

SSH Patient quick-start guide:

Package Contents:

- 1 SynDaver Patient
- 1 table (with castors)
- 1 Green ECS Case
- 1 Anatomy Lab Manual
- 1 electronics control box with charging unit
- 1 small tablet with charger
- 1 large tablet with charger and mounting arm
- 1 bottle of algaecide
- 1 Circulation Pump

Instructions:

On arrival, unpack the Patient and storage tank. Place the Patient in the tank with all the tube and wire ends outside of the tank. Fill the tank ensuring the air control harness and wire ends remain out of the water. Unpack the components from inside the sump, which is inside the control box.



Unpack and assemble the table.



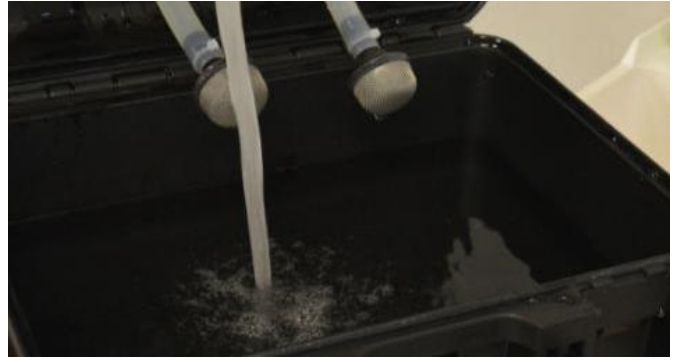
Connect the tablet and the control box to their charging cables and plug in overnight to ensure full charge before operation. The power switch on the control box must be down, in the off position, to charge.



Just before operating, remove the sump from the control box by releasing the strap and the two quick connect tubes.



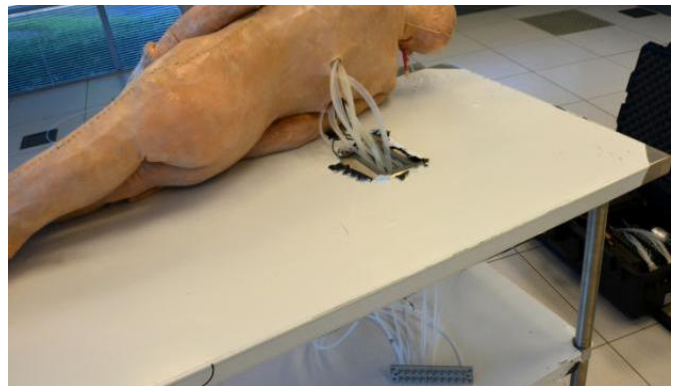
Use care not to damage the control board while the control box is open. Fill the sump with water or blood analog.



Close the lid and ensure it is well sealed. Replace the sump in the control box and refasten the strap and the two water lines.



Place the Patient on the table upon its side ensuring the opening in the table is unobscured. Put the air control harness, the two heart tubes and the wire harness through the opening in the table.



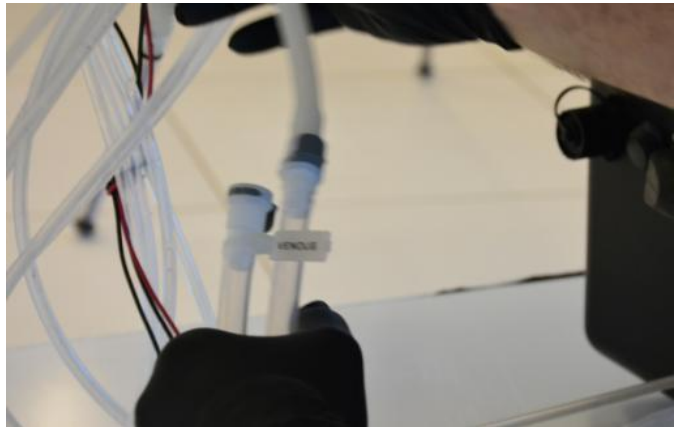
Place the closed control box under the table. Connect the air control harness to the front of the control box as shown and tighten the three Allen screws.



