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INTRODUCTION

The Califia Simulator system can simulate a patient before, during and after cardiopulmonary bypass for open heart surgery or for a long-term support with extracorporeal membrane oxygenation (ECMO).

Among the more significant features of the Califia simulator is its wide range of automatic, physiological responses.

It is intended both as a teaching tool, and as a tool for evaluating the performance of a clinician in clinical simulation case.

COMPUTER REQUIREMENTS FOR CALIFIA SIMULATION

The list below gives the optimum computer hardware requirements for running the simulation system.

- Processor (CPU): Intel Core i7 or higher
- Minimum Processor Speed 2.5 GHz
- Memory 16 GB
- Operating System Windows 10 (64-bit)
- Graphics Card 3D-rendering-capable such as NVIDIA GeForce RTX2060
- Video RAM 6GB or more
- Disk Space requirement 10 GB
- Instructor's Screen Resolution 1920 x 1080pixels
- Touchscreen: Yes
- Video output ports: HDMI
- Number of USB ports: 2
- Ethernet ports: 1 wired & 1 wireless

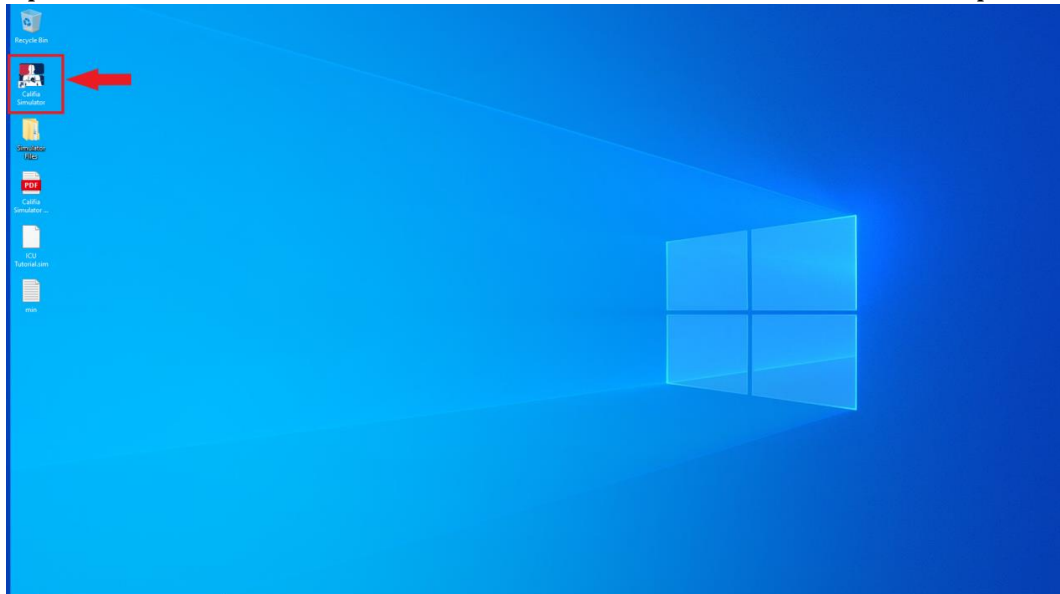
INSTALLATION OF CALIFIA SIMULATOR

Complete the following steps in order to install the Califia Simulator Program.

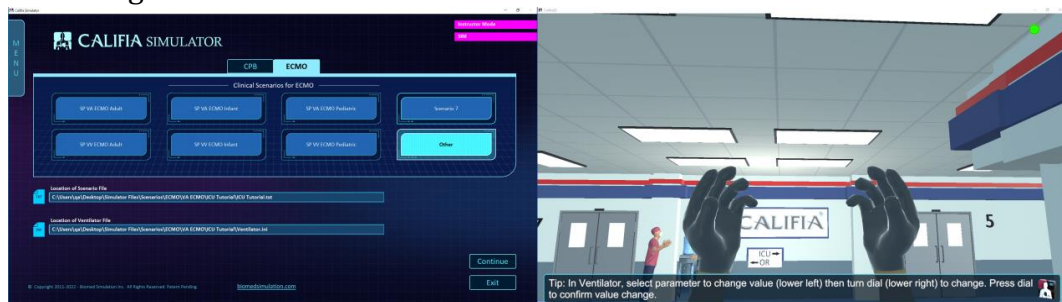
- Log on as an administrator or as a user with administrator privileges.
- For the best installation experience, it is strongly recommended that the computer's antivirus program is disabled.
- Go to Settings > Apps > Remove Califia Simulator to uninstall existing software if applicable.
- Locate and run the Setup.exe file for the new installation.
- Follow the instructions on the screen to install the Califia Simulator– default settings are strongly recommended.
- After installation, enable any virus detection programs that were previously disabled.

