of BLS

Carrying bag

Portable to facilitate use as a discharge instruction material.

Patient handling

- Flexible neck to facilitate practicing how to hold a young child



Preparation of the Manikin

In accordance to the scenario of the training, set the included tracheostomy tube and PEG tube to the manikin, such as placement of tube and balloon, securing the tube with ties, removable of tubes.

Lubrication

Ensure to apply the included lubricant to following sites to reduce resistance at the time of insertion and to avoid damage to the manikin.

- tracheostomy site,
- PEG site,
- tracheotomy tube, and
- gastrostomy balloon.

Remove the chest skin to observe the path and location of the tube in the bronchi, rib case under direct vision to have idea of air flow to the lung at the time of ventilation.

The manikin incorporates “CPR add-on kit”.

To conduct CPR training, set four AAA dry batteries to the manikin and prepare the application.

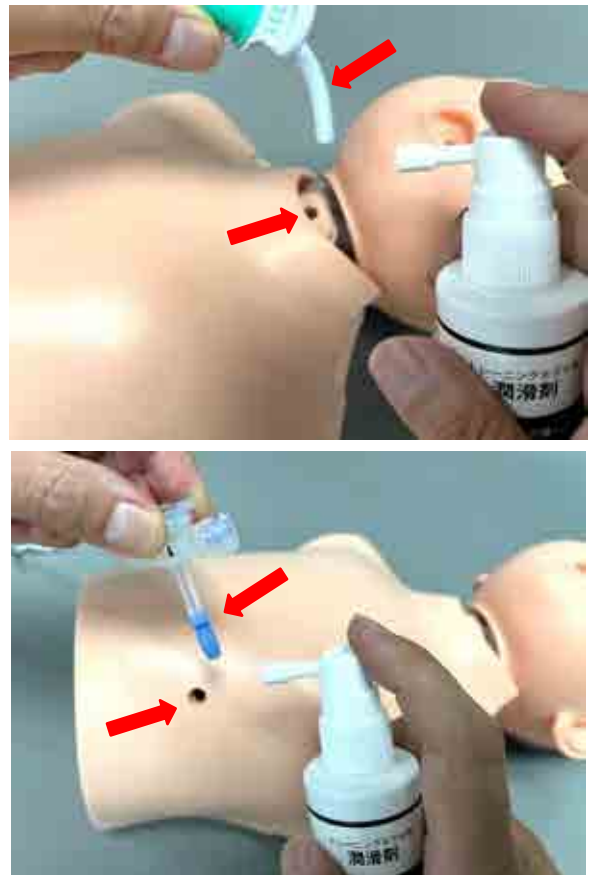
The applications “CPR add-on kit” and “CPR plus” are the system that connect to an IT device to measure the performance of CPR in real time.

Lubrication

Apply the included lubricant to following sites:

- **tracheostomy site**
- **PEG site,**
- **tracheotomy tube, and**
- **gastrostomy balloon.**

Sufficient lubrication helps to reduce resistance at the time of insertion of the tube and to avoid damage to the manikin.



Preparation of the Manikin

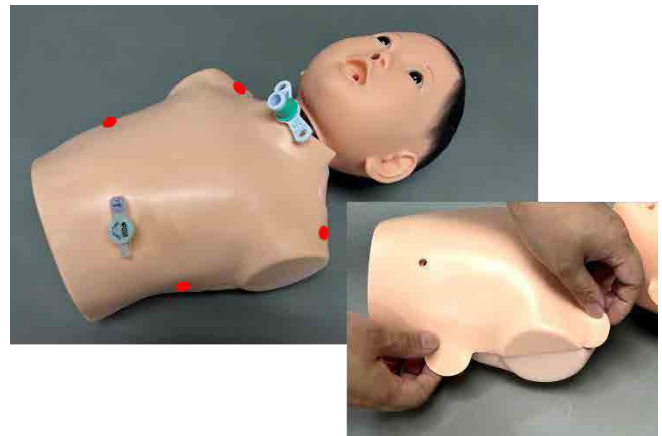
Remove the chest skin

Remove the chest skin to observe the path and location of the tube in the bronchi, rib case under direct vision to have idea of air flow to the lung at the time of ventilation.

Before removing the skin,

1. First, remove the PEG tube from the manikin.
2. Remove the skin by disengaging four Velcro fasteners.

To attach the skin, first set the lungs and rib on the engraving on the chest base and attach the skin and devices , in reverse order of the removal process.



Setting and changing the AAA batteries

Set AAA batteries to the incorporated "CPR add-on Kit" to conduct CPR training.

First remove the skin following the instruction of [Remove the chest skin](#) .

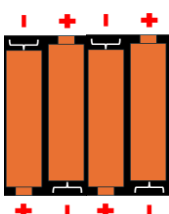
Then lift the anterior half of the body base to find the add-on kit and then set the batteries in the kit. (See the photos in the right and below.)

CPR add-on kit beeps to confirm once the batteries are set.

To change the batteries, reach the add-on kit through the same steps and change the batteries to new ones.

Related topic

Check remaining batterie power ->P.17



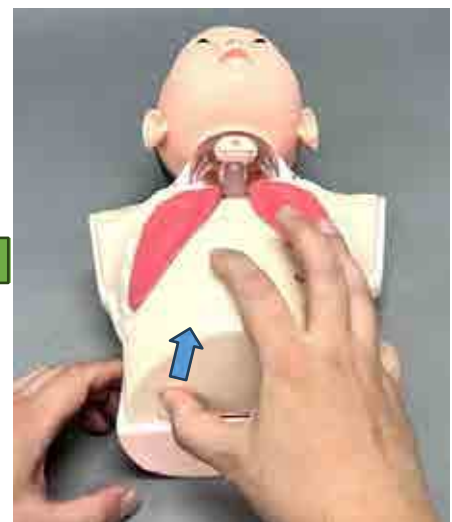
Remove the chest skin



Remove the rib



Lift the anterior half of the chest base by this engaging the magnets. To hold the chest base, place the fingers on the engraving.



Compatibility of the Apps and the Version of the Manikin

The built-in “CPR Add-ons kit” has been upgraded and the corresponding apps changes accordingly.



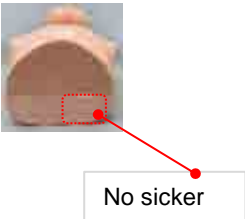




For more details about the new app refer:



Preparation


Setting up CPR Add-on Kit

P7

Due to the version up of “CPR add-on kit”, compatible App has changed.
Refer the table below to find the version of the manikin and corresponding App.

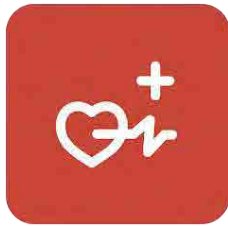
Version of the manikin		Compatible App
1		 CPR Add-on Kit Student
		 CPR plus
2		 CPR plus
		

*  “CPR Add-on Kit Student” is going to be integrated to  “CPR plus in future.

Then,  “CPR Add-on Kit Student” will be out of service. Please note that these changes may take place without prior notice.

Overview

This simulator incorporate "CPR add-on Kit", enabling to analyze and give feed-backs to the trainee's CPR performance in real-time through "CPR plus" application



Features

- Measure the CPR performance and give feed-back
- Save the data of the CPR
- Step-by-Step mode to conduct realistic training scenario.

