

# corpuls **simulation**

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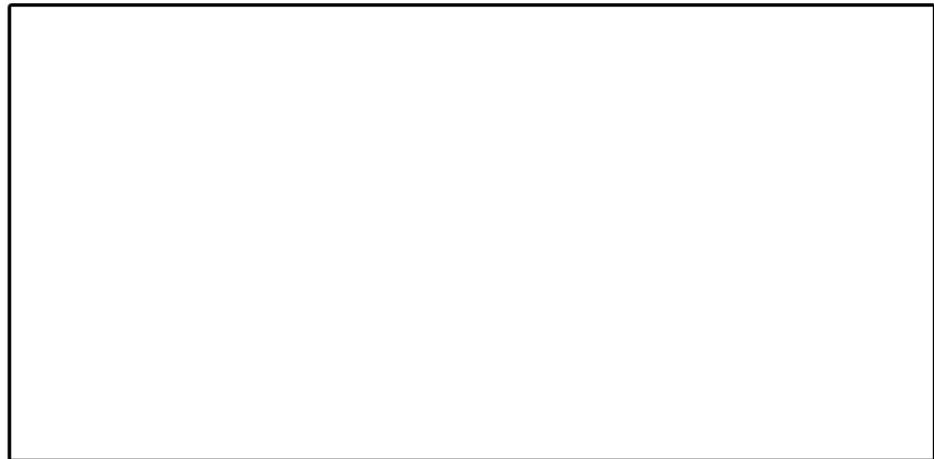
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Information on authorised sales and service partners can be found at:

[www.corpuls.world](http://www.corpuls.world)

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# 1 Performance Description

## 1.1 Intended Use

corpuls simulation is a system for simulation of patient monitoring and defibrillation devices for user training and education.

corpuls simulation is intended to simulate display and device views and functionalities of the following corpuls devices:

- corpuls aed
- corpuls1
- corpuls3
- corpuls3T

## 1.2 Appropriate Use

corpuls simulation may not be used on patients. Remote control of the corpuls cpr by corpuls simulation is only allowed in the scope of simulations and trainings.

An instruction or training on corpuls simulation does not replace the instruction according to valid directives and regulations for medical devices of the products mentioned in 1.1.

## 2 Directions for Users

This chapter includes all information that must be observed when using this user manual.



The information in this user manual is aimed at the user who is classed as the instructor, as opposed to the student.

### 2.1 Requirements for the User

To be able to use corpuls simulation as intended, the user must meet the following requirements:

- The manufacturer recommends that the user is trained in handling one of the products mentioned under 1.1.
- The use of corpuls simulation in combination with the corpuls cpr requires instruction on the corpuls cpr.
- The user is trained in the measures of defibrillation, cardioversion and stimulation of the heart.

### 2.2 Depiction of Warnings

Warnings alert the user of possible sources of danger when using corpuls simulation. They are divided into four levels according to their severity and probability.



**DANGER!**

A high-risk hazard that may result in severe injury or death.



**WARNING!**

A medium-risk hazard that may result in serious injury or death.



**CAUTION!**

A low-risk hazard that may result in minor or moderate injury.

**NOTICE!**

A hazard that may result in minor or moderate damage to property or the environment.

### 2.3 Depiction of Notes



Notes either point users to important information that must be observed when executing an action, or provide additional information on a particular issue.

## 2.4 Symbols

The following table describes the symbols used in the user manual.

Symbol	Designation	Description
	Current	Indicates activity from the power supply
	Battery	Indicates the battery charging activity
	WLAN	Indicates an active WLAN connection
	Infrastructure	Indicates existing infrastructure provided by a network

### 3 Safety

The user manual is part of the product. It must be read carefully before use and must be available at all times.



#### CAUTION!

Danger from soiled or contaminated devices!

Soiled or contaminated devices can infect users and students.

- ▶ The respective standards of hygiene for handling and disinfecting equipment contaminated with bodily fluids must be followed.
- ▶ The local regulations for disposal of infectious waste and materials contaminated with bodily fluids must be followed.



#### WARNING!

Danger due to unrecommended ambient temperatures!

Unrecommended ambient temperatures can lead to explosions or flames.

- ▶ Do not use the product in potentially explosive areas.
- ▶ Only operate and store the product in recommended ambient temperatures. The recommended ambient temperatures are between 0 °C and 35 °C (32 °F and 95 °F) during use and between -20 °C and 45 °C (-4 °F and 113 °F) during storage.
- ▶ Do not leave the product in a vehicle after transport, as the recommended temperature range can be exceeded here.
- ▶ The ambient temperature of the components included such as iPads, power banks, USB chargers or WiFi Access Points & Bluetooth Gateways may vary. These can be found in the respective products user manuals.



#### WARNING!

Danger due to product damage and an electrically conductive environment!

Product damage or the use of the product in a damp or electrically conductive environment can lead to electric shock.

- ▶ Only use the product and accessories if they are externally undamaged.
- ▶ Check the power cord for damage before use.
- ▶ Only use components in accordance with the respective environmental restrictions.
- ▶ Protect product openings from liquids.



#### WARNING!

Danger due to unapproved accessories!

The use of unapproved accessories and combination with unapproved products can lead to injuries.

- ▶ Only use accessories that have been approved by the manufacturer for combination with the product.
- ▶ The training accessories must not be combined with medical devices.
- ▶ Manual or mechanical chest compression may only be performed on resuscitation manikins as part of training with corpuls simulation.

**NOTICE!**

Danger due to unapproved changes to the product!

Unapproved changes to the product result in the product no longer being in technically flawless condition, therefore the warranty is voided.

- ▶ Only make changes to the product if the changes have been approved by the product manufacturer.

**NOTICE!**

Danger due to unauthorized access by third parties (cybersecurity).

Unauthorized third-party access to data can result in harm to companies and organizations through espionage, sabotage and hacker attacks.

- ▶ Change codes and PINs on first use.
- ▶ Do not use sequences of numbers as codes and PINs (e.g. 3456).

## 4 Device Description

This chapter contains information about the components of corpuls simulation.

corpuls simulation consists of a 10.2" iPad® (hereinafter referred to as the Instructor iPad), a 12.9" iPad Pro® (hereinafter referred to as Monitor iPad) and accessories.

### 4.1 Instructor iPad

The user can prepare and control the training with the Instructor iPad. It is built into a colour-coded, shockproof case.

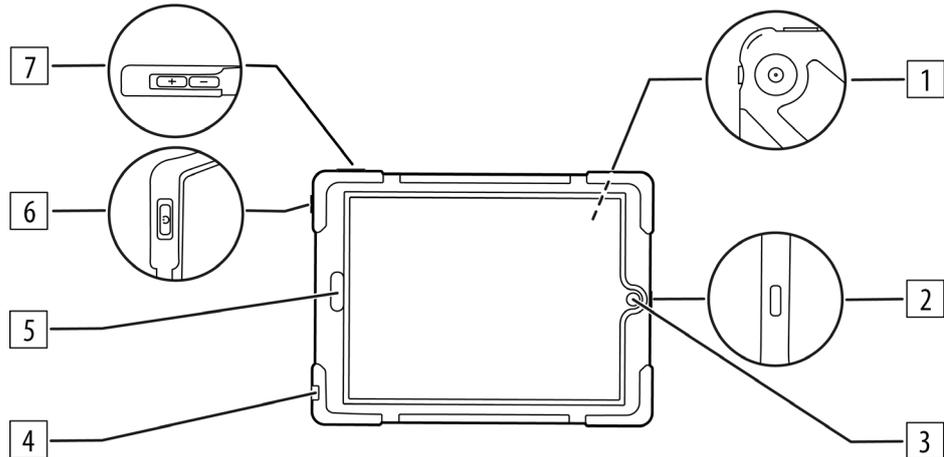


Fig. 4-1 Instructor iPad with case

- 1 Camera (rear)
- 2 USB-C connector
- 3 Home button
- 4 Headphone connection
- 5 Camera (front)
- 6 On/Off button
- 7 Volume buttons

### 4.2 Monitor iPad

The students use the Monitor iPad as the training device. The Monitor iPad is built into the housing. The housing contains three accessory pockets (right, left, rear).

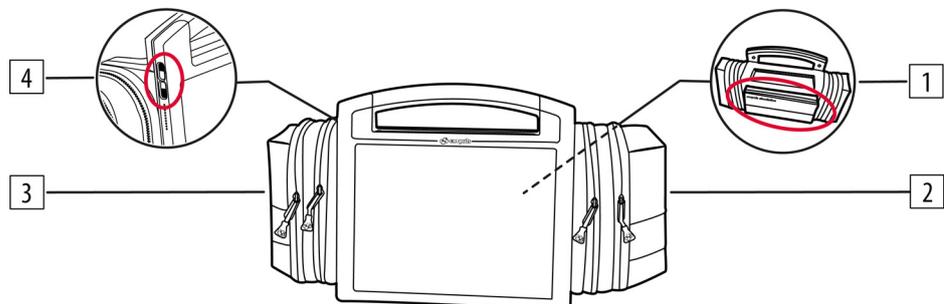
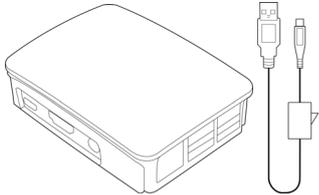
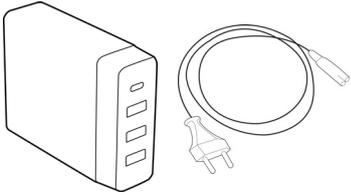
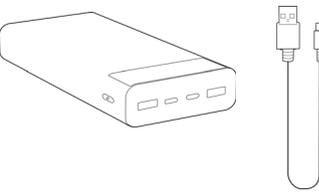
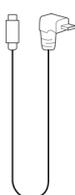
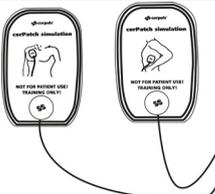
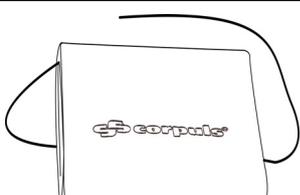
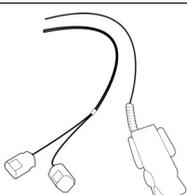


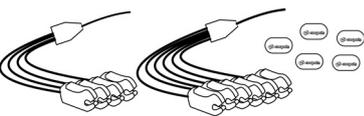
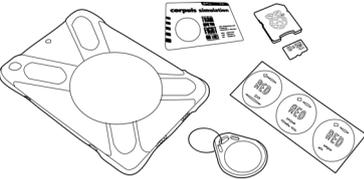
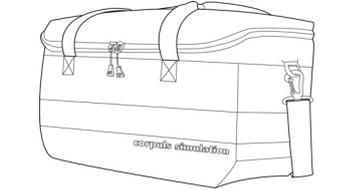
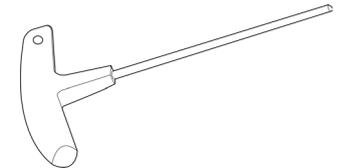
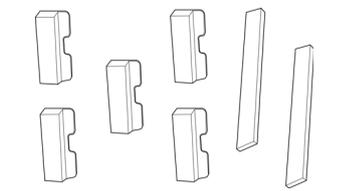
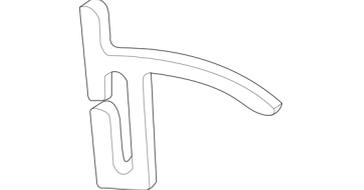
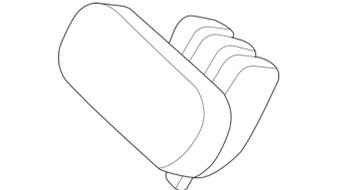
Fig. 4-2 Monitor iPad in its housing

- 1 Rear accessory pocket
- 2 Right accessory pocket
- 3 Left accessory pocket
- 4 On/Off button

### 4.3 Accessories

The following table contains an overview of the accessories.

Item	Designation	Image	Function
1	WiFi Access Point and Bluetooth Gateway (WiFi-AP & BT-GW) with power cable		<ul style="list-style-type: none"> <li>Provides an independent WLAN network and a Bluetooth interface to the corpuls cpr</li> </ul>
2	USB charger with power plug		<ul style="list-style-type: none"> <li>Charges the power bank, Monitor iPad and Instructor iPad</li> </ul>
3	Power bank with charging cable		<ul style="list-style-type: none"> <li>Energy supply for the WiFi-AP &amp; BT-GW and, if required, the iPads if there is no infrastructure</li> </ul>
4	Double-sided USB-C cable with one-sided angled connector		<ul style="list-style-type: none"> <li>Power supply for the Monitor iPad</li> </ul>
5	corPatch simulation training electrodes (adult) with master cable		<ul style="list-style-type: none"> <li>Training accessories</li> </ul>
6	Prime Cuff with NIBP hose corpuls simulation		<ul style="list-style-type: none"> <li>Training accessories</li> </ul>
7	SpO <sub>2</sub> and etCO <sub>2</sub> sensors		<ul style="list-style-type: none"> <li>Training accessories</li> </ul>

8	ECG cable, ECG diagnosis cable and set of untangling clips		<ul style="list-style-type: none"> <li>• Training accessories</li> </ul>
9	<p>corpuls simulation accessory kit:</p> <ul style="list-style-type: none"> <li>• 10.2" iPad case</li> <li>• corpuls simulation ID card</li> <li>• corpuls simulation micro SD card</li> <li>• corpuls simulation stickers</li> <li>• corpuls NFC smart pairing tag</li> </ul>		<ul style="list-style-type: none"> <li>• Colour identification of the training equipment and software for the WiFi-AP &amp; BT-GW</li> </ul>
10	Transport bag		<ul style="list-style-type: none"> <li>• Transport of corpuls simulation</li> <li>• Storage space for consumables</li> <li>• With shoulder strap and travel trolley attachment</li> </ul>
11	Allen key		<ul style="list-style-type: none"> <li>• Installation and removal of the Monitor iPad</li> </ul>
12	<p>Set of spacers</p> <ul style="list-style-type: none"> <li>• 5x spacers (side)</li> <li>• 2x spacers (bottom)</li> </ul>		<ul style="list-style-type: none"> <li>• Installation of the Monitor iPad in the housing</li> <li>• Required for 3rd and 4th generation iPads</li> </ul>
13	Switch paddle		<ul style="list-style-type: none"> <li>• Switch the Monitor iPad on/off</li> <li>• For iPads from the 3rd generation</li> </ul>
14	Cover		<ul style="list-style-type: none"> <li>• Covers the top opening when the switch paddle is not in use</li> <li>• For 1st and 2nd generation iPads</li> </ul>

Tab. 4-1 Accessories: Overview

## 5 Installation

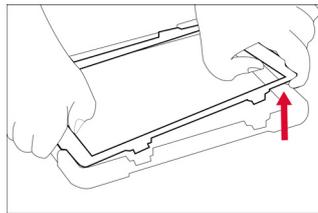
This chapter contains information on the installation of corpuls simulation.

### 5.1 Installing the Instructor iPad

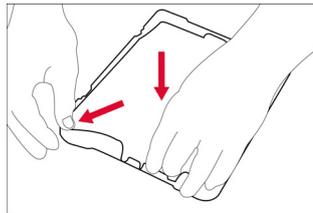
To fit the Instructor iPad in the case, proceed as follows:

Requirements:

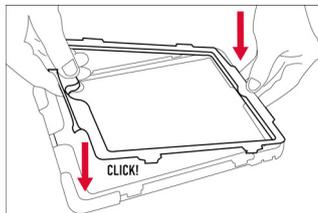
- ✓ Case (accessory item 9) is required (see 4.3 Accessories on page 12).
1. Remove the frame of the case with your hands by applying light pressure.



2. Insert the Instructor iPad into the case under the rubber by lifting the rubber with your fingers.



3. Reattach the frame of the case by gently pressing with your hands.



The Instructor iPad is installed in the case.

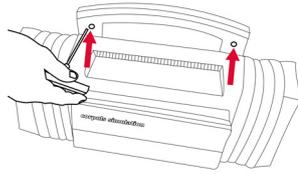
### 5.2 Installing the Monitor iPad

To install the Monitor iPad in the housing, proceed as follows:

Requirements:

- ✓ Accessory items 11, 12, 13 (or 14) are required (see 4.3 Accessories on page 12).
- ✓ Item 4 is required for 3rd and 4th generation iPad Pros.
- ✓ A lightning connector (see accessories for the corresponding iPad) is required for 1st and 2nd generation iPad Pros.

1. Use the Allen key to loosen both screws on the rear of the housing.

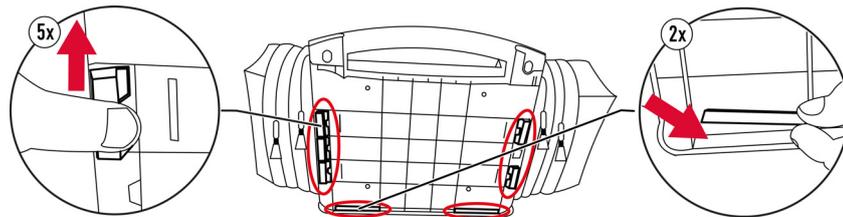


2. Loosen the frame on the Monitor iPad.

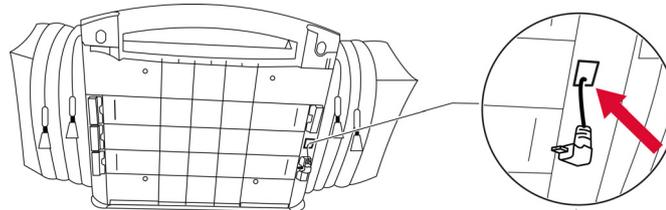


For 1st and 2nd generation iPad Pros, continue with step 5.

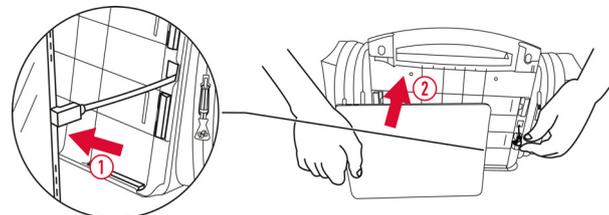
3. For 3rd and 4th generation iPad Pros, attach the spacers.



4. For 3rd and 4th generation iPad Pros, push the USB-C cable with angled connector through the opening between the spacers on the right hand side.



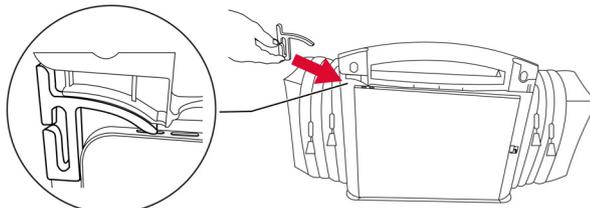
5. Depending on the generation of the iPad Pro model, the user has two options:



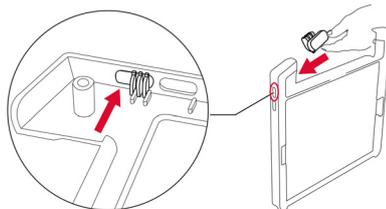
- a) For 3rd and 4th generation iPad Pros, connect the Monitor iPad with the angled USB-C connector and place it within the spacers.
- b) For 1st and 2nd generation iPad Pros, connect the Monitor iPad with the lightning connector and place it within the housing.

6. Depending on the generation of the iPad Pro model, the user has two options:

a) Attach the switch paddle to 3rd or 4th generation iPad Pros.



b) Attach the cover to 1st or 2nd generation iPad Pros.



7. Reattach the frame and screw it down with the Allen key.

The Monitor iPad is installed in the housing.



Further information on installing the Monitor iPad in the housing can be found in the Quick Start Guide.

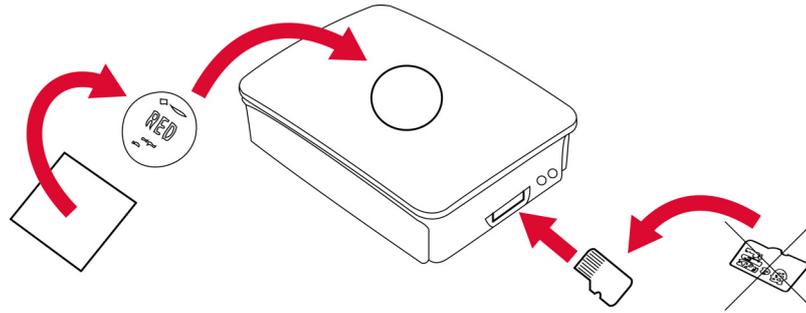
### 5.3 Colour Identification

The devices come with colour identification to help differentiate between different training devices. Accessory item 9 is used for colour ID (see 4.3 Accessories on page 12).

To add colour ID to the WiFi-AP & BT-GW, proceed as follows:

Requirements:

- ✓ Accessory item 9 is required (exception: iPad 10.2" case) (see 4.3 Accessories on page 12).
1. Apply the sticker to the cover and insert the micro SD card into the WiFi-AP & BT-GW.



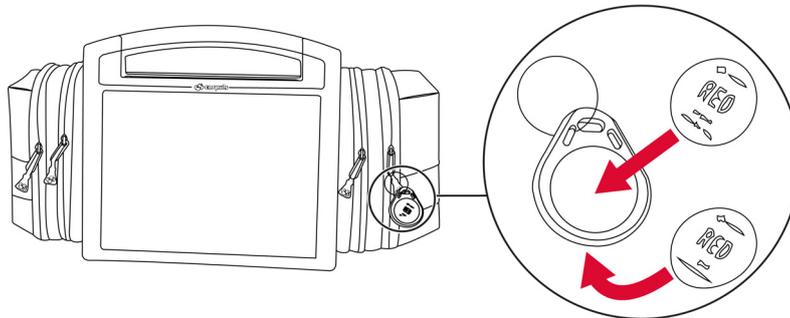
The WiFi-AP & BT-GW is now colour-coded.