START THE CALIFIA SIMULATOR

- Open the Califia Simulator. Click on Califia Simulator icon on the desktop.



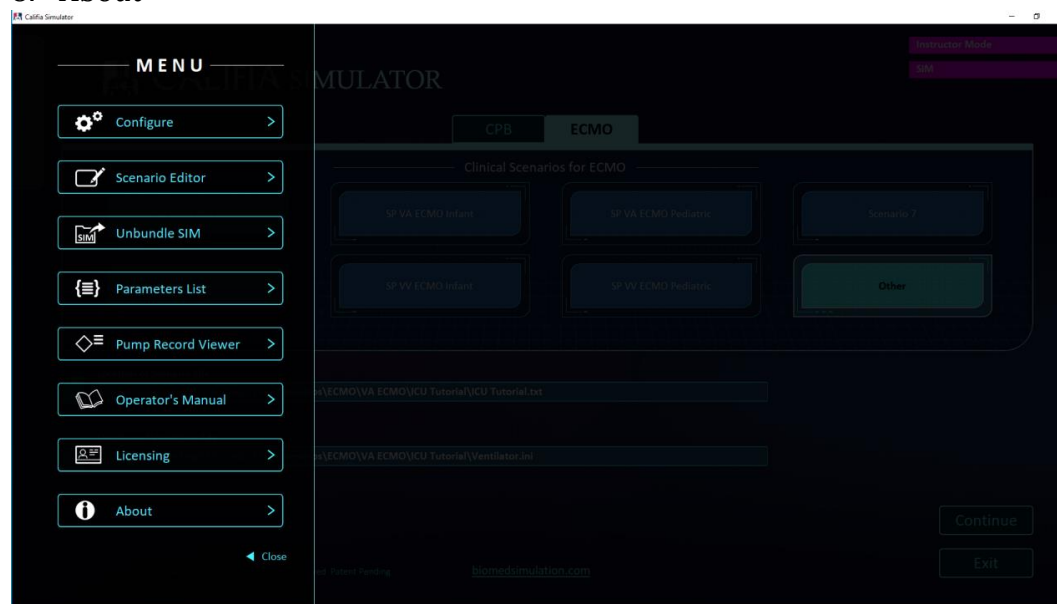
- Following screen is visible to the user on start of the Califia Simulator



Main screen when user enters into the application

MENU

1. Configure
 - Lab Report
 - Pump Record
 - Units, Characters
 - Printer
 - Work Directory
 - Data Comm
2. Scenario Editor
3. Unbundle SIM
4. Parameters List
5. Pump Record Viewer
6. Operator's Manual
7. Licensing
8. About



Menu options on the main screen

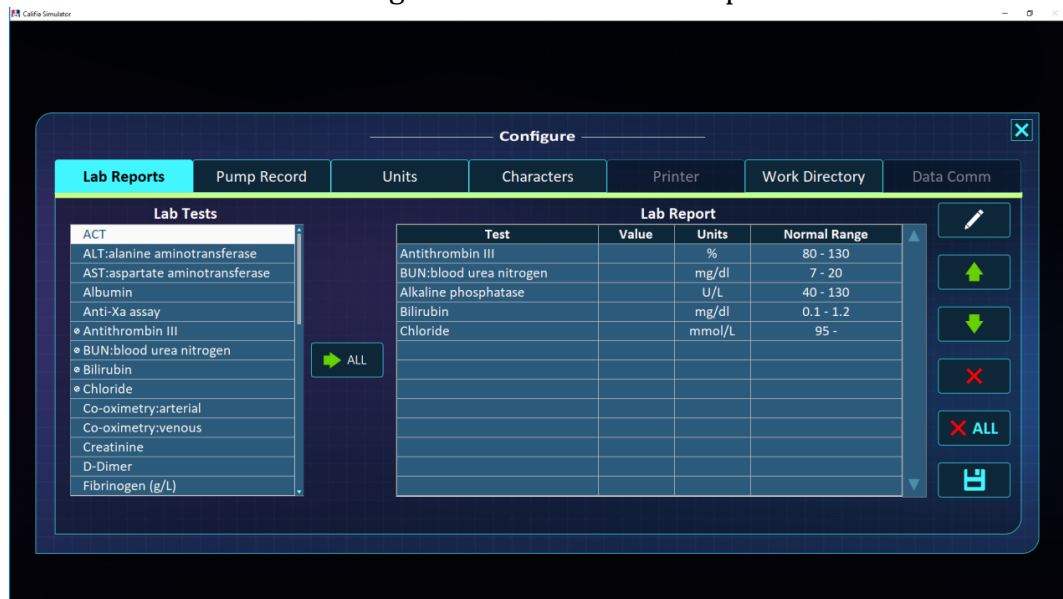
1. Configure

User can configure some options by selecting the “Configure” button.

a. Lab Report

- Use ‘Click and Drag’ option from the “Lab Tests” table in order to generate the customized lab reports.
- Drop your files into the “Test” table.
- The “Unit” and “Normal Range” columns are automatically filled after the drag and drop action.