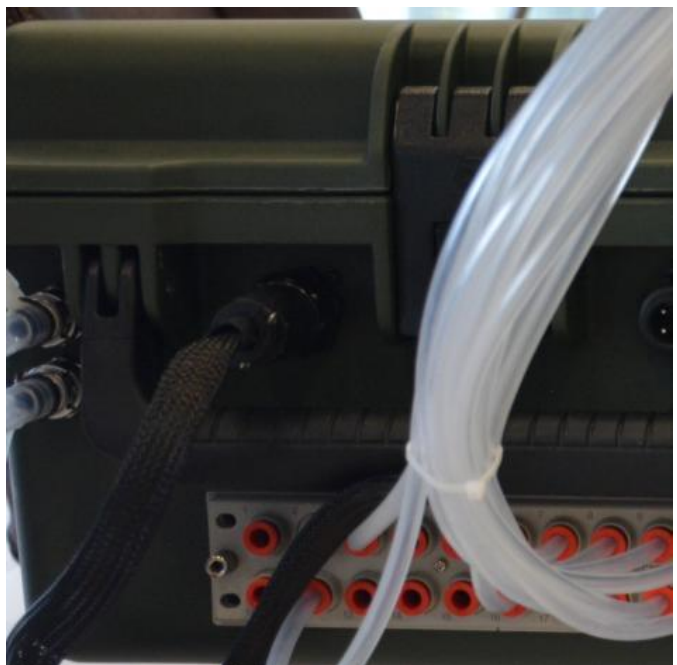
Connect the heart pump lines as shown, pump in-to-pump in and pump out-to-pump out on the control box side,



Venous-to-venous and arterial-to-arterial on the body side.



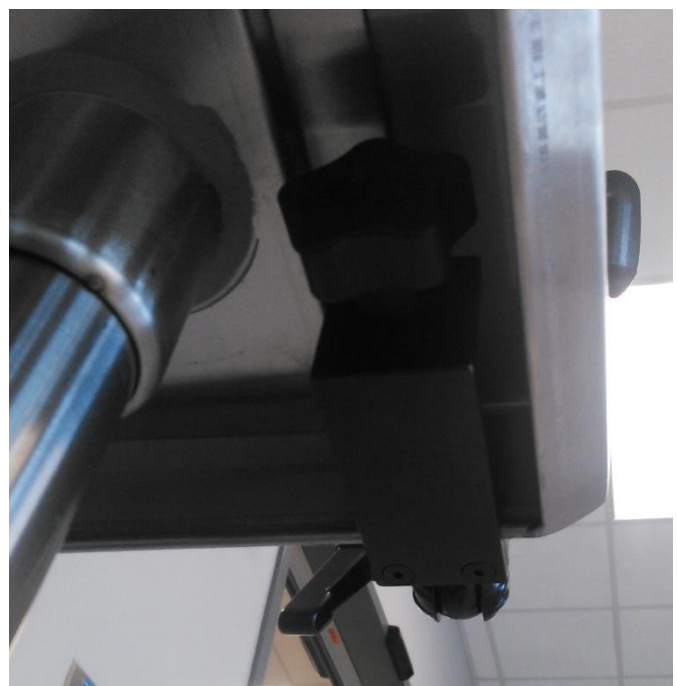
Plug the wire harness into the control box.



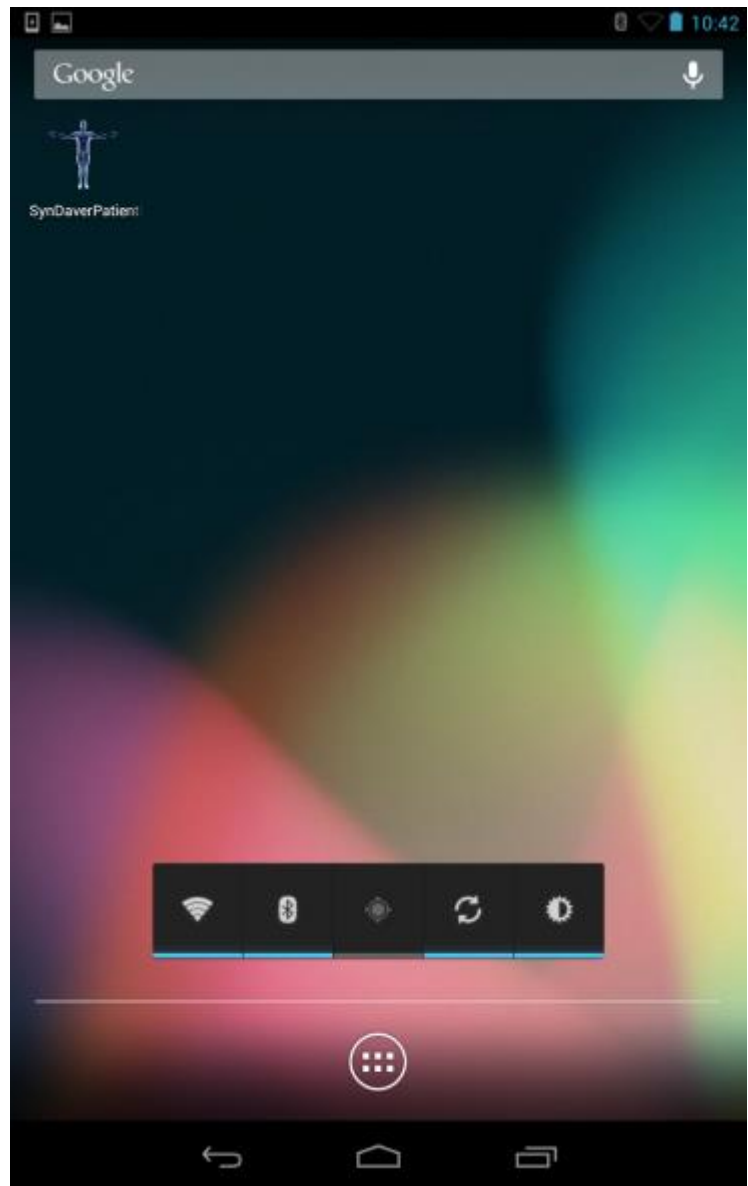
Turn on the control box.