The micro SD card also provides the software for the WiFi-AP & BT-GW.

To add colour ID to the housing, proceed as follows:

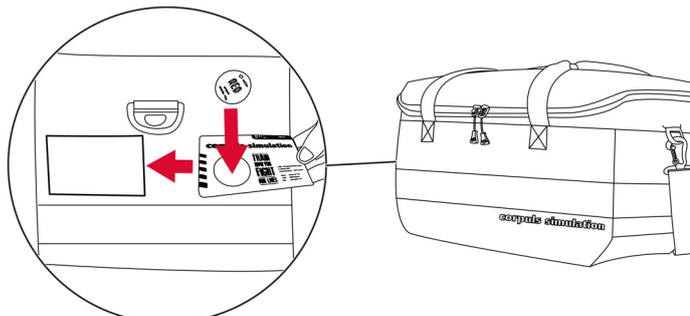
1. Apply the sticker to the NFC smart pairing tag and use the key ring to attach it to one of the zippers on the accessory bag.



The housing is now colour-coded.

To add colour ID to the transport bag, proceed as follows:

1. Apply the sticker to the ID card and insert it into the slot in the transport bag.



The transport bag is now colour-coded.

## 5.4 Preparing the simulation sensors and training electrodes

This chapter provides information on how to prepare the following training accessories:

- ECG monitoring and additional diagnostic cables
- PrimeCuff cuff with NIBP hose corpuls simulation
- EtCO<sub>2</sub> and SpO<sub>2</sub> Sensor
- corPatch simulation trainings electrodes



### WARNING!

Danger due to unapproved accessories!

The use of unapproved accessories and combination with unapproved products can lead to injuries.

- ▶ Only use accessories that have been approved by the manufacturer for combination with the product.
- ▶ The training accessories must not be combined with medical devices.

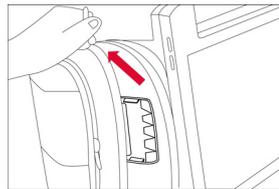
### 5.4.1 Preparing the simulation sensors

To prepare the simulation sensors for training, proceed as follows:

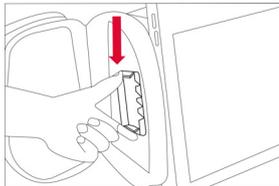
Requirements:

- ✓ Accessory items 6, 7 and 8 are required (see 4.3 Accessories on page 12).

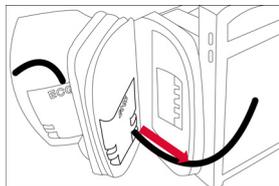
1. Open the accessory pockets zipper.



2. Use your fingers to remove the cover of the locking mechanism under the pockets on the housing.

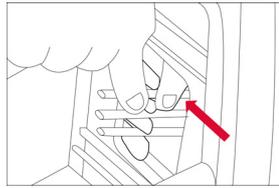


3. If necessary, guide the cable ends through the lower opening in the middle section of the accessory pocket.

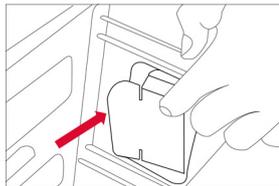


Thin cables can also be secured with a knot.

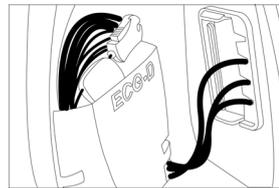
- Secure the cable ends in the clips.



- Close the cover to fix the cables.



- Place the cables in the left and right accessory pockets as required.



The simulation sensors are prepared.

#### 5.4.2 Preparing the training electrodes

To prepare the training electrodes, proceed as follows:

Requirements:

- ✓ Accessory item 5 is required (see 4.3 Accessories on page 12).

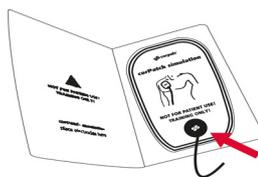
- Peel off the film on the adhesive side.



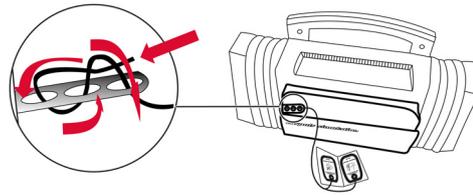
- Attach the electrodes, adhesive side down, as indicated by the markings.



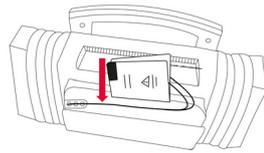
- Attach the master cable to the adhesive surface.



4. In the accessory bag (back), knot the master cable using the tab.



5. Stow the training electrodes in the accessory bag (back).



The training electrodes are prepared.



Further information on preparing the training electrodes and simulation sensors can be found in the Quick Start Guide.

## 5.5 Connecting accessories

This chapter contains information on how to link the following accessories:

- WiFi Access Point and Bluetooth Gateway
- USB charger
- Power bank



### WARNING!

Danger due to unapproved accessories!

The use of unapproved accessories and combination with unapproved products can lead to injuries.

- ▶ Only use accessories that have been approved by the manufacturer for combination with the product.



### WARNING!

Danger due to product damage!

Product damage can result in electric shock.

- ▶ Only use accessories if they are externally undamaged.
- ▶ Check the power cord for damage before use.
- ▶ Only connect to safety sockets that comply with the relevant regulations.

Connecting the accessories can vary depending on the application. Two variations are presented below.

### 5.5.1 Connection variation 1

Connection variation 1 is recommended in the following situations:

- Outside fixed premises
- When there is no infrastructure
- When a permanent internet connection is not required

The power supply during training is guaranteed by the power bank. Batteries (Monitor iPad, Instructor iPad and power bank) can be charged via USB charger if required, provided that a power supply is available.

To connect a device according to variation 1, proceed as follows:

Requirements:

- ✓ Accessory items 1 and 3 are required (see 4.3 Accessories on page 12).
- ✓ The one-sided angled USB-C cable is connected to the Monitor iPad (see 5.2 Installing the Monitor iPad on page 14).

1. Connect WiFi-AP & BT-GW to the power bank (via USB cable with slider).
2. Connect the Monitor iPad to the power bank (via USB-C cable).

The device is connected using variation 1.

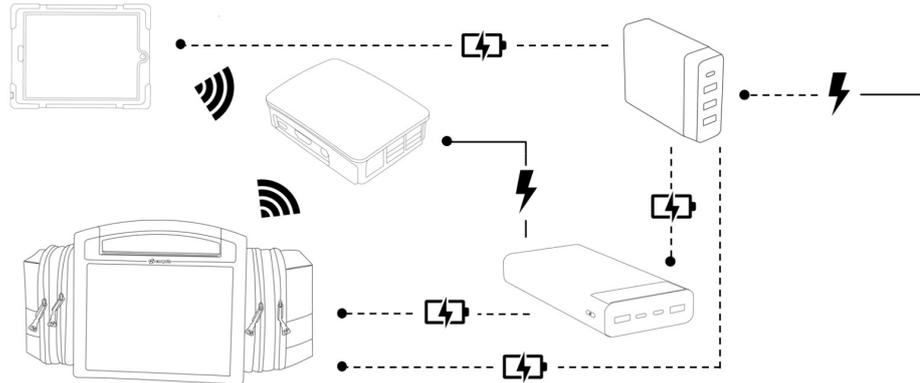


Fig. 5-1 Connection using variation 1

### 5.5.2 Connection variation 2

Connection variation 2 is recommended in the following situations:

- Within a fixed infrastructure (e.g. in schools or simulation centres)
- When a permanent internet connection is required

Power supply is guaranteed via mains power.

To connect a device according to variation 2, proceed as follows:

Requirements:

- ✓ WiFi-AP & BT-GW, USB charger and associated cables are required (see 4.3 Accessories on page 12).

1. Connect WiFi-AP & BT-GW to USB charger (via USB cable with switch).
2. Connect the Monitor iPad to the USB charger (using a USB-C cable).

The device is connected using variation 2.

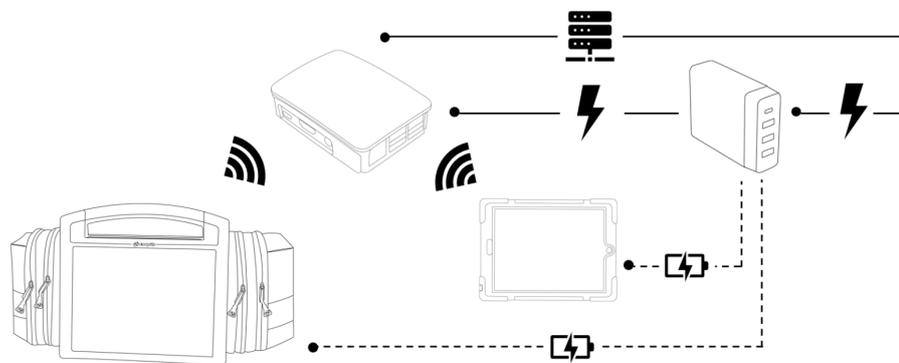


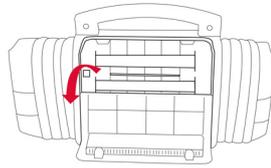
Fig. 5-2 Connection using variation 2

### 5.5.3 Securing the accessories

To avoid damage to the accessories, secure them in the housing.

To secure the devices in the housing, proceed as follows:

1. Open the back of the housing.



2. Place the power bank and USB charger in the housing behind the Monitor iPad and secure with the Velcro fastener.
3. Place WiFi-AP & BT-GW above it and secure with the top Velcro fastener.

The devices are secured.

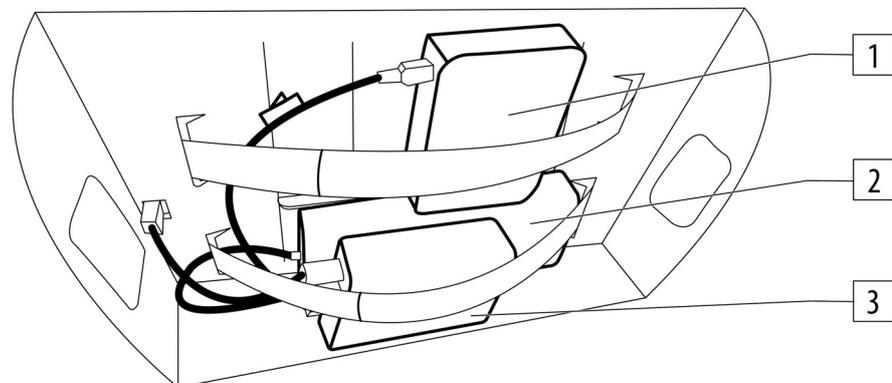


Fig. 5-3 Accessories in the housing

- 1 WiFi-AP & BT-GW
- 2 Power bank
- 3 USB charger

## 5.6 Turning iPads on or off

This chapter provides information on how to turn the Monitor iPad and Instructor iPad on and off.

### 5.6.1 Turning on the Monitor iPad

To turn on the Monitor iPad, proceed as follows:

1. Hold down the lower switch paddle button on the housing for approx. three seconds.

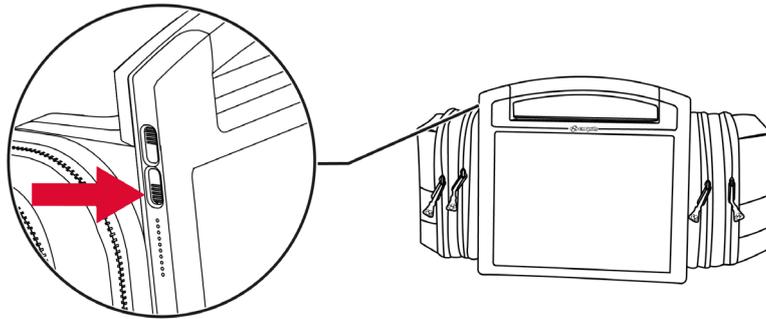


Fig. 5-4 Monitor iPad: On/Off button (switch paddle)

2. Enter access code if required.

The Monitor iPad turns on.

### 5.6.2 Turning on the Instructor iPad

To turn on the Instructor iPad, proceed as follows:

1. Hold down the On/Off button on the case for approx. three seconds.

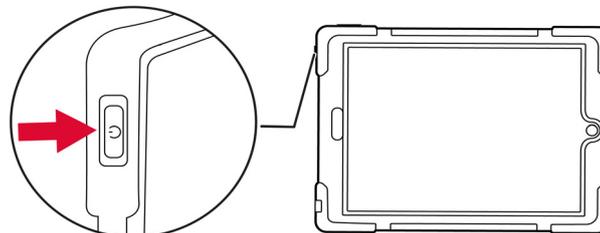


Fig. 5-5 Instructor iPad: On/Off button

2. Enter access code if required.

The Instructor iPad turns on.



To set or change the iPad access codes, refer to the user manual of the respective iPads.

### 5.6.3 Turning off iPads

Both iPads are turned off the same way as they were turned on.

To turn off the iPads, proceed as follows:

1. Hold down the on/off button on the iPad for approx. three seconds.



Exception: In regard to 3rd and 4th generation iPads - when turning off the Monitor iPad, both switch paddle buttons must be held down for approx. three seconds.

2. Slide the "Switch Off" interface to the right.

The iPad turns off.

## 5.7 Configuring the iPads

This chapter contains information on how to configure the iPads.

The iPads must be configured before their first use. If the iPads have already been configured, continue with the "Device operation" chapter (see 6 Device operation on page 27).

### 5.7.1 Establish the network connection

Both iPads must be in the same WiFi network for proper operation.

To establish a network connection, proceed as follows:

Requirements:

- ✓ An internet connection is required.



The Internet connection can also be established with the WiFi-AP & BT-GW if it is connected to a network with a LAN cable.

1. Turn on iPads (see 5.6 Turning iPads on or off on page 23).  
The home screen opens.



Fig. 5-6 Home screen

2. Open settings by tapping .
3. Open WiFi settings by tapping .

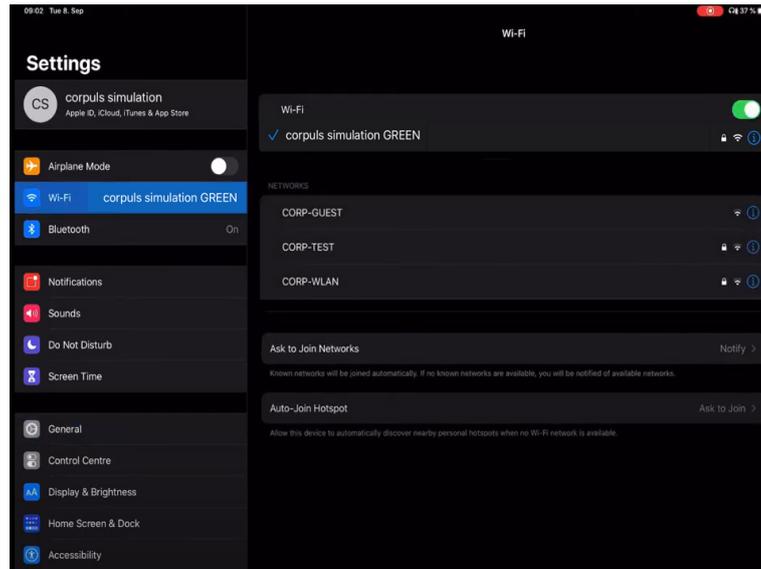


Fig. 5-7 WiFi settings

4. Select the desired network by tapping it (here: corpuls simulation GREEN).
5. Enter network code.  
The network connection is established.



The network code is identical for all devices regardless of colour ID: csim#2020. Once the network connection has been activated, both iPads will be automatically connected to the network when they are switched on.

### 5.7.2 Install the corpuls simulation app

To install the corpuls simulation app, proceed as follows:

1. Open the App Store in the home screen by tapping .

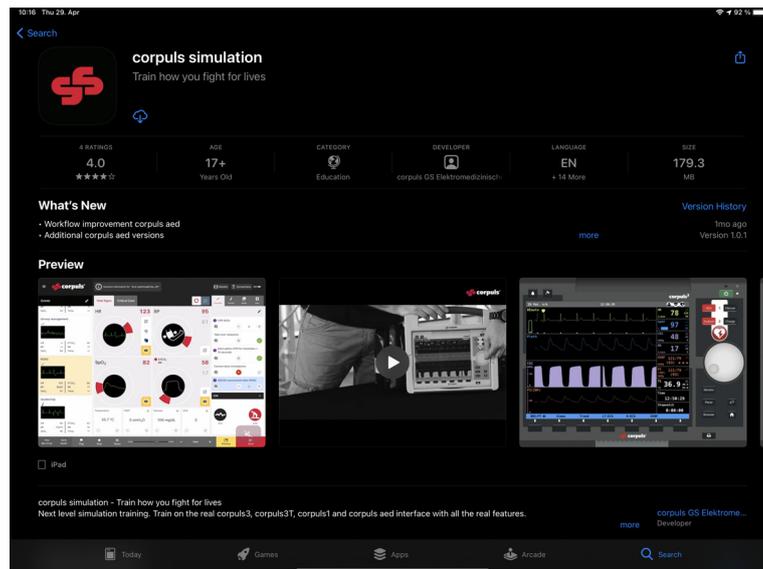


Fig. 5-8 App Store

2. Search for corpuls simulation and download it by tapping "LOAD" or  if necessary.  
The corpuls simulation app is installed.

### 5.7.3 License the Monitor iPad

In the next step, the user has to license the Monitor iPad.

To license the Monitor iPad, proceed as follows:

1. Log into the corpuls simulation Community (see 9.1 Login on page 78).
2. License the Monitor iPad in the corpuls simulation Community (see 9.2 License Monitor iPad on page 79).

The Monitor iPad is licensed.

### 5.7.4 Change the iPad name

The user can change the name of the iPad. This makes it easier to distinguish between the Monitor iPads.

To change the name of the iPad, proceed as follows:

1. In the home screen, change the settings by tapping .
2. Open the general settings by tapping .
3. Tap **Info**.
4. Tap **Name**.
5. Enter a name in the input field, e.g. "CSIM Monitor Red"

The name of the iPad is changed.



The name will be displayed on the network from now on. When training with iPads of the same colour, a number in the name can simplify the difference, e.g. "CSIM Monitor Red 2".

---

The iPad configuration is complete.

## 6 Device operation

This chapter contains information on how to operate corpuls simulation.

### 6.1 Instructions for use

This chapter contains information to help the user with the use of corpuls simulation.

#### 6.1.1 Training design

The user has various options for the following three phases of the training:

##### Before training

- Design a training scenario (see 6.5.2 Create or edit an event on page 40).

Alternatives:

- Load the scenario from the scenario library (see 6.4.1 Load scenarios on page 33).
- Import scenario from the corpuls simulation Community (see 9.8 Import scenario on page 82).

##### During training

- Change event manually (see 6.5.1 Navigate between events on page 40)
- Control the scenario (see 6.6 Section 3: Scenario Control on page 44)
- Edit parameter and curve settings (see 6.7 Section 4: Parameter and Curve Settings on page 47)
- Send changes to the Monitor iPad (see 6.6.1 Send settings on page 45)
- Comment on the scenario (see 6.6.6 Set markers on page 46)
- Evaluate the scenario (see 6.9.1 Checklists on page 57)
- Regulate CPR (see 6.8 Section 5: CPR on page 55)
- Screen sharing (see 7 Screen synchronisation on page 74)

##### After training

- Evaluate the training (see 8 Scenario evaluation on page 77)
- Exchange ideas and scenarios with other users in the corpuls simulation Community (see 9 Community on page 78)

#### 6.1.2 Create a scenario

A scenario forms the structural and thematic framework of the training with corpuls simulation. A scenario consists of events that follow one another chronologically and require the students to take appropriate action depending on the situation. The actions of the trainees can be checked with the help of checklists.

The following information helps the user to create a scenario. After each step, the corresponding chapter in this user manual is referenced.

To create a scenario, proceed as follows:

1. Create, save and load a new scenario from the scenario library  
(see 6.4.2 Create and save scenarios on page 33)  
(see 6.4.1 Load scenarios on page 33)
2. Edit general scenario settings (name, duration, etc.)  
(see 6.4.3 Edit general settings on page 35)
3. Edit general patient settings (gender, age, history, etc.)  
(see 6.4.3 Edit general settings on page 35)

4. Create medical records (clinical story and previous history, etc.)  
(see 6.4.3 Edit general settings on page 35)
  5. Create events for the scenario (e.g. for first-aider CPR, for the arrival of the ambulance, etc.)
    - a) Assign a name, set the device interface, effects and trend time  
(see 6.5.2 Create or edit an event on page 40)
    - b) Set parameters and waveforms, hide parameters and curves if necessary  
(see 6.5.2 Create or edit an event on page 40)
    - c) Create a checklist and add checklist items to events  
(see 6.9.1 Checklists on page 57)
    - d) Select or record sounds and add them to events, if necessary  
(see 6.9.2 Sounds on page 61)
    - e) Select or import images and videos and add them to events, if necessary  
(see 6.9.3 Media on page 64)
    - f) Create labs and add lab entries to events, if necessary  
(see 6.9.4 Labs on page 68)
  6. Create text boxes, if necessary  
(see 6.5.3 Create text box on page 42)
- The scenario is created.



Not all of these proposed elements need to be added to scenarios. The user has a high degree of design freedom.

## 6.2 Start the app

This chapter contains information on how to start the corpuls simulation app.