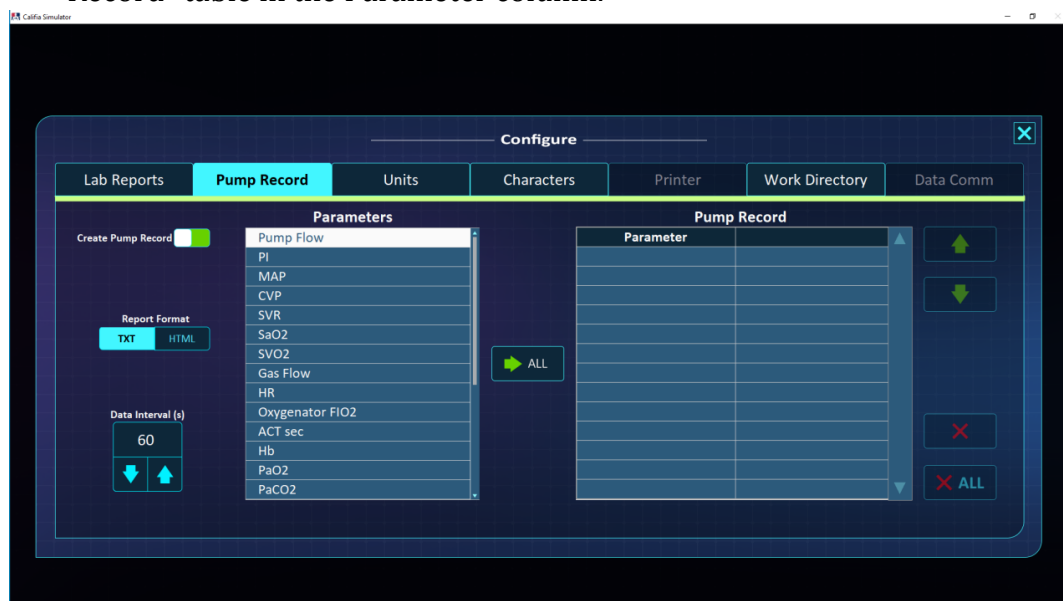
- “Value” column will not be auto filled.
- Save” button at lower right is used to save the report.



Lab Reports

b. Pump Record

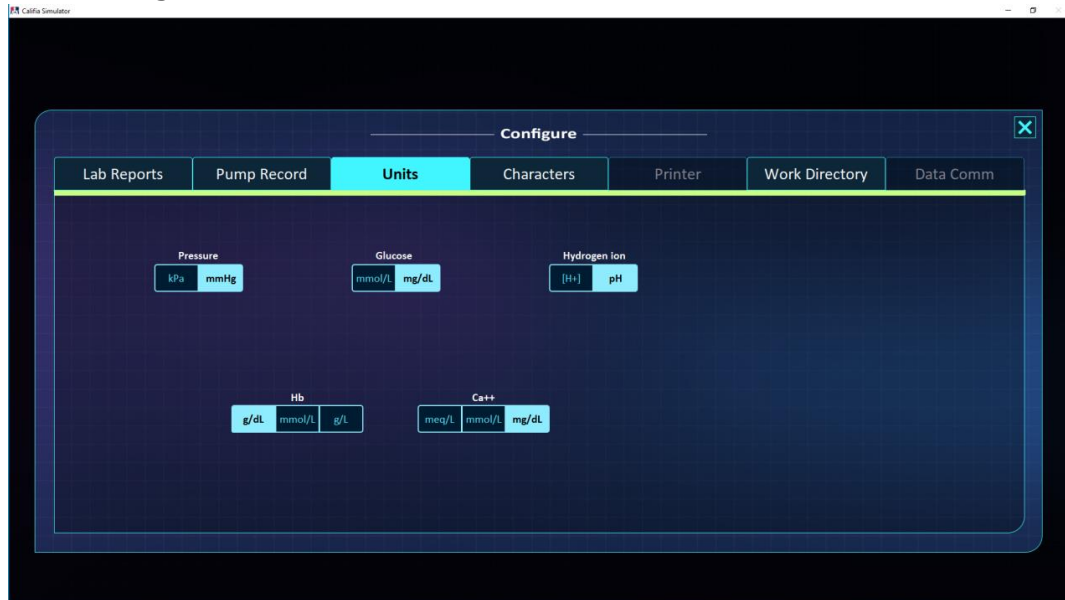
- Pump record enables a continuous recording of the selected parameters during simulation.
- Parameters available for charting can be found in the “Parameters” table on the left.
- Individual parameters can be dragged and dropped into the “Pump Record” table in the Parameter column.