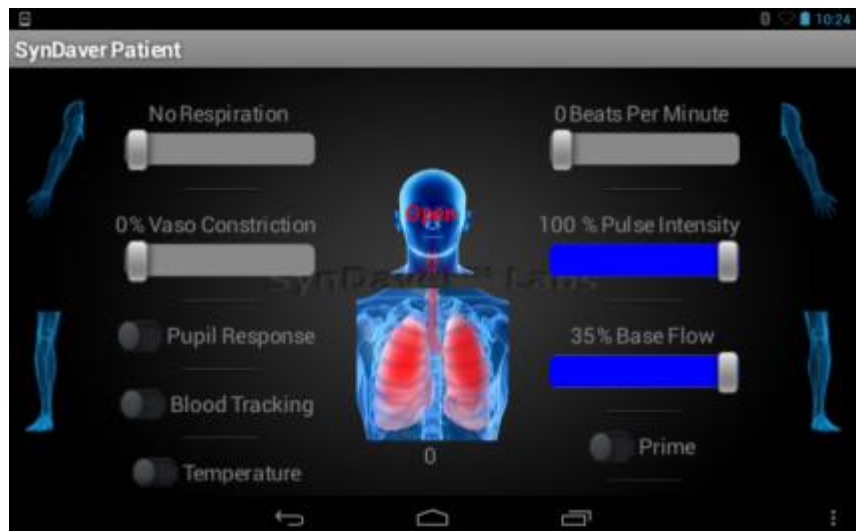
The mounting arm for the larger display tablet may be clamped to the end edge of the patient table, a stretcher or a nearby instrument table.



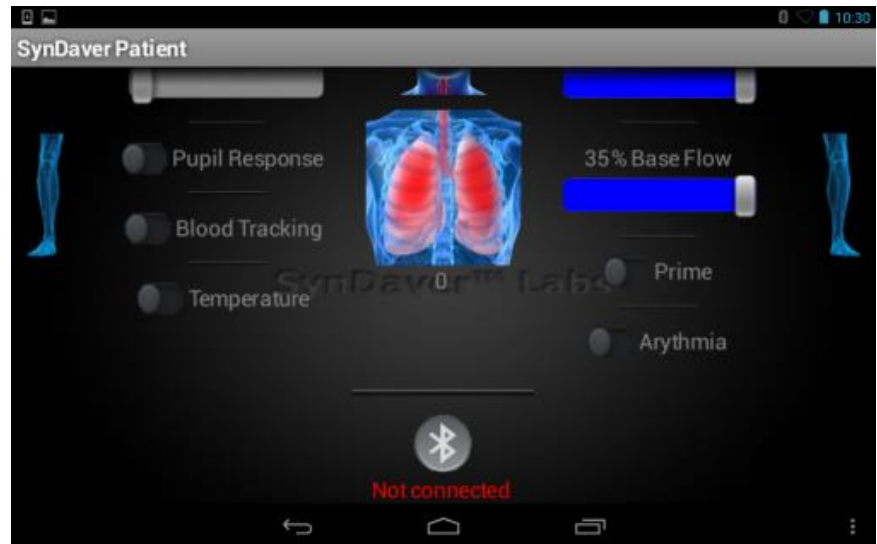
Turn on the smaller tablet and press the Patient icon.



The program will open to the control screen.

