

ECG Simulator

Quick Start Guide

The ECG Simulator teaches accurate placement of ECG/EKG leads on the body as well as how to read standard basic rhythms, recognize commonly read errors and how to mitigate them.



Product includes:

- ECG Simulator
- ECG electrode supply pack
- Tablet
- 20 student workbooks
- Basic ECG Rhythm Flashcard Set
- 2 AA alkaline batteries
- Storage case
- 1-year limited warranty
- Online access to curriculum

ECG SIMULATOR

Parts identification:

1. Simulator
2. Power switch
3. Lead port
4. Battery cover
5. USB port
6. Tablet
7. Tablet power cord
8. USB cable
9. 3-lead set
10. 4-lead set
11. 5-lead set
12. 12-lead set
13. Resting EKG electrodes



NOTE: Lead sets are for educational use only, not for use on an ECG/EKG device. Electrodes can be used until they no longer stick to simulator surface.

Set-up instructions:

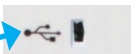
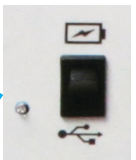
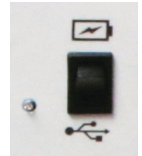
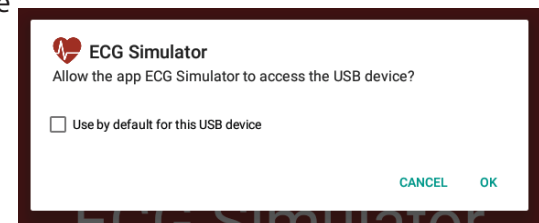
1. Place the simulator on a flat surface.
2. Open the battery cover by pushing the tab towards the center and rotating the cover open. Insert the batteries and replace the cover. When the batteries are getting low, the power light will flash.
3. Make sure the tablet is charged.

NOTE: Plug in the tablet and allow it to charge overnight before the first use.

4. Turn on the tablet.
5. Turn the simulator on. When the torso first turns on, LEDs will illuminate for 0.5 seconds to test functionality before resuming normal operation.

NOTE: Battery power is utilized when the switch is flipped up. When the switch is flipped down, it will use USB power instead. When the batteries are low, the power light will flash and you'll need to switch it to USB power.

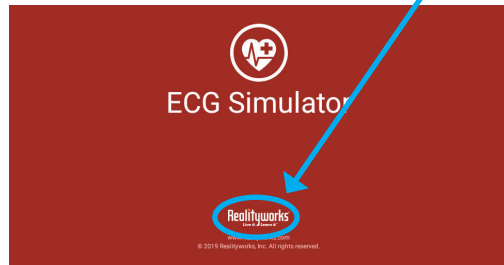
6. Connect the simulator to the tablet via the USB cord.
7. Open the app by tapping the icon on the tablet screen and allow the app one minute to establish the connection.
8. Once connected, you will see a pop-up message on the screen. Tap the checkbox and then tap OK.



Admin instructions:

Access admin main menu

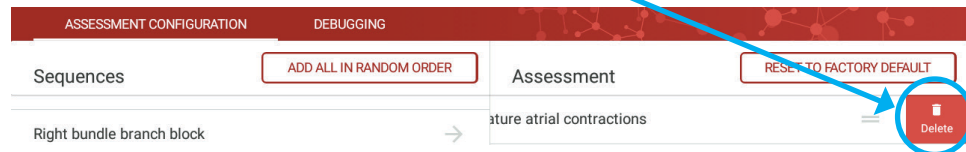
1. Open the ECG Simulator app on the tablet by tapping the icon.
2. When the ECG Simulator app opens, tap the Realityworks logo to access the admin menu.



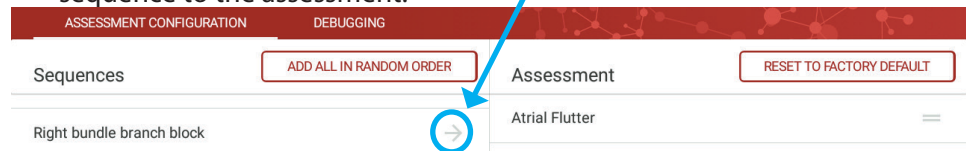
3. If the admin menu does not appear, close the app and try again.