Pump record

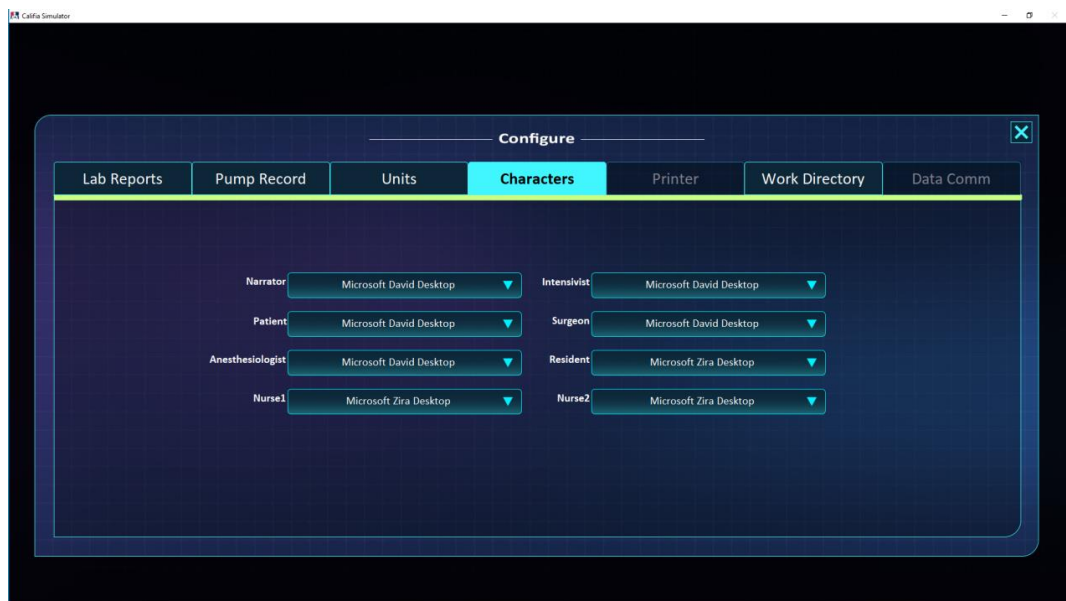
c. Units

Units used for reporting various parameters are applied in this tab.
 Note- System maintains the user preference of selections even after shutting down the simulator.



d. Characters

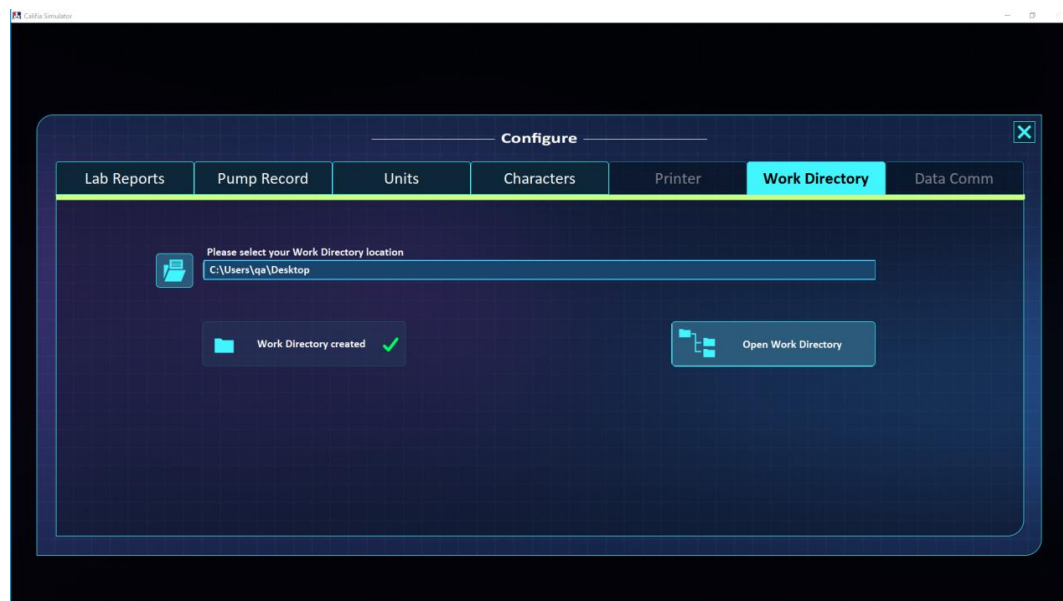
User can change the voice for various characters.
 Note- System maintains the user preference of selections even after shutting down the simulator.