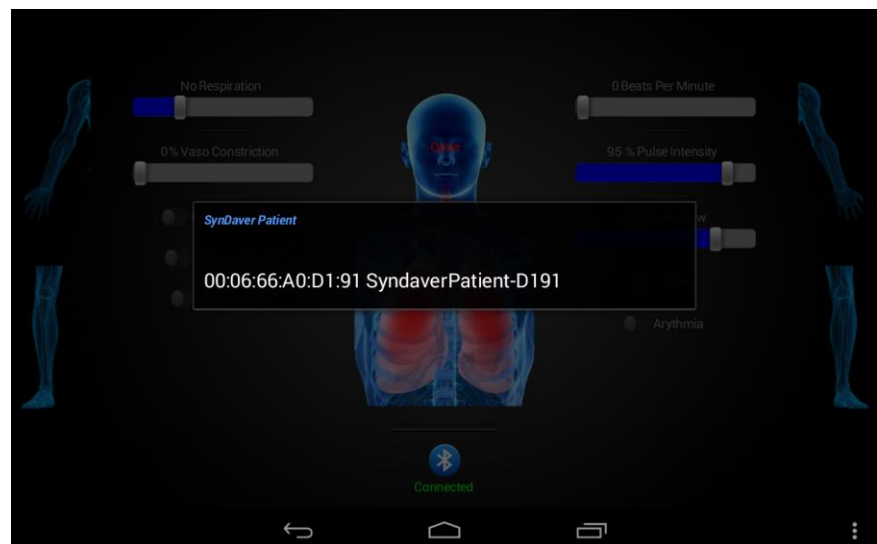


Press the Bluetooth icon; this will prompt you to connect to a Bluetooth device.

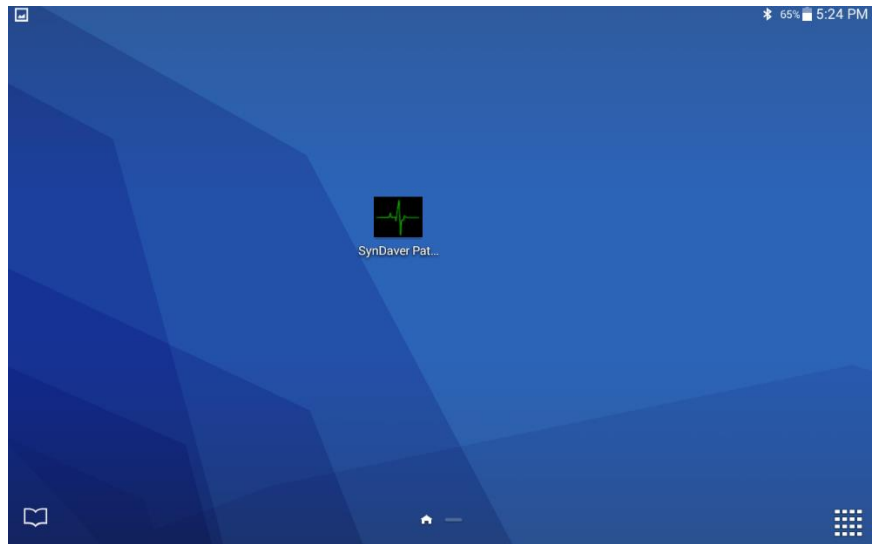


Press to select the SynDaver Patient

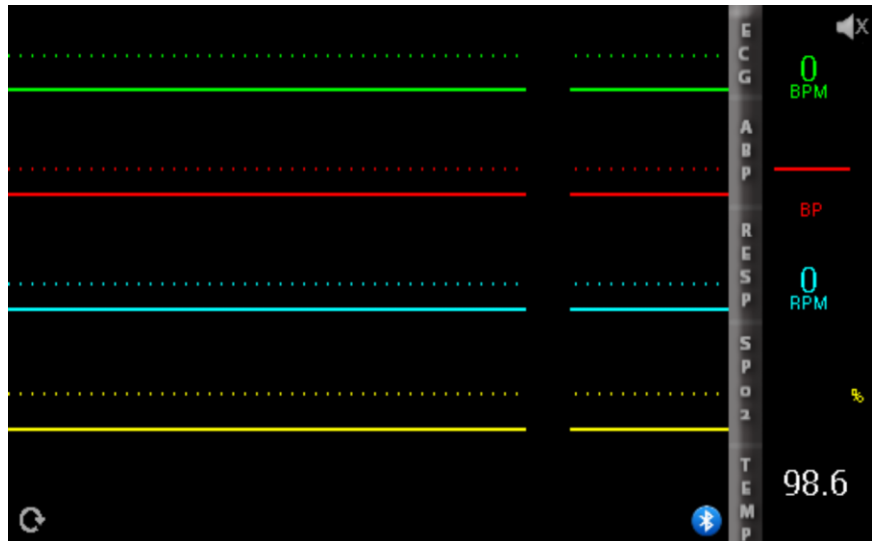
When successfully connected to the Patient the text below the Bluetooth icon will turn from "Not Connected" to "Connected"