Compatible devices and versions



Android

OS: Android 6.0 or later
BLE 4.2 or later

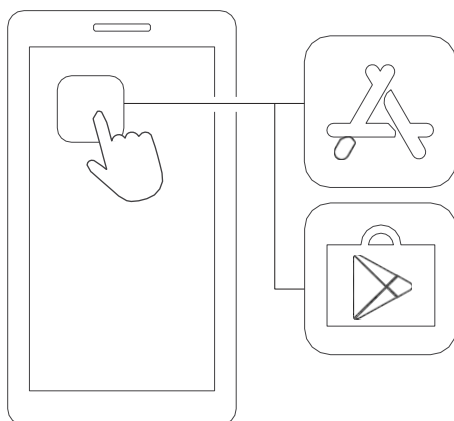
* sold in 2017 or later



iOS

OS: iOS 12.0 or later
BLE 4.2 or later

Installing the App



- Open the App Store(iOS) or Google Play Store (Android)

- Look for  CPR plus

- Download the App and install it.

* Quick access to the App

Android



iOS



Use of the App

Turning on the power

“CPR add-on kit” beeps when the AAA batteries are set in the kit. The beep sound indicates that the power is on.

The kit enters sleep mode to save power when there is no CPR action (chest compression or ventilation) for 10 minutes or longer.

To reactivate the kit, compress the chest two times or more. Then the power turns on and the kit beeps.




Turning on Bluetooth

(1) Turn on  Bluetooth on the device that is installed with “CPR plus”.

*Android and some version of iOS may require setting for each application and access setting.

Initial setting / language selection

(1) Turn on “CPR plus”



Select “Settings” from the menu  above left corner of the screen.

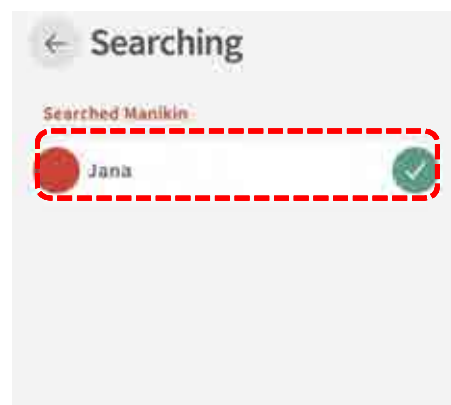
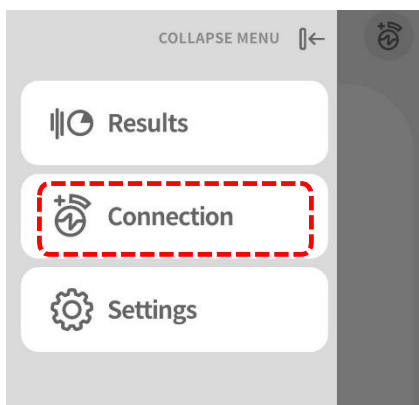
Tap “Language” to select language.

(Language options in the App Version:1.1.0 are as follows.)

- Korean
- English
- Chinese
- Japanese
- Vietnamese



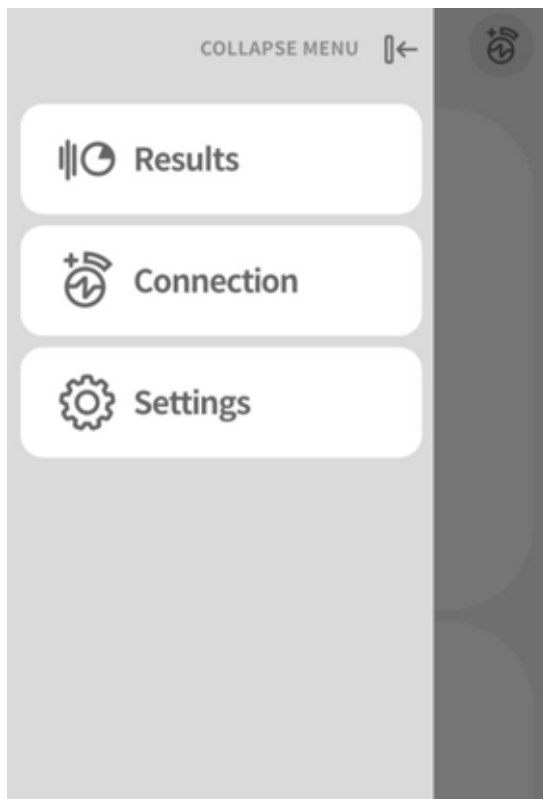
(2) Select “Connection” from the menu,  then select Jana and then tap on the check button  at the below right corner



Use of the App

Tab Menu

“CPR plus” has three tab menus.



Results

View the result of CPR training

Connection

Connect with the JANA manikin. Changing the name of the manikin. Use the color ID (Number ID)

Settings

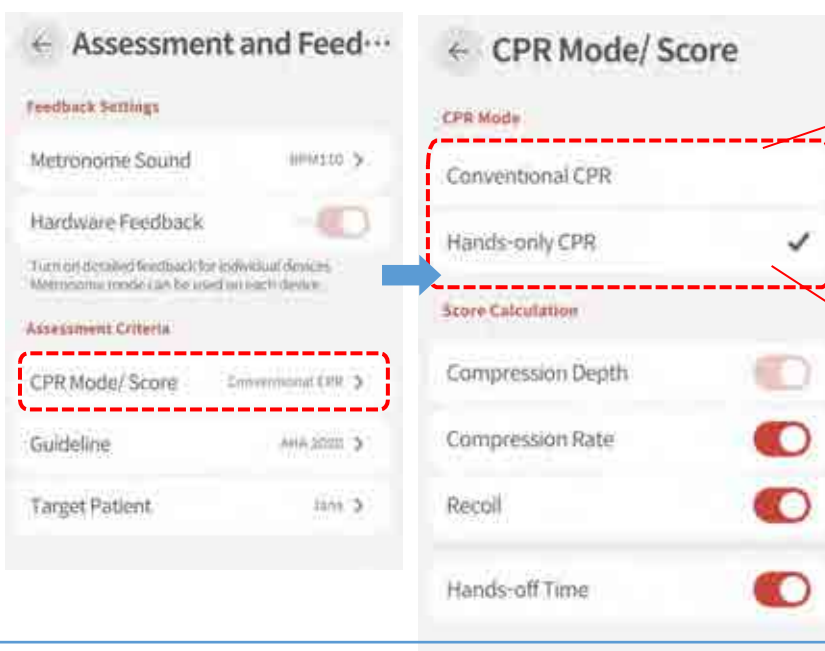
Select language. Change the guideline, method if the score calculation, information about the kit.

Selecting the CPR Mode

Two CPR mode are prepared for training. Select one from Conventional CPR or Hands-only CPR.

Tap “Setting”, then tap “CPR Mode/Score” to select a mode.

* Default setting Hands-only CPR




Monitors both chest compression and ventilation. When ventilation is performed, the screen automatically switches to the ventilation monitoring. And when chest compression is performed again the screen automatically returns to the chest compression monitoring.