### 6.2.1 Open the home screen

To open the corpuls simulation home screen, proceed as follows:

Requirements:

- ✓ The iPads must be in the same WiFi network (see 5.7 Configuring the iPads on page 24).

1. Open the corpuls simulation app on the home screen of both iPads by tapping .  
The corpuls simulation home screen opens.

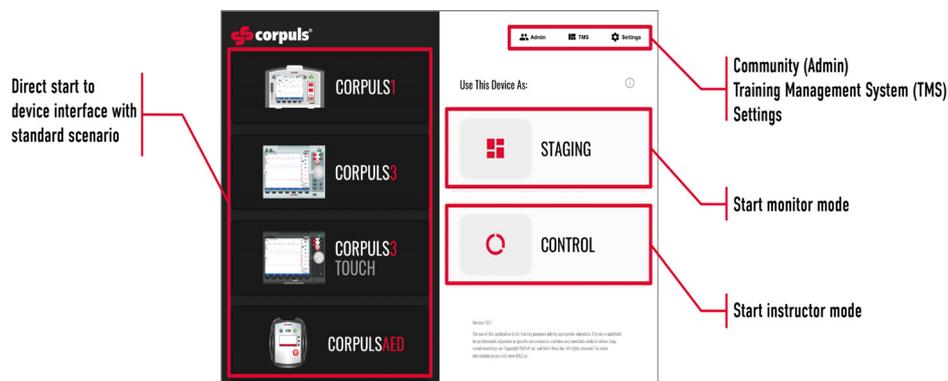


Fig. 6-1 corpuls simulation home screen



Advanced users can start directly in a device interface with a standard scenario. For the Community, see Chapter 10 (see 9 Community on page 78).

## 6.2.2 Assign modes

After opening the home screen, the Monitor iPad starts in monitor mode and the Instructor iPad starts in instructor mode.

### Start monitor mode

To start the Monitor iPad in monitor mode, proceed as follows:

1. Tap  STAGING on the home screen.

The Monitor iPad is active in monitor mode and waits for commands from the Instructor iPad.



Fig. 6-2 Monitor mode



For the moment, no further settings can be made on the Monitor iPad. The device interfaces and scenarios are selected using the Instructor iPad.



To exit monitor mode and return to the home screen, double-tap  corpuls® (for corpuls1 and corpuls aed) or **corpuls<sup>3</sup>** (for corpuls3 and corpuls3T) and confirm the security query by tapping **Close Monitor**.

Start instructor mode

To start the Instructor iPad in instructor mode, proceed as follows:

1. Tap  CONTROL on the home screen.  
The Instructor iPad is active in instructor mode.



Fig. 6-3 Instructor mode

2. Tap the  Tap to Connect connection bar.  
The selection menu of the available Monitor iPads opens.

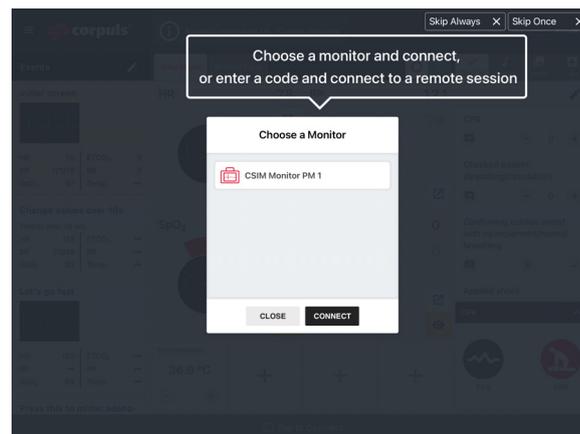


Fig. 6-4 Selection menu of the available Monitor iPads

3. Select the Monitor iPad by tapping  and establish a connection to the selected Monitor iPad by tapping **CONNECT**.  
The instructor control screen opens.

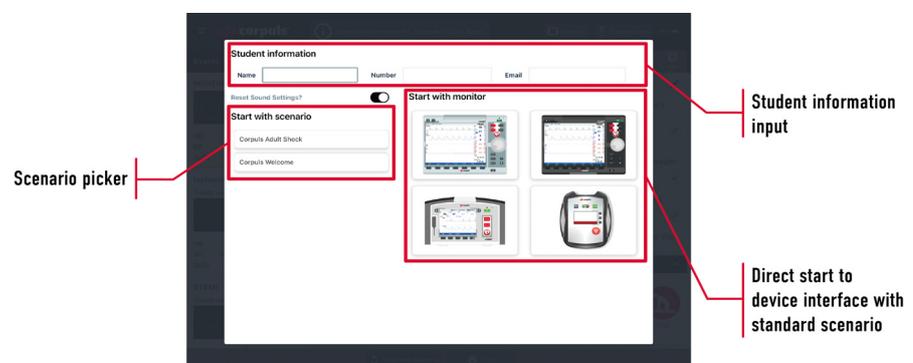


Fig. 6-5 Instructor control screen

4. If required, enter student information in the input fields.



The student information is automatically included in the Training Management System (TMS).

5. Select device interface by tapping a thumbnail.



When a device interface is chosen, a standard scenario is started. Advanced users can start a saved scenario under "Scenario Selection" in the instructor control screen.

The Monitor iPad opens to the desired monitor.  
The Instructor iPad opens to the main menu.



The user can exit the instructor mode in the main menu by tapping and Exit to Menu and thus return to the home screen (see 6.4.7 Exit instructor mode on page 39).

### 6.3 Main menu

This chapter provides an overview of the main menu.

Once the user has started the app and assigned the instructor and monitor mode (see 6.2.2 Assign modes on page 29), the main menu opens on the Instructor iPad.

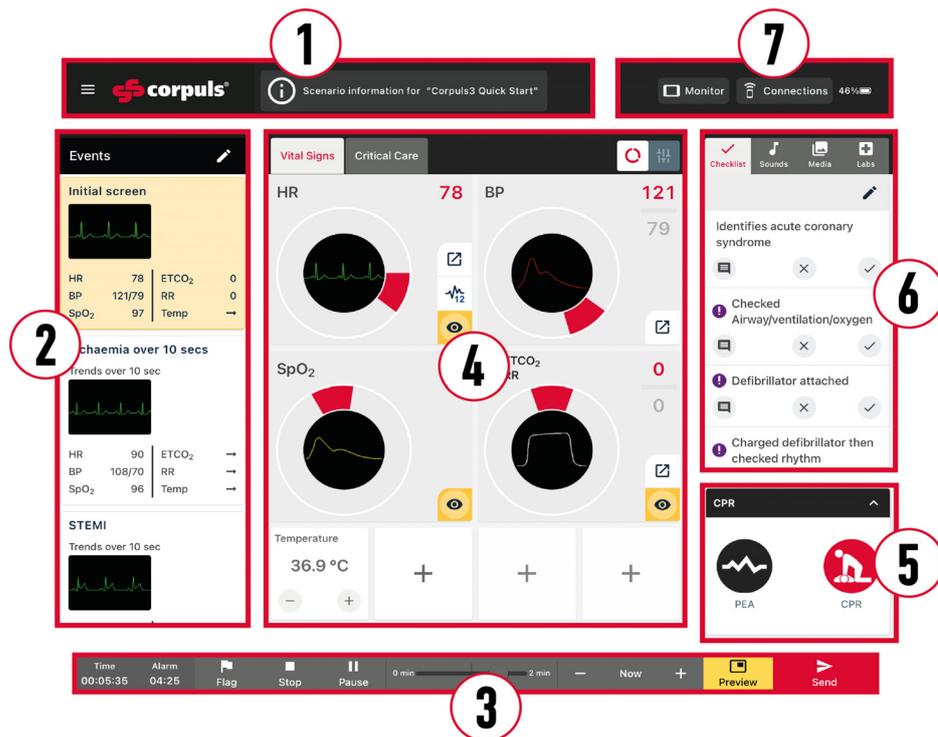


Fig. 6-6 Main menu: Overview of sections 1-7

The main menu is divided into seven sections with different functions:

Section	Name	Function
1	Scenarios	<ul style="list-style-type: none"> <li>• Create and edit general scenario information (name, duration, patient, actions, etc.)</li> <li>• Manage scenario library</li> </ul>
2	Events	<ul style="list-style-type: none"> <li>• Create and edit events</li> <li>• Navigate between events</li> </ul>
3	Scenario control	<ul style="list-style-type: none"> <li>• Control scenarios</li> <li>• Send parameter and curve settings to the Monitor iPad</li> <li>• Set markers (comment on the scenario)</li> </ul>
4	Parameter and curve settings	<ul style="list-style-type: none"> <li>• Set parameter and curve settings</li> </ul>
5	CPR	<ul style="list-style-type: none"> <li>• Show ECG artifacts during chest compression</li> <li>• Deactivate pulse signal</li> <li>• Change pacer capture threshold</li> </ul>
6	Library	<ul style="list-style-type: none"> <li>• Create/import and manage checklists, sounds, images, videos and labs</li> <li>• Add checklist items, sounds, images, videos and labs to events</li> </ul>
7	System control	<ul style="list-style-type: none"> <li>• Check or change monitor status and connection status</li> </ul>

Tab. 6-1 Main menu: Overview of sections 1-7

## 6.4 Section 1: Scenarios

This chapter contains information on section 1 "Scenarios".

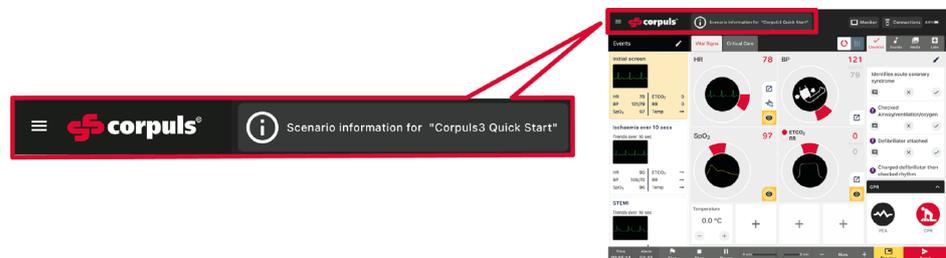


Fig. 6-7 Section 1 "Scenarios"

The user has the following options in section 1:

- Create and edit general scenario information (name, duration, patient, actions, etc.)
- Manage scenario library

### 6.4.1 Load scenarios

The user can load scenarios saved in the scenario library.

To load a scenario, proceed as follows:

1. In section 1, tap .

The scenario menu opens.

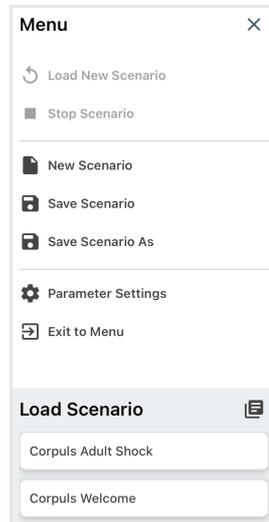


Fig. 6-8 Scenario menu

2. Tap .

The scenario library opens.

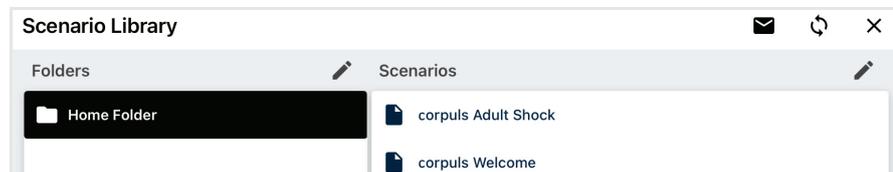


Fig. 6-9 Scenario library

3. Select scenario by tapping.

The scenario is loaded.



Alternatively, scenarios can be loaded directly in the scenario menu under **Load Scenario**.

### 6.4.2 Create and save scenarios

The user can create a scenario. The first step is to create and save the scenario. The user can then load the scenario from the scenario library (see 6.4.1 Load scenarios on page 33) and edit it.



The scenario can also be created before saving. The manufacturer recommends saving the scenario as soon as possible as well as saving it during creation by tapping  and  **Save Scenario**.

To create and save a new scenario, proceed as follows:

1. In section 1, tap .  
The scenario menu opens.
2. Tap  New Scenario.  
An empty scenario opens.

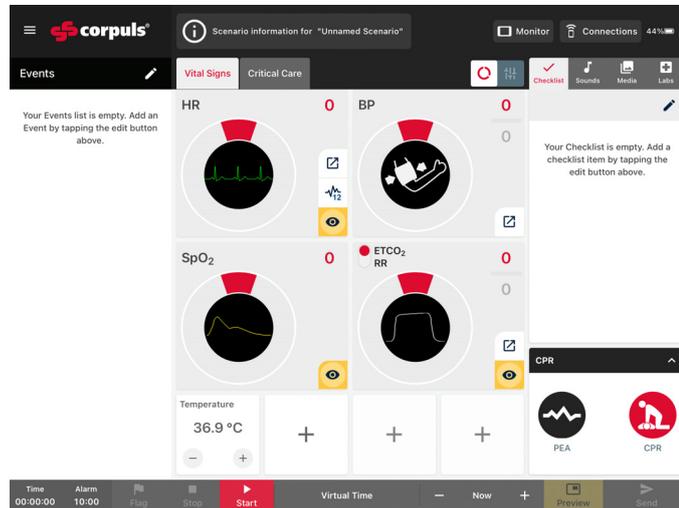


Fig. 6-10 Empty scenario

3. Tap  again.
4. Tap  Save Scenario As.  
The "Save Scenario As" dialogue box opens.

**SAVE SCENARIO AS...**

Scenario Name

In Folder

Fig. 6-11 "Save Scenario As" dialogue box

5. Enter the name for the scenario in the input field and select the save location by tapping.
6. Tap **UPDATE**.

The new scenario is saved in the scenario library.

The new scenario can now be edited.

(see 6.4.3 Edit general settings on page 35)

(see 6.5.2 Create or edit an event on page 40)

### 6.4.3 Edit general settings

When the user creates or edits a scenario, they can edit general settings for the scenario and the patient and they can describe the action within the scenario.



The following settings are only editable, if scenario not yet started or has been stopped.

#### Edit scenario settings

To edit scenario settings, proceed as follows:

1. In section 1, tap "Scenario Information".  
The scenario overview opens.

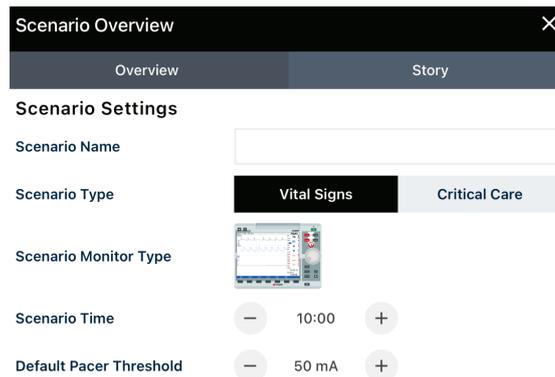


Fig. 6-12 Scenario overview

2. The user has the following options:
  - a) Assign scenario name.
  - b) To select a device interface for a scenario, tap on the thumbnail and select the device interface from the menu of available interfaces.

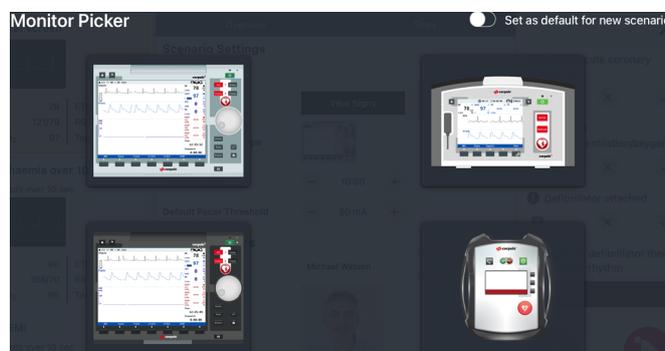


Fig. 6-13 Selection menu of the available device interfaces



This device interface will always be active when no other device interface has been selected for individual events within the scenario (see 6.5.2 Create or edit an event on page 40).

- c) Set the scenario duration by tapping or .



The time set is counted down in section 3 "Scenario Control" under **Alarm** (see 6.6.3 Check duration on page 45).

- d) Set the pacer capture threshold by tapping or .



The pacer capture threshold can be adjusted during training (see 6.8.3 Change pacer capture threshold on page 56).

3. Tap **UPDATE**.  
The scenario settings are edited.

## Edit patient settings

To edit patient settings, proceed as follows:

1. In section 1, tap ⓘ "Scenario Information".  
The patient settings open.

**Patient Settings**

Patient Name

Patient Photo 

Patient Sex  Male  Female  Unspecified

Patient Age

Patient Condition

Date Admitted

Admitted Days Ago

Fig. 6-14 Patient settings

2. The user has the following options:
  - a) Assign patient name.
  - b) To select the patient image, tap on the thumbnail and select the patient image from the selection menu of the patient images available.

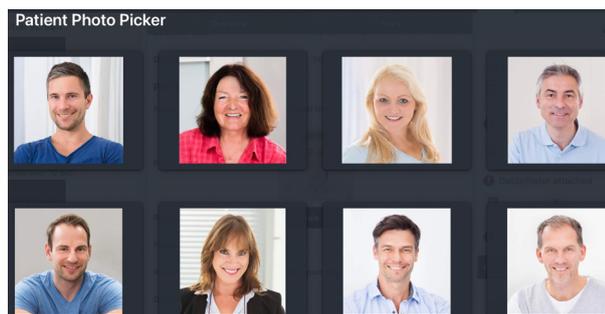


Fig. 6-15 Selection menu of the patient images available

- c) Set the patients age.
  - d) Describe the patient's general condition.
  - e) Set the date of admission.
  - f) Set the duration of hospitalisation by tapping  or .
3. Tap **UPDATE**.  
The patient settings are edited.



The patient settings cannot be changed while a scenario is running. To change patient settings, the scenario must be stopped.

Create medical records

The user can use the medical records to adapt the scenario using the following information:

- Medical story and history
- Clinical course
- Discussion points

To create a medical record, proceed as follows:

1. In section 1, tap Scenario Information.
2. Tap **Story**.  
The scenario opens.

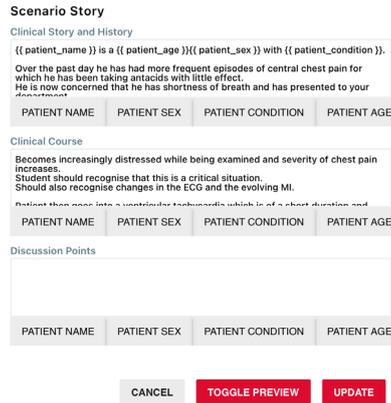


Fig. 6-16 Scenario

3. Enter information in the input fields.
4. Information about the general patient settings is displayed by tapping **TOGGLE PREVIEW**.
5. Tap **UPDATE**.  
The medical record is created.

### 6.4.4 Send scenario

The user can send scenarios from the scenario library.

To send a scenario from the scenario library, proceed as follows:

Requirements:

- ✓ An internet connection is required.

1. In section 1, tap .
2. Tap .
3. Tap .

"Email Scenarios" opens.

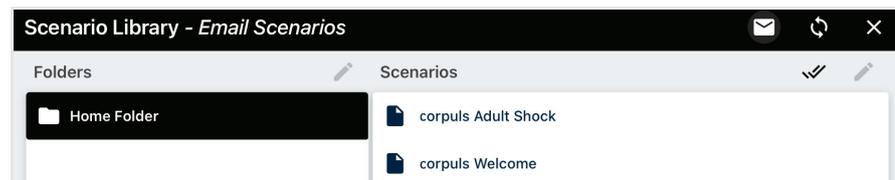


Fig. 6-17 Email Scenarios

4. Highlight the scenario by either tapping on it or to highlight all saved scenarios.

5. Tap **SEND**.  
The "Send Scenario" dialogue box opens.

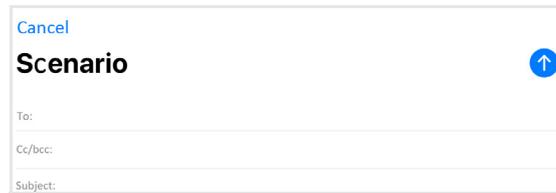


Fig. 6-18 "Send Scenario" dialogue box

6. Enter recipient and subject in the input fields.
7. Tap .  
The scenario is sent.

### 6.4.5 Synchronise scenario

The user can synchronise scenarios in the scenario library between iPads. During synchronisation, the source device shares scenarios with one or more receiving devices.

To synchronise a scenario in the scenario library, proceed as follows:

Requirements:

- ✓ The source device and the receiving device are on the same network and can communicate with each other (see 5.7 Configuring the iPads on page 24).
- ✓ The source device and the receiving device are in instructor mode (see 6.2.2 Assign modes on page 29).

1. On both the source device and receiving device, tap in section 1.
2. On both the source device and the receiving device tap .
3. On both the source device and the receiving device tap .

The iPads are in synchronisation mode.

Sync Scenarios opens.

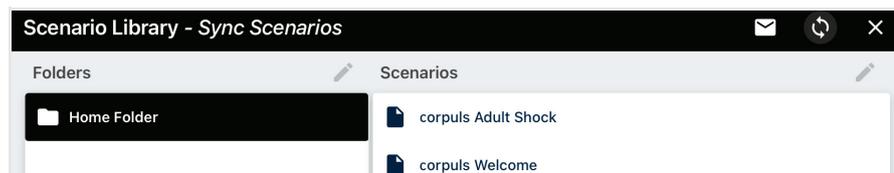


Fig. 6-19 Sync Scenarios

4. On the source device, tap on the scenario to be synchronised.  
The "Sending Data" dialogue box opens on the source device.  
The "Receive data" dialogue box opens on the receiving devices.