e. Printer

Print function

f. Work Directory



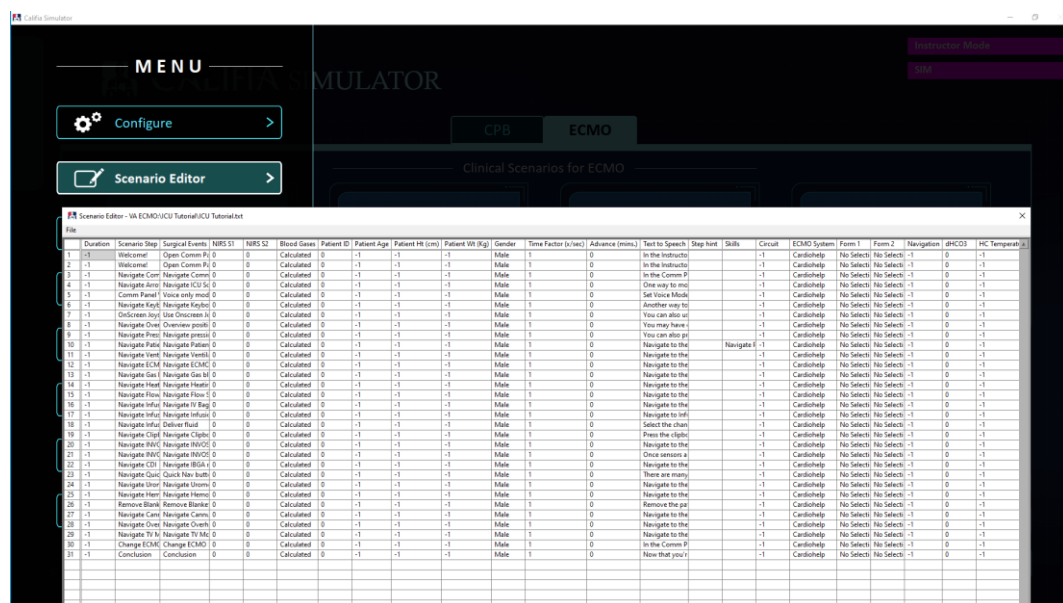
Work Directory

g. Data Comm

Need more info

2. Scenario Editor

This scenario editor can handle more than 50 physiological and monitoring variables displayed in rows and columns.