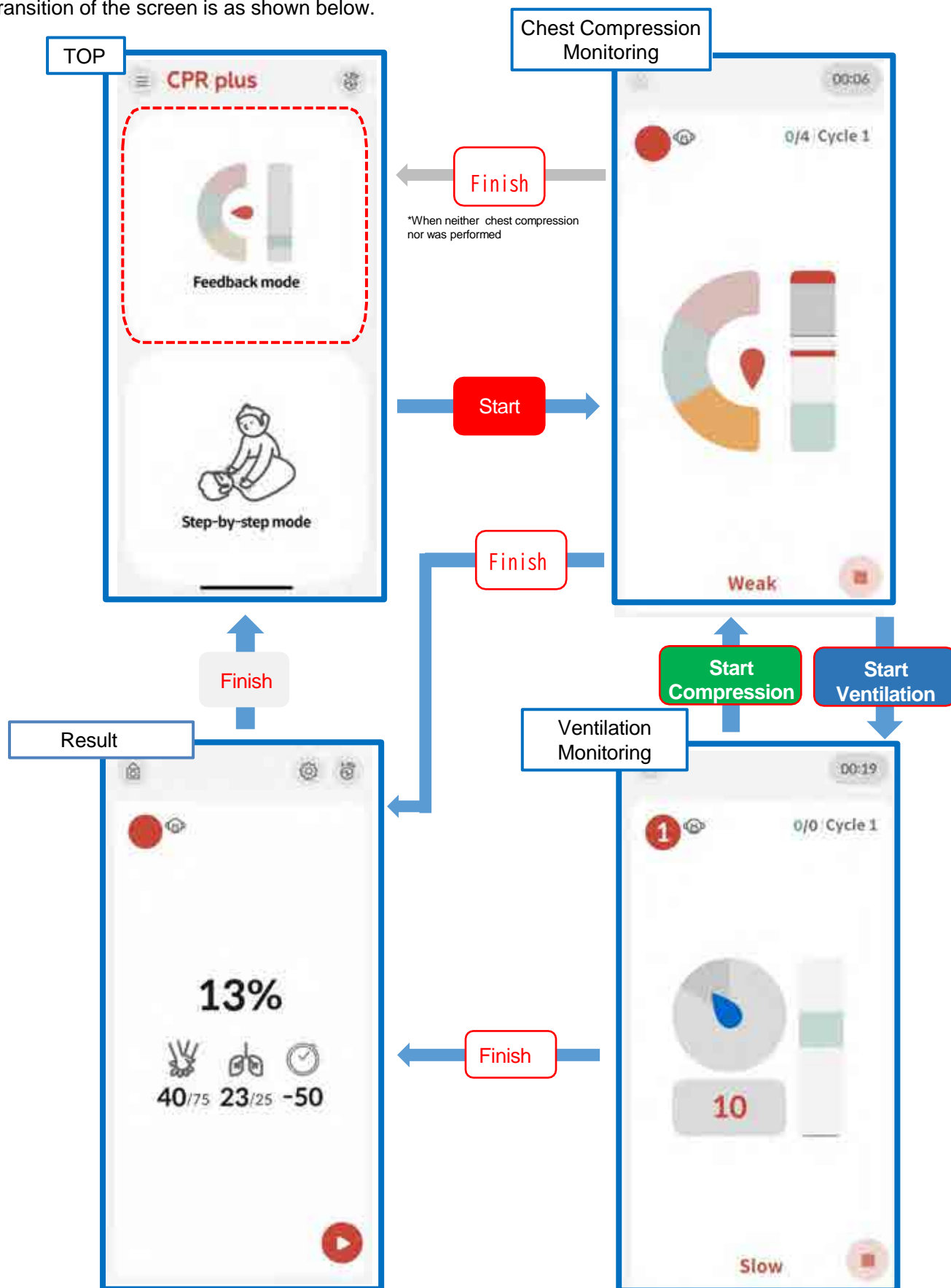
Monitors chest compression only.

The screen doesn't switch when the ventilation is performed.

Use of the App

Flow of the Training (Feed-back Mode)

Select the “Feed-back mode on the top screen and then tap the start button  at the below right corner to start the training. The screen automatically switches to the chest compression monitoring view. The transition of the screen is as shown below.



Use of the APP

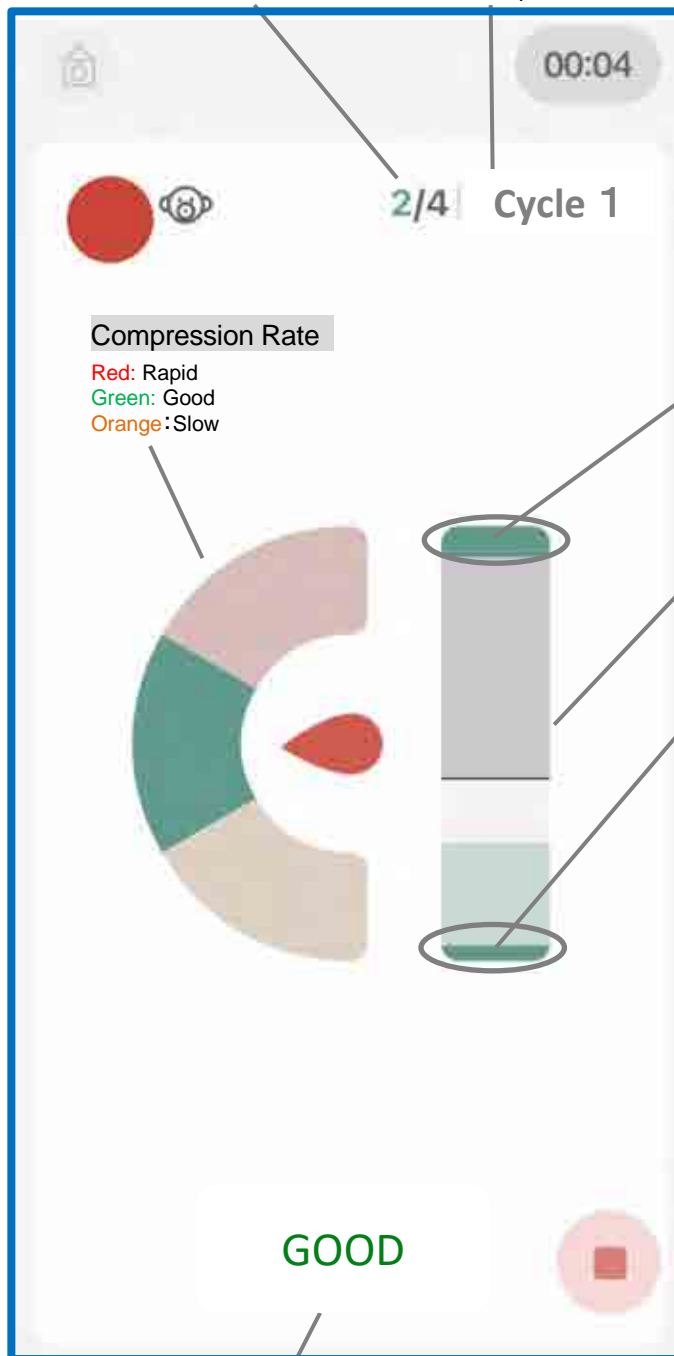
Chest Compression Monitoring Screen

Number

Success/ Total Compression

Number of Cycles

Current cycle is shown. When the CPR is interrupted moves to the next cycle.