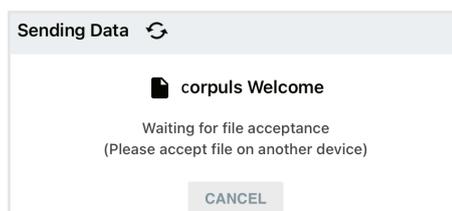


Fig. 6-20 "Sending Data" dialogue box

5. Tap "Accept" on the receiving devices.  
The scenario is synchronised.

### 6.4.6 Delete scenario

The user can delete scenarios that are saved in the scenario library.

To delete a scenario from the scenario library, proceed as follows:

1. Open the scenario menu by tapping .
2. Open the scenario library by tapping .

The scenario menu opens.

3. Open the edit menu by tapping .
4. Next to the scenario, tap .
5. Confirm deletion by tapping .

The scenario is deleted from the scenario library.

### 6.4.7 Exit instructor mode

The user can exit instructor mode to return to the home screen.

To exit instructor mode, proceed as follows:

1. The user has two options:
  - a) Open the scenario menu by tapping  and tap  Exit to Menu .
  - b) Swipe right from the left edge of the screen.  
The iPad will exit instructor mode.  
The home screen opens (see 6.2.1 Open the home screen on page 28).

## 6.5 Section 2: Events

This chapter contains information on section 2 "Events".

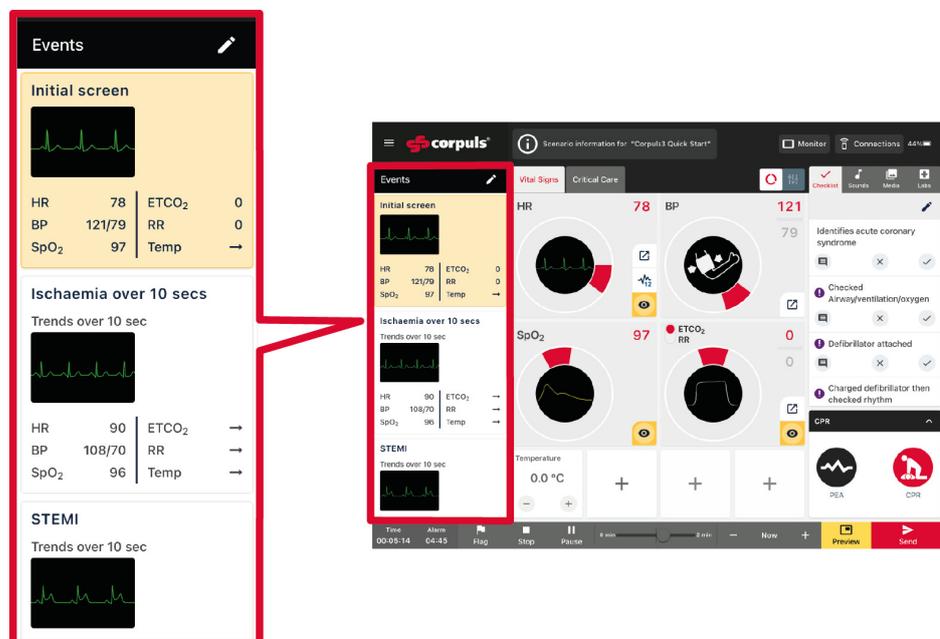


Fig. 6-21 Section 2 "Events"

The user has the following options in section 2:

- Create and edit events
- Navigate between events

In section 2 "Events" the events are listed chronologically one below the other. The active event is highlighted in yellow.

### 6.5.1 Navigate between events

The user can manually navigate between events during a scenario. This is also possible when a duration has been set for events within the scenario (see 6.5.2 Create or edit an event on page 40).

To navigate between events, proceed as follows:

1. Tap any event in the sequence.  
The desired event is active.  
The Monitor iPad shows the associated parameters and curves.

### 6.5.2 Create or edit an event

This chapter contains information on how to create or edit events.

The user can create new events for scenarios or edit events. The setting options in the "Create Event" and "Edit Event" edit menus are identical.

To edit or create an event, do the following:

1. In section 2, tap .  
The list of events opens.

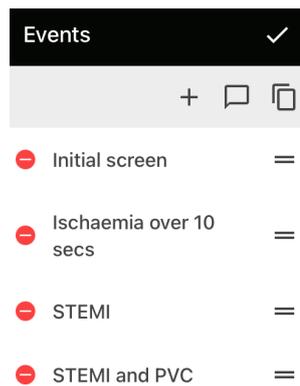


Fig. 6-22 List of events

2. The user has two options:
  - a) To create a new event, tap .

- b) To edit an event, tap on the corresponding event in the list.  
The "Edit Event" or "Create Event" edit menu opens.

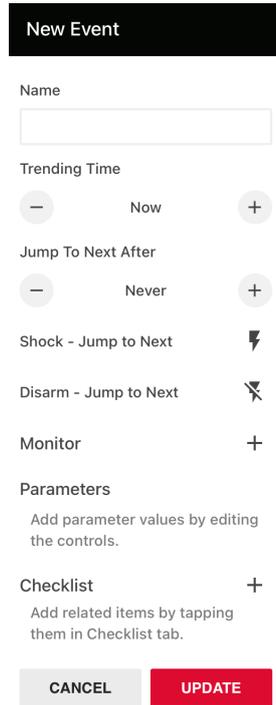


Fig. 6-23 "Create Event" edit menu

3. Set name, trend time, duration and effects by tapping on +, -, ⚡ and ✖ (see Tab. 6-2 Create and edit an event: Functions on page 42).
4. To select a device interface for the event, tap on "Monitor" + and select the device interface from the available device interface menu.

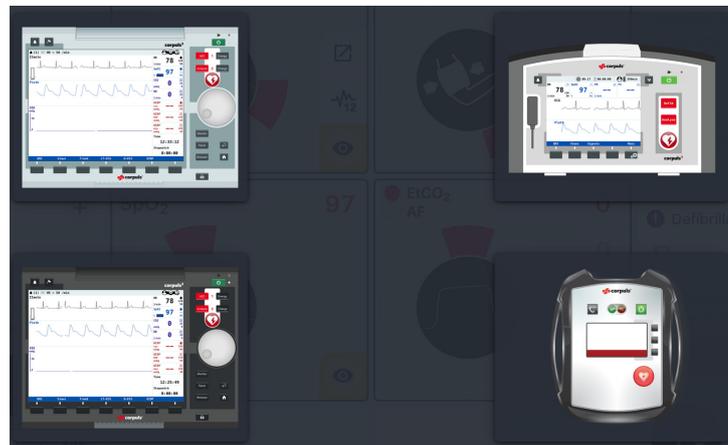


Fig. 6-24 Selection menu of the available device interfaces



Selection of a device interface is only required here if the device selection deviates specifically for an event in the scenario. The user can pre-select a device interface for all events within the scenario in section 1 "Scenarios" (see 6.4.3 Edit general settings on page 35).

5. To add checklist items, sounds, images, videos or labs to events, refer to the information from section 7 "Library" (see 6.9 Section 6 "Library" on page 57).

6. Tap **UPDATE**.  
The event is created or edited.  
Newly created events are saved in the list of events.
7. To close the list of events and return to the main menu, tap .

The following table contains information on the functions of the "Create Event" and "Edit Event" edit menus.

Function	Description
Name	The user can assign a name to the event.
Trend time	When changing from one event to another, the user can change the parameter values successively within a certain period of time. The following settings are possible: <ul style="list-style-type: none"> <li>• Immediately (function is inactive)</li> <li>• 10 s, 20 s, 30 s, 45 s, 60 s, 90 s, 2 min, 3 min, 4 min, 5 min, 10 min, 15 min.</li> </ul>
Duration	The user can set the duration of the event. The following settings are possible: <ul style="list-style-type: none"> <li>• Manual (see 6.5.1 Navigate between events on page 40)</li> <li>• 0 s - 10 s: adjustable in 1 second increments</li> <li>• 10 s - 30 s: adjustable in 5 second increments</li> <li>• 30 s - 2 min: adjustable in 10 second increments</li> <li>• 2 min - 5 min: adjustable in 30 second increments</li> <li>• 5 min - 10 min: adjustable in 60 second increments</li> </ul>
Shock - with effect	After a shock, the user can have the next event automatically set.
Discharge - with effect	After an aborted shock (charging or ready state is aborted), the user can have the next event automatically set.
Monitor	The user can select a device interface for the event. The selection is only valid for the respective event, not for the entire scenario.

Tab. 6-2 Create and edit an event: Functions

### 6.5.3 Create text box

The user can integrate text boxes into the scenario. A text box is text that is displayed on the Monitor iPad. The text box is displayed for a set time. The display time starts at the beginning of the event.

The user can position a text box at the beginning of a scenario, at the end of a scenario or between events in the scenario.

The following display times and total runtimes can be set:

- 1 s - 10 s: adjustable in 1 second increments
- 10 s - 30 s: adjustable in 5 second increments
- 30 s - 2 min: adjustable in 10 second increments
- 2 min - 5 min: adjustable in 30 second increments
- 5 min - 10 min: adjustable in 60 second increments

To add a text box to a scenario, proceed as follows:

1. In section 2 "Events", tap .  
The list of events opens.
2. Tap .  
The "New Text Box" edit menu opens.

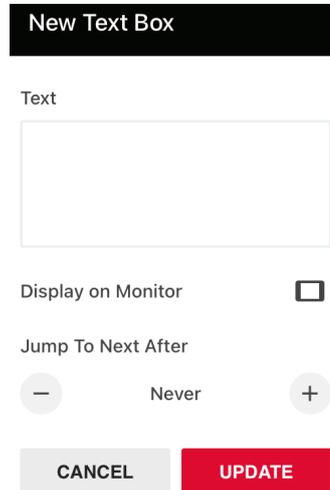


Fig. 6-25 "New Text Box" edit menu

3. Enter text in the input field.
4. Tap .
5. To view the text on the full screen, tap .
6. Set the display duration and the run time of the text box by tapping  or .
7. Tap **UPDATE**.
8. To return to the main menu, tap .  
The text box is added to the scenario.



The newly created text box is at the bottom of the list of events. The user can move text boxes within the scenario as with events (see 6.5.4 Move event on page 43).

#### 6.5.4 Move event

In order to change the sequence of events within scenarios, the user can move events within scenarios.

To move an event, proceed as follows:

1. In section 2 "Events", tap .  
The list of events opens.
2. Next to the event, tap and hold  and move the event to the desired position.
3. To return to the main menu, tap .  
The event is moved.

### 6.5.5 Duplicate event

The user can duplicate events.

To duplicate an event, proceed as follows:

1. In section 2 "Events", tap .  
The list of events opens.
  2. Tap .
  3. Tap on Duplicate Event.
  4. To return to the main menu, tap .
- The event is duplicated.



The newly duplicated event shows in the list of events, below the original event.

### 6.5.6 Delete event

The user can delete events from scenarios.

To delete an event, proceed as follows:

1. In section 2 "Events", tap .  
The list of events opens.
  2. Next to the event, tap .
  3. Confirm deletion by tapping .
  4. To return to the main menu, tap .
- The event is deleted from the scenario.

## 6.6 Section 3: Scenario Control

This chapter contains information on section 3 "Scenario Control".

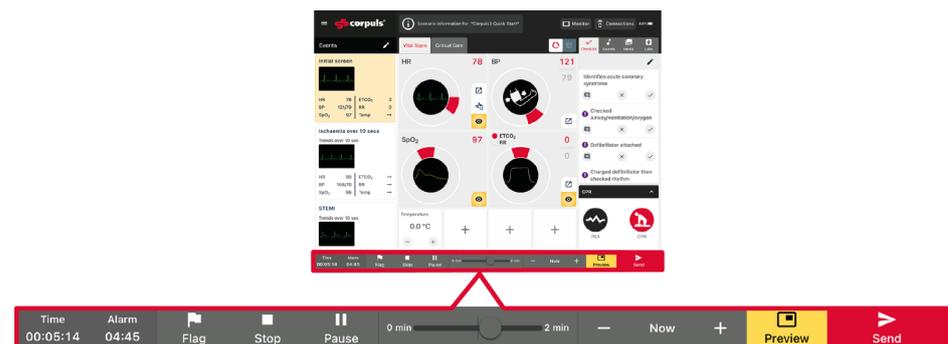


Fig. 6-26 Section 3 "Scenario Control"

The user has the following options in section 3:

- Control scenarios
- Set markers
- Send parameter and curve settings to the Monitor iPad

### 6.6.1 Send settings

The user can send parameter and curve settings to the Monitor iPad.

To send parameter and curve settings to the Monitor iPad, proceed as follows:

Requirements:

- ✓ Parameter and curve settings have been made (see 6.7 Section 4: Parameter and Curve Settings on page 47).

1. To preview the parameter and curve settings, tap .
2. To send, tap .

The parameter and curve settings are sent to the Monitor iPad.

### 6.6.2 Stop the scenario

The user can pause or stop scenarios.

To stop or pause a scenario, proceed as follows:

1. The user has two options:
    - a) To pause and, if necessary, continue a scenario, tap  and .
    - b) To stop a scenario, tap  and confirm the query by tapping .
- The scenario stops.



If the user stops the scenario, the training is finished for good. The Instructor iPad then automatically switches to the scenario evaluation (see 8 Scenario evaluation on page 77).

### 6.6.3 Check duration

The user can check the duration during the training.

- **Time** shows the current duration of the scenario.
- **Alarm** shows the duration remaining.



The user can set the duration in section 1 "Scenarios" (see 6.4.3 Edit general settings on page 35).

### 6.6.4 Adjust the time display

The user can adjust the time display during scenarios by sliding the cursor . The time display then no longer corresponds to the time that has actually passed (virtual time). With this function, the user can skip time-consuming actions during training (e.g. conversations).

To adjust the time display, proceed as follows:

1. The user has two options:
    - To add time to the time display, slide the cursor to the right.
    - To stop the time display for a certain period of time, slide the cursor to the left.
- The time display is adjusted.

### 6.6.5 Set trend time

The user can set a trend time anywhere within the scenario. With the help of trend time, parameter values change successively over a set period of time.

The following settings are possible:

- Immediately (immediate change in value)
- 0 s - 30 s: adjustable in 10 second increments
- 30 s - 2 min: adjustable in 30 second increments
- 2 min - 5 min: adjustable in 1 minute increments
- 5 min - 15 min: adjustable in 5 minute increments

To set trend time, proceed as follows:

1. Set trend time in section 3 "Scenario Control" by tapping Now .
2. Edit parameter settings in section 4 "Parameter and Curve Settings" (see 6.7 Section 4: Parameter and Curve Settings on page 47).
3. In section 3 "Scenario Control", tap . Trend time is set.

This is indicated in blue on the trend time pie chart in the control panel of the corresponding parameter.

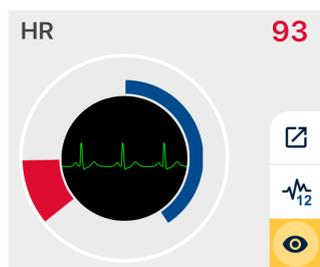


Fig. 6-27 Trend time pie chart

### 6.6.6 Set markers

The user can use markers to comment on the activity of the students. When the user ends the scenario (see 6.6.2 Stop the scenario on page 45), the comments and time the comments were made are integrated into the scenario evaluation. (see 8 Scenario evaluation on page 77).

To set a marker, proceed as follows:

1. While the scenario is running, tap in section 3 "Scenario Control". The "Marker" menu opens.

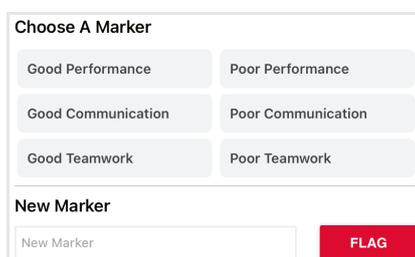


Fig. 6-28 "Marker" menu

2. The user has two options:
  - a) Tap on predefined markers using or .
  - b) Enter a freely formulated marker in the input field and tap . The marker is set.

## 6.7 Section 4: Parameter and Curve Settings

This chapter contains information on section 4 "Parameter and Curve Settings".

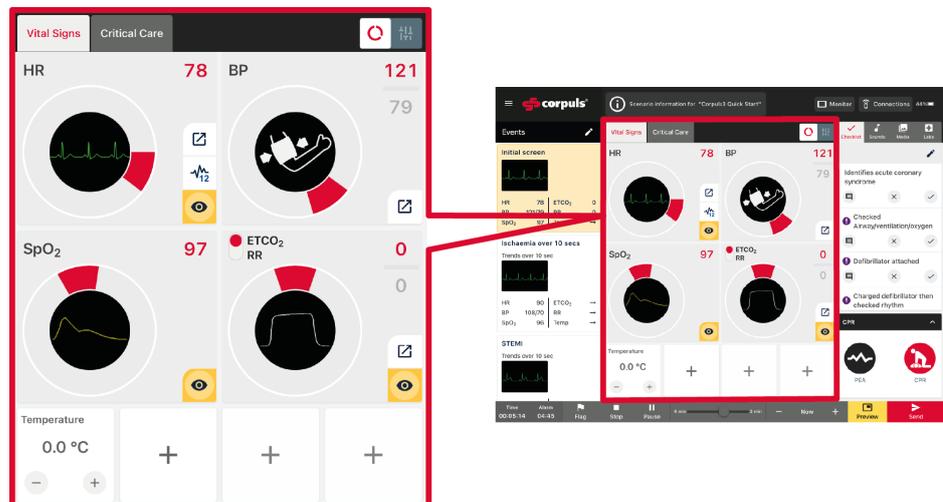


Fig. 6-29 Section 4 "Parameter and Curve Settings"

There are five control panels in section 4:

- Heart Rate control panel (HR Control Panel)
- Blood Pressure control panel (BP Control Panel)
- Oxygen saturation control panel (SpO<sub>2</sub> Control panel)
- End tidal carbon dioxide pressure and respiratory rate control panel (etCO<sub>2</sub>/RR Control panel)
- Additional parameters control panel for (e.g. temperature)

The user has the following options in section 4:

- Change parameter values
- Select waveforms
- Show or hide curves on the Monitor iPad
- Add ectopics and interference to a scenario
- Select and print electrocardiograms (ECGs)
- Add additional parameters to a scenario

### 6.7.1 Change view

The user can change the control panel view.

The user has two views to choose from:

- Circular control view
- Slider control view

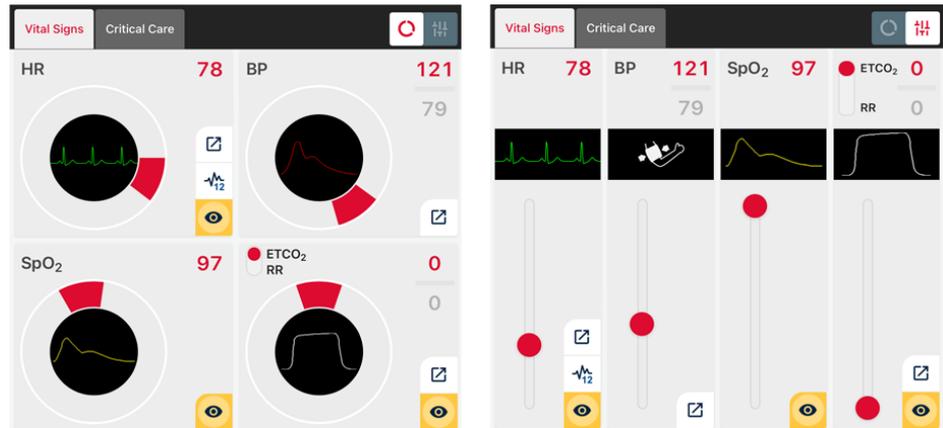


Fig. 6-30 View of circular and slider controls

To change the control panel view, proceed as follows:

1. For the circular view, tap and for the slider view, tap . The view is changed.

### 6.7.2 Change parameter values

The user can change the parameter values for HR, BP, SpO<sub>2</sub>, etCO<sub>2</sub> and RR.

To change the parameter values, proceed as follows:

1. Tap, hold and move the red cursor on the corresponding control panel.
2. Tap .

The Monitor iPad displays the parameter values and the associated curves.



To change the etCO<sub>2</sub> value or RR value, the user must move the slider to the appropriate position.

This way, the user can only change the systolic and diastolic blood pressure in relation to one another.

To change the systolic and diastolic blood pressure independently of one another, proceed as follows:

1. Open the advanced controls in the BP control panel by tapping .  
There is a separate cursor for both systolic and diastolic blood pressure.

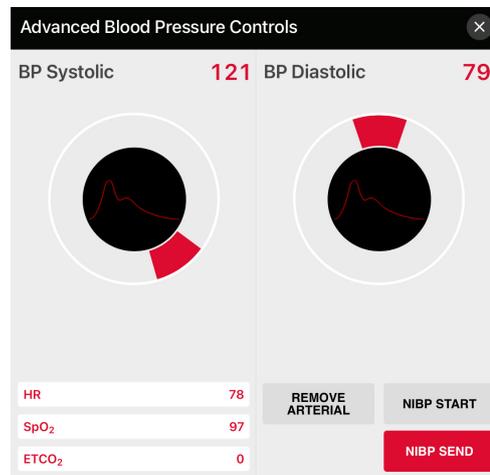


Fig. 6-31 BP: Advanced controls

2. Tap, hold and slide the cursor.
3. Tap **NIBP SEND**.  
Systolic and diastolic blood pressure are changed independently of each other.



The user can immediately overwrite the BP value by tapping **NIBP SEND**. Here, no measurement is required by the student. By tapping  in section 3 "Scenario Control", the value is available for the next measurement.