Update rhythm sequences for the assessment

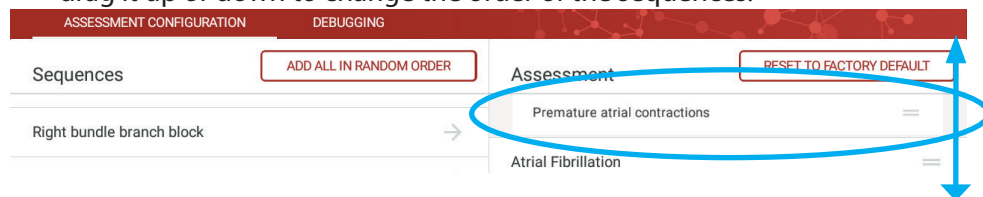
1. The rhythm sequences are separated into two groups: 3, 4, and 5-lead and 12-lead. The 12-lead rhythms have a x12 in front of the rhythm name.
2. Under the assessment header, swipe left and then tap **Delete** to remove a rhythm sequence from the assessment.



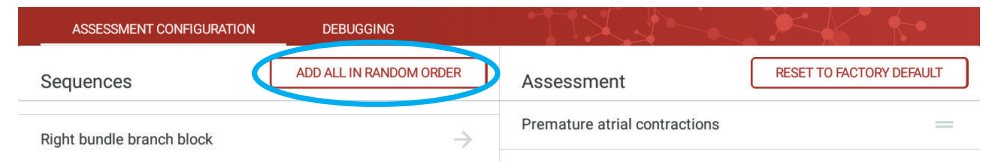
3. Under the sequence header, tap the arrow to add a specific rhythm sequence to the assessment.



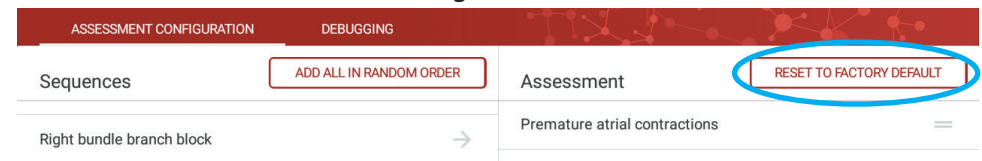
4. Tap and hold a rhythm sequence under the assessment header and then drag it up or down to change the order of the sequences.



5. Tap **ADD ALL IN RANDOM ORDER** to use all of the rhythm sequences in a randomized order for the assessment.



6. Tap **RESET TO FACTORY DEFAULT** to reset the rhythm sequences of the assessment to the default settings.

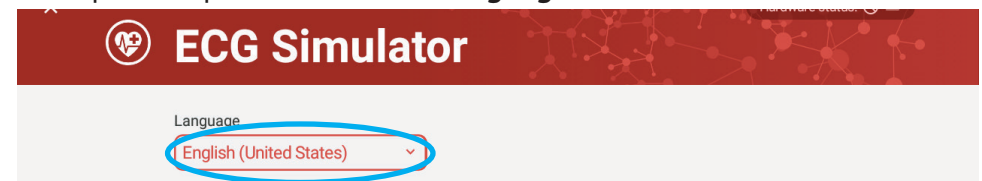


Change the language

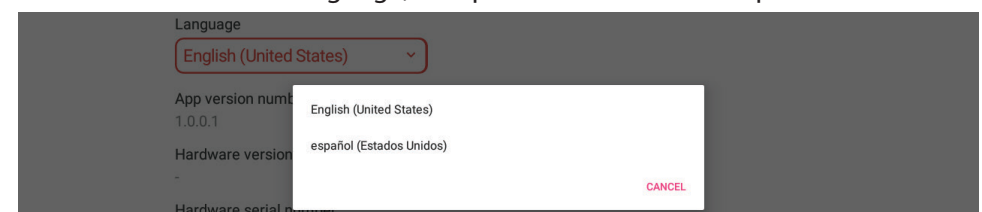
1. Tap the **i** icon in the upper right-hand corner of the screen.



2. Tap the drop-down box under **Language**.



3. Select the desired language, or tap **CANCEL** to exit the option menu.



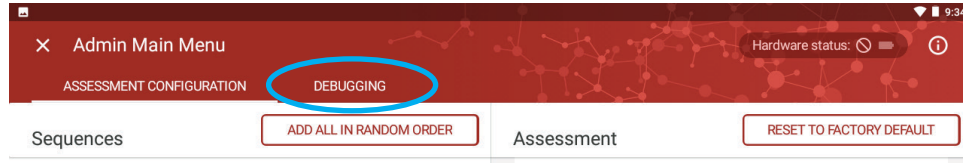
4. Tap the **X** in the upper left-hand corner of the screen to return to the Admin Main Menu.