Compression Rate

Red: Rapid
Green: Good
Orange: Slow

Status Bar

- Recoil
Green: Good
Red: Insufficient
- Depth of the compression
- Maximum depth (green line)



Tap the Screen

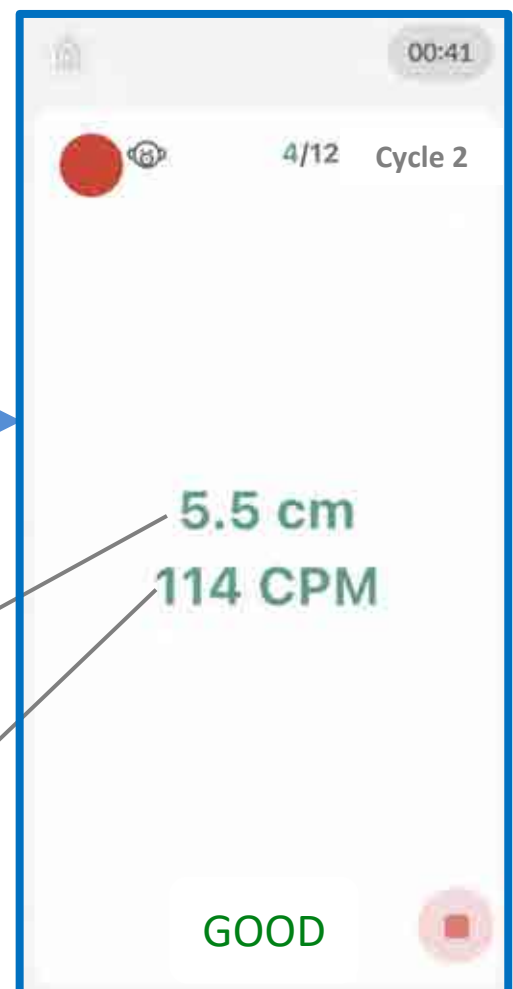
Compression quality

• Good/Strong/Weak/Recoil needed

Compression depth

Compression rate

• CPM Compression per minute



Use of the App

Ventilation Monitoring Screen

Number

Success/ Total Compression

Number of Cycles

Current cycle is shown. When the CPR is interrupted moves to the next cycle.

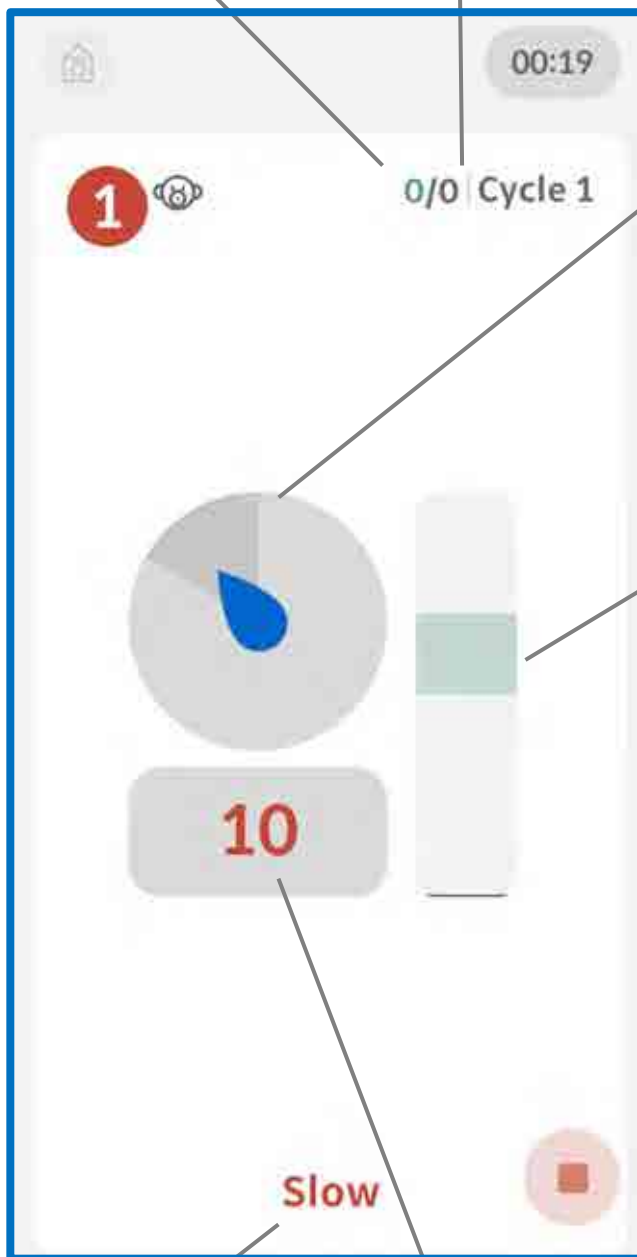
Ventilation Volume

Indicate 0-12 seconds of circulation. When a ventilation performed the color changes.

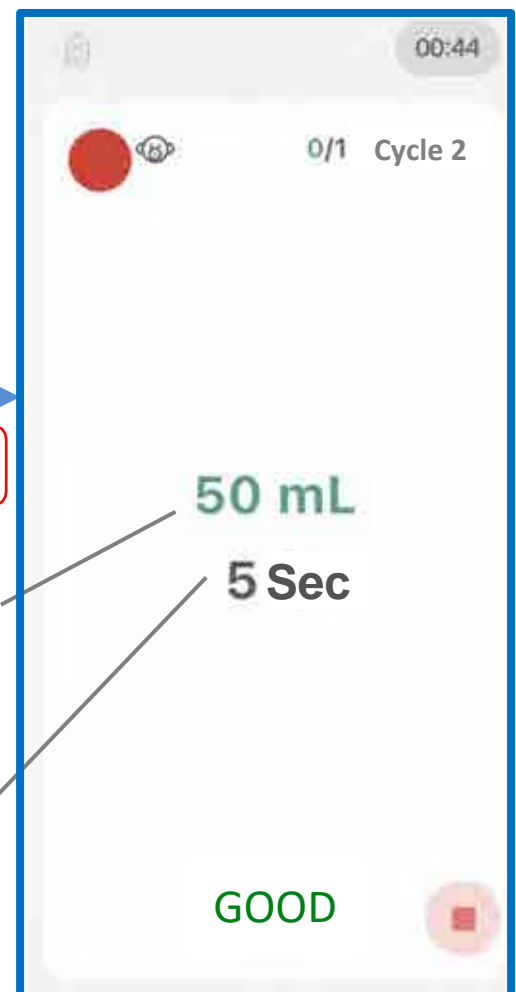
Green: Good,
Red: Weak or Strong

Status Bar

- Ventilation Volume
- Maximum Ventilation Volume (green line)