### 6.7.3 Show or hide curves

The user can show or hide the vital parameter curves for HR, IBP, SpO<sub>2</sub> and etCO<sub>2</sub>/RR on the Monitor iPad.



The etCO<sub>2</sub> value and the RR value are shown as a curve.

To show or hide the vital parameter curves, proceed as follows:

1. Tap either  (show) or  (hide) on the corresponding control panel.  
Curves are shown or hidden.

The IBP curve is hidden by default. It can be displayed via the advanced controls.

To show or hide the IBP curve, proceed as follows:

1. Open the advanced controls in the BP control panel by tapping .
2. Tap **INSERT ARTERIAL** or **REMOVE ARTERIAL**.  
The IBP curve is shown or hidden.

The user can also show or hide the RR value and/or the  $\text{etCO}_2$  value on the Monitor iPad.



After the RR value has been hidden, it remains graphically visible in the  $\text{etCO}_2$ /RR curve. After hiding the  $\text{etCO}_2$  value, the  $\text{etCO}_2$ /RR curve is hidden. The RR value remains visible on the Monitor iPad.

To show or hide the RR value and/or the  $\text{etCO}_2$  value on the Monitor iPad, proceed as follows:

1. In the  $\text{etCO}_2$ /RR control panel, open the advanced controls by tapping .  $\text{etCO}_2$  and RR can be set separately from each other.

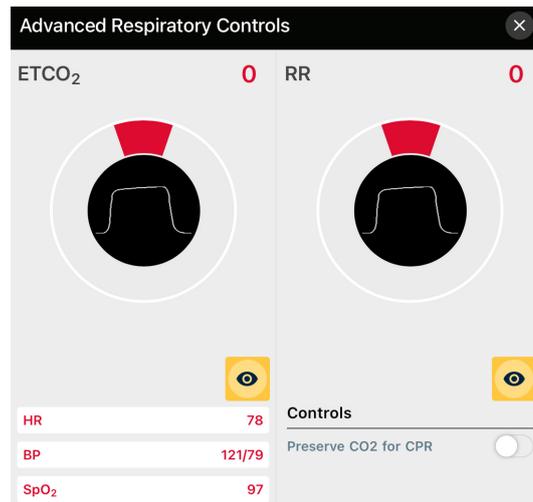


Fig. 6-32  $\text{etCO}_2$ /RR: Advanced controls

2. Show or hide parameters in the RR or  $\text{etCO}_2$  control panel by tapping (show) or (hide). The parameter values and/or the  $\text{etCO}_2$ /RR curve are shown or hidden.

The user can also display  $\text{CO}_2$  during CPR.

To have the  $\text{CO}_2$  value displayed during CPR, proceed as follows:

1. In the  $\text{etCO}_2$ /RR advanced controls under "Settings", move the slider to the right.

After the next shock, the  $\text{etCO}_2$ /RR curve remains displayed.

### 6.7.4 Select waveform

The user can select the waveform for the parameters HR, IBP, SpO<sub>2</sub> and etCO<sub>2</sub>.

To select a waveform, proceed as follows:

1. Tap on the waveform thumbnail in the respective control panel.  
The respective selection menu for the available waveforms opens.

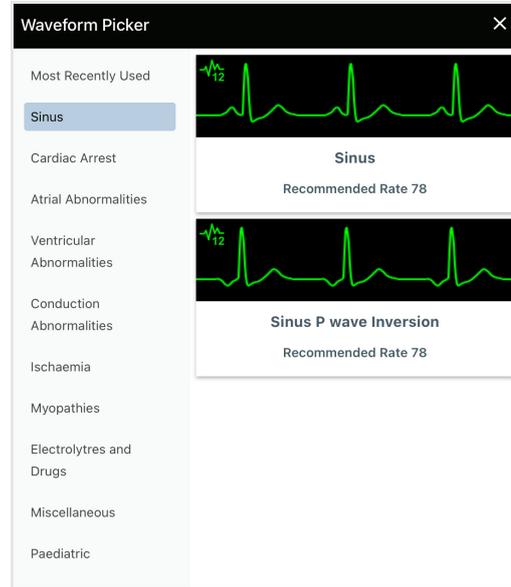


Fig. 6-33 Selection menu of the available HR waveforms (example)

2. Select the waveform by tapping on the thumbnail.
3. In section 3 "Scenario Control", tap .  
The Monitor iPad changes to the selected waveform.

The IBP waveform can only be selected using the advanced controls in the BP control panel.

To select an IBP waveform, proceed as follows:

1. Open the advanced controls in the BP control panel by tapping .
2. Tap .

The systolic and diastolic blood pressure waveform thumbnails are displayed.

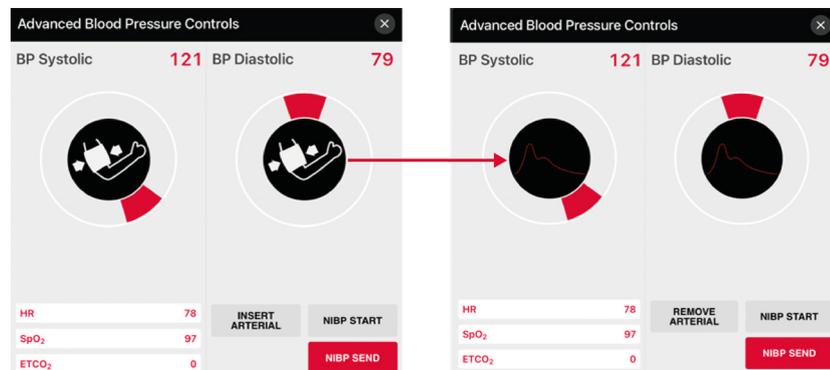


Fig. 6-34 BP: Advanced controls - thumbnail view of the IBP waveforms

- Tap the waveform thumbnail  
The selection menu of the available IBP waveforms opens.

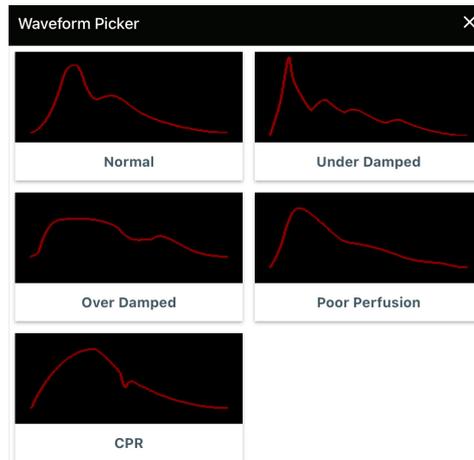


Fig. 6-35 Selection menu of the available IBP waveforms

- Select the waveform by tapping on the thumbnail.
- In section 3 "Scenario Control", tap .  
The Monitor iPad changes to the selected IBP waveform.

### 6.7.5 Add ectopics and interference

The user has the option to add ectopics and/or interference to a scenario.

To add ectopics and/or interference to a scenario, proceed as follows:

- In the HR control panel, open the advanced controls by tapping .

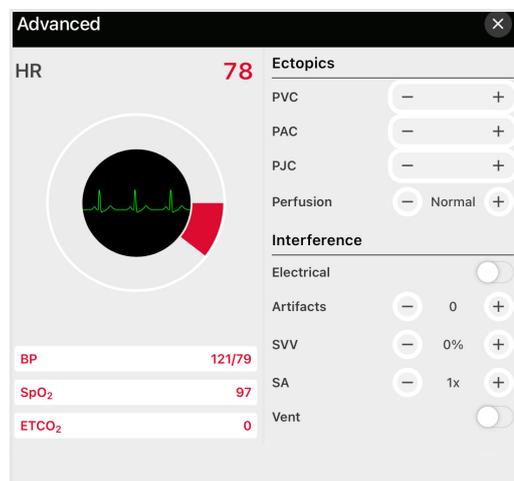


Fig. 6-36 HR: Advanced controls

- Set by tapping ,  or by sliding .
- Tap .  
Ectopics and/or interference are added to the scenario.

### 6.7.6 Select, send and print ECG

The user can select ECGs, display them on the Monitor iPad and print them.

To select an ECG, proceed as follows:

1. In the HR control panel tap . The advanced controls for the ECG leads opens.

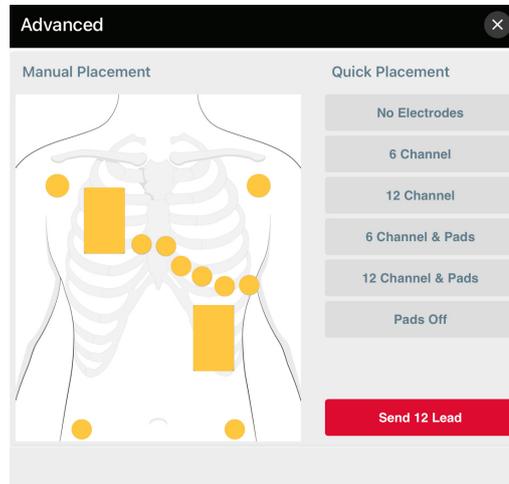


Fig. 6-37 ECG: Advanced controls

2. The user has the following options:
  - a) Manual selection: To select individual electrodes, select or deselect corresponding parts of the body by tapping them.



The electrode is active when it is coloured yellow.

- b) Quick selection: To select a fixed combination of electrodes, tap on one of the 6 options under "Quick Selection".

The ECG is selected.

To display the 12-lead ECG on the Monitor iPad again, proceed as follows:

1. Tap . The Monitor iPad displays the simulated printout of the ECG curve.

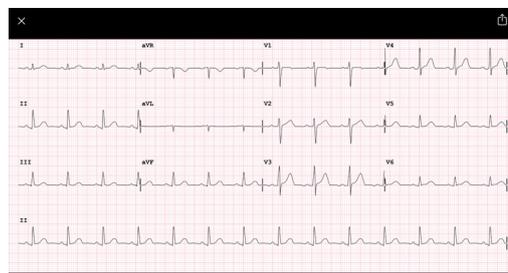


Fig. 6-38 Print ECG

2. The user has the following options on the Monitor iPad:
  - a) To electronically forward, copy, save or print the simulated ECG printout on a real printer in the network, tap .
  - b) To close this view, tap .

### 6.7.7 Add additional parameters

The user can add additional parameters to the scenario in the "Additional Parameters" control panel. The additional parameter "Temperature (Temp)" is added to scenarios by default.

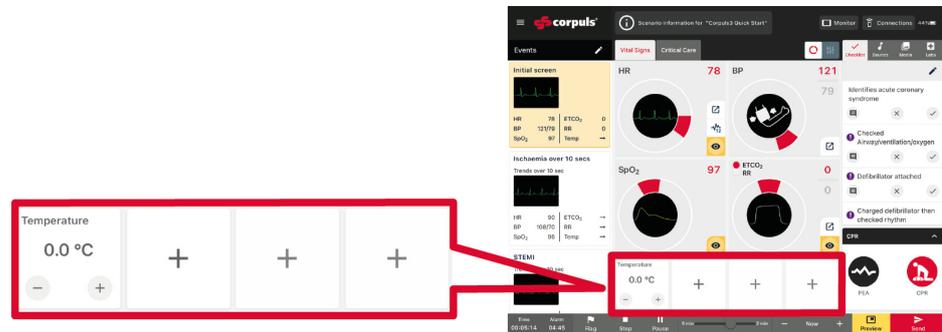


Fig. 6-39 "Additional Parameters" control panel

To add additional parameters, proceed as follows:

1. Tap **+** in an empty field.  
The selection menu for the available additional parameters opens.

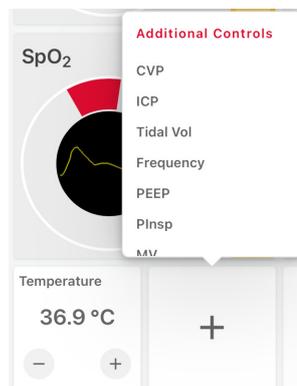


Fig. 6-40 Selection menu of the available additional parameters

2. Add parameters to the scenario from the selection menu by tapping on them.  
The additional parameters are added to the scenario.
3. To show the parameter on the Monitor iPad, tap on the displayed parameter value (here: 36.9 C).



When an additional parameter is displayed, the parameter value is coloured red. Not all additional parameters can be displayed on the Monitor iPad.

## 6.8 Section 5: CPR

This chapter provides information on section 5, "CPR".

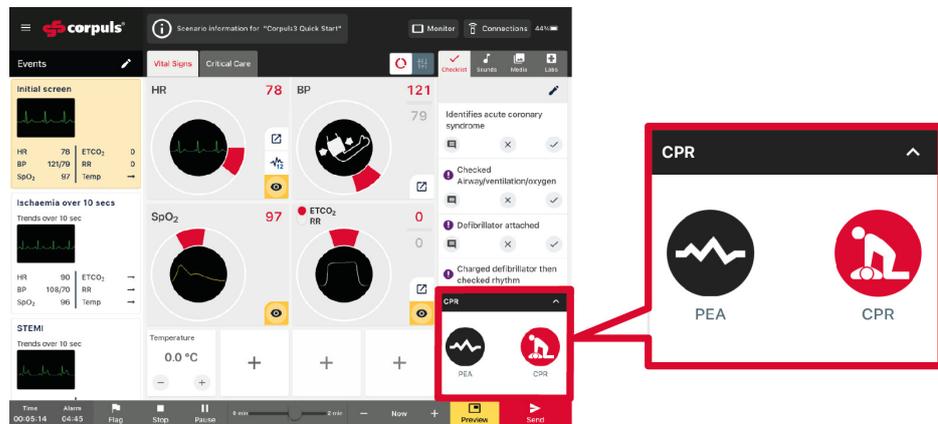


Fig. 6-41 Section 5 "CPR"

The user has the following options in section 5:

- Show ECG artifacts during chest compression
- Deactivate pulse signal
- Change pacer capture threshold

### 6.8.1 Add ECG artifacts

The user can display ECG artifacts during chest compression on the Monitor iPad.

In real emergencies, the rescue workers receive irregular ECG curves during chest compression. corpuls simulation can simulate these using ECG artifacts.

To display ECG artifacts during chest compression, proceed as follows:

1. In section 5 "CPR" tap .

Section 5 "CPR" opens.

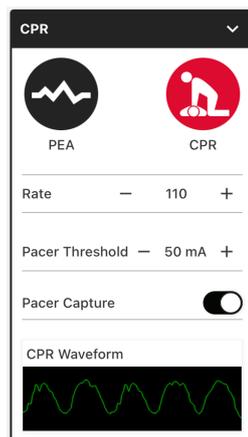


Fig. 6-42 Section 5 "CPR" open view

2. To adjust the frequency of the CPR waveform, tap **+** (increase) or **-** (decrease).
3. The CPR waveform can be changed under "CPR Waveform". To do so, tap the waveform thumbnail and select the waveform from the selection menu.

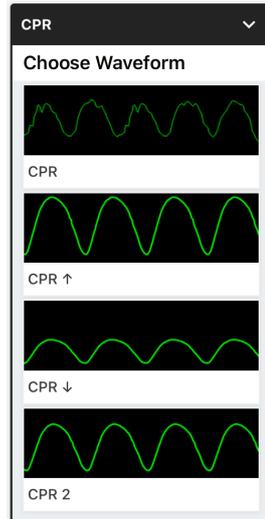


Fig. 6-43 Selection menu of the available CPR waveforms

- To begin and end chest compression tap . The Monitor iPad displays the ECG artifacts during chest compression.

### 6.8.2 Deactivate pulse signal

The user can deactivate the pulse signal.

To deactivate the pulse signal, proceed as follows:

- Open section 5 "CPR" by tapping .
- Tap .

The pulse signal is deactivated.

### 6.8.3 Change pacer capture threshold

The user can change the pacer capture threshold.



The user can set the pacer capture threshold in the general scenario settings (see 6.4.3 Edit general settings on page 35).

To change the pacer capture threshold, proceed as follows:

- Open section 5 "CPR" by tapping .
- Change the pacer capture threshold by tapping (increase) or (decrease).
- To activate a pacer capture, move the slider to the right. The pacer capture threshold is changed.

## 6.9 Section 6 "Library"

This chapter contains information on section 6 "Library".

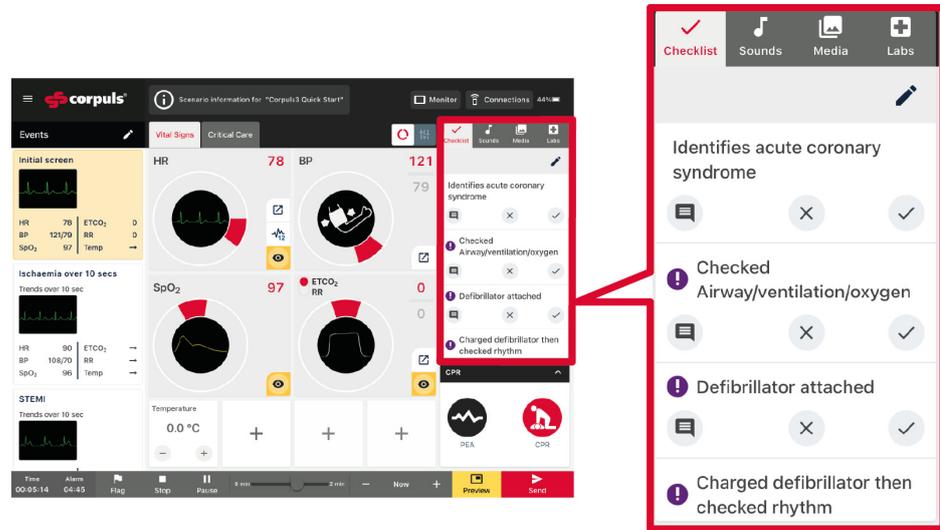


Fig. 6-44 Section 6 "Library"

The user has the following options in section 6:

- Create/import and manage checklists, sounds, images, videos and labs
- Add checklist items, sounds, images, videos, and labs to events

### 6.9.1 Checklists

This chapter contains information on how to

- Create and edit checklists for scenarios.
- Add checklist items to events.
- Use checklists during scenarios to evaluate training.

The user can use checklists to validate the actions or performance by the students. A checklist consists of at least one checklist item as an evaluation criteria:

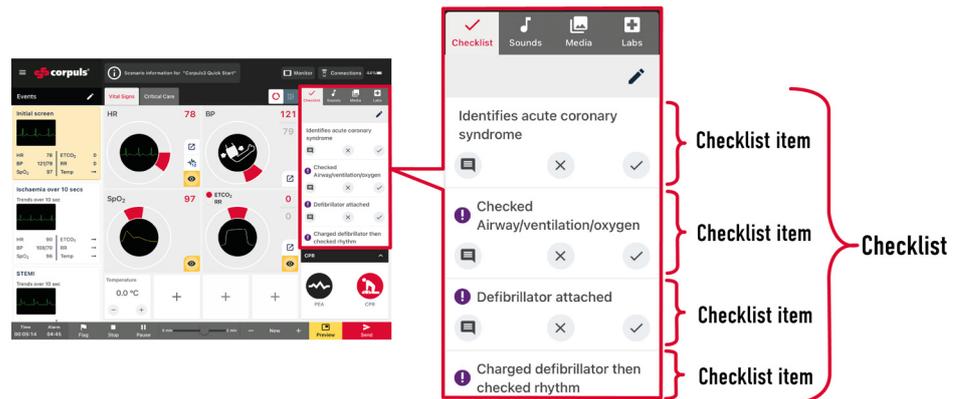


Fig. 6-45 Checklists: structure

There are two types of checklist items:

- Check = Yes/No validation (performed or not performed)
- Graded = Points evaluation (adjustable in steps)

Create and edit checklists The user can create and edit checklists.

To create or edit a checklist, proceed as follows:

1. In section 6 "Library" tap . Library section "Checklist" opens.

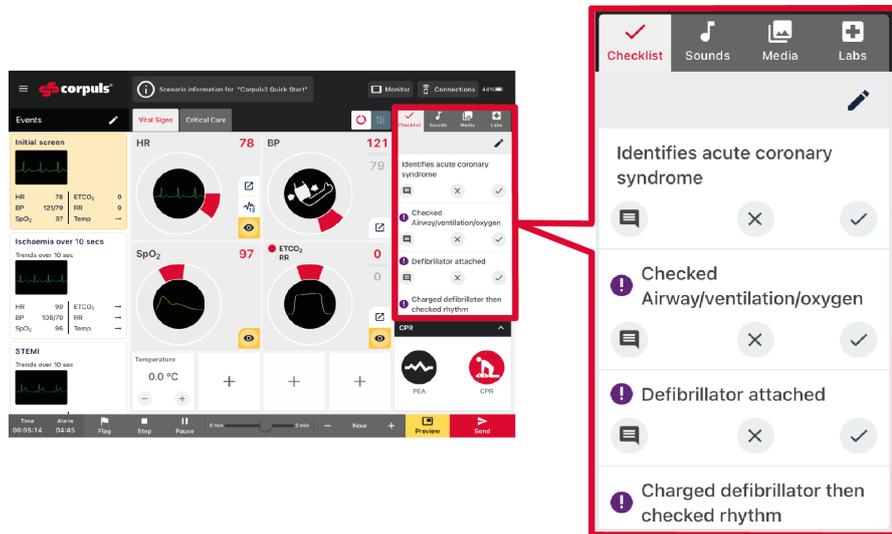


Fig. 6-46 Library section "Checklist"

2. Tap . The list of checklist items opens.

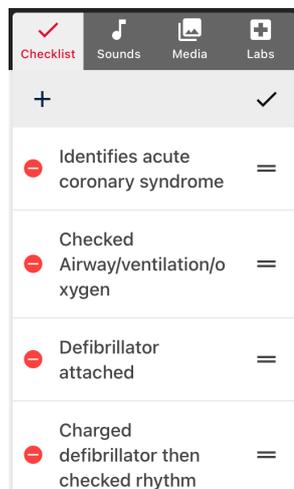


Fig. 6-47 List of checklist items

3. The user has the following options:
  - a) To create a new checklist item, tap .

- b) To edit an existing checklist item, tap on an item in the list.  
The "New Checklist Item" or "Edit Checklist Item" edit menu opens.