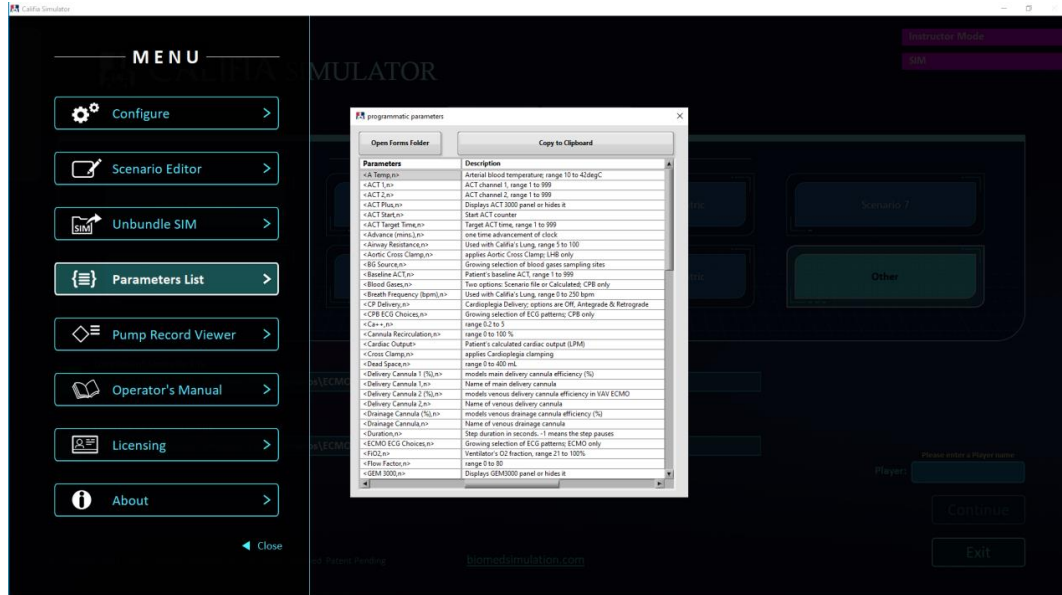
Duration	Scenario Step	Surgical Events	NIRS S1	NIRS S2	Blood Gases	Patient ID	Patient Age	Patient Ht (cm)	Patient Wt (kg)	Gender	Time Factor (x/sec)	Advance (mm)	Text to Speech	Step Int	Skills	Circuit	ECMO System	Pump 1	Pump 2	Navigation	dHCO3	HC Temperature
1	1	Welcome	Open Comm PJ	0	Calculated	0	-1	-1	-1	Male	1	0	In the Intro	-1	Cardiology	No Select	No Select	-1	0	-1		
2	-1	Welcome	Open Comm PJ	0	Calculated	0	-1	-1	-1	Male	1	0	In the Intro	-1	Cardiology	No Select	No Select	-1	0	-1		
3	-1	Navigate	Comm	0	Calculated	0	-1	-1	-1	Male	1	0	In the Comm PJ	-1	Cardiology	No Select	No Select	-1	0	-1		
4	-1	Navigate	Comm	0	Calculated	0	-1	-1	-1	Male	1	0	One way to mod	-1	Cardiology	No Select	No Select	-1	0	-1		
5	-1	Comm Panel	Voice only mod	0	Calculated	0	-1	-1	-1	Male	1	0	Self Voice Mode	-1	Cardiology	No Select	No Select	-1	0	-1		
6	-1	Navigate	Key	0	Calculated	0	-1	-1	-1	Male	1	0	Another way to	-1	Cardiology	No Select	No Select	-1	0	-1		
7	-1	OnScreen Joy	Use OnScreen	0	Calculated	0	-1	-1	-1	Male	1	0	You can also use	-1	Cardiology	No Select	No Select	-1	0	-1		
8	-1	Navigate	Over	0	Calculated	0	-1	-1	-1	Male	1	0	You may have	-1	Cardiology	No Select	No Select	-1	0	-1		
9	-1	Navigate	Press	0	Calculated	0	-1	-1	-1	Male	1	0	You can also get	-1	Cardiology	No Select	No Select	-1	0	-1		
10	-1	Navigate	Pat	0	Calculated	0	-1	-1	-1	Male	1	0	Navigate to the	-1	Cardiology	No Select	No Select	-1	0	-1		
11	-1	Navigate	Ver	0	Calculated	0	-1	-1	-1	Male	1	0	Navigate to the	-1	Cardiology	No Select	No Select	-1	0	-1		
12	-1	Navigate	ECM	0	Calculated	0	-1	-1	-1	Male	1	0	Navigate to the	-1	Cardiology	No Select	No Select	-1	0	-1		
13	-1	Navigate	Gas	0	Calculated	0	-1	-1	-1	Male	1	0	Navigate to the	-1	Cardiology	No Select	No Select	-1	0	-1		
14	-1	Navigate	Flow	0	Calculated	0	-1	-1	-1	Male	1	0	Navigate to the	-1	Cardiology	No Select	No Select	-1	0	-1		
