

User manual version 4.0

qubeCONTROL

Date 01.05.2023



Welcome to SKILLQUBE

We are very pleased that you have now become a part of the SKILLQUBE global network. We at SKILLQUBE have made it our mission to revolutionize simulation in (pre-) clinical care. With our Mission360 we would like to sustainably support all areas of learning with authoritative input, with the cycle of learning at the center of our mission. To this end, we offer realistic simulation phantoms such as the SIMBODIES in addition to the qubeSERIES simulation systems, which include our ECG simulators, ventilation simulators and audio-video debriefing systems. In addition to AHA-certified training such as ACLS, PALS and BLS, we also offer our own simulation trainer courses. We put our experience and heart and soul into the development of our simulation products with the goal of providing you with the most successful training experience possible. We are also constantly evolving and expanding our products in the process, so that simulation can become a part of your everyday life.

SKILLQUBE - Innovation out of passion



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General

Overview

To make the training high quality for all participants, different products are combined in the training. The biggest challenge here, however, is to combine the available technology into the training and incorporate it in such a way that the learning objectives are achieved.

Please note that the software is always up to date to guarantee safe and reliable use. You can see which software version is currently installed on the right below the logo of the software.

Using Apple as terminal

Since the software can run on different end devices such as iPhone, iPod, iPad and more, please check with your end device on:

https://support.apple.com/de_DE/manuals/

You can look up important functions that are used regularly at the following links:

Connect to a wifi:

<https://support.apple.com/de-de/guide/ipad/ipad2db29c3a/ipados>

Open Control Center on the iPad:

<https://support.apple.com/de-de/HT210974>

Apps from the AppStore Store:

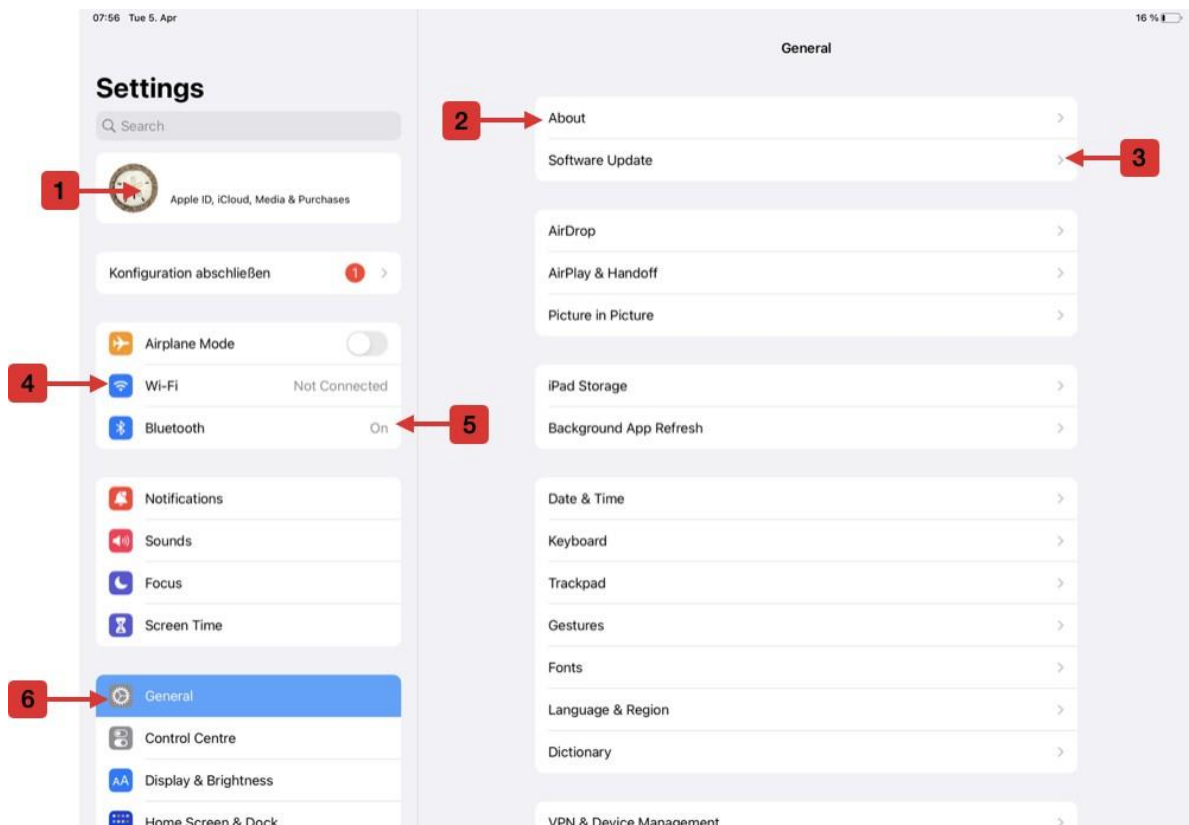
<https://support.apple.com/de-de/guide/ipad/ipad9b4cea76/ipados>

Turn iPad on/off:

<https://support.apple.com/de-lu/guide/ipad/ipad63d30b5a/ipados>

Information about the iPad

If you use a system from SKILLQUBE, knowledge about the iPad itself is part of the training in addition to knowledge about the software. All settings that are made on the iPad determine a successful training, because this can be influenced. Below you will find general information about the iPad and the settings.



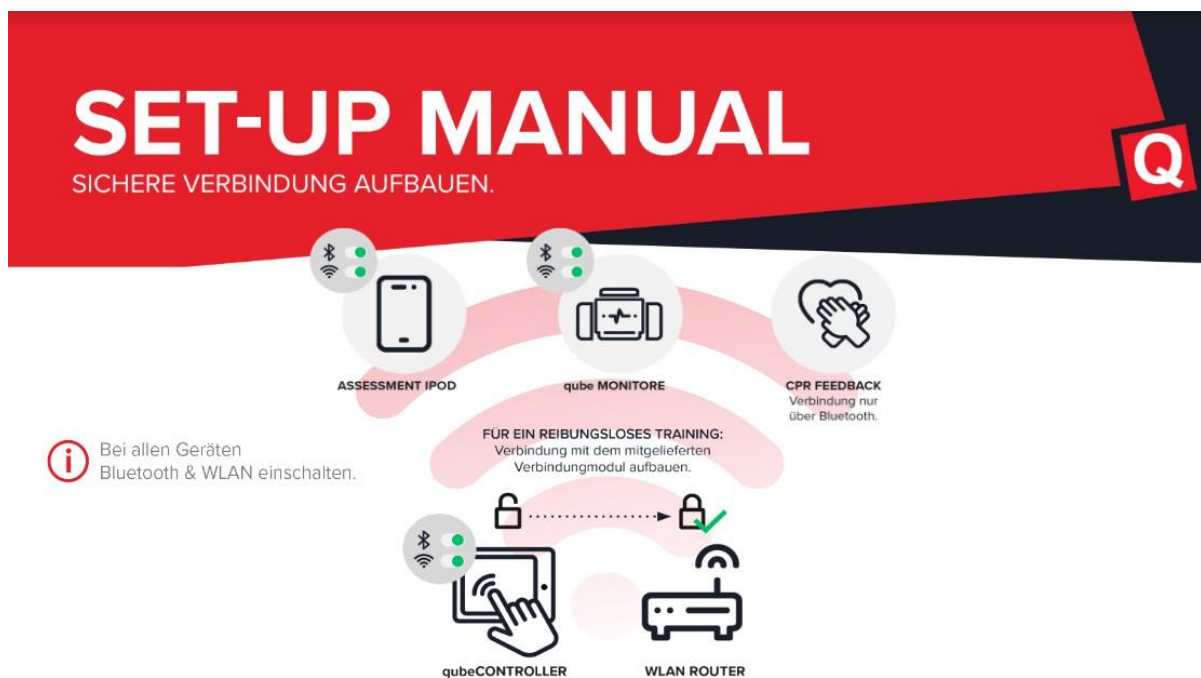
1. AppleID - This is created by you or by the organization.
2. Info - Here you can find the name of the iPad. This information is important, for example, when you contact support.
3. Software update and status of the software - Here you can find information about the current software version of the terminal device and install updates.
4. WLAN settings - connecting and deleting WLAN networks
5. Turn on Bluetooth and manage Bluetooth
6. General settings of the iPad

WLAN and Bluetooth

When using the WLAN network during the training sessions, please make sure to use the one provided by SKILLQUBE (via the WLAN router included in the system). If you have ever connected to another WLAN network, you must delete it again (<https://support.apple.com/de-de/HT208941>).

All iPads of the training system must be connected to the same WLAN network to be able to connect and communicate with each other!

If no WLAN is available, a connection is established via Bluetooth. This is more unstable and limited in range.



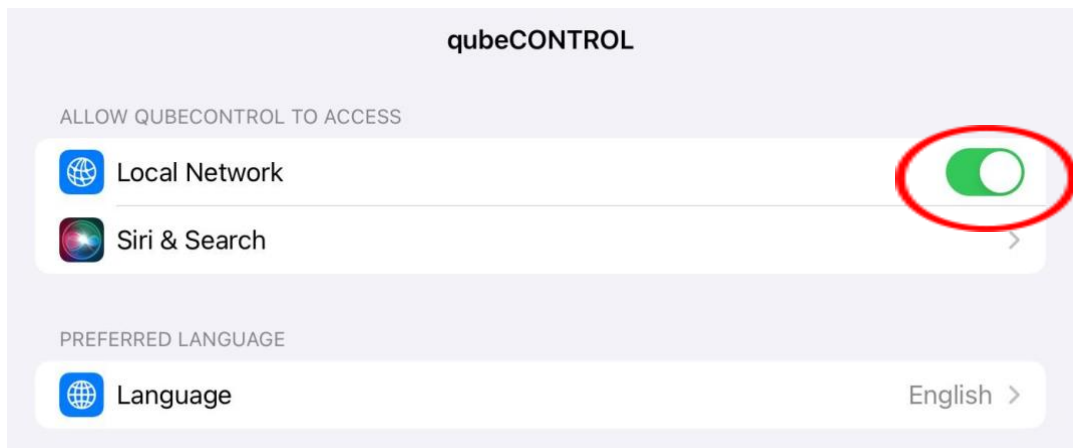
Note

If you want to update the apps/iPads or register and synchronize the controller, you need an Internet connection! To do this, you need to dial into an Internet-capable WLAN.