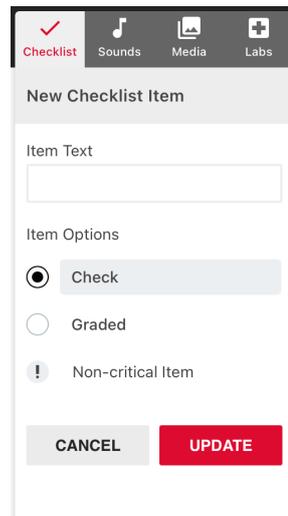


Fig. 6-48 "New Checklist Item" edit menu



The setting options in the edit menus "New Checklist Item" and "Edit Checklist Item" are identical.

4. Assign the name of the checklist item.
5. Define the type of checklist item ("Check" or "Graded")
6. Set the following additional settings:
  - a) For "Check" checklist items: Tap on  to determine whether the checklist item is "critical" and thus a stronger focus of the scenario evaluation.
  - b) For "Graded" checklist items: Set the evaluation scale in the range from -20 to +20 by tapping  or .

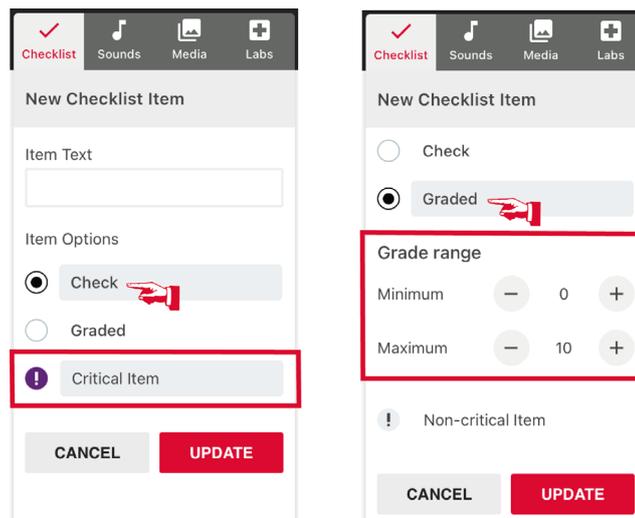


Fig. 6-49 "Check" and "Graded" checklist items

7. Tap **UPDATE**.  
The new or edited checklist item is now part of the list of checklist items.
8. To move a checklist item within the list, tap and hold  and slide the item to the desired position.

9. To delete a checklist item from the list, tap  next to the entry and confirm the deletion by tapping .
  10. To exit the list of checklist items and return to the main menu, tap .
- The checklist has been created or edited.

Add checklist items to events

The user can add checklist items to events (see 6.5.2 Create or edit an event on page 40). This ensures that checklists can be used easily during active scenarios: If an event is active during training, the associated checklist items are highlighted in section 6 "Library".

To add a checklist item to an event, proceed as follows:

1. In section 2 "Events", open the edit menu "Create Event" or "Edit Event" (see 6.5.2 Create or edit an event on page 40).
2. Next to "Checklist", tap .  
The library section "Checklist" opens.
3. Add a checklist item from the library to the event by tapping on it.
4. Tap **UPDATE**.  
The checklist entry is added to the event.

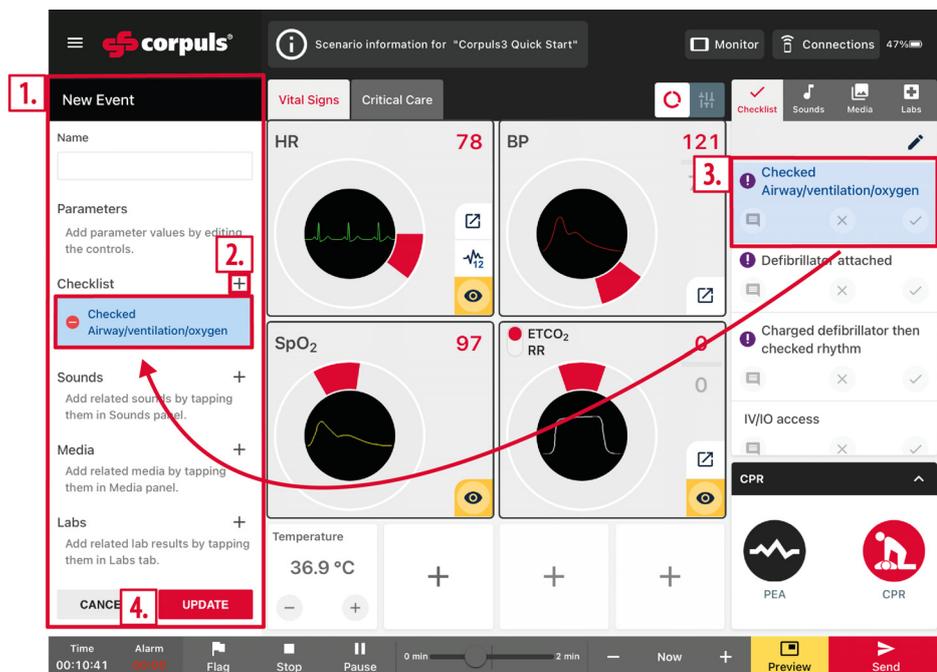


Fig. 6-50 Adding checklist items to events

Using checklists

The user can use checklists during a scenario in order to check the fulfillment of the requirements by the students.

To evaluate the training, proceed as follows:

Requirements:

- ✓ A checklist has been created for the scenario.
- ✓ The items in the checklist are added to specific events.
- ✓ The scenario has started.

- In section 6 "Library" tap . The library section "Checklist" opens. The checklist items added to the active event are highlighted in blue in the library.

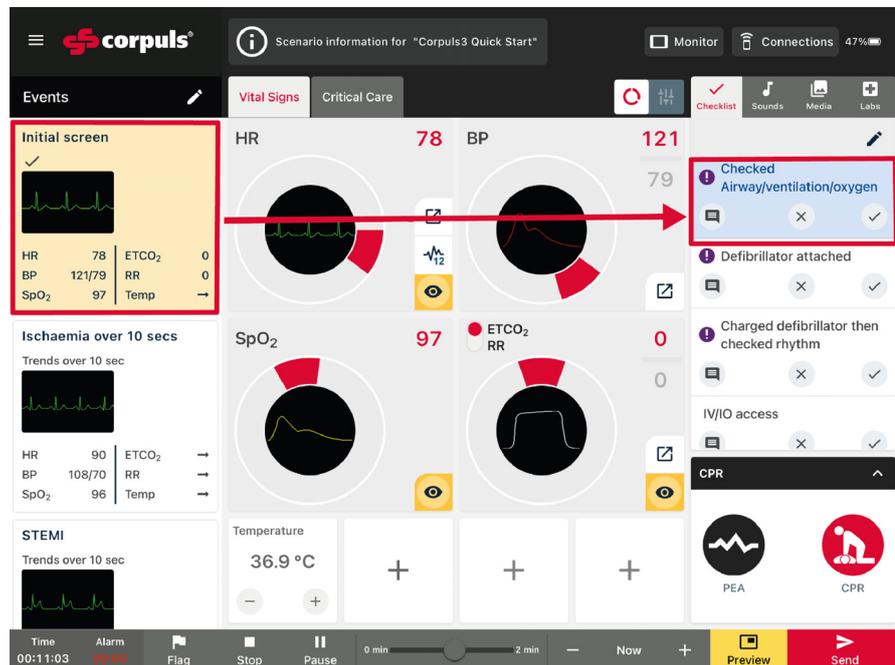


Fig. 6-51 Using checklists in a scenario

- The user has the following options:
  - If a checklist item of the type "Check" has been met, tap .
  - If a checklist item of the type "Check" has not been met, tap .
  - If a checklist item of the type "Graded" has been met, assign points by tapping .
  - If a checklist item of the type "Graded" has not been met, assign points by tapping .
  - To comment on a checklist item, tap , add comment in the input field and tap **UPDATE**. The training has been evaluated.



The training evaluation is integrated into the scenario evaluation (see 8 Scenario evaluation on page 77).

## 6.9.2 Sounds

This chapter contains information on how to

- Adjust the volume of sounds.
- Play sounds from the sound library.
- Create individual sounds.
- Add sounds to events.

## Adjust volume

The user can adjust the volume of the Monitor iPad.

To adjust the volume of the Monitor iPad, proceed as follows:

- In section 6 "Library" tap .  
The library section "Sounds" opens.

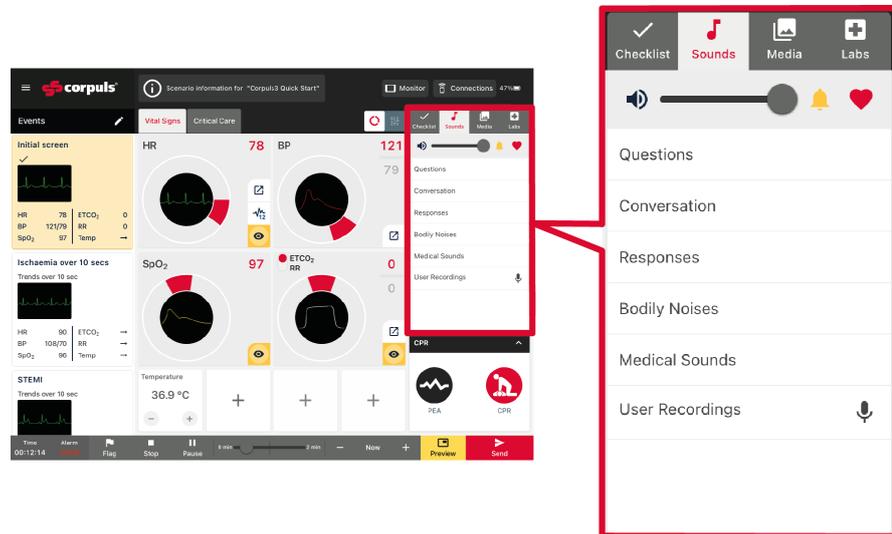


Fig. 6-52 Library section "Sounds"

- The user can create the following settings:
  - To change the volume of the Monitor iPad, slide the  cursor to the left (quieter) or right (louder).
  - To mute or unmute the Monitor iPad, tap  or .
  - To mute or unmute all alarms, tap  or .
  - To mute or unmute the QRS/heartbeat, tap  or .

The volume is set.



The volume level of the Monitor iPad depends not just on the Instructor iPad settings, but also on the settings directly on the Monitor iPad. If no sound can be heard, check the sound settings on the Monitor iPad.

## Play sounds

The user can play sounds from the sound library.



The Instructor iPad plays the sounds from the sound library, not the Monitor iPad.

To play a sound, proceed as follows:

- In section 6 "Library" tap .  
The library section "Sounds" opens.
- Tap to select one of the following sound categories:
  - Questions
  - Conversations
  - Responses
  - Bodily Noises
  - Medial Sounds
  - User Recordings

3. The user has the following options:
  - a) To play a sound once, tap .
  - b) To repeat a sound in a loop, tap .
  - c) To stop playback, tap .

The sound plays.

## Create sounds

The user can create recordings for the sound library.

To create a user recording, proceed as follows:

1. In section 6 "Library" tap .  
Library section "Sounds" opens.
2. Next to User Recordings, tap .  
The "New Recording" dialogue box opens.

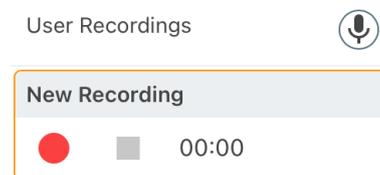


Fig. 6-53 "New Recordings" dialogue box

3. Start recording by tapping .
  4. If required, pause the recording by tapping .
  5. Stop recording by tapping .
- The "Save Recording" dialogue box opens.

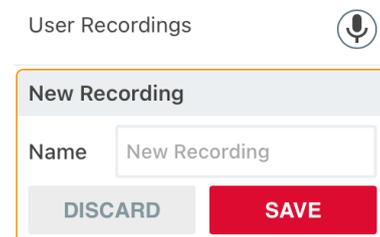


Fig. 6-54 "Save Recording" dialogue box

6. Enter the name in the input field and tap **UPDATE**.  
The sound is created.



The recording is saved in the sound library under User Recordings.

**Add sounds to events**

The user can add sounds to events. The sound is played at the beginning of an active event.

To add a sound to an event, proceed as follows:

1. In section 2 "Events", open the edit menu "Create Event" or "Edit Event" (see 6.5.2 Create or edit an event on page 40).
2. Next to "Sounds", tap **+**.  
The library section "Sounds" opens.
3. Open a sound category in the library on the right by tapping it.
4. Add sound to the event by tapping in the middle.
5. To repeat the sound throughout the event, tap .

6. Tap **UPDATE**.

The sound is added to the event.

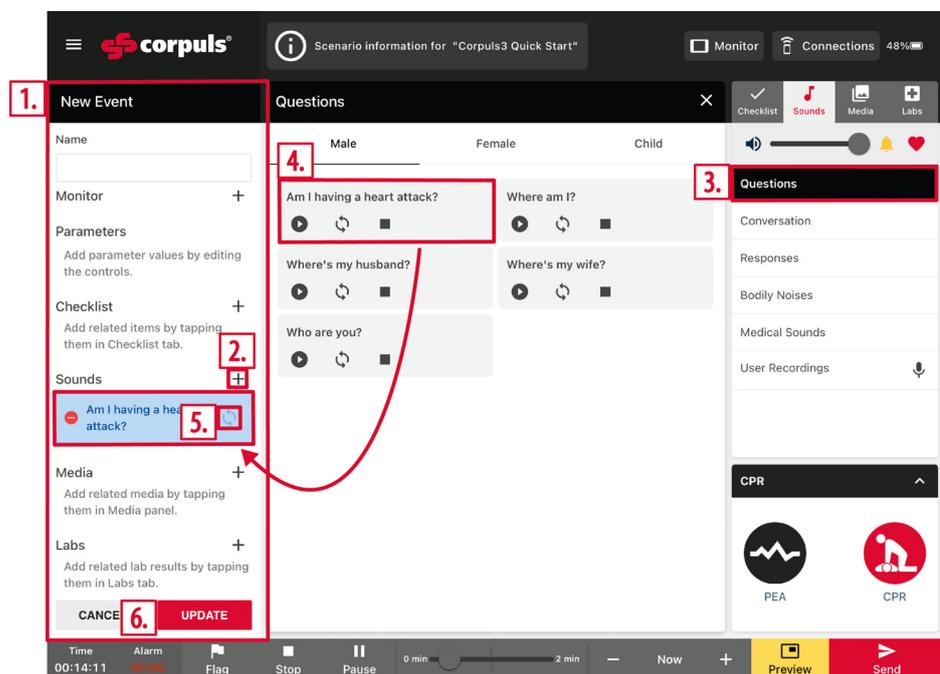


Fig. 6-55 Add sounds to events

### 6.9.3 Media

This chapter contains information on how to

- Show images and videos on the Monitor iPad.
- Import images and videos from the iPad's photo library.
- Edit imported images and videos.
- Add images and videos to events.



The term "media" in this user manual only refers to images and videos.

Display images or videos The user can display images or videos on the Monitor iPad.

To display images and videos on the Monitor iPad, proceed as follows:

1. In section 6 "Library" tap .  
The library section "Media" opens.

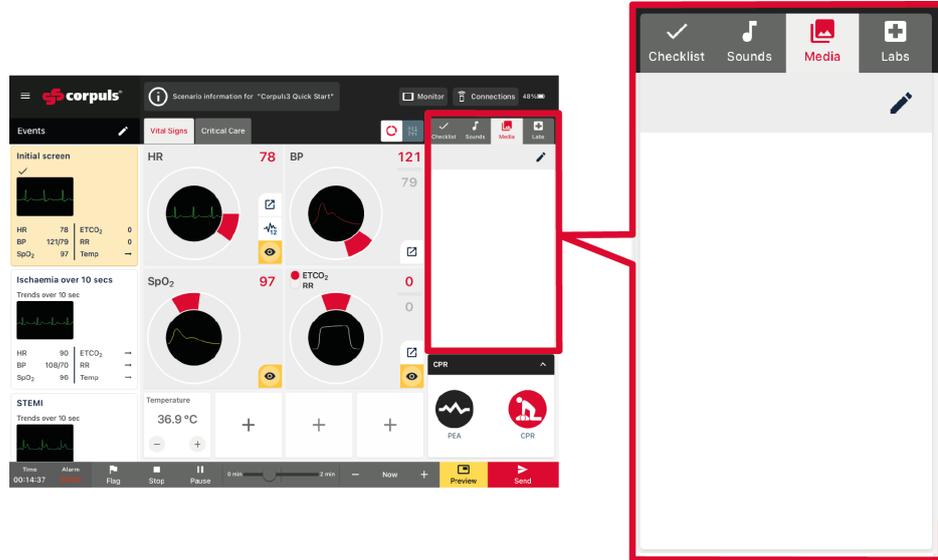


Fig. 6-56 Library section "Media"

2. Tap .  
The Media library opens.
3. Tap to select standard media (radiology file) or imported media from the media library.  
The media list on the right contains selected images and videos.

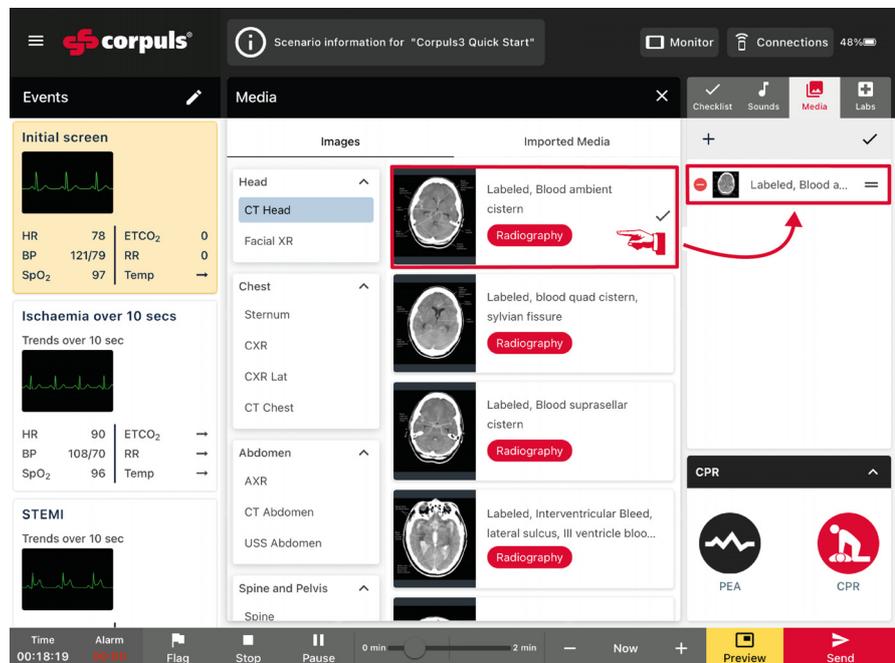


Fig. 6-57 Media library and media list

4. To move an image or video in the media list, tap and hold  and move it to the desired position.
5. To delete an image or video from the media list, tap  and confirm the deletion by tapping .

6. Once the media list is compiled, tap .
- The "Media" library section switches to the thumbnail view of the selected media.

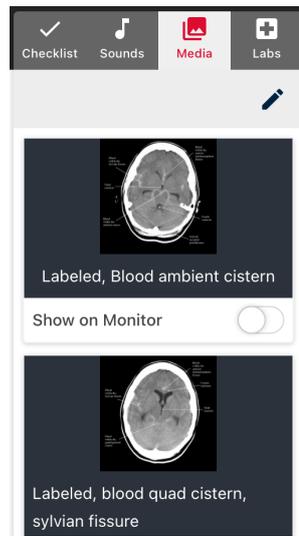


Fig. 6-58 Thumbnail view of the selected media

7. Move the **Show on Monitor**  slider to the right and tap on the thumbnail.  
The image or video is displayed on the Monitor iPad.
8. To hide the image or video on the Monitor iPad, tap  on the top left of the Monitor iPad.

**Import images or videos** The user can import images or videos from the iPad's photo library.

To import an image or video, proceed as follows:

1. In section 6 "Library" tap .  
The library section "Media" opens.
2. Tap .
3. Tap  and, if necessary, confirm the security query by tapping **OK**.



If access to media in the iPad's photo library is denied, check the iPad's settings under  and change accordingly.

4. Import the media by tapping.  
The image or video is imported.

**Edit imported images or videos**

The user can edit imported images or videos.

To edit an imported image or video, proceed as follows:

1. In section 6 "Library" tap .  
The library section "Media" opens.
2. Tap .
3. Tap "Import Media".

4. Tap .

The list of imported media opens.

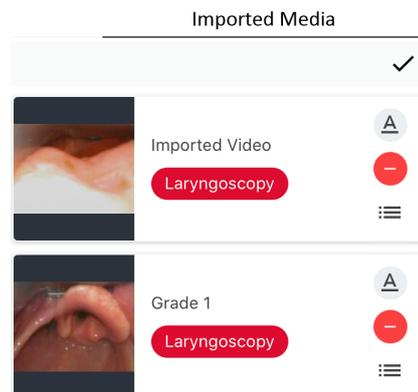


Fig. 6-59 List of imported media

## 5. The user has the following options:

- To change the name of a file, tap , enter the name in the input field and tap **UPDATE**.
- To delete a file from the media library, tap  and confirm the deletion by tapping .
- To classify a file, tap  and select the classification from the selection menu of available classifications for media:

**Classification**

General

Ultrasound

Laryngoscopy

Bronchoscopy

Radiography

Fig. 6-60 Selection menu of the available classifications for media

The imported image or video is edited.