15	-1	Navigate	Flow	0	Calculated	0	-1	-1	-1	Male	1	0	Navigate to the	-1	Cardiology	No Select	No Select	-1	0	-1		
16	-1	Navigate	Inf	0	Calculated	0	-1	-1	-1	Male	1	0	Navigate to the	-1	Cardiology	No Select	No Select	-1	0	-1		
17	-1	Navigate	Inf	0	Calculated	0	-1	-1	-1	Male	1	0	Navigate to the	-1	Cardiology	No Select	No Select	-1	0	-1		
18	-1	Navigate	Inf	0	Calculated	0	-1	-1	-1	Male	1	0	Select the chan	-1	Cardiology	No Select	No Select	-1	0	-1		
19	-1	Navigate	Clp	0	Calculated	0	-1	-1	-1	Male	1	0	Press the right	-1	Cardiology	No Select	No Select	-1	0	-1		
20	-1	Navigate	RVC	0	Calculated	0	-1	-1	-1	Male	1	0	Navigate to the	-1	Cardiology	No Select	No Select	-1	0	-1		
21	-1	Navigate	RVC	0	Calculated	0	-1	-1	-1	Male	1	0	Once sensors are	-1	Cardiology	No Select	No Select	-1	0	-1		
22	-1	Navigate	CDI	0	Calculated	0	-1	-1	-1	Male	1	0	Navigate to the	-1	Cardiology	No Select	No Select	-1	0	-1		
23	-1	Navigate	Quick	0	Calculated	0	-1	-1	-1	Male	1	0	There are many	-1	Cardiology	No Select	No Select	-1	0	-1		
24	-1	Navigate	Unl	0	Calculated	0	-1	-1	-1	Male	1	0	Navigate to the	-1	Cardiology	No Select	No Select	-1	0	-1		
25	-1	Navigate	Heat	0	Calculated	0	-1	-1	-1	Male	1	0	Navigate to the	-1	Cardiology	No Select	No Select	-1	0	-1		
26	-1	Remove	Blank	0	Calculated	0	-1	-1	-1	Male	1	0	Remove the pat	-1	Cardiology	No Select	No Select	-1	0	-1		
27	-1	Navigate	Comm	0	Calculated	0	-1	-1	-1	Male	1	0	Navigate to the	-1	Cardiology	No Select	No Select	-1	0	-1		
28	-1	Navigate	Over	0	Calculated	0	-1	-1	-1	Male	1	0	Navigate to the	-1	Cardiology	No Select	No Select	-1	0	-1		
29	-1	Navigate	TV M	0	Calculated	0	-1	-1	-1	Male	1	0	Navigate to the	-1	Cardiology	No Select	No Select	-1	0	-1		
30	-1	Change	ECMO	0	Calculated	0	-1	-1	-1	Male	1	0	In the Comm PJ	-1	Cardiology	No Select	No Select	-1	0	-1		
31	-1	Conclusion	Conclusion	0	Calculated	0	-1	-1	-1	Male	1	0	Now that you're	-1	Cardiology	No Select	No Select	-1	0	-1		