Tap the Screen



Ventilation Quality

• Good/Strong/Weak

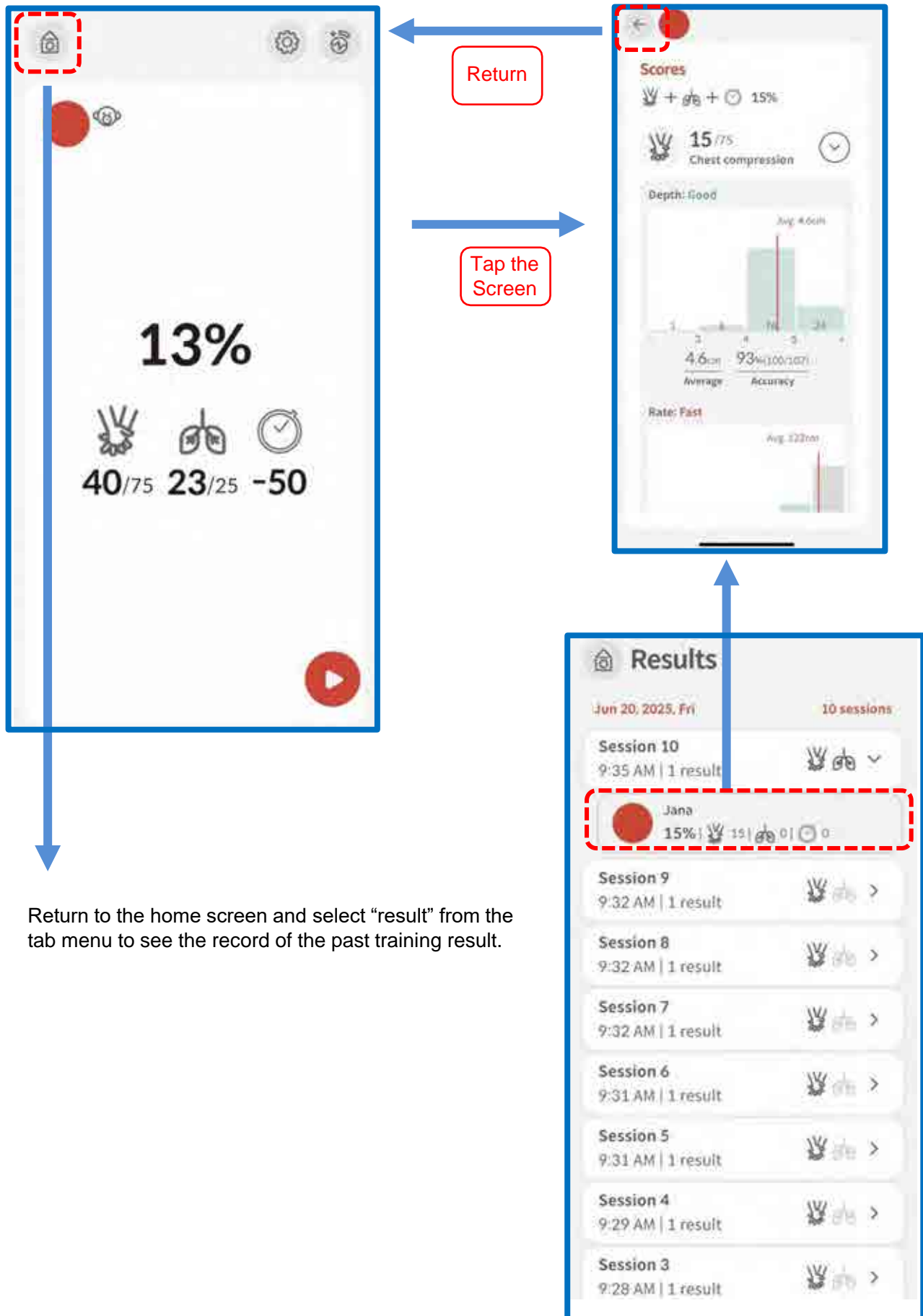
Interruption time of the compression

Ventilation Volume

Ventilation Time

Use of the App

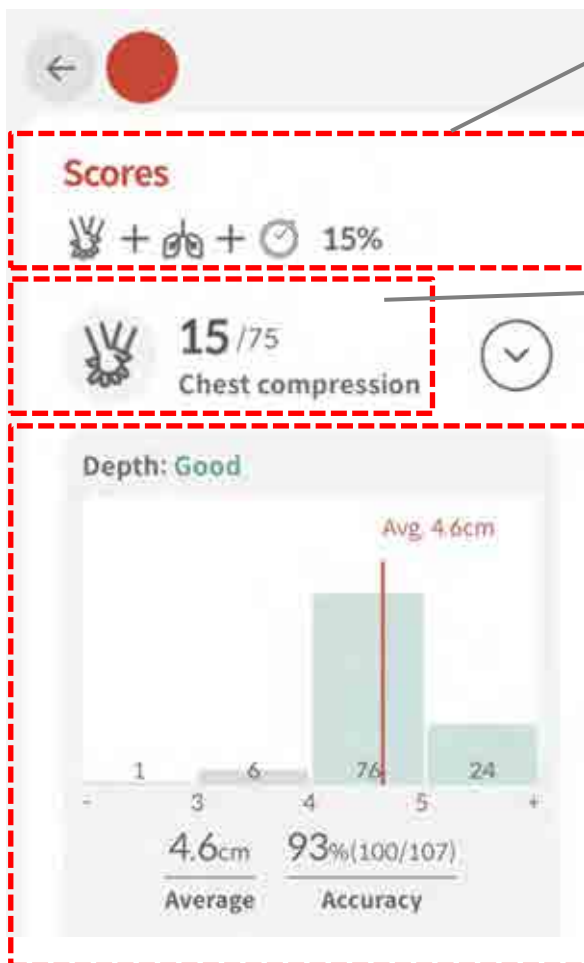
When a CPR session completes, following screen appears. Tap on the screen to see the details of the training result. (See p14)



Return to the home screen and select "result" from the tab menu to see the record of the past training result.

Use of the App

Result Screen



Total Score

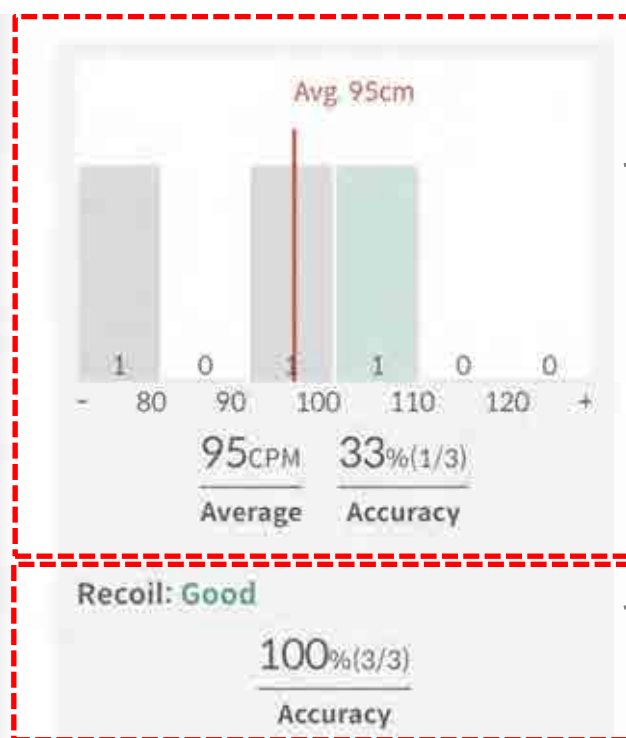
- Total score of the compression, ventilation and the interruption time of compression is shown
- *Default setting for the score calculation:
Compression (75%) + Ventilation(25%) + Interruption time of compression =100%

Compression Score

- Total compression score for
- Depth
 - Rate
 - Recoil

Compression Depth

Depth: To mark high score, compression depth 5-6cm would be optimal. (It may vary according to the applied guideline).