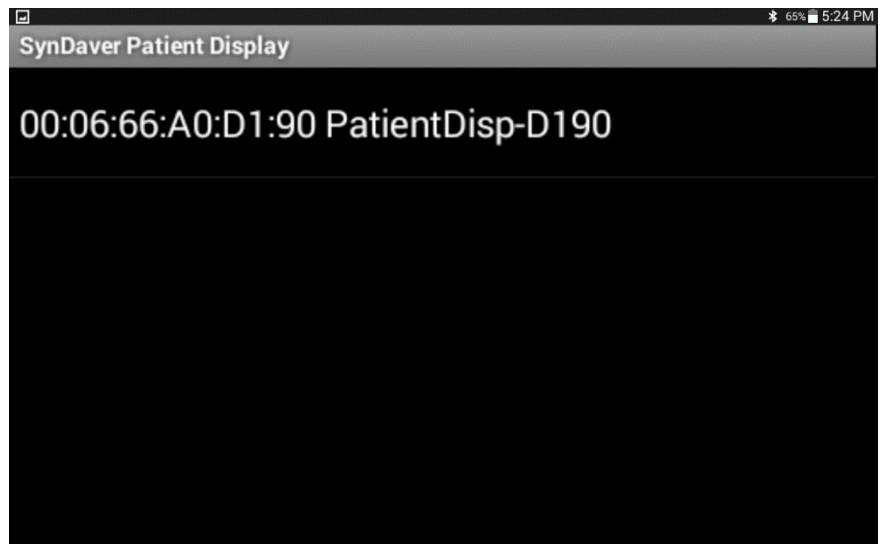
Turn on the large tablet and press the patient display icon



In the bottom right hand corner, press the Bluetooth icon



Press to select the PatientDisp

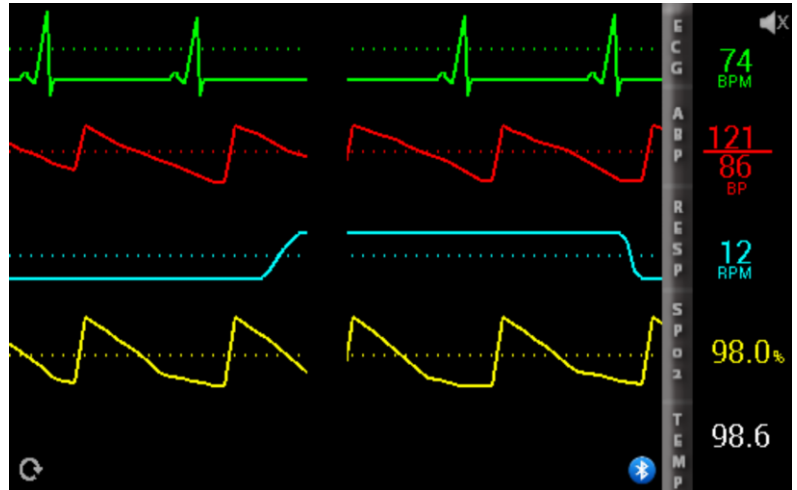


The display tablet will reflect any changes to the patient from the options on the smaller control tablet. This includes the automatic changes from the physiology engine.

The tablet may be muted by pressing the speaker icon in the upper right hand corner.

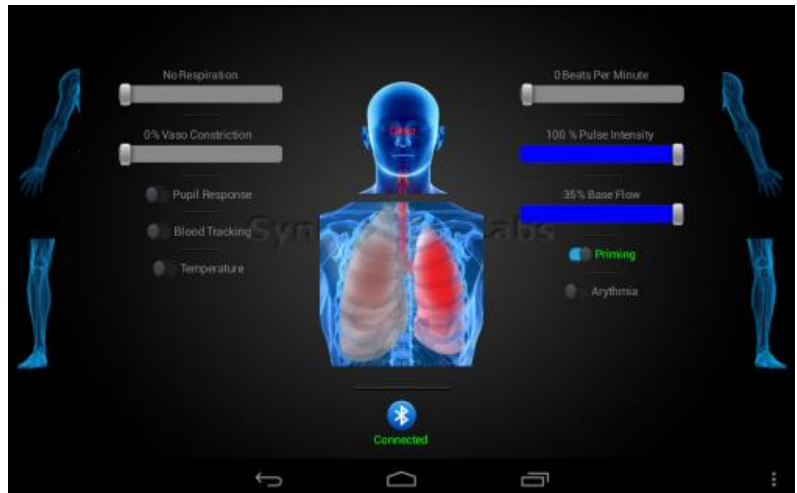
The refresh icon resets the display; it is located in the lower left hand corner.