AppSettings qubeCONTROL & Monitors

The AppSettings have been transferred from the iPad to the qubeCLOUD as of version 3.6. This gives organizational administrators the option of managing all specific settings uniformly in the cloud. The transfer to the controller iPad takes place with the synchronization. (see further below). For more information on AppSettings, please refer to the qubeCLOUD manual.

In the local app settings in the iPads (applies to all apps of the qubeSERIE: controller, monitor, assessment and ventilation), you will find the setting for the language and permission for the app to access the local network. This must always be activated so that the apps of the qubeSERIE can connect to each other!

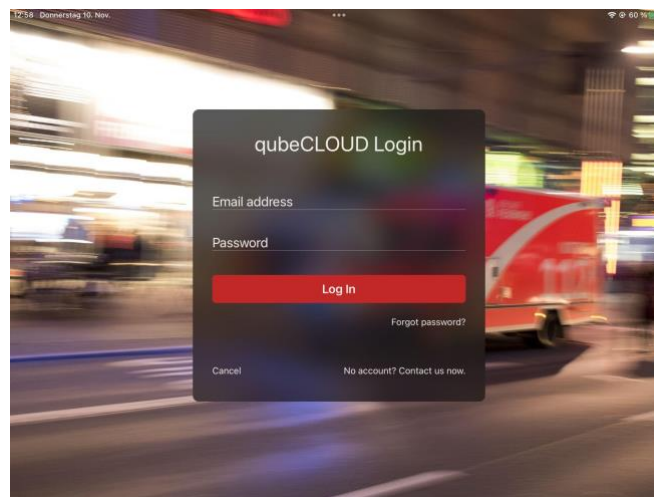


first registration and activation

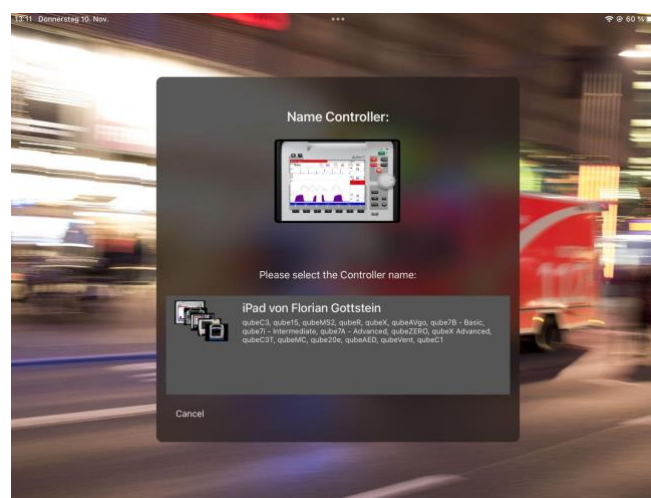
Log in with your access data for the qubeCLOUD during the initial setup. To do this, first go to "Log in":



In the window that now opens, log in with your qubeCLOUD login data:

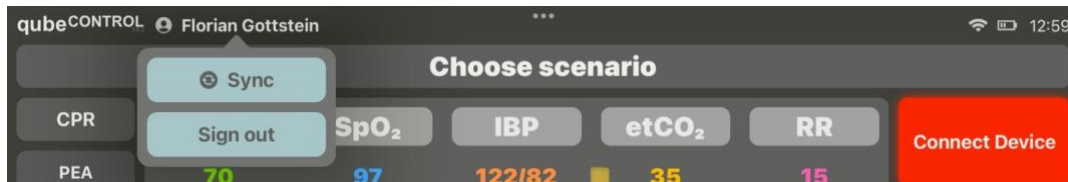


After successful login, the licenses available to you will be displayed. Select the one you want:



Now the controller is ready and can connect to the other systems such as monitor, assessment and ventilation.

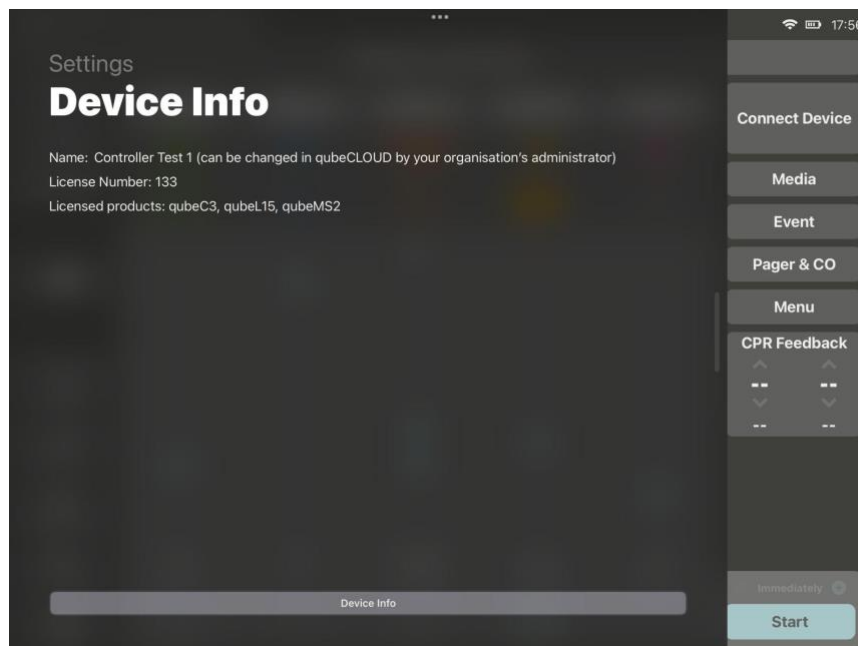
To log out or manually sync with qubeCLOUD, tap your name on the top left and select the appropriate action in the menu that pops up:



Designation qubeCONTROL

The controller is named when you activate the license on the device during initial login. The name is included in the license, qubeCONTROL adopts it. For details on naming the license and renaming, see the qubeCLOUD user manual (page 6). If you have renamed the license there, a manual synchronization on the qubeCONTROL is necessary for updating.

You can find the name of the controller iPad as well as the license number and the licensed products in the "Device Information" window. To do this, swipe from the left side of the iPad to the center.