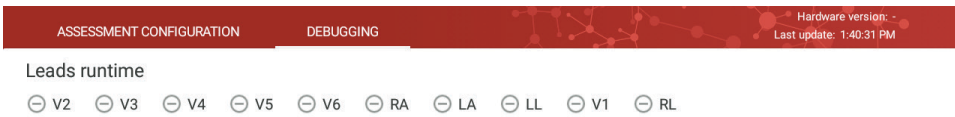
ECG SIMULATOR

Access the DEBUGGING screen

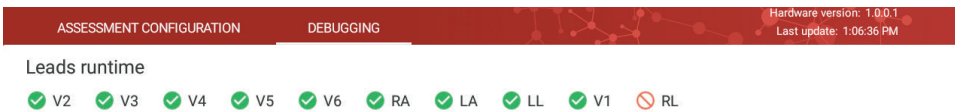
1. Tap **DEBUGGING** near the top of the admin main menu screen.



2. If the circles are gray with a line through them , the leads are not connected or the simulator is not connected to the tablet.



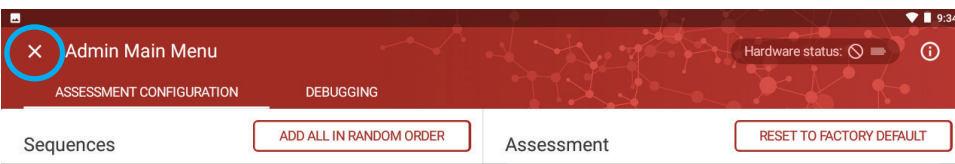
3. If a circle is red with a diagonal line through it , the lead is in the wrong position on the simulator.



4. The green circle with a checkmark  shows that the lead is in the correct position and connected correctly.
5. For further troubleshooting, contact Realityworks Product Support team.

Exit admin main menu

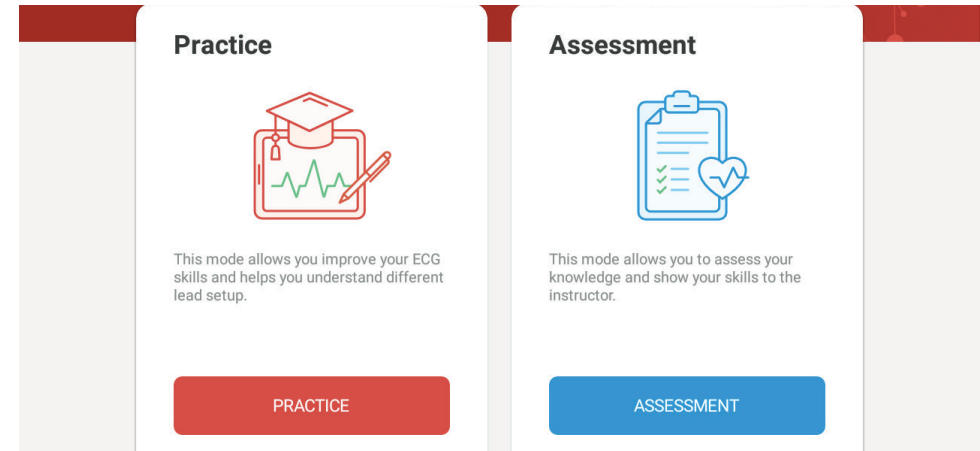
1. To exit the admin main menu and access the student menu, tap the **X** at the upper left corner of the screen next to Admin Main Menu.



Student instructions:

Access student menu

1. Open the ECG Simulator app on the tablet by clicking the icon. 
2. The Student Menu should appear showing the following screen:

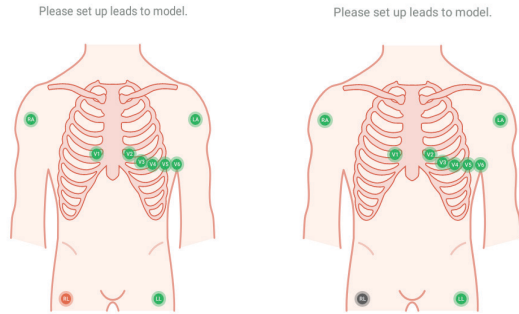


Practice mode

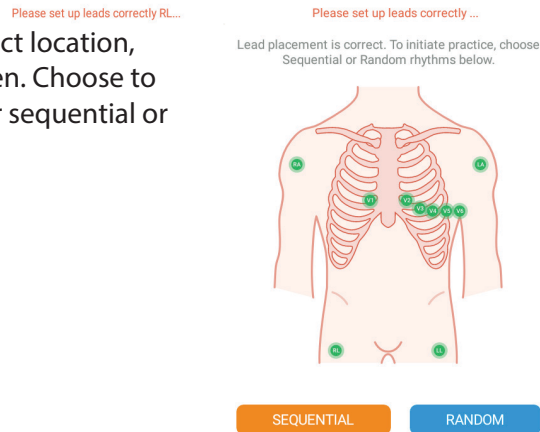
1. Tap the **PRACTICE** button to enter practice mode. 
2. Decide which lead setup you will be performing and connect the appropriate leads to the simulator.
3. Tap the **START** button on the lead setup you are practicing.