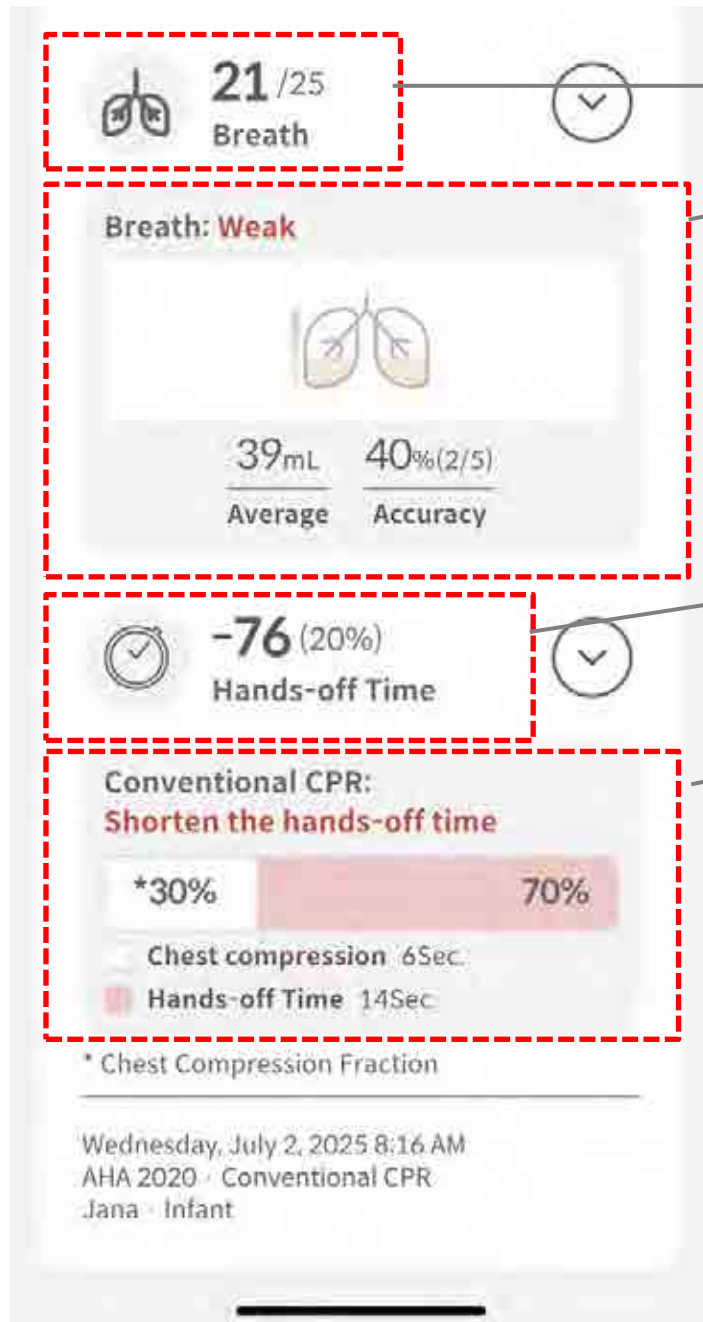
Chest Compression Rate

Rate: To hit the best score, perform chest compression at the rate of 100-110 CPM (compression per minute)

Recoil Accuracy

Recoil: Show the rate of compression that is followed by sufficient recoil. Insufficient recoils may result in lower scores.

Use of the App



Ventilation Score

Ventilation Data

- Average ventilation volume
- Precision

The score is based on the appropriateness of the ventilation volume. It shows the value based of the average ventilation volume of the total ventilation.

Hands-off Time Score

Rate of Hands-off Time

The rate of interruption time of the chest compression is shown as hands-off time. The time of chest compression and the interruption are shown.

The prolonged hands-off time can result in a considerable deduction in the total score.

Use of the App

Flow of the Training (Step by Step Mode)



Step Bar

By tapping an icon, jump to the selected session.

Home

Term here to close a session and return to the home screen.

Narration/Subtitle

Follow the instruction of narrations or subtitles. Tap on the subtitle to move to the next step.

Practice

Tap here to start a session.

Tap here to proceed to the next step.

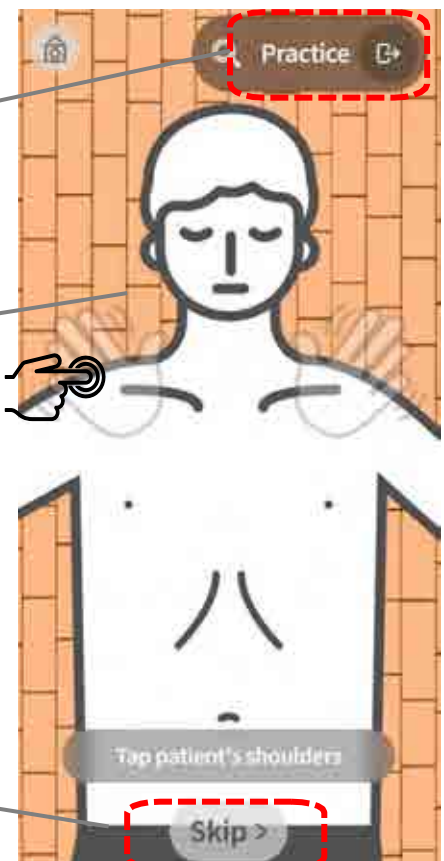
Return

Tap here to return to the beginning of the current session.

Practice the tasks with tapping and sliding on the screen according to the training steps.

Skip

Tap here to proceed to the next step.