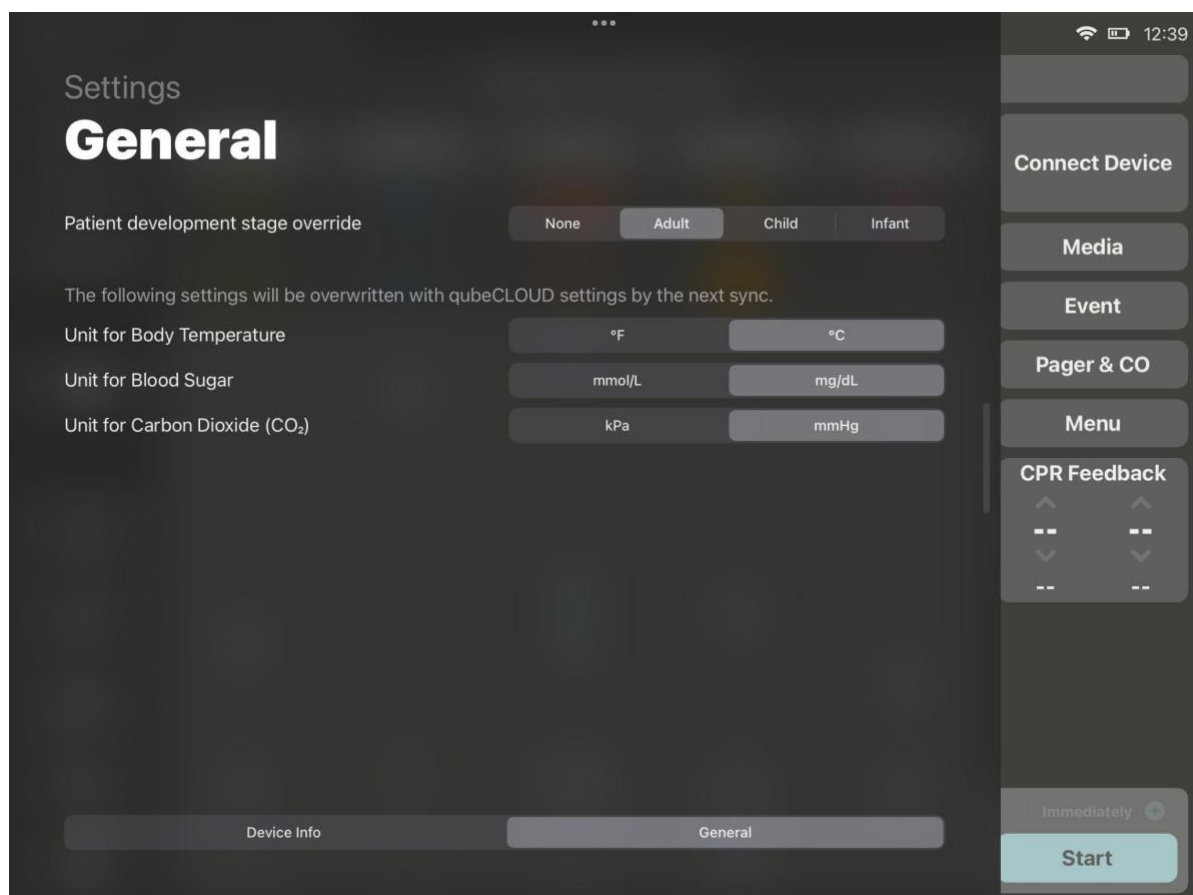


Adjustment of units and alarm limits

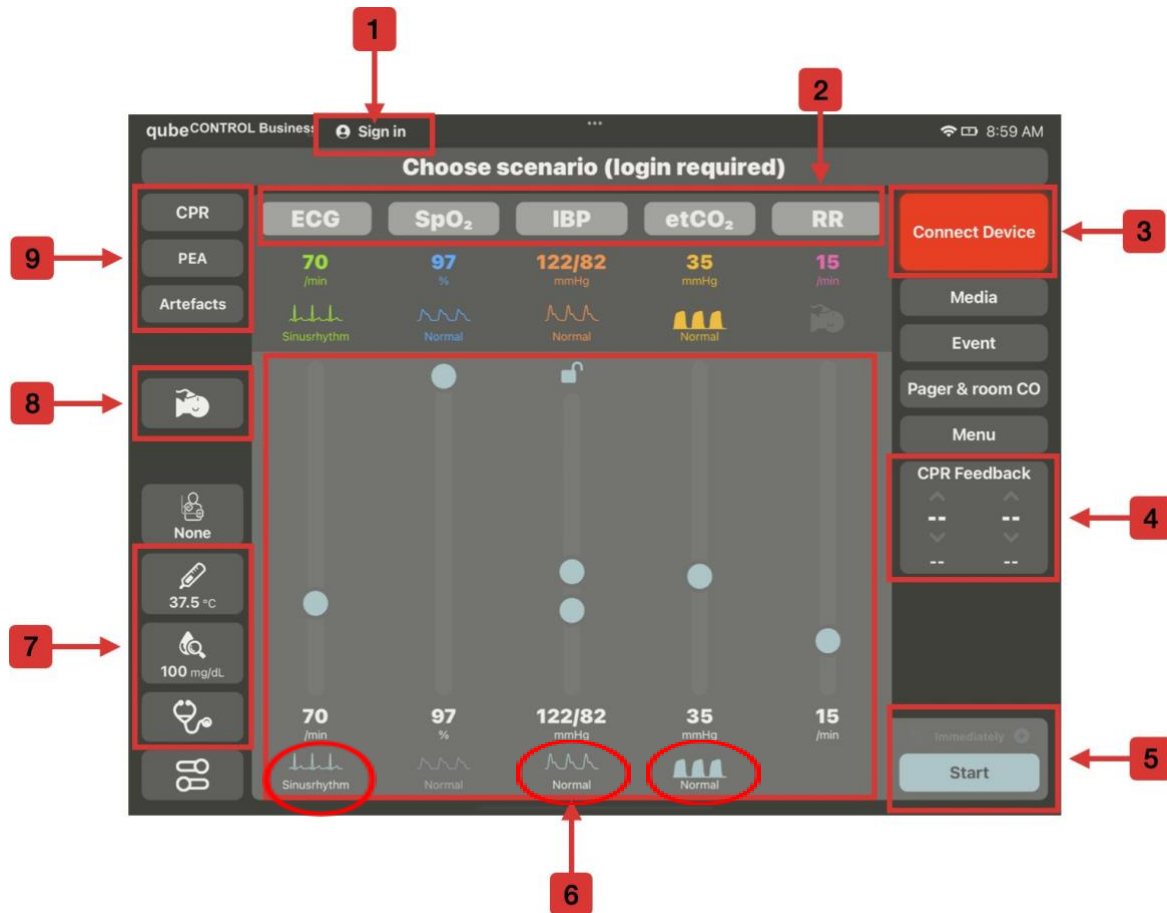
The units for body temperature, blood glucose and CO₂ are basically configured in the qubeCLOUD (see also the corresponding user manual).

If it becomes necessary to change to a different unit in a specific training session, the unit can be changed locally via "Device information" -> "General".

The same applies to the standard alarm limits. If the training is for children or infants, the default alarm limits can be adjusted accordingly.



Controller overview



1. Login & synchronization with qubeCLOUD to download controller and monitor settings.
2. Switching the vital signs on and off on the monitor
3. Connection center - here you connect your monitor, assessment, ventilation simulator as well as additional sensors (e.g. CPR) to the device.
4. CPR Dashboard - when the CPR sensor is connected, the pressure depth and frequency are displayed here.
5. By pressing "Start" a free scenario is started. During the running scenario, pressing this button - which is then called Send - sends the newly set values to the monitor.
6. Set the vital values using the sliders and select the waveforms. Tap the circled icons for the waveforms.
7. Controls for the qubeASSESSMENT. Set here all values that should be displayed in the app.
8. Control element for the ventilation simulator . Here you control the ventilation simulator via parameters or disease images and play in alarm messages.
9. Settings for resuscitation with activation of artifacts and further information for the trainer. For more information, see the "Manual CPR" chapter.

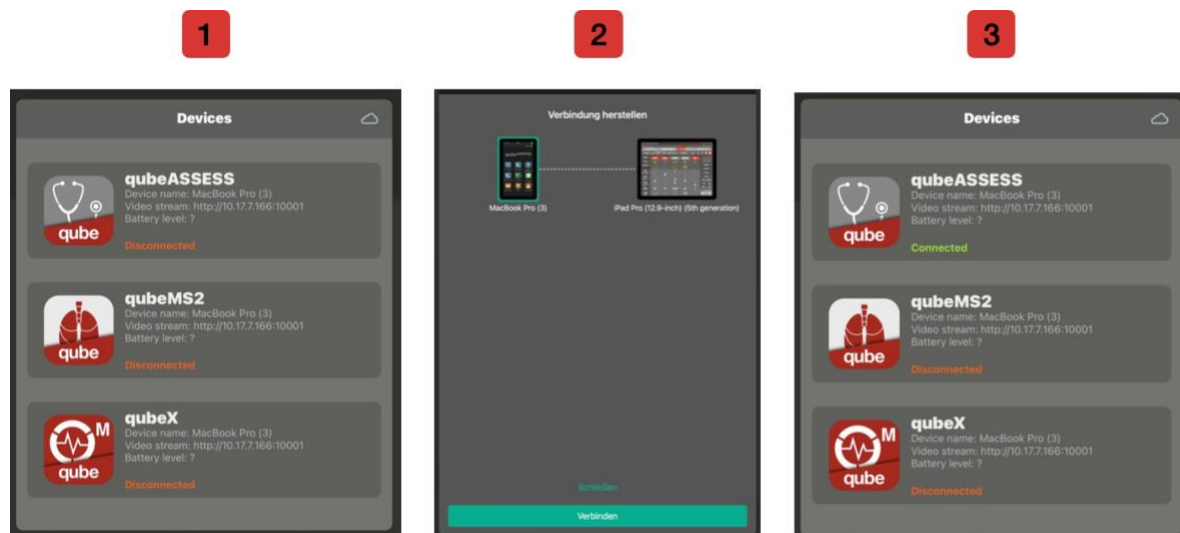
Connecting the monitors

For the system to function correctly, the monitor, ventilator and assessment must be connected to the controller. The sensors are also connected in this menu (see Controller overview, number 3).

Connect monitor, assessment and ventilator

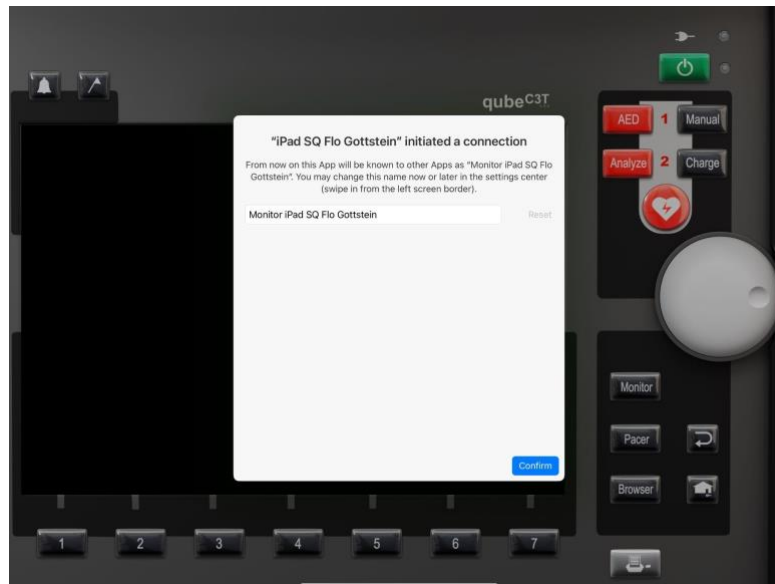
To connect the devices (note: these must be open on the corresponding iPads), press the red flashing "Connect Device" field on the upper right side. Now all devices available in the environment are displayed (sensors are searched and displayed only after successful connection of a monitor).

After you have pressed "Connect Device", a dialog opens as shown in Figure 1. Now tap on the desired app icon to connect. You will then be prompted to confirm the connection on the device, e.g. the monitor (see Fig. 2). After the successful connection, the connection center will show in green that the device is connected. Repeat these steps to connect further devices to the qubeCONTROL.