ECG SIMULATOR

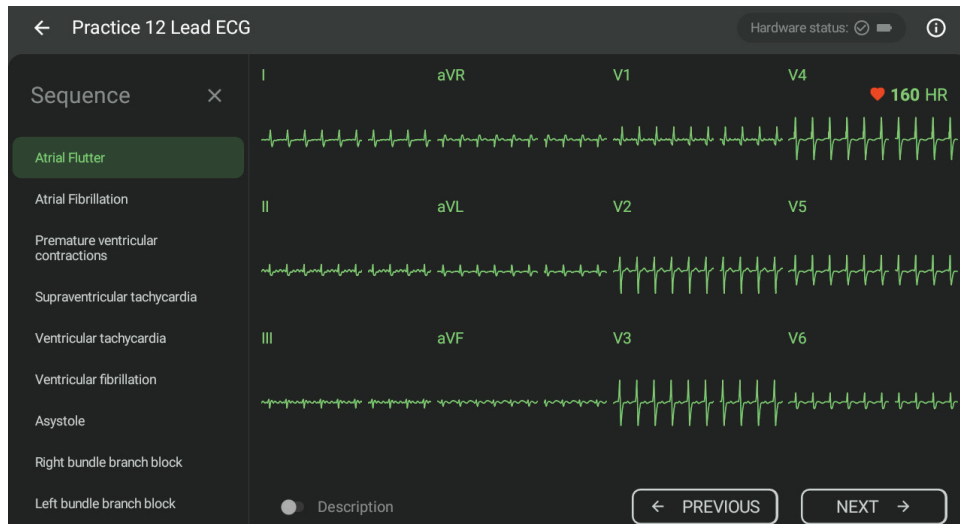
- If a lead is in the wrong location, the symbol on the screen will be red. If the lead is not on the simulator, the symbol for that lead will be gray.



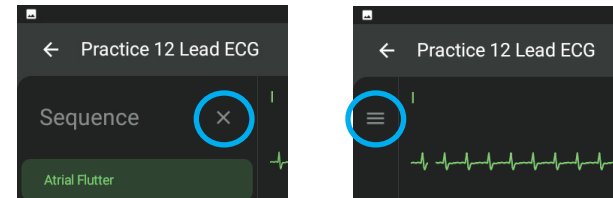
- Once all leads are in the correct location, all lead symbols will turn green. Choose to practice the rhythms in either sequential or random order.



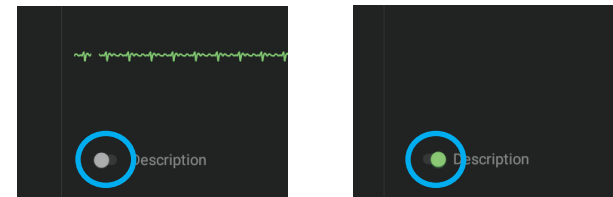
- The default practice mode view below shows the rhythm on the main screen and the sequence list on the left-hand side.



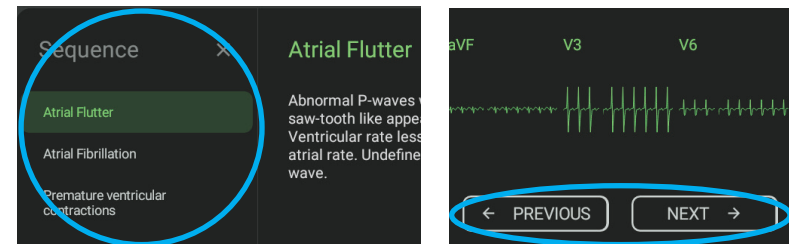
- Tap the **X** next to **Sequence** to close the sequence list. To reopen the sequence list, tap the three bars on the upper left-hand of the screen.



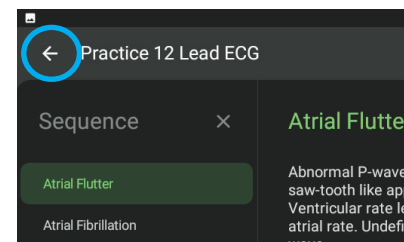
- Tap the slider next to "Description" to open or close the description window.



- To navigate between sequences, either tap on a new sequence from the sequence list on the left-hand side of the screen or use the **PREVIOUS** and **NEXT** buttons on the bottom right-hand side of the screen.