Add images and videos to events

The user can add images and videos to events. The image or video is displayed at the beginning of an active event.

To add an image or video to an event, proceed as follows:

1. In section 2 "Events", open the edit menu "Create Event" or "Edit Event" (see 6.5.2 Create or edit an event on page 40).
2. Next to "Media", tap **+**.  
The Media library opens.
3. Add images or videos to the event by tapping.
4. To display the added file on the Monitor iPad during training, tap .



To deactivate the function, tap  again.

5. Tap **UPDATE**.  
The image or video is added to the event.

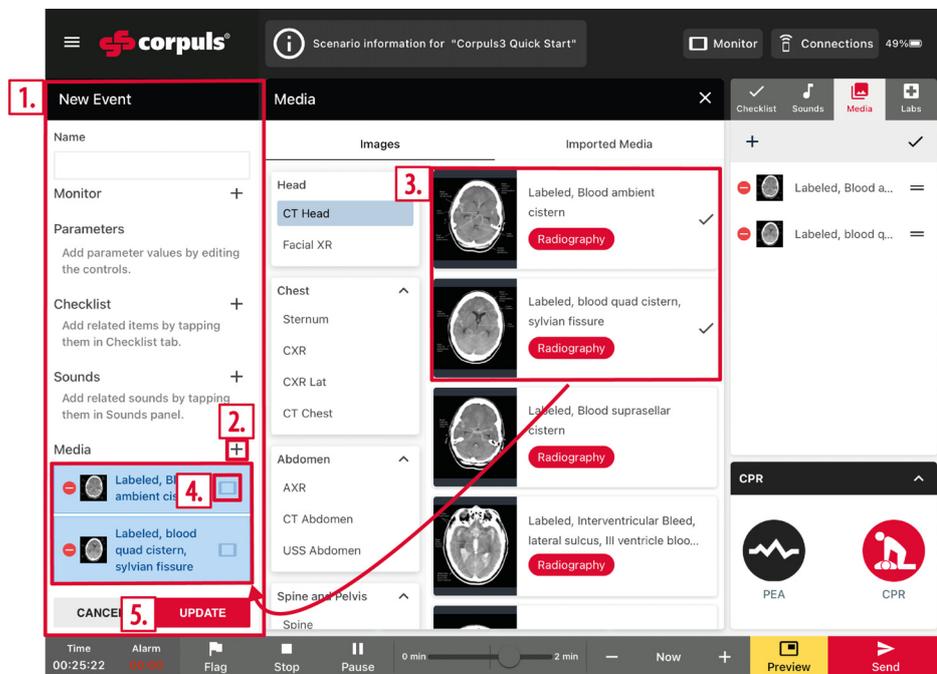


Fig. 6-61 Add images or videos to events

### 6.9.4 Labs

This chapter contains information on how to

- Create and edit labs.
- Display lab results on the Monitor iPad.
- Add lab entries to events.

A lab consists of at least one lab entry. A lab entry consists of lab results.

Create labs

The user can create labs.

To create a lab, proceed as follows:

1. In section 6 "Library" tap .  
The library section "Labs" opens.

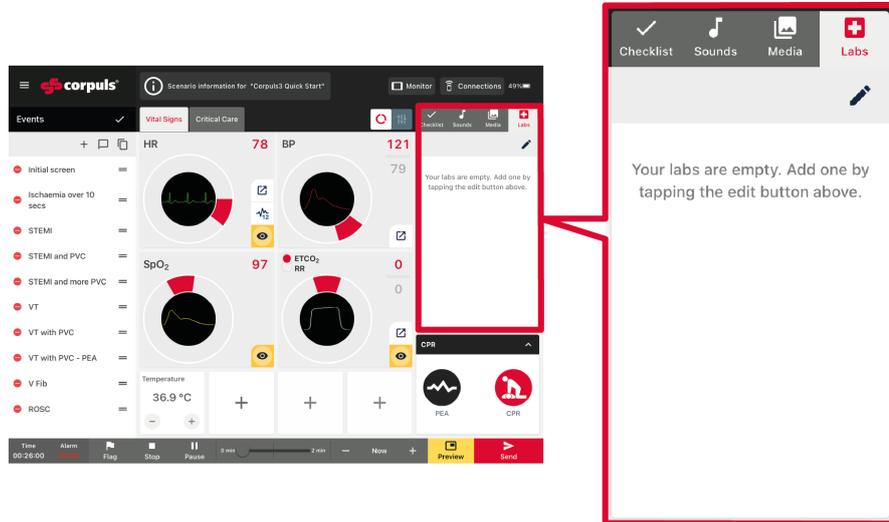


Fig. 6-62 Library section "Labs"

2. Tap .  
The Labs library opens.
3. Select the lab entry under "Templates" by tapping on it and tap **UPDATE**.  
The labs list fills up with lab entries.

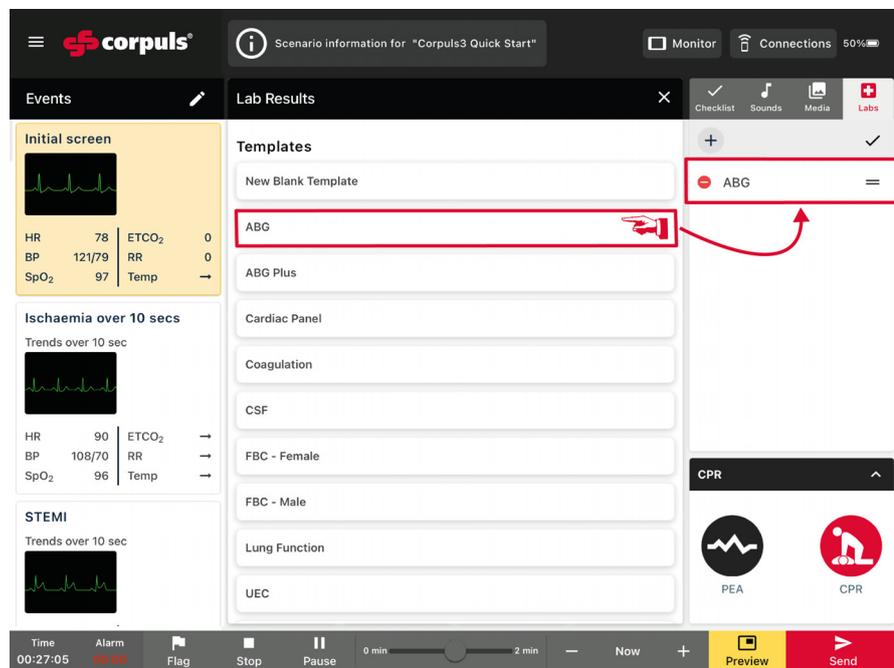


Fig. 6-63 Create labs

4. To move a lab entry within the lab list, tap and hold  and move it to the desired position.
5. To delete a lab entry from the lab list, tap  and confirm the deletion by tapping .

- To complete the lab list, tap . The lab is set up.

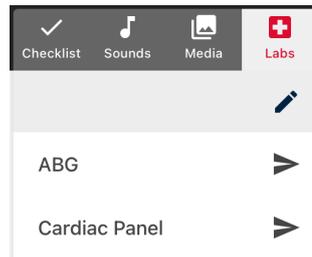


Fig. 6-64 Lab with the lab entries "Blood Gas" and "Cardiac Panel"

Create lab entries

The user can create lab entries for a lab.

To create a lab entry, proceed as follows:

- In section 6 "Library" tap . The library section "Labs" opens.
- Tap . The Labs library opens.
- Tap **New Blank Template**. The "Lab Entry" edit menu opens.

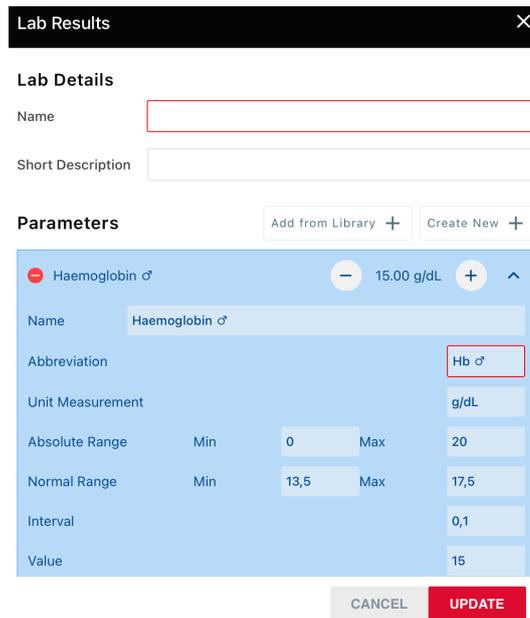


Fig. 6-65 "Lab Entry" edit menu

- Enter the name and a short description in the input fields under Lab Details.
- The user has two options.
  - To import lab results from the library, tap **Add from Library** .
  - To create new lab results for the lab entry, tap **Create New** .
- To create parameters for the lab entry, tap or .
- Tap **UPDATE**. The lab entry has been created and added to the lab.

## Show lab results

The user can show the lab results for a lab entry on the Monitor iPad.

To show lab results on the Monitor iPad, proceed as follows:

Requirements:

✓ A lab has been created.

1. In section 6 "Library" tap .
2. Next to "Lab Entry", tap .

The lab results are displayed on the Monitor iPad.

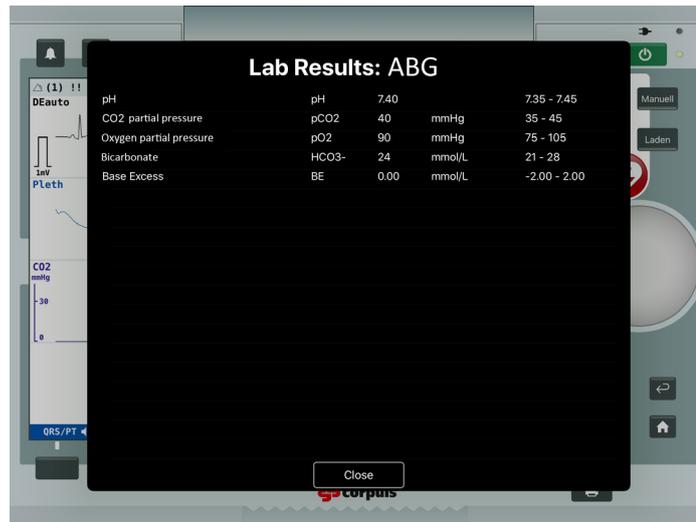
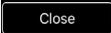


Fig. 6-66 Lab results for the lab entry "Blood Gas"

3. To hide the lab results on the Monitor iPad again, tap  on the Monitor iPad.

**Add lab entries to events** The user can add lab entries to events. The lab results are displayed on the Monitor iPad at the beginning of an active event.

To add a lab entry to an event, proceed as follows:

Requirements:

✓ A lab has been created.

1. In section 2 "Events", open the edit field "Create Event" or "Edit Event" (see 6.5.2 Create or edit an event on page 40).
2. Next to "Labs", tap **+**.  
The library section "Labs" opens.
3. Add lab entry to the event by tapping on it.
4. Tap **UPDATE**.  
The lab entry is added to the event.

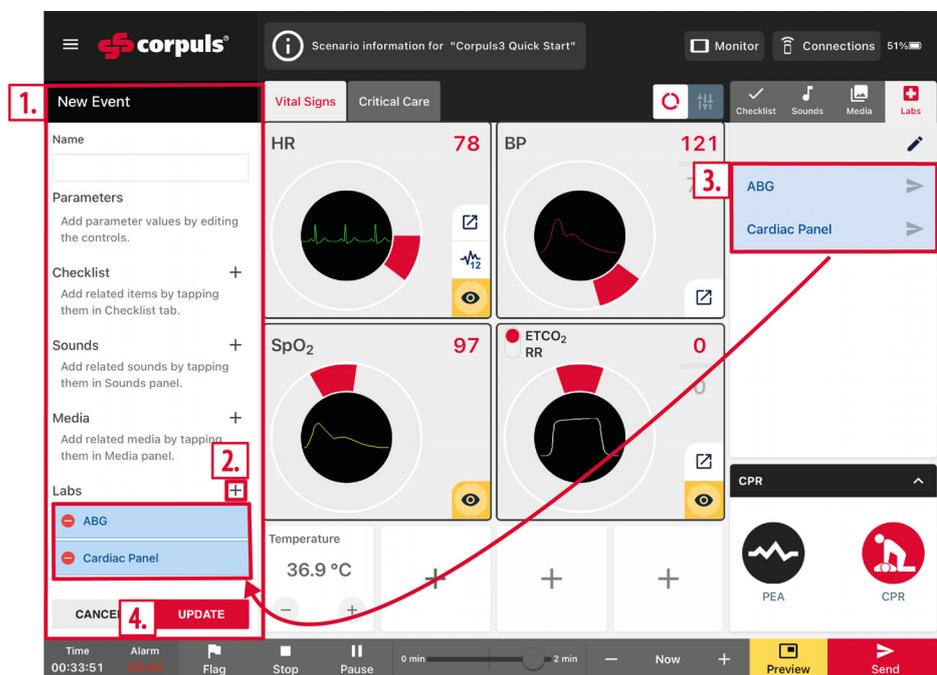


Fig. 6-67 Add lab entries to events

## 6.10 Section 7: Control Panel

This chapter contains information on section 7 "Control Panel".

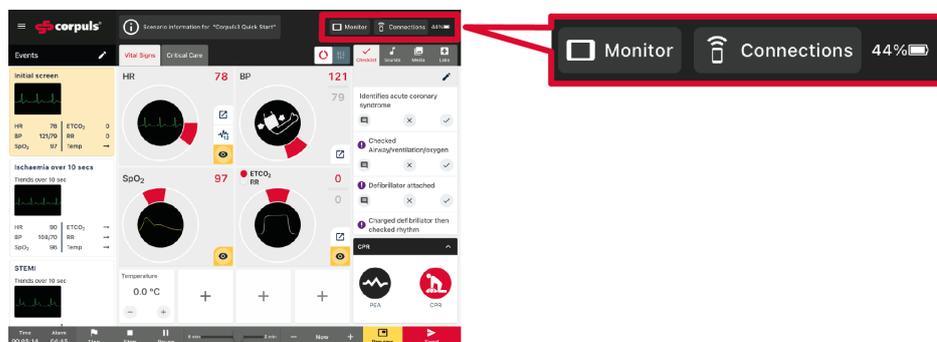


Fig. 6-68 Section 7 "Control Panel"

The user has the following options in section 7:

- Check or change monitor status and connection status

### 6.10.1 Change monitor status

To change the status of the Monitor iPad, proceed as follows:

1. In section 7 "Control Panel", tap  Monitor.

The "Monitor Status" menu opens.

#### Monitor Status

Power On 

#### Monitor Selection

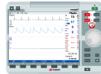


Fig. 6-69 "Monitor Status" menu

2. The user has the following options:
  - a) Change the device interface of the Monitor iPad by tapping .



This function replaces switching on the device interface using  on the Monitor iPad (see 6.2.2 Assign modes on page 29).

- b) To change the device interface of the Monitor iPad, under "Monitor Selection" tap on the thumbnail and select a device interface from the selection menu of the available device interfaces. The monitor status is changed.

### 6.10.2 Check or change connection status

To check or change the connection status, proceed as follows:

1. In section 7 "Control Panel", tap  Connections.

The "Connection Status" menu opens.

#### Connection Status

CSIM Monitor P... 26%

Facilitators 1

 Disconnect

Fig. 6-70 "Connection Status" menu

2. The user has the following options:
  - a) Check the charge level of the Monitor iPad.
  - b) See the number of users who are connected to the Monitor iPad next to "Trainer Connection".
  - c) To disconnect the Monitor iPad, tap  Disconnect .

The connection status is checked or changed.

## 7 Screen synchronisation

This chapter contains information on how to synchronise the screen of the Monitor iPad or Instructor iPad to other end devices. Using this function, the screen can be viewed by other students.

AirPlay® 2 enables various screen synchronisation options.

### 7.1 Screen synchronisation using Apple TV

To synchronise the screen of an iPad using Apple TV, proceed as follows:

Requirements:

- ✓ Apple TV and HDMI cables are available.
- ✓ End device with HDMI connection is available (TV set, monitor or projector).
- ✓ Depending on the configuration, Apple TV and iPad are in the same WiFi network.

1. Connect Apple TV to the end device using an HDMI cable.
2. Connect Apple TV to the power supply using the power cord.
3. On the iPad, swipe down from the top right corner of the screen.

The iPad Control Centre opens.

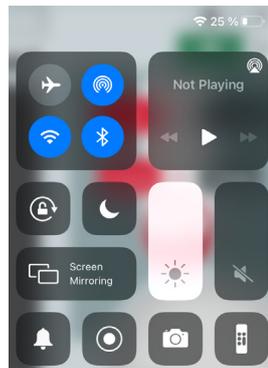


Fig. 7-1 iPad: Control Center

4. Tap  or .
5. Select Apple TV from the selection menu of the available Apple TVs (here: CSIM Apple TV).



Fig. 7-2 Selection menu of the available Apple TVs

6. Enter the on-screen code for Apple TV if required and tap **OK**.

The iPad screen is synchronised.

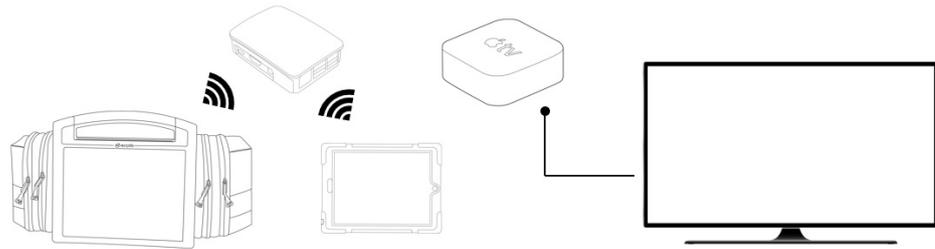


Fig. 7-3 Screen synchronisation using Apple TV



During screen synchronisation, the video signal can be imported to a PC for further processing using an Apple TV with additional hardware.

## 7.2 Screen synchronisation using a third-party app

Third-party apps are available for PCs and notebooks that can display the Airplay 2 protocol in window mode. It is up to the user to choose a suitable third-party app.

To synchronise the screen of an iPad using a third-party app, proceed as follows:

Requirements:

- ✓ Third-party app is installed on the PC or notebook.
- ✓ End device with HDMI connection is available (TV set, monitor or projector).
- ✓ PC or notebook with installed third-party app and iPad are in the same WiFi network.

1. Connect the PC or notebook with the installed third-party app to the end device using an HDMI cable.
  2. On the iPad, swipe down from the top right corner of the screen.  
The iPad Control Centre opens.
  3. Tap  or  **Screen Mirroring**.
  4. Select PC or notebook with installed third-party app in the selection menu of the available third-party apps.
  5. Enter the on-screen code if required and tap **OK**.
- The iPad screen is synchronised.

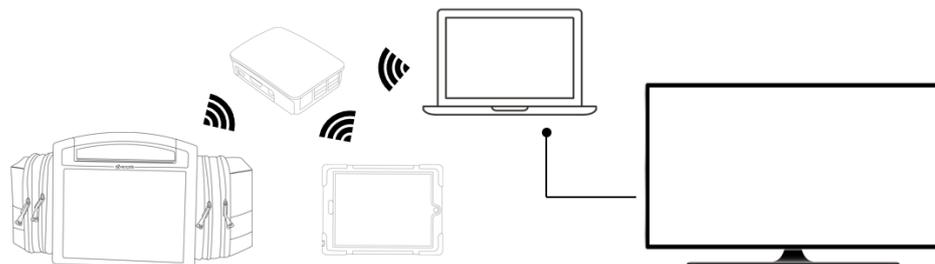


Fig. 7-4 Screen synchronisation using a third-party app

### 7.3 Screen synchronisation on AirPlay-enabled device

Televisions are available that can directly connect via AirPlay and can display the Airplay 2 protocol in window mode. It is up to the user to choose a suitable television.

To synchronise the screen of an iPad on an AirPlay-enabled device, proceed as follows:

Requirements:

- ✓ AirPlay-enabled device is available.
  - ✓ Depending on the configuration, AirPlay-enabled device and iPad are in the same WiFi network.
1. Connect the AirPlay-enabled device to the power supply using the power cord.
  2. On the iPad, swipe down from the top right corner of the screen.  
The iPad Control Centre opens.
  3. Tap  or  **Screen Mirroring**.
  4. Select an AirPlay-compatible device in the selection menu of the available AirPlay-compatible devices.
  5. Enter the on-screen code if required and tap **OK**.  
The iPad screen is synchronised.

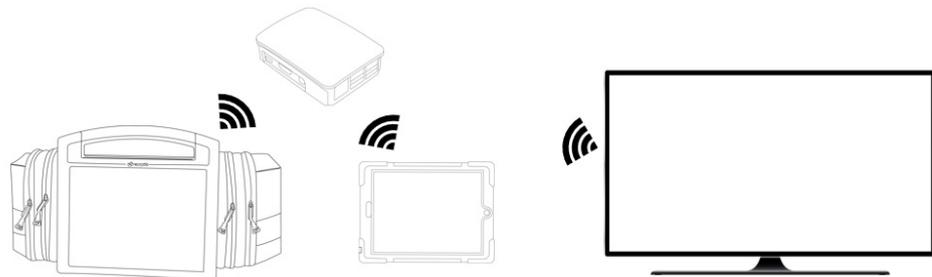


Fig. 7-5 Screen synchronisation on AirPlay-enabled device

## 8 Scenario evaluation

This chapter contains information on scenario evaluation.