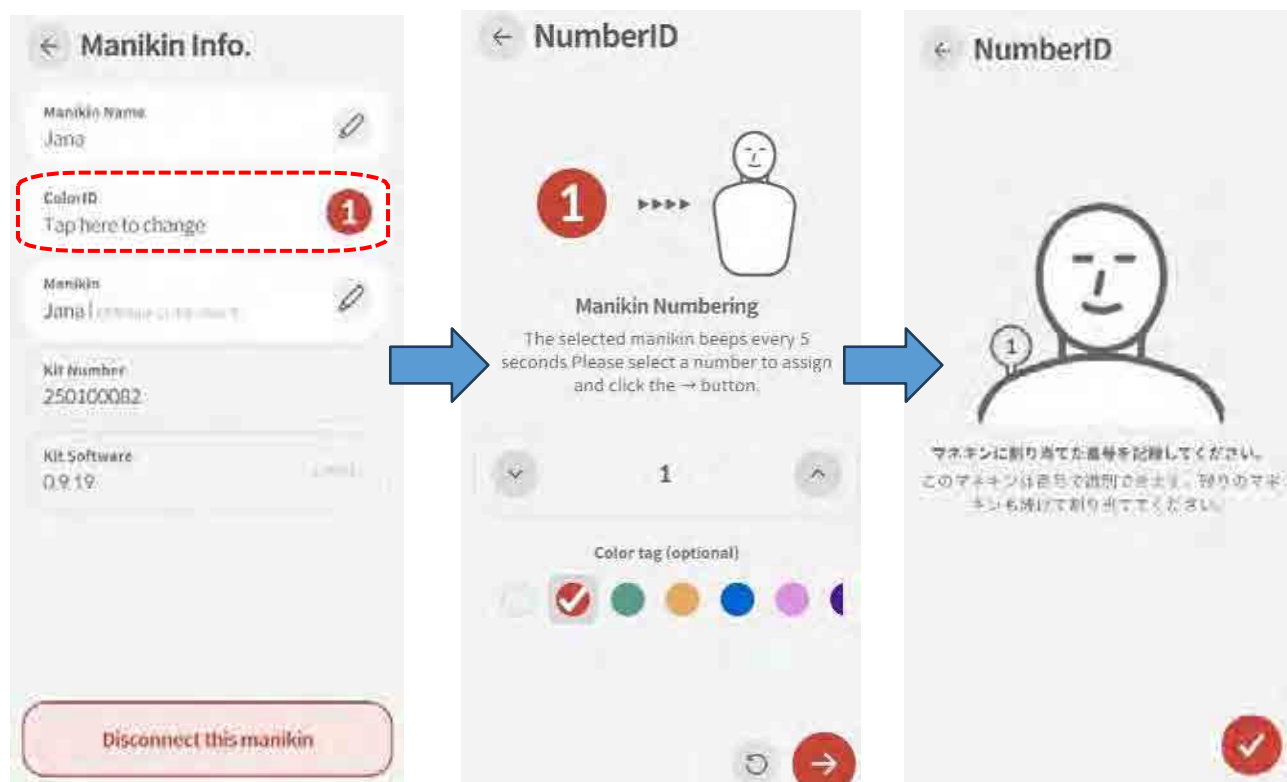
Use of the App

Color ID (Number ID)

*Setting up Color ID is not required when one "CPR plus" and one manikin as a fixed pair.

Color ID of "CPR plus" helps to distinguish an individual kit. The feature facilitates management of training with multiple numbers of manikins and trainees. Once Color ID is allocated, the allocation remain valid then after.

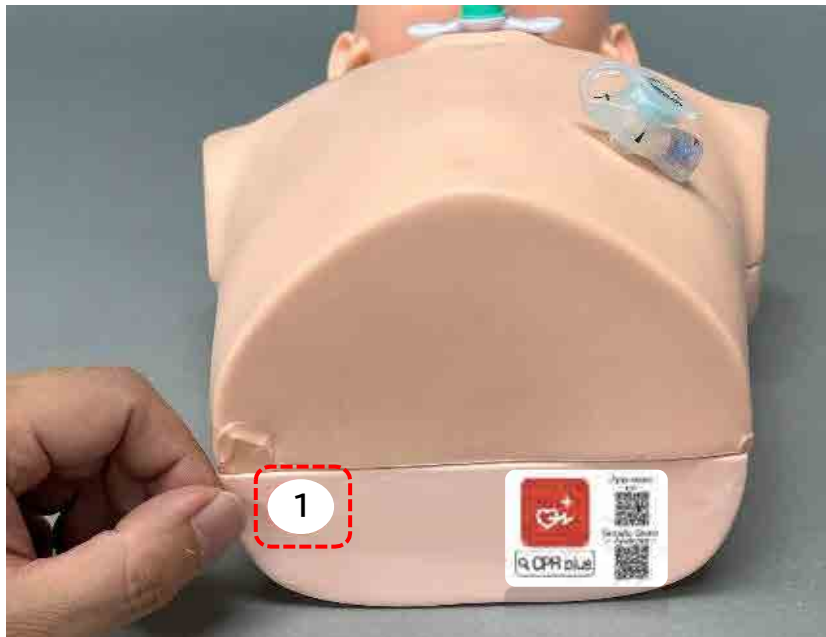
* Use the included number stickers when using Color ID.



- (1) Select "Connection", select the manikin, then tap on the greater-than-sign to open the Manikin Info screen. Set the Color ID following the instruction on the screen
- (2) When "Color ID" is selected, the system turns to the setting mode and the corresponding manikin beeps.
- (3) Select a number for the manikin.

Use of the App

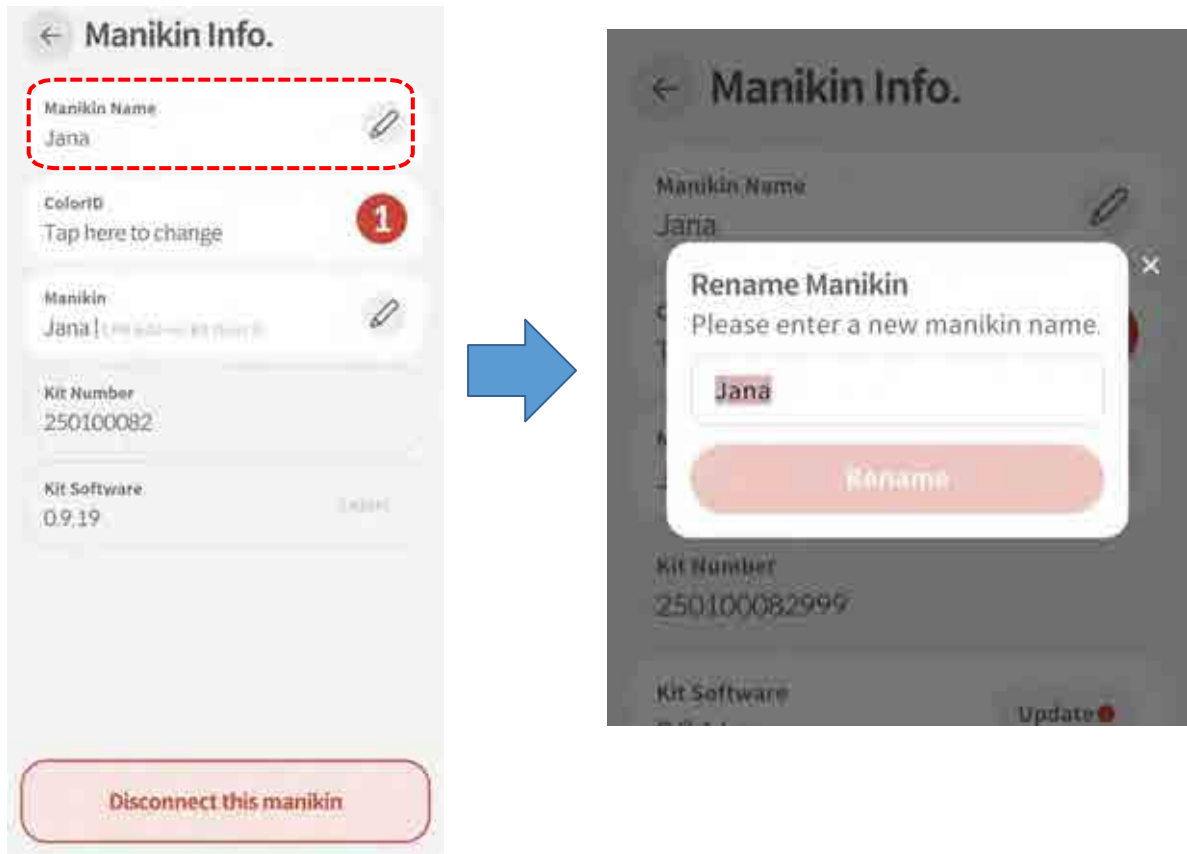
(4) Paste the sticker with the number allocated in (3) to the manikin.