The temperature will toggle between Fahrenheit and Celsius by pressing on the temp number display.

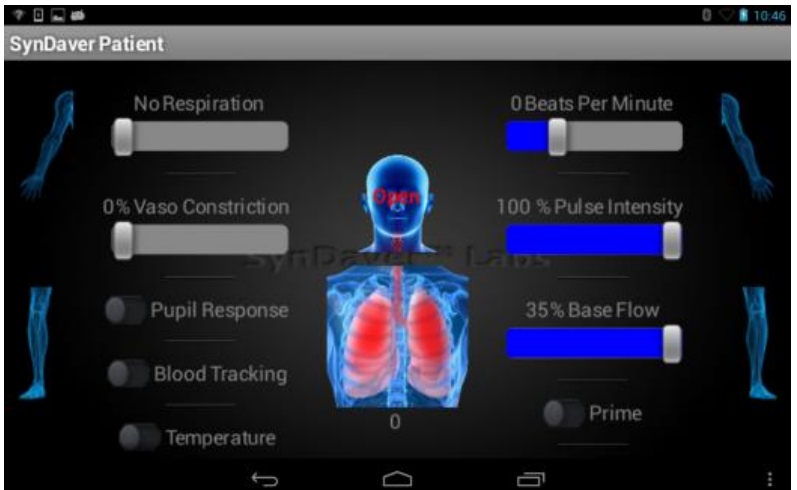


The prime button may be pressed to charge the system with fluid before operation. Once the venous discharge line is full of water press again to turn it off.

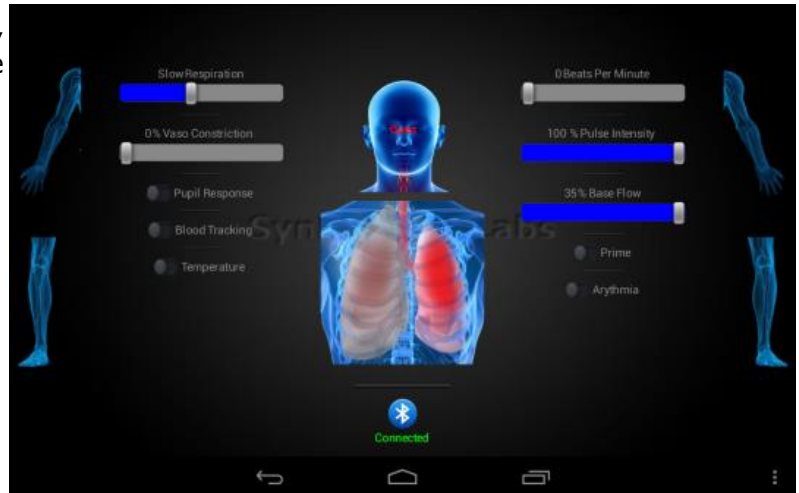
To start the heart pump, move the slider to select the pulse.



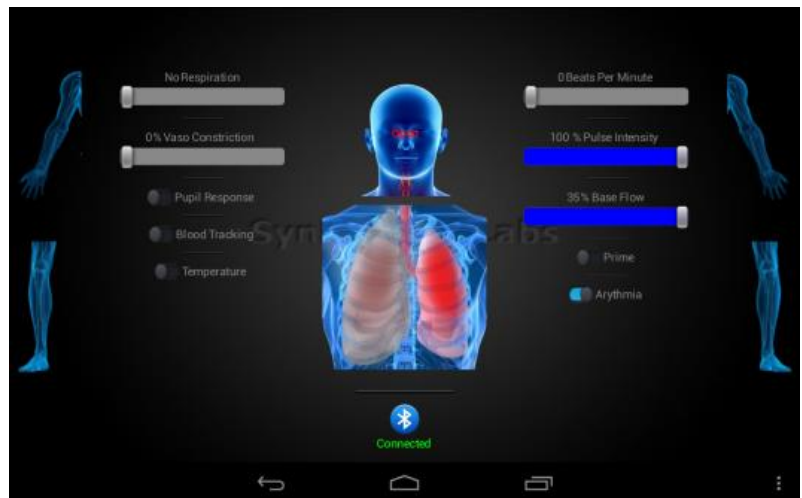
The pulse intensity is analogous to systolic pressure and base flow is analogous to diastolic pressure. These sliders may be operated independently to adjust the pulse pressure. By default, both sliders are at the maximum.