When the user stops the training, the Instructor iPad automatically switches to the scenario evaluation (see 6.6.2 Stop the scenario on page 45).

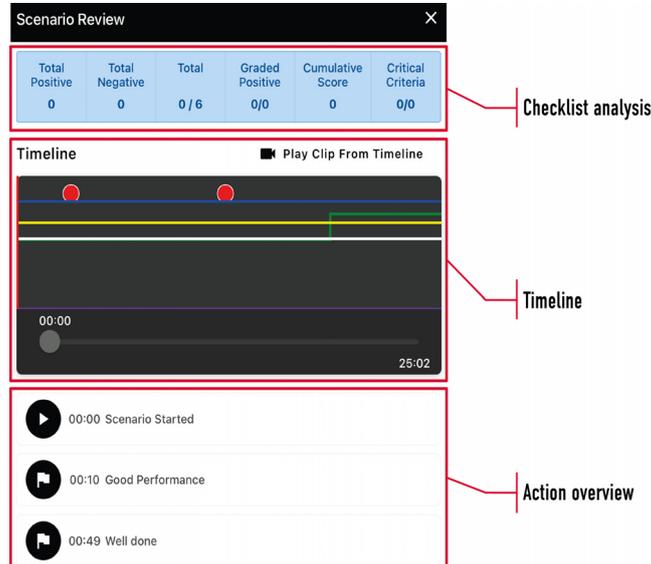


Fig. 8-1 Scenario evaluation: Overview

The upper section shows the checklist evaluation:

Criteria	Description
Positive Points	Number of fulfilled checklist entries of the "Check" type
Negative Points	Number of unfulfilled checklist entries of the "Check" type
Total	Total number of points from fulfilled and unfulfilled checklist entries of the "Check" type
Evaluation Points	Number of points achieved in checklist entries of the "Graded" type
Total Score	Total number "Positive Points" and "Evaluation Points"
Critical Points	Number of critical points fulfilled

Tab. 8-1 Evaluation of the checklist

The middle section shows the scenario in a timeline. The parameters are represented by the following colours:

Colour	Vital parameters
Green	Heart rate
Blue	Systolic blood pressure
White	Diastolic blood pressure
Yellow	SpO <sub>2</sub>
Purple	etCO <sub>2</sub>

The red dots show the markers that were set.

The lower section of the scenario evaluation shows all actions registered in the scenario in chronological order (e.g. checklists, markers, interruptions).

## 9 Community

This chapter contains information on the corpuls simulation Community.

The user can exchange ideas and scenarios in the corpuls simulation Community.

### 9.1 Login

To log into the corpuls simulation Community, proceed as follows:

1. Open the corpuls simulation app in the home screen by tapping .  
The corpuls simulation home screen opens (see 6.2.1 Open the home screen on page 28).
2. Tap  **Admin** at the top.  
Login window opens.

Forgotten Password?

Fig. 9-1 corpuls simulation Community: Login

3. Enter access data in the input fields and tap **Sign in**.  
User is logged in.  
The corpuls simulation Community home page opens.

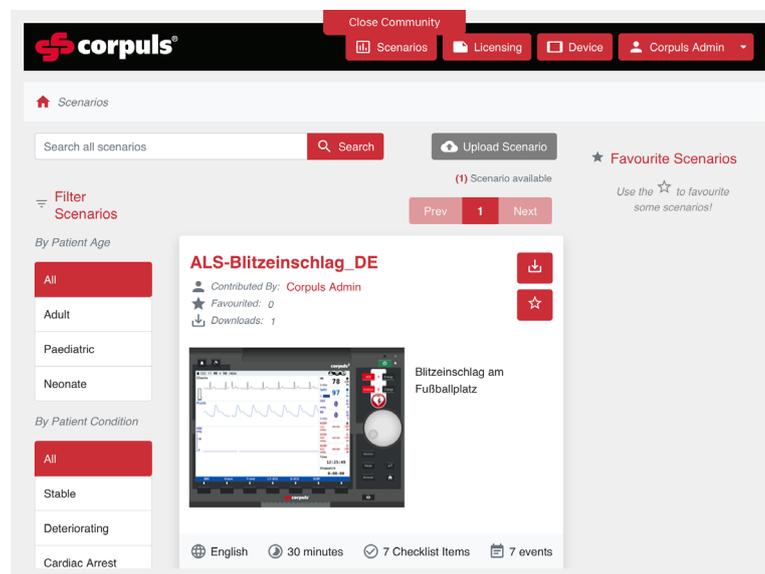


Fig. 9-2 corpuls simulation Community: Home page

## 9.2 License Monitor iPad

The user must license the Monitor iPad as part of the iPad configuration (see 5.7.3 License the Monitor iPad on page 26).

To license the Monitor iPad, proceed as follows:

1. Open the corpuls simulation Community home page (see 9.1 Login on page 78).
2. Tap .
3. Tap .

The "New License Claim" menu opens.

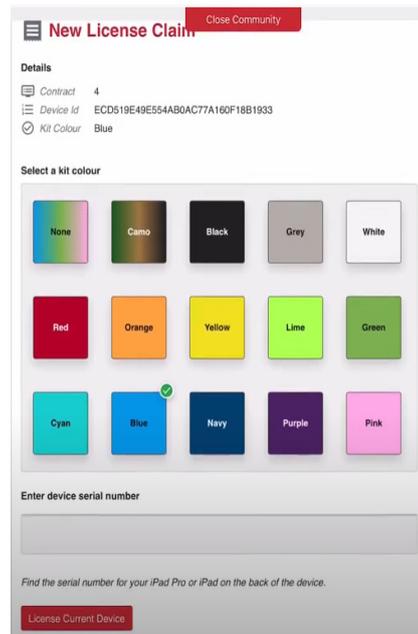


Fig. 9-3 corpuls simulation Community: "New License Claim" menu

4. Select the colour of the device by tapping on the colour.
5. Enter the serial number of the device.



The serial number is printed on the back of the device and can alternatively be found in the settings under .

6. Tap .
- The Monitor iPad is licensed.



Information about the license currently in use can be viewed at any time by tapping . If the device is deactivated, the license can be used for another device.

## 9.3 Change user data

The user can change the corpuls simulation Community user data.

To change the user data, proceed as follows:

1. Open the corpuls simulation Community home page (see 9.1 Login on page 78).
2. Tap  **Corpuls Admin**.
3. Under "My details" tap  **Update details**.  
The "Update Details" input field opens.

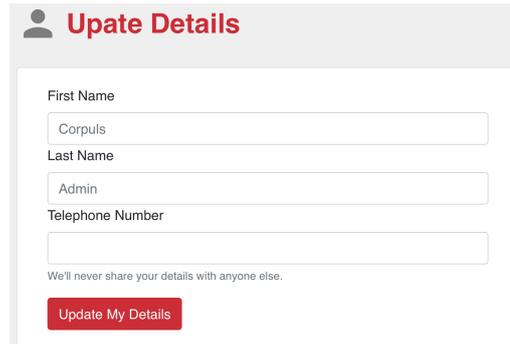


Fig. 9-4 "Update Details" input field

4. Enter data and tap **Update My Details**.  
The user data has been changed.

## 9.4 Reset password

The user can reset their corpuls simulation Community password.

To reset the password, proceed as follows:

1. Open the corpuls simulation Community home page (see 9.1 Login on page 78).
2. Tap  **Corpuls Admin**.
3. Under "My Details" tap  **Change password**.  
The "Change Password" dialogue box opens.

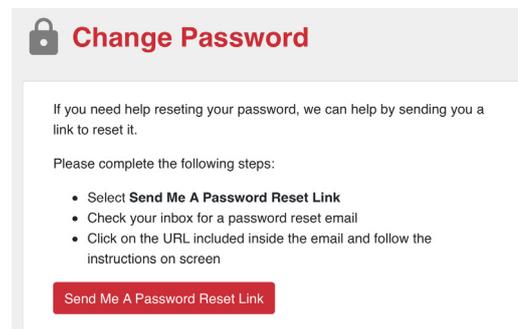


Fig. 9-5 "Change Password" dialogue box

4. Tap **Send Me A Password Reset Link**.  
An email containing a link will be sent to the stored email address in order to reset the password.
5. Open the URL and follow the instructions.  
The password is reset.

## 9.5 Find public scenarios

The user can search for publicly visible scenarios on the corpuls simulation Community home page.

To filter scenarios, proceed as follows:

1. Open the corpuls simulation Community home page (see 9.1 Login on page 78).  
On the home page, the user can see an overview of all publicly visible scenarios
2. The user has two options:
  - a) To filter the scenarios, tap the filters under "By Patient Age" and "By Patient Condition" on the left.
  - b) To search for a specific scenario, enter the name of the scenario in the search field under "By Tag Name".

The scenarios are filtered.

## 9.6 Upload scenario

The user can upload scenarios to the corpuls simulation Community.

To upload a scenario, proceed as follows:

1. Open the corpuls simulation Community home page (see 9.1 Login on page 78).
2. Tap  Upload Scenario.

The "Scenario Upload" dialogue box opens.



Fig. 9-6 "Scenario Upload" dialogue box

3. Tap .

The "Scenario Upload" option field opens. All scenarios that are saved in the Scenario Library in section 1 "Scenarios" are listed.

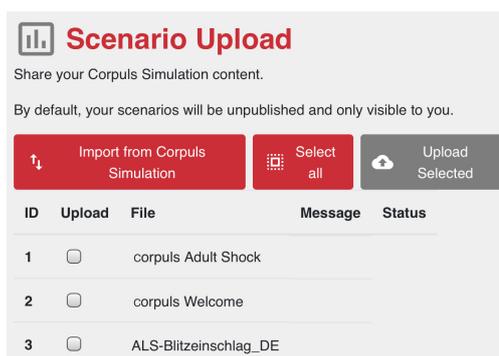


Fig. 9-7 "Scenario Upload" option field

4. Select the desired scenario by tapping .

5. Tap .

The status display switches to .

The scenario is uploaded to the Community's "My Scenarios" library.



In the "My Scenarios" library, the scenario is not visible to other Community members by default. In order to make the scenario available to other members of the Community, the scenario must first be published in the "My Scenarios" library (see 9.7 Change visibility on page 82).

## 9.7 Change visibility

The user can change the visibility of the uploaded scenarios in the Community.

The user has two options:

- Change visibility to "public": Publishing makes the scenario available to all other members of the Community.
- Change visibility to "private" (activated by default): The scenario is not visible to other members of the Community.

To change the visibility, proceed as follows:

1. Open the corpuls simulation Community home page (see 9.1 Login on page 78).
2. Tap Corpuls Admin.
3. Under "My Content" tap My scenarios.

The "My Scenarios" library opens.

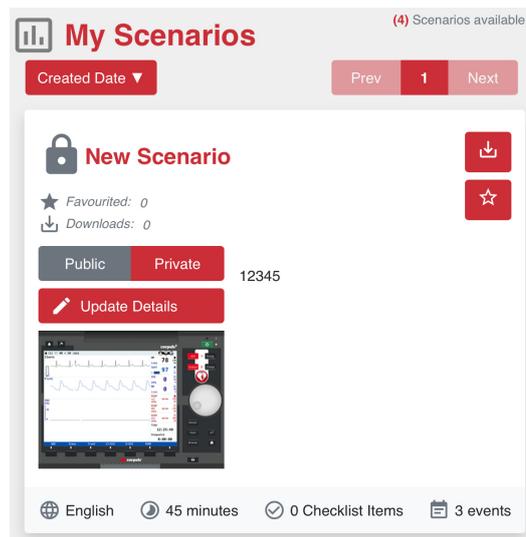


Fig. 9-8 "My Scenarios" library

4. Tap **Public** or **Private** for the relevant scenario.  
The visibility of the scenario is changed.

## 9.8 Import scenario

The user can import scenarios from the corpuls simulation Community.



When the user imports a scenario, the scenario is saved in the scenario library in section 1 "Scenarios" and can be loaded from there (see 6.4.1 Load scenarios on page 33).

To import a scenario, proceed as follows:

1. Open the corpuls simulation Community home page (see 9.1 Login on page 78).
  2. Tap .
  3. Under "My Content" tap  My scenarios .  
The "My Scenarios" library opens.
  4. Tap .
- The "Scenario Imported" dialogue box opens.

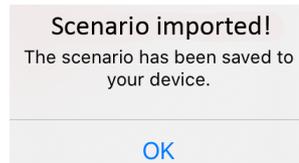


Fig. 9-9 "Scenario Imported" dialogue box

5. Confirm import by tapping .
- The scenario is imported.

## 9.9 Edit scenario information

The user can edit scenario information in the corpuls simulation Community.

To edit scenario information, proceed as follows:

1. Open the corpuls simulation Community home page (see 9.1 Login on page 78).
  2. Tap .
  3. Under "My Content" tap  My scenarios .  
The "My Scenarios" library opens.
  4. Tap .
- The "Edit Scenario" menu opens.

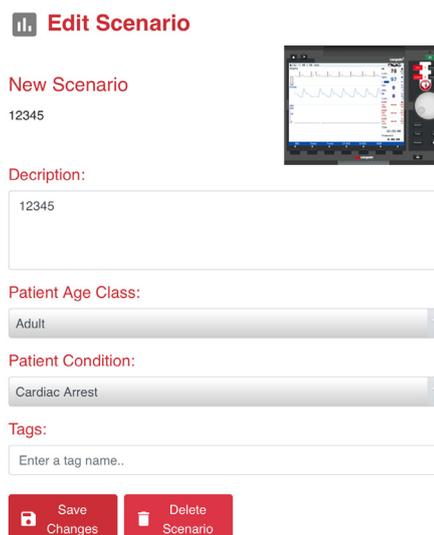


Fig. 9-10 "Edit Scenario" menu

5. Edit text fields and list fields and save changes by tapping .
  6. Confirm the dialogue box by tapping .
- The scenario information is edited.

## 9.10 Delete scenario

The user can delete scenarios from the "My Scenarios" library.

To delete a scenario, proceed as follows:

1. Open the corpuls simulation Community home page (see 9.1 Login on page 78).
2. Tap  Corpuls Admin .
3. Under "My Content" tap  My scenarios .  
The "My Scenarios" library opens.
4. Tap  Update Details .  
The "Edit Scenario" menu opens.
5. Tap  Delete Scenario .
6. Confirm the security query by tapping **Delete**.  
The scenario is deleted.



Community members who imported the scenario before it was deleted will still have access to the scenario.

---



As an alternative to permanent deletion from the Community, the user can change the visibility of scenarios to "private" (see 9.7 Change visibility on page 82).

---

## 9.11 Logout

To log out of the corpuls simulation Community, proceed as follows:

1. At the top of the Community home page, tap **Close Community** .
2. Confirm the security query by tapping **Close** .  
The user is logged out.

## 10 Updates

This chapter contains information on loading updates of the corpuls simulation app.

In order to continuously improve the functionality of the app, the corpuls simulation app is updated regularly. The user can install updates from the app store as soon as the iPad is connected to the Internet. There will be an automatic notification from the app store.

To load an update, proceed as follows:

Requirements:

- ✓ An internet connection is available for the iPad.
- 1. Open the App Store on the home screen by tapping .
- 2. Tap "Updates".  
The available updates are displayed.
- 3. Tap "Load Update".  
The update is loaded.

---

## Appendix

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### I Warranty

In addition to the statutory warranty conditions, the manufacturer offers a limited warranty on material defects and manufacturing faults. The scope of the warranty can be viewed in the respective guarantee conditions.

This warranty conclusively regulates the legal relationship between the purchaser and the manufacturer. Further damage claims are excluded, unless liability is stipulated by law.

Excluded from the warranty are wear and tear, defects and damage as a result of improper use, incorrect setup or installation, external influences, e.g. transport damage, damage caused by impact or repairs and modifications made by unauthorised third parties.

The warranty is also void if accessories or spare parts are used that were not obtained from the manufacturer or an authorised sales service and partner. In the event of a defect and warranty processing, contact an authorised service and sales partner or the manufacturer.

The manufacturer only accepts responsibility for the user and operational safety of corpuls simulation if maintenance, safety checks, repairs, additions and new settings are carried out by themselves or by persons specially authorised by them.

In addition, the manufacturer's General Terms and Conditions (GTC) apply in the current version until further amendment.

## II Protection Rights and Patents

It is not permitted to

- Dismantle parts of corpuls simulation and use them for other purposes.
- Replicate components or accessories.

The naming of goods in the user manual takes place without mention of any existing patents, samples or trademarks.

**corpuls**<sup>®</sup> is a registered trademark of GS Elektromedizinische Geräte G.Stemple GmbH.

 GS is a registered trademark of GS Elektromedizinische Geräte G.Stemple GmbH.

### III Approved accessories and consumables

A list of approved accessories and consumables can be found under :

[my.corpuls.world](https://my.corpuls.world)

For further information, advice and sales please contact an authorised service and sales partner.

## IV Disposal



Do not dispose of corpuls simulation and its accessories in household waste. Please ask your local authorities for information on correct disposal of corpuls simulation and the accessories or return them to the manufacturer.



Dispose of the corpuls simulation packaging via local facilities, e.g. waste paper bin, recycling centre, waste paper collection, etc.

## V Technical Specifications

### Monitor iPad

	Width	Depth	Height	Weight
Dimensions	545mm	190mm	300mm	5530g
Note	With housing and accessories			

Tab. 5-1 Technical data: Monitor iPad

### Instructor iPad

	Width	Depth	Height	Weight
Dimensions	195mm	190mm	260mm	880g
Note	With Case			

Tab. 5-2 Technical data: Instructor iPad

### Carry bag

	Width	Depth	Height	Weight
Dimensions	560mm	250mm	350mm	7090g
Note	With iPads and accessories			

Tab. 5-3 Technical data: Carry bag

## VI List of Abbreviations

RR	Respiration rate
AP	Access Point
App	Application
Art.-Nr.	Article number
BP	Blood pressure
BP diastolic	Diastolic blood pressure
BP systolic	Systolic blood pressure
CPR	Cardiopulmonary resuscitation
CSIM	corpuls simulation
Email	Electronic mail
ECG	Electrocardiogram
etc.	et cetera
etCO <sub>2</sub>	End tidal carbon dioxide
prn	if required
HR	Heart rate
CPR	Cardiopulmonary resuscitation
IBP	Invasive blood pressure measurement
ID Card	Identity card
iPad	Brand name of a range of tablet computers from the American manufacturer Apple Inc.
LAN	Local Area Network
min	Minute
NFC	Near Field Communication
NIBP	Non invasive blood pressure measurement
O <sub>2</sub>	Oxygen
PC	Personal computer
PEA	Pulseless electrical activity
PIN	Personal Identification Number
Item	Item
Pro	Professional
s	Second
SD Card	Secure digital memory card
SpO <sub>2</sub>	Arterial oxygen saturation
Sync.	Synchronisation
USB	Universal Serial Bus
USB-C	Universal Serial Bus - Type C
Conn.	Connection
VP	Vital parameters
WiFi	Wireless Local Area Network (WLAN) (= Company consortium of a wireless interface)

---

WiFi-AP & BT-GW	Wireless Local Area Network Access Point and Bluetooth Gateway
WLAN	Wireless Local Area Network
e.g.	for example
°C	Degree Celsius
°F	Degree Fahrenheit
[Symbol]"	Inches

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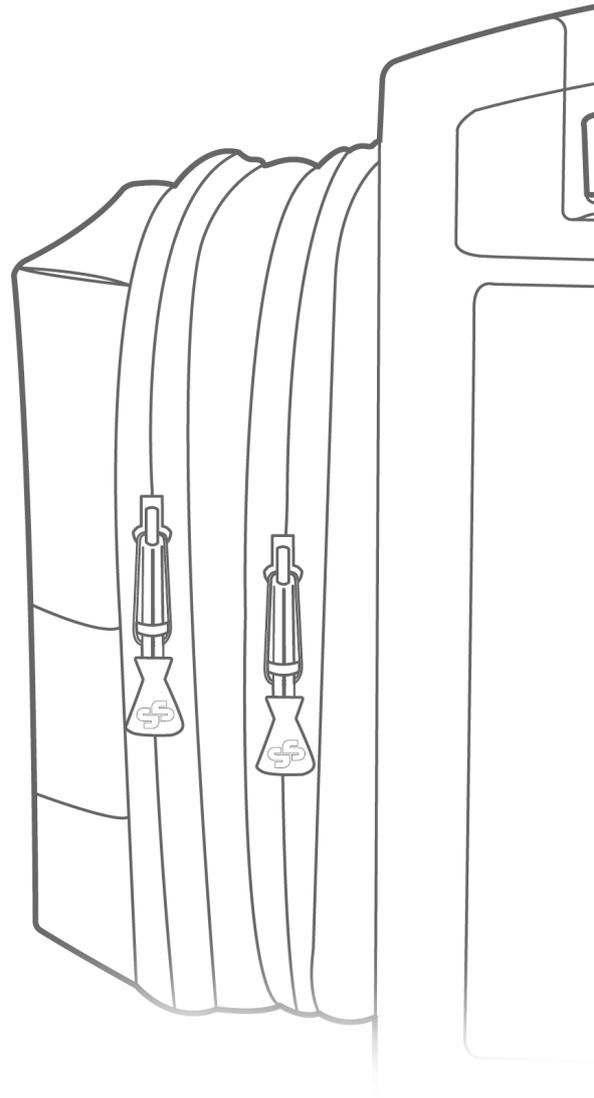
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