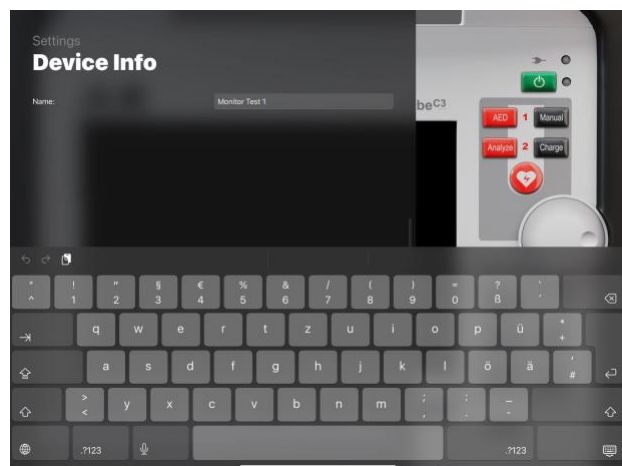
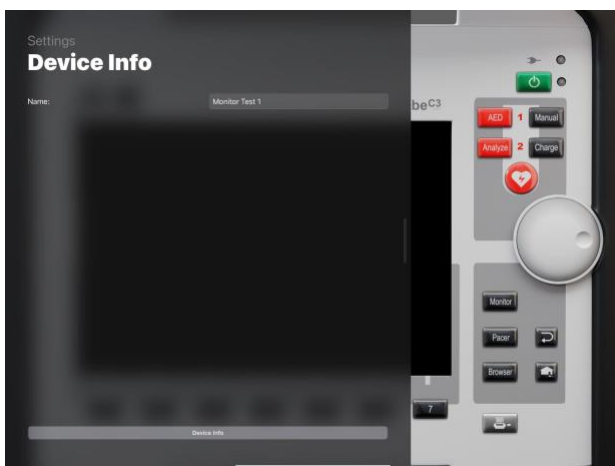




When you connect a monitor to the qubeCONTROL for the first time, a field for naming the monitor opens with a suggested name: "Monitor [controller name]". You can also name the monitor differently if you wish. The same applies to the qubeASSESSMENT and the ventilation simulator.



If necessary, you can rename the monitor at any time. To do so, swipe from the left side of the iPad to the center. The "Device Information" window opens. Tap on the name displayed and edit it.



Connect CPR sensors

After a monitor is connected, another button appears below the displayed monitors in the connection center: "Scan CPR Sensors". If you press this, the available sensors are searched. Tapping on the sensor selects it. If necessary, it must be calibrated before use.

Note: Connect and calibrate the sensor well in advance of training, as calibration may take some time.

The media center on the controller

The media center on the controller can be opened by swiping from the outer right edge of the iPad to the center. Likewise, it opens automatically (can be set on the qubeCLOUD) when an ECG has been printed on the monitor (1). This ECG can be accessed and then sent to an Airprint-enabled printer (2), providing users with a printed ECG. In addition to the ECG images, a tab in the lower area can be used to access and display the PDF files stored in the cloud (3).

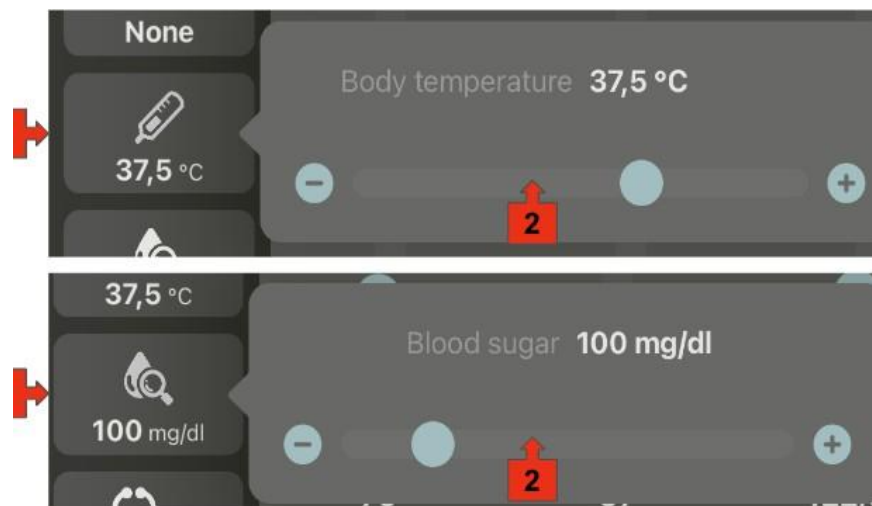


Control of the qubeASSESS

The qubeASSESS displays all values that are of interest for a scenario but cannot be classically displayed on the monitor.

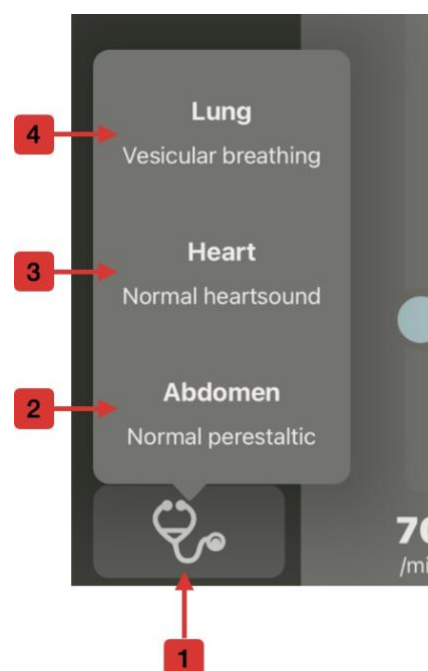
Temperature and blood glucose measurement

Temperature and blood glucose can be measured in the qubeASSESS software. To set these measured values, tap on the desired field (1) to open the corresponding menu. Here you can use the sliders (2) to adjust the value accordingly. It is not necessary to send the values to the qubeCONTROLLER.



Auscultation

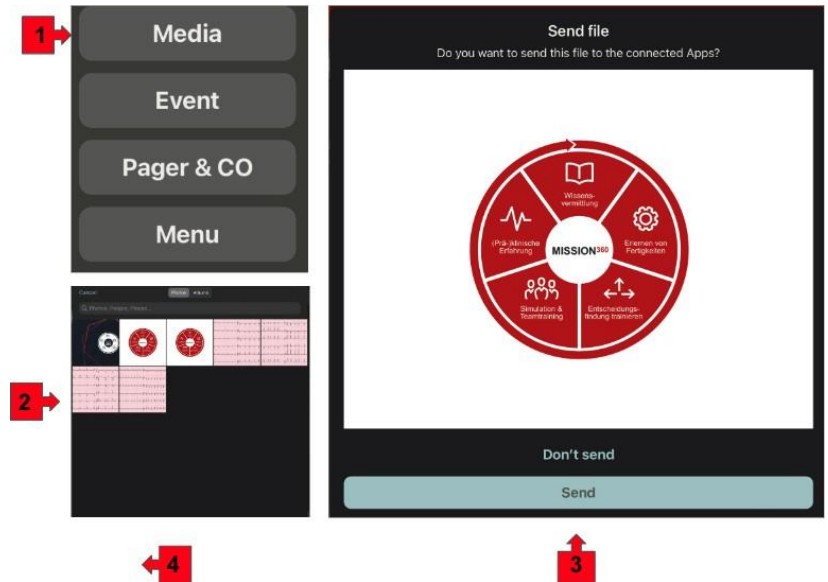
The qubeASSESSMENT enables the playback of auscultation tones of the lungs, heart and abdomen. The available auscultation tones are set on the qubeCONTROLLER. Tap the stethoscope icon (1) to obtain the view with the auscultation points. Depending on which auscultation tones you want the participants to hear, tap the (2) to change the abdominal, the (3) to change the cardiac or the (4) to change the lung tones.



Send media

One can send from the controller to the qubeASSESSMENT or monitor various media that are available locally on the iPad or integrated in a pre-programmed scenario of the qubeCLOUD. The image is sent to the devices connected to the qubeCONTROLLER.

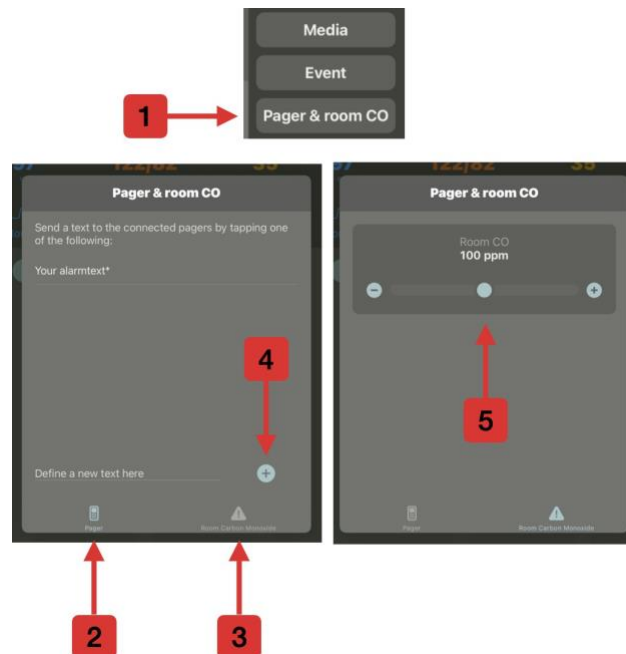
By tapping (1) you open the media that are available on the iPad (2). When you have selected the media you want to send, a dialog will open asking you if you want to send the image or not (3).



Pager and CO alarms

Via the menu Pager and CO (1) you can activate either the pager (2) or the CO alarm (3) on the qubeASSESSMENT. As pager texts you can either select the predefined texts from the qubeCLOUD or enter a free text (4), which will then be displayed on the pager.

Via the (3) you open the CO detector menu and can set the desired value via the slider (5) Set.



The pager text is automatically sent to the assessment app when tapped, the CO value must be actively sent to the assessment app via "Send" (analogous to the changes of vital values).