- To exit practice mode, tap the left arrow in the upper left-hand corner of the screen.



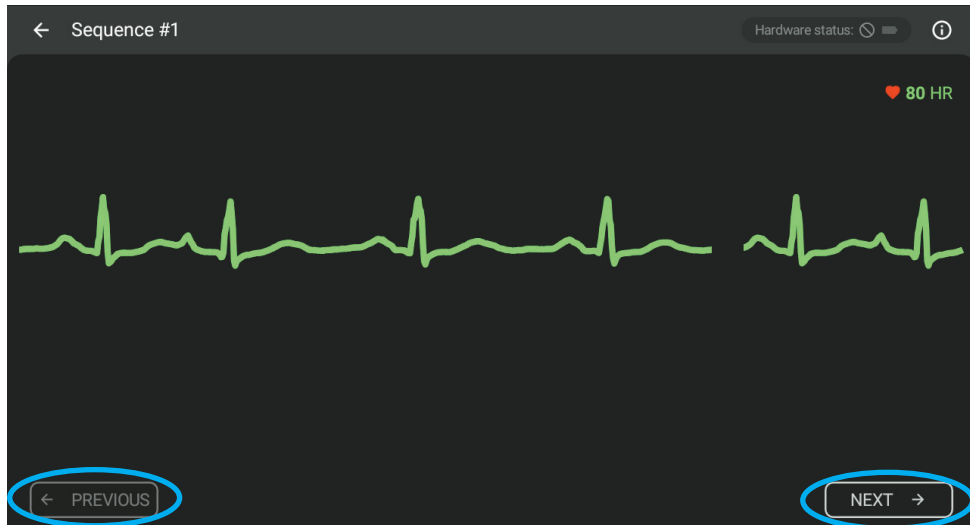
ECG SIMULATOR

Assessment mode

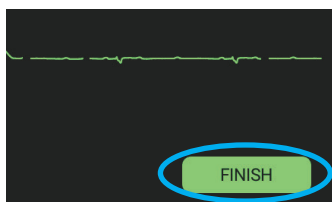
1. Tap the **ASSESSMENT** button to enter assessment mode.



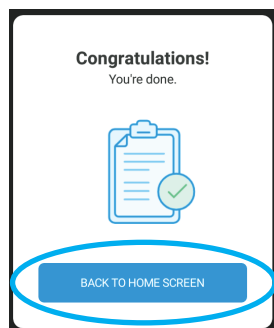
2. Navigate through the sequences using the **PREVIOUS** and **NEXT** buttons.



3. Tap **FINISH** once you have completed identifying all of the sequences.

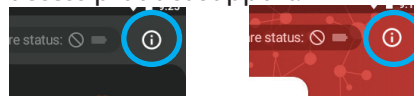


4. Tap **BACK TO HOME SCREEN** to exit the assessment mode.



Information and product support

1. Tap on the "i" icon in the upper right-hand corner of the screen at any time to access app and product support information. See the Admin Main Menu instructions for instructions on how to change the language and access product support.



2. Have students have clean hands before use.
3. Do not mark the simulator with markers or other tools.
4. Palpating incorrectly with fingernails may damage the simulator.
5. The simulator is designed for palpating rib landmarks to place the v1-v6 electrodes properly.
6. The ECG Simulator is screen casting compatible. See your IT department for hardware and connections.

Cleaning instructions:

1. Use 70% isopropyl alcohol on a soft cloth or paper towel to remove adhesive residue from neoprene and other surfaces.

NOTE: Do not use water on the simulator

Storage and supply instructions:

1. **FRAGILE:** Do not place items on top of the simulator as it may cause permanent damage to the simulator material. Lean or lay the simulator so the face (painted side) of torso is facing upward or away from surfaces so the neoprene does not become damaged.
2. Do not leave electrodes on the torso more than 1 hour at a time.
3. It is recommended to use electrodes supplied by Realityworks (3M 2330 series), as the adhesive will not damage the simulator surface.
4. If using electrodes not supplied by Realityworks, it is recommended to try adhesion on a non-critical area to ensure the adhesion will not damage the simulator surface.

NEED MORE HELP?

Additional help and information

Online Product Support

We're here to help! Our online Product Support features video tutorials, downloadable documents, frequently asked questions, and product notices, all of which make it easy for you to get support for products, software and more, day or night. Find our online product support area here: www.realityworks.com/knowledge-base/

Online Store

Supplies, accessories, select simulators, curriculum, and more are available for purchase from our online store 24 hours a day!

Find our online store here: www.realityworks.com/