Use of the App

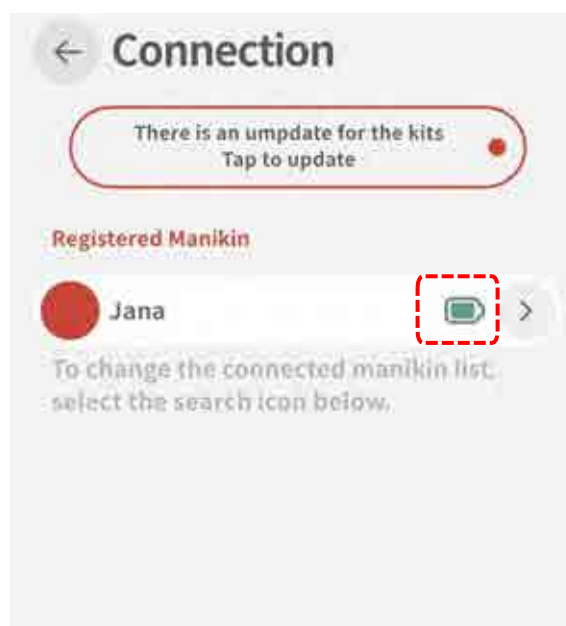
Changing the name of the manikin

To change the name of the manikin in the App, select “Connection” and go to “Manikin Info” screen. Then edit the name of the manikin.



Checking the remaining battery

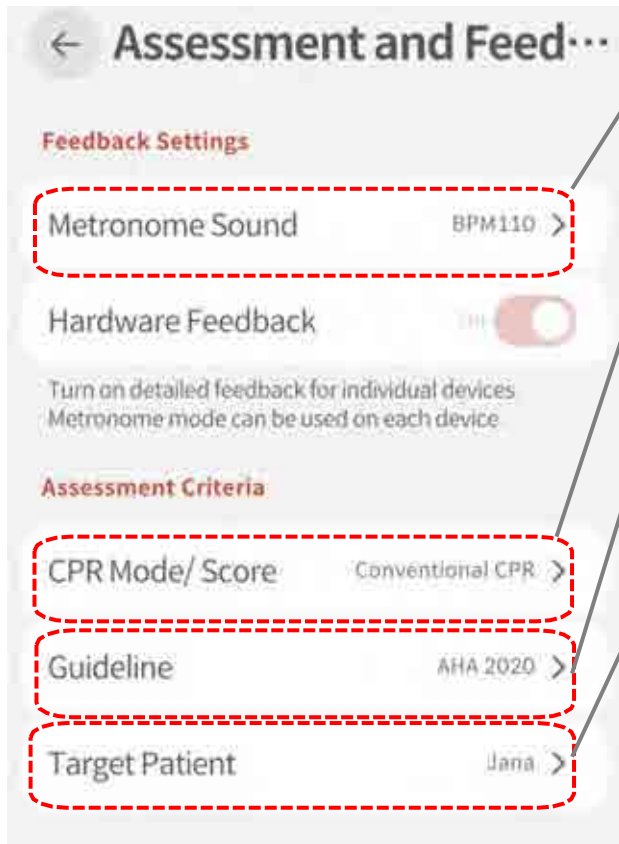
To check the remaining battery, select “Connection” to see the battery level indicator.



Use of the APP

Other settings

Select “Settings” and open “Assessment and Feedback” to manage settings. For the language selection refer the p.7.



Metronome

Change the rate of the metronome sound for the chest compression.

CPR Mode/Score

Select CPR Mode and edit the calculation method for the score.
For details refer to p.9.

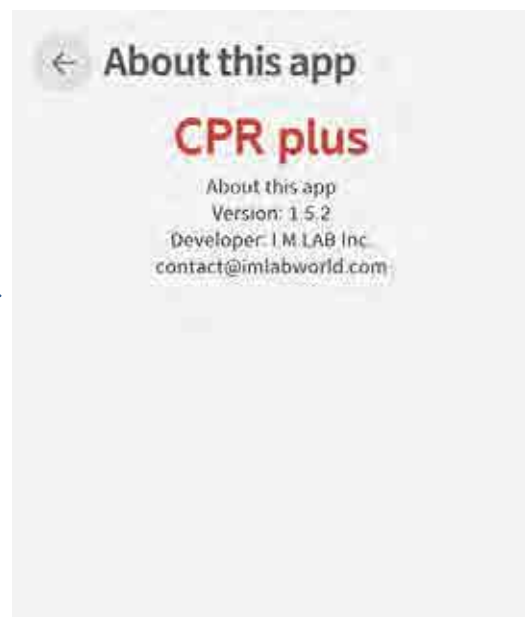
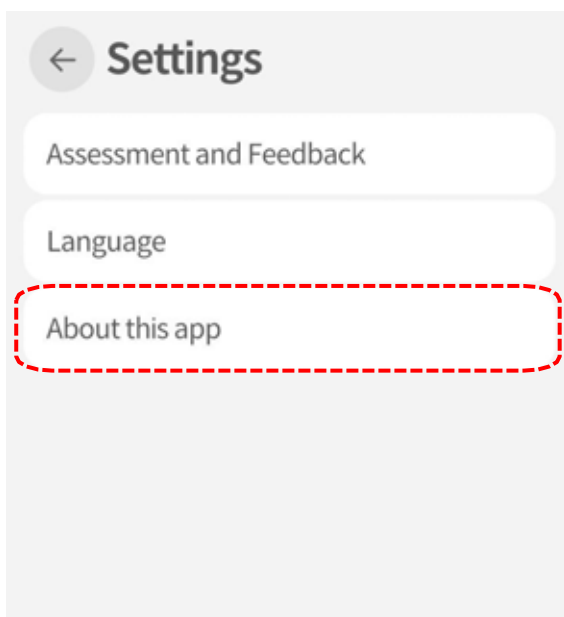
Guideline

Select a guideline to follow for training.

Patient Setting

Edit the type of the patient.
* In some version this function may be deactivated.

Select “Settings” and tap on “About this app” to see the version of the Kit.



Use of the App

Disconnection of the Manikin

To disconnect the manikin, select “Connection” and go to Manikin Info to disconnect the manikin.

*To change the devices of the app, the manikin needs to be disconnected from the first device.

← **Manikin Info.**

Manikin Name
Jana

ColorID
Tap here to change

Manikin
Jana | CPR Add-on Kit (Gen 3)

Kit Number
250100082

Kit Software
0.9.19

Disconnect this manikin

Training Session

To start training refer following pages of this instruction

Before You
Start

Features of the Manikin

P.3

Preparation

Preparation of the Manikin

P.4~5

Cleaning and Storage

After training sessions, wipe the manikin with water or mild detergent and then apply talcum powder over its skin surface and then naturally dry well before storage.
Be careful not let the water enter inside of the manikin as it contains electrotonic components.
Use the dedicated carrying case for transportation.



Be sure to **remove all the devices** such as the tracheostomy tube or the PEG tube before storage.

MEMO

Consumables	
Product code	descriptions
11229-050	Lubricant for training models



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