Set vital values and waveforms

The system has a variety of waveforms and setting options, which are described in more detail below.

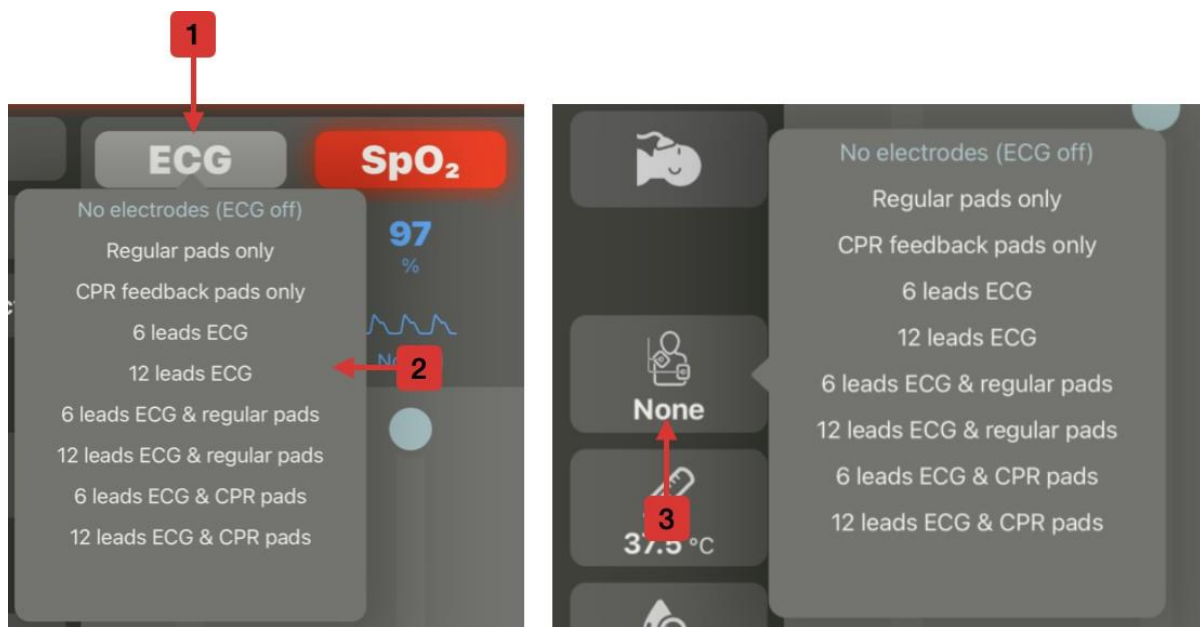


1. When starting a new scenario, the buttons in the upper area are all gray (see 2). By tapping on them, they are activated individually and then appear red (see 1). For the ECG, the ECG electrode configuration is requested. This can be changed at any time in the further course. (cf. next page)
2. View of a switched off mode, here invasive blood pressure.
3. Slider for setting the values. The slider can be used to adjust the value up and down. For blood pressure, there are 2 sliders that set the systolic and diastolic values. These are - if the lock (5) is closed - in dependence to each other. If the lock (5) is open, they can be moved independently of each other.
4. Tapping on the waveform opens the context menu for selecting further waveforms and ECG variations. These will be discussed in more detail below.
5. Switch on/off dependence of systole and diastole (switched off here).
6. Select the etCO₂ waveform.
7. Here you can access the selection window of the invasive blood pressure and the intensive values.

When deactivating the values (tapping on the value to be deactivated), you will be asked again if you really want to deactivate them.

ECG Switch on

Tap on "ECG" (1) to switch this on. Another dialog box opens in which you must select which electrodes are connected (2). This has the background that the behavior of the monitors is different depending on the connected leads. By tapping on (3), the type of electrodes connected can be changed at any time during the course of the scenario.

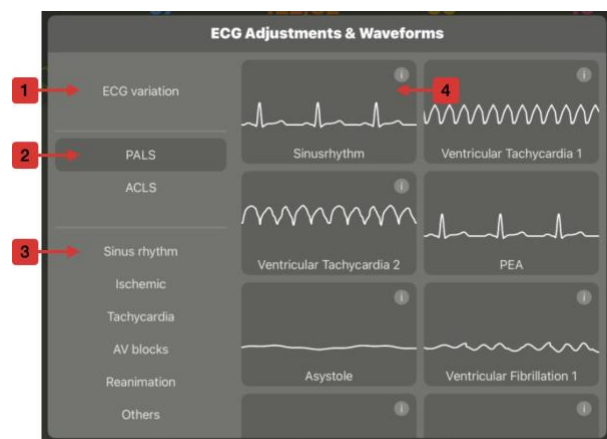


- **Standard pads only** - Only defibrillation electrodes are connected
- **CPR Feedback Pads Only** - Defibrillation electrodes are connected that allow CPR feedback to be displayed - if the monitor allows it.
- **6 - Channel ECG** - Only one 6-channel ECG is connected. Accordingly, only the leads according to Einthoven and Goldberger are displayed.
- **12 - Channel ECG** - All leads according to Einthoven, Goldberger and Wilson can be displayed.
- **6 - Channel ECG & Standard Pads** - A 6-channel ECG (see above) is connected as well as the normal defibrillation electrodes.
- **12 - Channel ECG & Standard Pads** - A 12-channel ECG (see above) is connected, as well as the standard defibrillation pads.
- **6 - Channel ECG & CPR Pads** - There is a 6-channel ECG (see above) connected with defibrillation electrodes which can display CPR feedback.
- **12 - Channel ECG & CPR Pads** - There is a 12-channel ECG (see above) connected with defibrillation electrodes which can display CPR feedback.

ECG waveforms

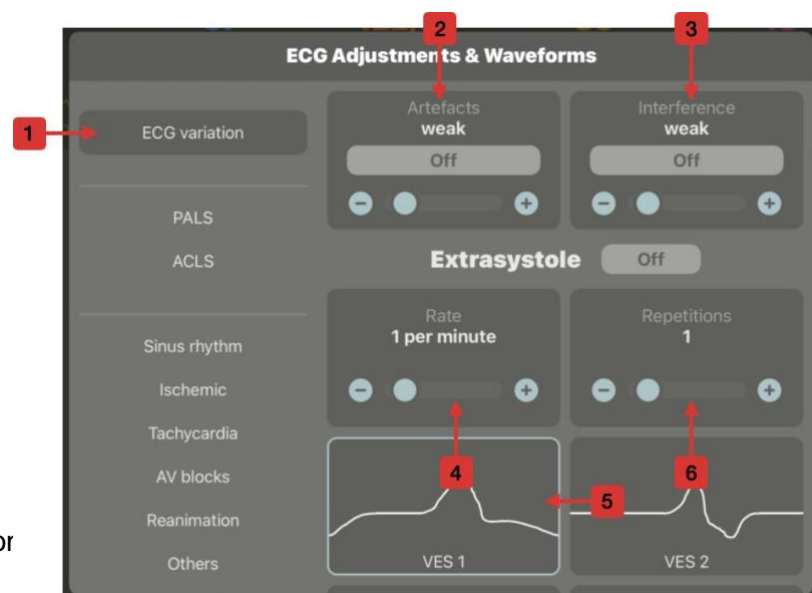
In order to be able to represent more reality in the simulation, various ECG waveforms as well as different variations like extrasystoles are needed. If you open the ECG waveforms as described before, you will get the menu in which all waveforms are selected

can be set. Under (1) you can set the ECG variations. These will be discussed in more detail in the following chapter. If you tap on PALS or ACLS (2), you will get a selection of ECGs which are usually to be expected in these course formats. Below (3) you will then find different folders with various ECGs. To select an ECG, press the desired ECG on the right (4).



ECG variations

If you use the variations (1), the option to set them opens. Here you can set ECG artifacts (2) as well as electrical disturbances (3), which can be set in three stages via the slider. Likewise, extrasystoles can be entered here. Here you can set how often per minute (4) and with which repetition rate (6) these are displayed. To show more variation

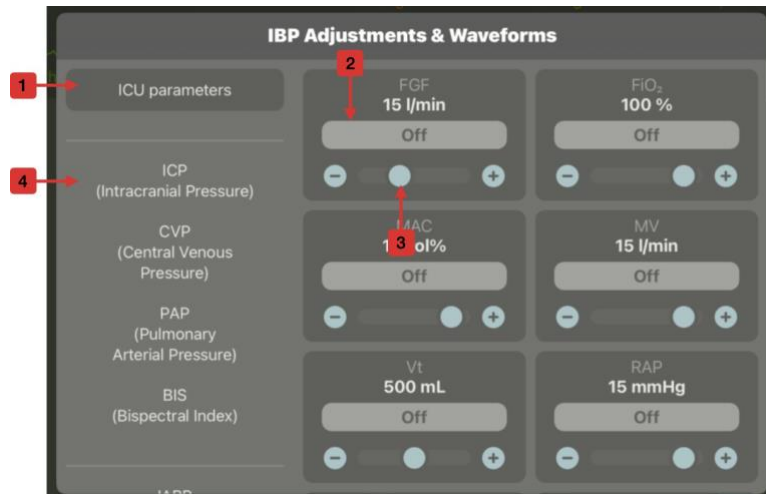


Intensive values ICU

The waveform selection button for intra-arterial blood pressure measurement (see "Controller overview" above) opens the menu for selecting the intensive values in addition to this. The

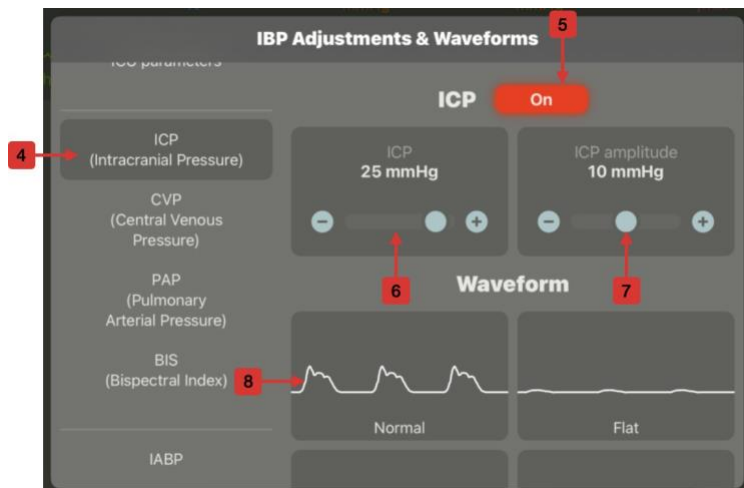
numerical values are displayed on the qubeASSESSMENT as well as on the monitors that are able to do so.