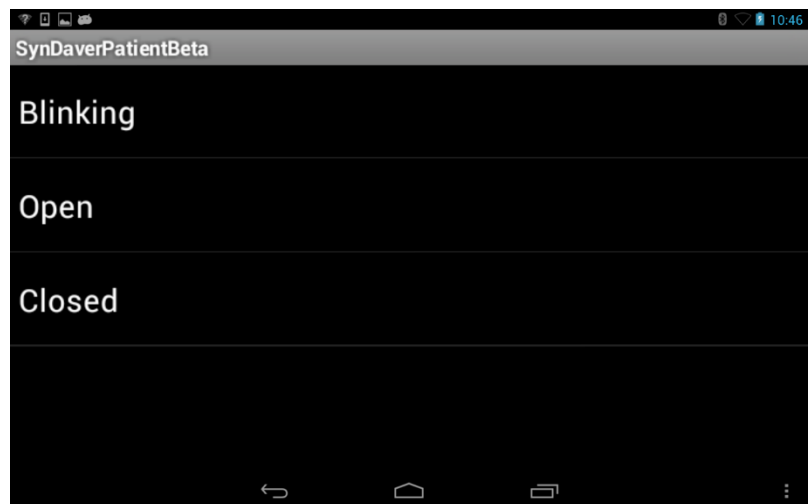
The respiration may be set to rapid, medium, slow and off by moving the "respiration" slider.



Each lung may be isolated to represent a collapsed lung by pressing on the lung icon you wish to deactivate. Once pressed, the icon will turn grey. Press again to restore function.



The eyelids may be set to open, closed or blinking by pressing the head and selecting the option desired from the list.



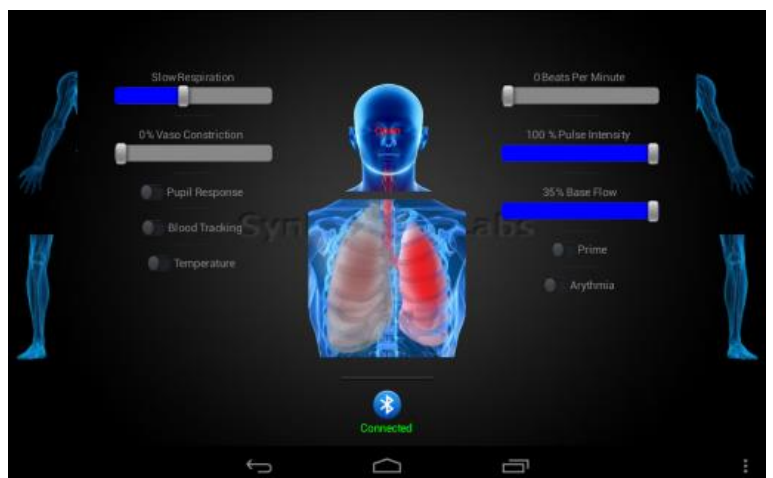
To operate the arms and legs, press on the desired limb once to activate the motion then once again to return it to the resting position.



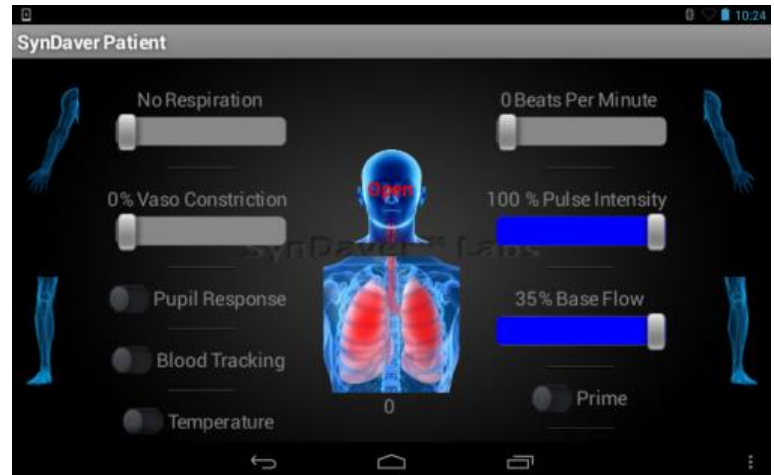
Pupil response, arrhythmia and forehead temperature control are all functions of the blood loss physiology engine, which may be activated from the home screen independently of the physiology engine. By default, they are all off.