When you have opened the menu, the numerical parameters (1) are displayed directly. You can switch them on and off like all other values (2) as well as change the value via the slider (3). Besides the numeric fields have you also still a selection of waveforms that you can display (4).



The waveforms are switched on and off like all other values via the on/off button (5). The waveforms have different settings that can be made. You can set the middle value via the slider (6) and via the amplitude (7) define the size of the waveform. Different waveforms (8) can be selected.

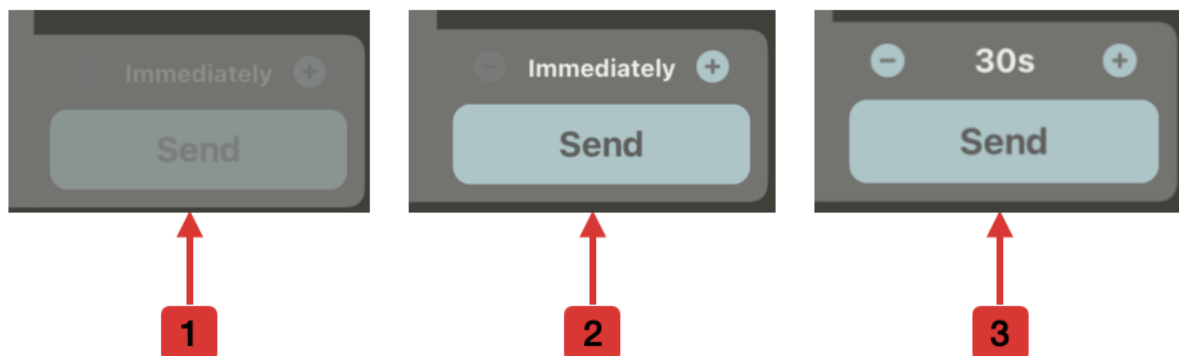
A special waveform is the pulmonary artery pressure. Here, instead of amplitude and mean, you must set the systolic and diastolic pressures, which define the height of the waveform.



Send data

After you have made all settings, you can send the data. In the controller, this is possible at the bottom right. If the field is grayed out (1), there is no new data. If the field is no longer grayed out (2), there is a new data record waiting to be sent. A trend time can be set via + and -.

As a result, the newly set value does not change immediately, but increases or decreases over the set time.

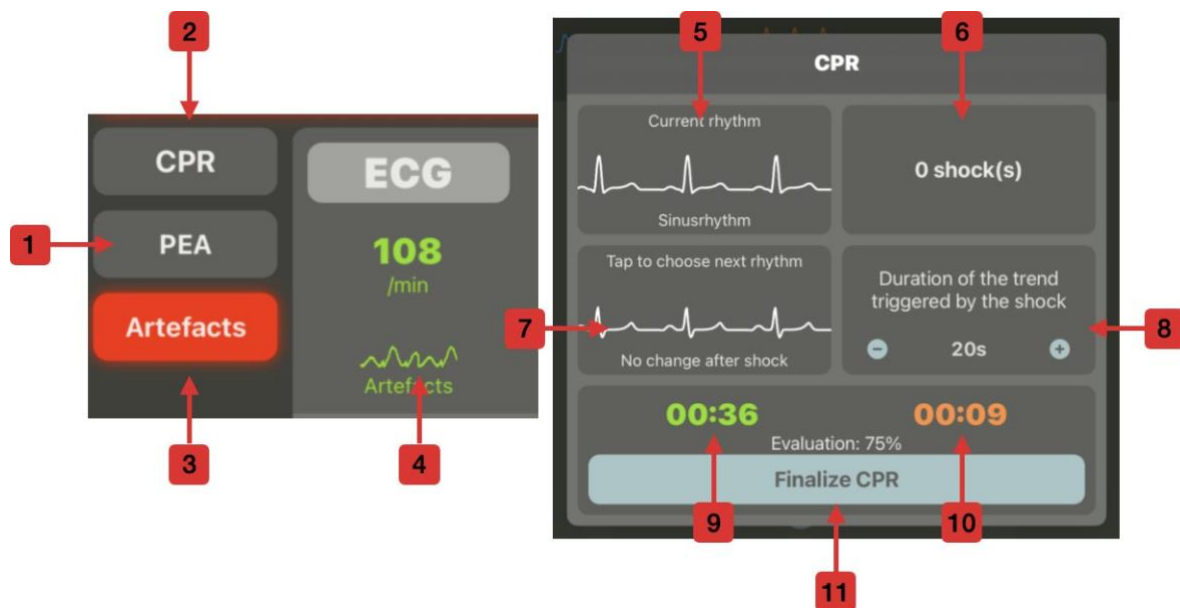


If you want to cancel the trend, you have to move one of the sliders. This will directly open a dialog that asks you whether you want to cancel the trend or let it continue.



Manual CPR

To support the trainer during resuscitation, the controller offers various functions. You can enter any rhythm as a pulseless electrical activity PEA (1). Here, all values - except for the heart rate - immediately fall to 0. In a resuscitation scenario, you can call up the manual CPR dashboard (2). During chest compressions, you can import artifacts (3/4), which are then automatically displayed in the monitor.



In the manual CPR dashboard you will find various information. On the one hand, you can see the current rhythm (5) and the number of shocks delivered (6). As a trainer, you can define which rhythm should be played automatically after defibrillation (7). It is also possible to define a time course here (8). This means that during the next defibrillation the selected rhythm will be adopted and the vital signs will change over the set time. In the lower area you will find the information about the CPR fraction. The green clock (9) runs whenever the artifacts are turned on. The red clock (10) runs when the artifacts are switched off. In the middle, the Chest Compression Fraction is then shown in percent, i.e. the ratio of compression time to total reanimation time. When you end the scenario, also press "End reanimation" (11) to save the current values.

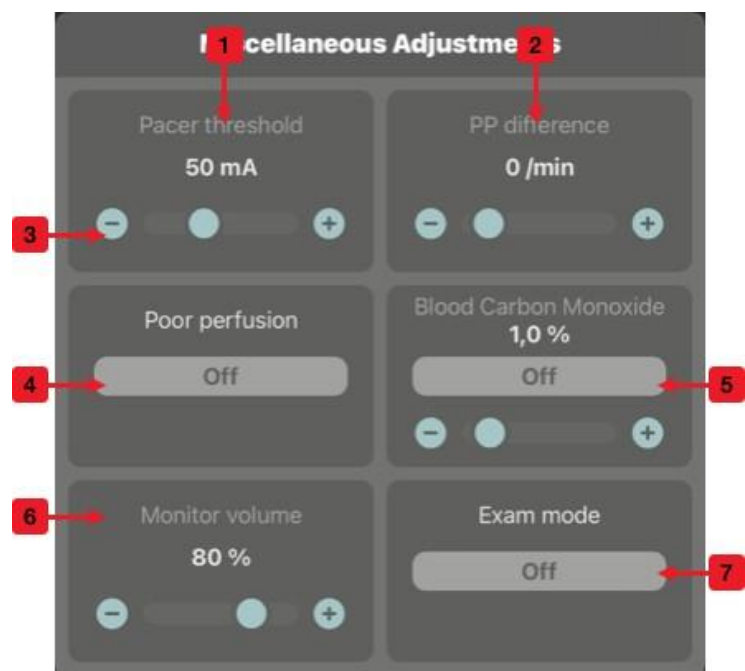
Menu and Other Settings

In addition to the already known settings, you can make other settings in the system. On the one hand, you can use the button at the very bottom left to make settings that are directly related to the scenario and on the right to use the menu with logbooks and other options.

Other settings

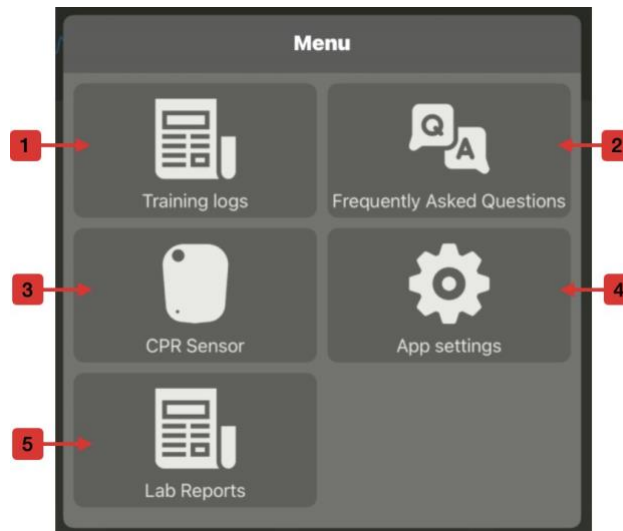
The settings include scenario relevant information and parameters. For example, you can set the pacer threshold here (1), which defines which current strength must be set on the monitor so that each spike is answered with a chamber complex. Via +, - or the slider (3) the values can be adjusted and changed. Likewise, the pulse difference between electrical and mechanical heart rate can be adjusted using the PP difference (2). If there is poor blood flow (4) to the extremities, this can be corrected by pressing the on/off button. off buttons are displayed.

Some monitors are able to measure CO in the blood (5). This can also be displayed by pressing the on / off button. If you have set the monitor too quiet at the start of the training, you can set it louder via the settings (6). By activating the examination mode (7), the view of the SOP/PDF on the qubeASSESSMENT is deactivated. This way, the examinee does not have access to documents that he is not allowed to use in an exam.



Menu

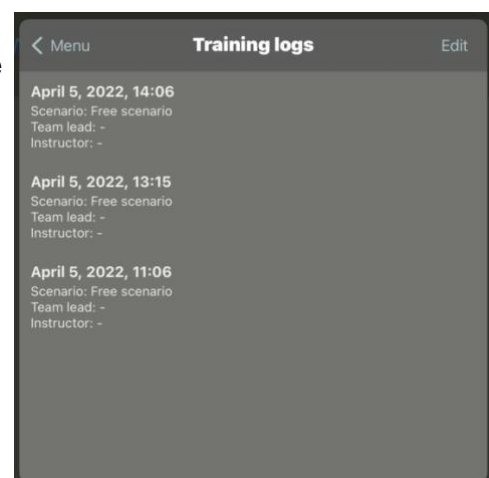
Tapping on the menu opens an overview with further selection options



1. Open the training logbook. This is created automatically for each scenario.
2. If the iPad has an internet connection, you can go to Skillqube's FAQ page here.
3. Sensor settings: Here you can set the pressure depth as well as the speed for adults, children and teenagers.
4. This takes you directly to the AppSettings of the qubeCLOUD to make further settings (see above "App Settings qubeCONTROL and monitors").
5. Opens the option to create lab reports to send to qubeASSESSMENT.

Training log

The logbook records all information created during the scenario. The logbook can be opened by swiping to the left - similar to a e-mail program - can be deleted or exported. The export can take place as PDF and the logbook can be printed directly or sent via eMail or other ways. Deleted logbooks are irrevocably deleted and cannot be restored! If the scenario is recorded with a CPR sensor, there is also an evaluation in the logbook. This can be found via the tab bar at the bottom of the logbook.



Lab reports

As already described, you can also send individual laboratory reports to qubeASSESSMENT. You can call up the setting options for this via the menu. You can select laboratories from the database (1) or also create new laboratories (2). If you create a new lab, you can add new values via + (4) or delete already existing values via - (3). With the sliders you can change the values according to your needs. Select Export Report (6) to see a preview of the lab (5). Then press Send to send the lab to the qubeASSESSMENT or monitor. This will then be displayed there via the media center.

Cardiac lab

Parameter	Value	Unit	Range
pH	7.40		[7.35–7.45]
pCO ₂	40	mmHg	[35–45]
pO ₂	90	mmHg	[75–105]
HCO ₃ ⁻	24	mmol/L	[21–28]
BE	0.0	mmol/L	[-2.0–2.0]
SaO ₂	97%		[95–100]
Lactate	1.0	mmol/L	[0.6–2.3]
Na ⁺	140	mmol/L	[135–145]
K ⁺	4.0	mmol/L	[3.5–5.0]
Cl ⁻	101	mmol/L	[95–106]
Ca ²⁺	2.2	mmol/L	[2.1–2.6]
Glu	5.0	mmol/L	[3.3–6.1]
Hct	45.0%		[40.7–50.3]
Hb	15.0	g/dL	[13.5–17.5]

Cardiac lab

Send Report

Export Report



CPR dashboard with sensor

To make resuscitation training more realistic and easier for the trainer, the CPR sensor can be integrated into the qubeSERIE. This displays the pressure depth and frequency and provides support by automatically switching the artifacts on and off.

Connect sensor

In order for the sensor to be connected, you must ensure that the controller is connected to the monitor and that Bluetooth is switched on for all devices. The sensor is connected to the monitor, which then sends the data to the controller (see also "WLAN and Bluetooth" above). If you have connected a monitor, you can use the "Search Sensor" button in the connection center to find all sensors that are in the immediate vicinity. When connecting, the sensor can prompt the trainer to calibrate it.

Tip: Calibrate the sensor before starting training or class to avoid stress. Since the sensor cannot be switched on and off, we recommend charging it directly before training.

The calibration is displayed in the controller in an animation and can be executed by the trainers according to the animation. After successful calibration, the sensor is ready for use.

Working with the sensor

Once the sensor is connected and the scenario is started, the trainer must still inform the system that resuscitation has begun so that the acquired data is displayed correctly over time. If this is not ensured, the data can be displayed as CPR fraction (CCF) or others are not collected correctly.

If the participants start CPR and the trainer has forgotten to record this, the system automatically asks after 10 seconds whether resuscitation is taking place. The data of the last 10 seconds are considered and recorded accordingly. The behavior is identical when resuscitation is terminated. Here, the trainers are asked after 10 seconds whether CPR has ended. By confirming, the last 10 seconds are not evaluated. Thus, the data remain as correct as possible.

CPR Dashboard

In the CPR Dashboard, you will find various information about resuscitation and the sensors. In the upper left corner (1) the connected sensors are displayed. In the top right corner (2) is the time of the total resuscitation duration. Via "STOP" (3) the reanimation is stopped, all collected data are saved. Via "Group" (4), the system is informed that reanimation is now in progress. If you have selected participants before starting the scenario, they can also be selected by name so that the CPR evaluation is recorded for the selected person.

In addition, the CPR fraction is displayed (5), which indicates the chest compression fraction in relation to the total duration of resuscitation as a percentage. The hands off (6) and hands on (7) time indicate the respective value in figures.

The field on the left displays compression frequency (8) and pressure depth (9) as well as ventilation frequency (10) and ventilation volume (11). Here, information is also recorded on how many times in total pressure or ventilation was applied and how many times at the correct frequency and depth.

The graphs at the bottom of the dashboard show whether the participants stayed within the specified frequency range (12), what the pressure depth (13) was during the course and when how much ventilation volume was applied (14). Provided the dots and bars are in the green zone, the measures were correct. If pauses occur, these are highlighted in yellow (15).





Use of scenarios from the cloud

In training, many things happen at the same time, which is why it is important that the trainer is relieved when controlling the scenario. With the scenarios that can be created in the qubeCloud, this can be implemented smartly. In order for these to be played on the qubeCONTROL, you have to be logged in with your qubeCLOUD access data.

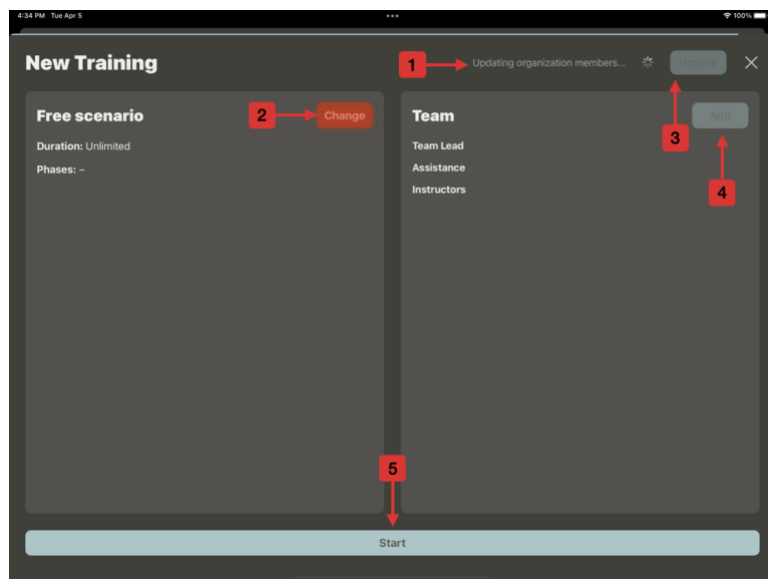
Login to the qubeCLOUD

To be able to log into the qubeCLOUD, you need the access data. You will receive these from your contact person for the simulation systems. You can tap on Login at the top left and then enter your user name and the password you have assigned in the dialog that appears. Afterwards the login will be executed. An active internet connection must be available for this.

Select scenario and user

If you tap on "Select scenario" at the top of the qubeCONTROL, the scenario selection opens. If there is an active internet connection, the system starts to update itself. The current status and progress are displayed (1). If the update does not are performed automatically, you can also activate them manually (3). The scenarios are saved locally or transferred to the qubeCLOUD when changes are made.

Once the data is updated, first reconnect to the training network so that you can use the monitor and, if necessary, the qubeASSESSMENT are connected.



Choose scenario

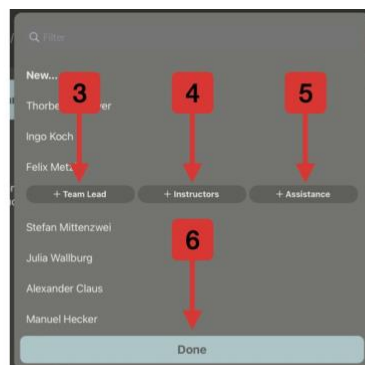
In the first step you select the scenario you want to simulate (2). Then you can optionally add participants (4) to the scenario.

After you have tapped on the red flashing button "Select scenario", another window opens in which all scenarios are displayed that are released in the qubeCLOUD. After the scenario has been selected, the briefing is briefly displayed in a text(1). If you do not want to play this scenario, you can tap on "Select scenario" (2) again to select another one instead. If you do not want to add any participants to the scenario, you can start playing the scenario by tapping on "Start" (3).