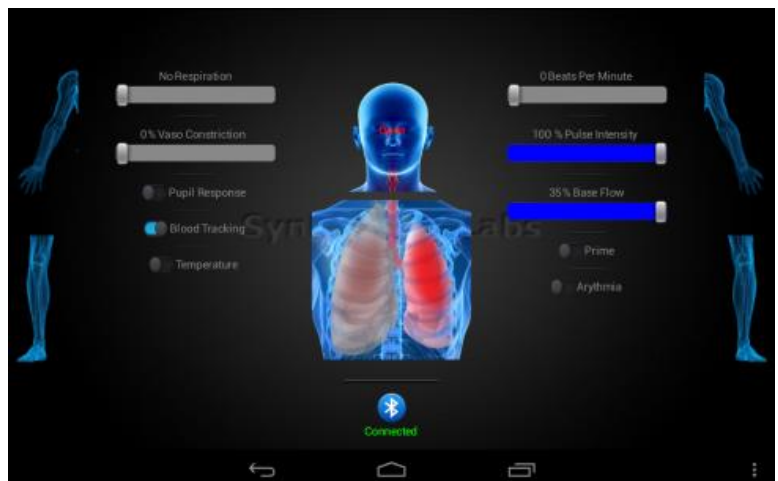
The percentage of vasoconstriction in the arms and legs may be adjusted with the slider. **BE ADVISED: restricting the vessels while at a high rate of flow may damage the vascular system.**



Selecting the Blood Tracking button will activate the physiology engine. This tracks and calculates the amount of "blood" lost and adjusts the heart rate, systolic, diastolic and pulse pressures, pupil response, vasoconstriction, thermal output and heart rhythm as the Patient loses "blood".



Interactions to stop the loss on the Patient will stabilize the engine at the current stage of hypovolemia. Pressing the button again ends the scenario and the patient returns to the prior settings.



To return the Patient to storage, place a catch basin below the heart pump lines and disconnect the lines from the Patient and connect the venous to the arterial.

If a fluid other than water has been used in the system, empty and rinse out the sump then fill with water. Re-connect only the arterial line to the body and press the prime button until the fluid discharging from the body to the catch basin is clear. Ensure the catch basin is at least large enough to hold a gallon of water. This will flush the body clean.



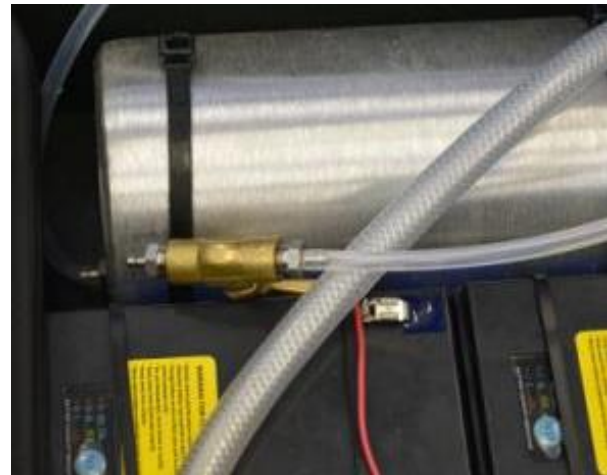
Once the water is clear, press the prime button again to stop the pump, connect the venous to the arterial fittings on the body to each other and the venous to the arterial fittings on the pump to each other. Press the prime button again to flush the venous side clear for 10 seconds. Turn off the control box and disconnect the sump, empty the sump and rinse it again. Ensure it is fully dry before returning to the control box.



While the case is open, direct the pressure bleed off nozzle into the catch basin and depress the lever. This will drain any accumulated water from the compressor. **Be advised, the fluid is at high pressure. Ensure the nozzle is pointed in a safe direction before activating.**



Remove the wire plug, air control harness and heart pump lines from the control box. Roll the Patient carefully onto its side and feed the tubes and wires through the table. Transfer the patient to the storage tank and ensure the wire plug and air control harness end are not submerged in the tank.



SynDaver Patient Storage

When the SynDaver Patient is not in use, it must be stored submerged in water with the wire plug and air control harness outside of the tank clear of the water. If the body floats, exposed parts may be covered with soaked towels. To avoid contamination from the air, changing the towels daily is recommended.

It is important to note that the stainless steel table is designed to support the body while in use only. It cannot accommodate the weight of the tank when full. When choosing a storage surface (including floors), ensure that is rated to accommodate the combined weight of the full tank and body.

Please refer to the SynDaver Care and Storage Guide for detailed water treatment instructions.