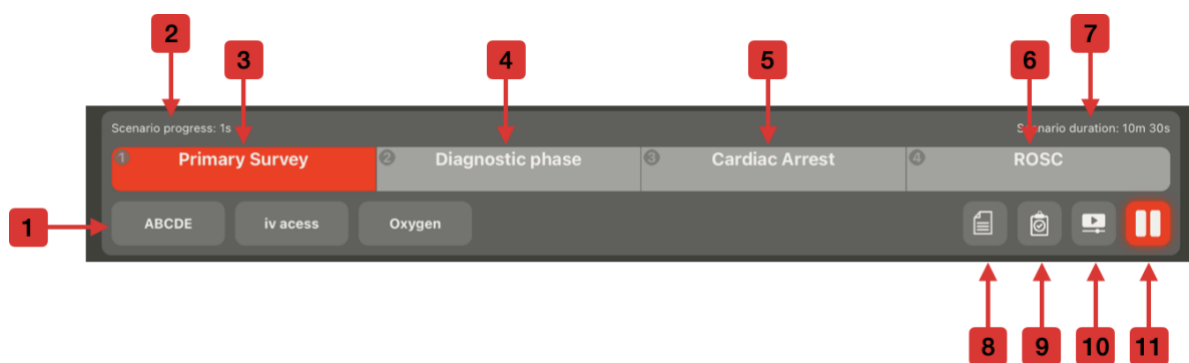
Select user

If you want to select users, tap "Add" (1) on the right side. The selection of users (2) opens. By tapping on a participant, you can choose whether he or she will participate in the scenario as a team leader (3), instructor (4) or supporter (5). After the selection, tap on "Done" (6). The overview with the participants (7) then opens again. By tapping on "Start" (8), the scenario begins.



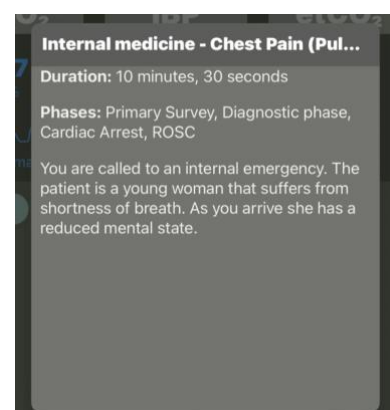
Start scenario

After the scenario and the users are selected, the controller starts in the scenario view. In the lower area (1), all measures are displayed that are to be processed in the current phase (3,4,5,6). If a task has been completed, it can be tapped, which will then be marked as completed by a white border and noted in the logbook. If icons are displayed for the measures, these are automatically marked as completed by the system when they are fulfilled (for example, blood pressure measurement or ECG printout). At the top left (2) and right (7) you can see how long the scenario has been running or the planned duration. If the time is exceeded, the trainer is notified, but can continue the scenario as normal. In the lower right corner, further information or different contents can be called up. Under (8) you can once again view the information about the scenario. At the clipboard icon (9) you can access the checklists stored in the scenario and check them off by tapping on the individual points. These are then also documented in the logbook. With the media icon (10) you can access and use the media associated with the scenario. The pause icon (11) can be used to start, pause or end the scenario.



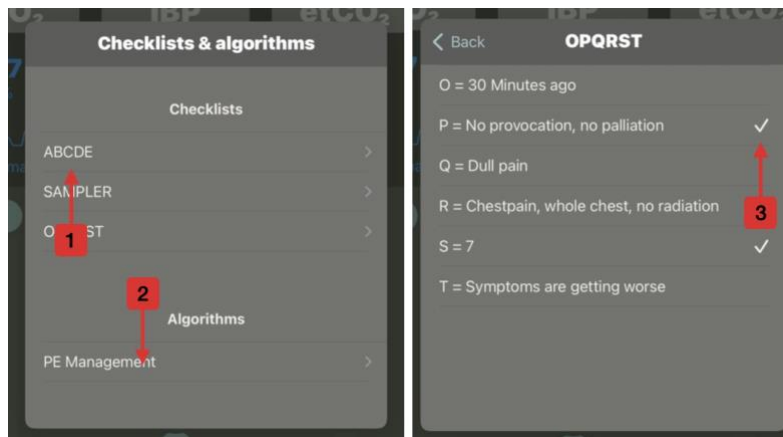
Description (8)

As when selecting the scenario, the scenario information can be called up again by tapping on the icon (8) - for a briefing, for example.



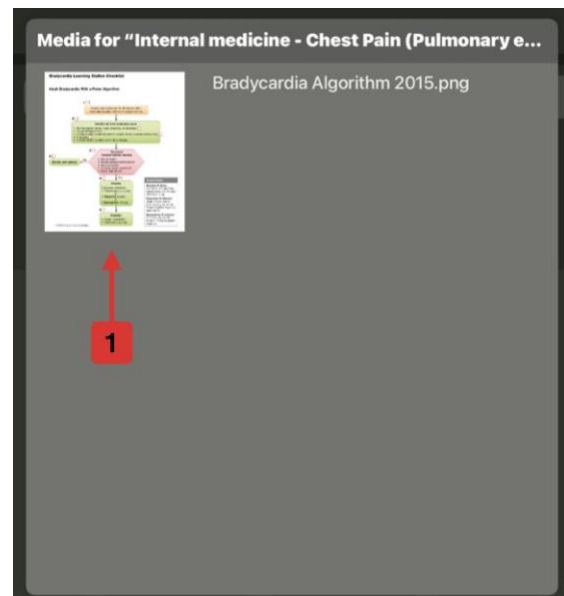
Checklists (9)

Tapping on the corresponding icon opens the window with all checklists (1) and algorithms (2) that have been assigned to the scenario. The subdivision only serves to give the trainer a quick overview. After selecting the desired checklist, the listed items can be checked off by tapping on them (3). Press "Back" to return to the overview and select a new checklist.



Media (10)

Pressing the media icon (10) opens the window with the media associated with the scenario. Sending the media is identical to the procedure for sending normal iPad media. Here, however, the media are directly predefined in the qubeCLOUD and you do not have to search for them. You can send pictures, videos and PDFs as media. To send the media (1) tap on the desired file and send it to the monitor or the qubeASSESS.





SOP and PDF- files

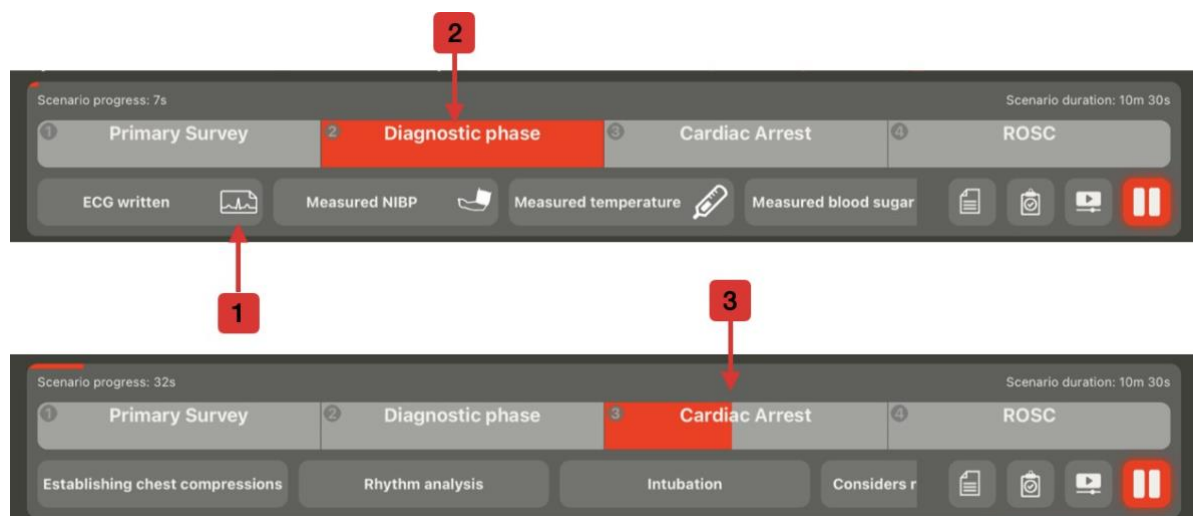
Likewise, PDF files can now be made available in folders on the qubeCLOUD. These are downloaded during synchronization and are then available on the controller. These can be opened by swiping inwards from the outer right edge of the iPad. These files are also available in the Assessment app as well. The files can be deactivated by activating the exam mode under the advanced settings at the bottom left of the controller (see also "Menu and other settings" above). If a scenario is called up, it is possible to define in the cloud which PDFs belong to this scenario. Thus, only these will be displayed.

Scenario Sequence

To make the scenario easy to work through for the trainer, there are various automatisms that guide the trainer through the scenario. In the case of the measures shown with the icon (1), it was already described earlier that these are automatically marked as completed when the measure has been performed on the monitor - in this case an ECG has been written.

The red coloring indicates which phase you are currently in. Phases can be changed manually or automatically. When switching manually, you as the trainer tap the desired phase and confirm that you want to end the current phase and start the new one. When all actions have been marked as done, the trainer will be notified and asked if the new phase should be started. Automatic phase changes are performed with each defibrillation or when the optionally programmed duration of a phase has expired.

The duration and trend are set in the qubeCLOUD and cause physiological transitions to make the simulation more realistic. The trend is represented by filling the initial gray phase red from left to right (3). During this time, vital signs change from the previous phase to the set values in the current phase. The duration ends a phase.





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Online dispute resolution pursuant to Art. 14 (1) ODR Regulation: The European Commission provides a platform for online dispute resolution (OS), which you can find at <http://ec.europa.eu/consumers/odr/>.