Scenario File from Scenario Editor

3. Unbundle SIM

Need more info

4. Parameters List



Parameter List

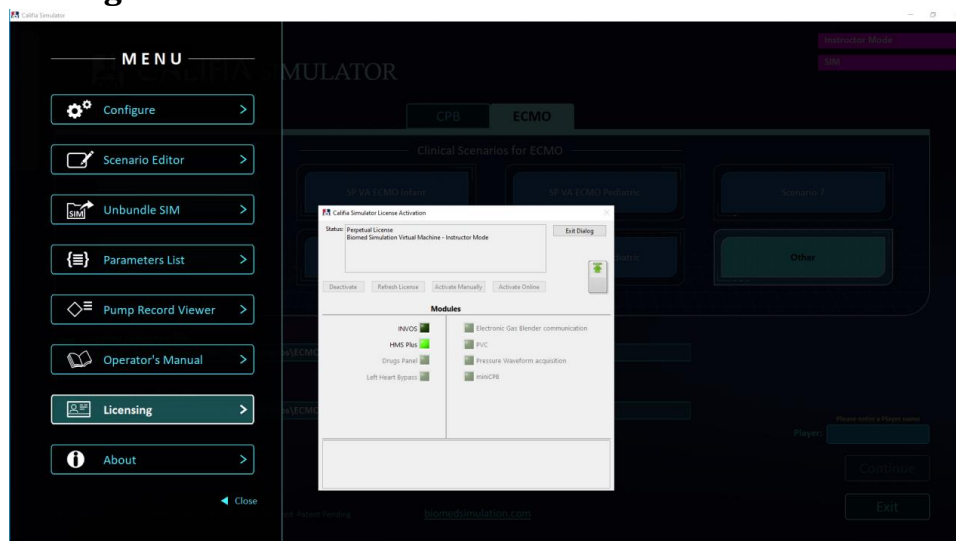
5. Pump Record Viewer

Need more info

6. Operator's Manual

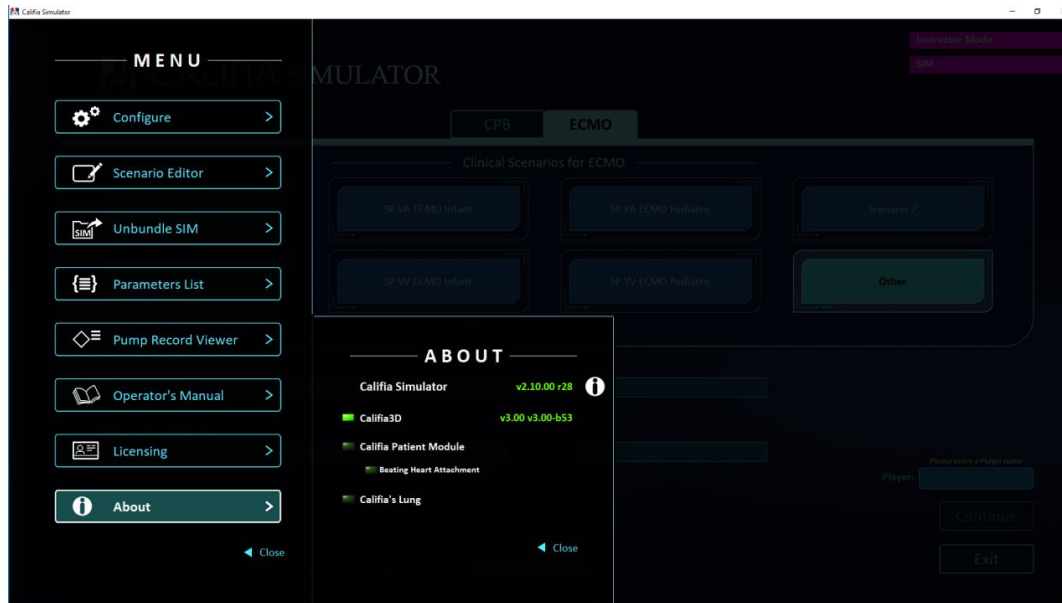
Need more info

7. Licensing



License Details

8. About



About the Califia Simulator

ENTER THE ACTUAL SIMULATION

User can select 'ECMO' and 'Other' options.
 Use 'Continue' button to enter in the simulation.

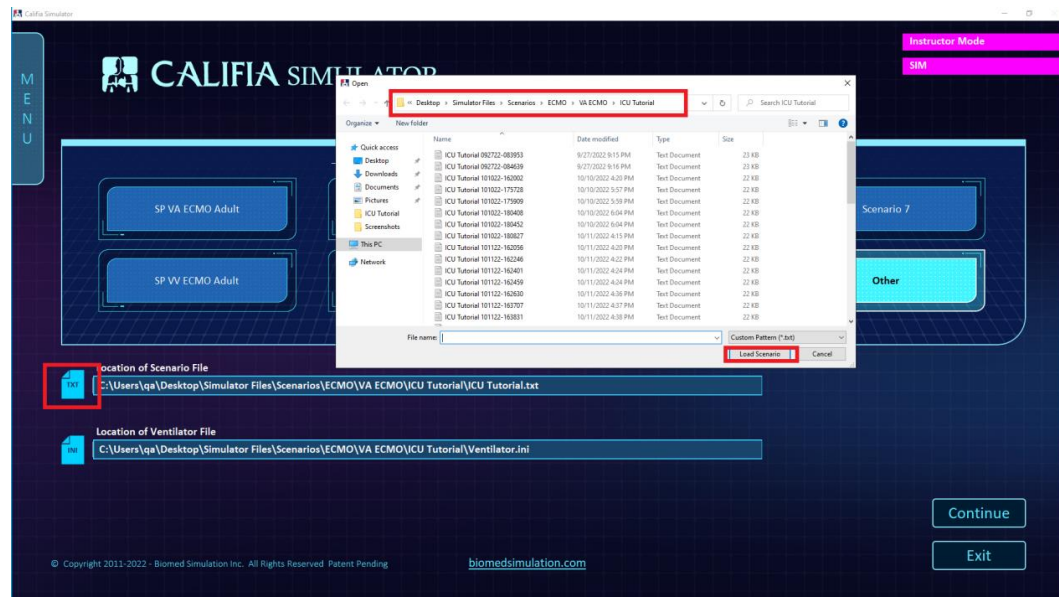


Important options for enter into the application.

User can change the Scenario file by clicking on 'Location of scenario file' TXT symbol.

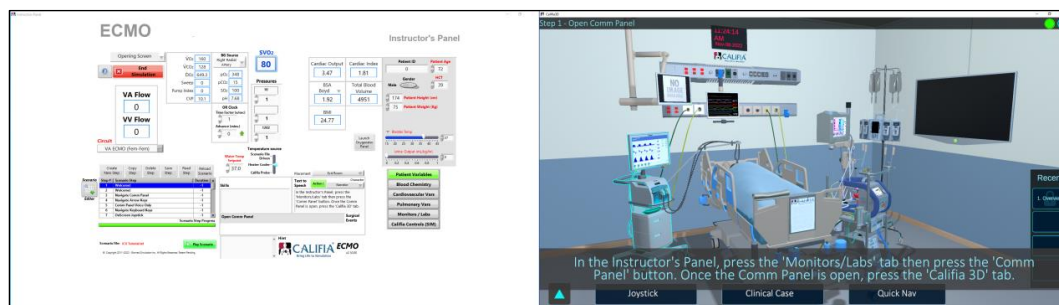
Location of scenario file contains the scenario file path which is saved in the local computer.

Scenario file gets updated automatically with user changes
User can see the latest file name in this location box.



Load Scenario File

After clicking on continue button, user will enter into the actual simulator.
Below screen will be displayed after entering into simulator.



Instructor panel

3D ICU Unit

Left side of this image contains 'ECMO' instructor panel with multiple medical parameters whereas 3D ICU unit view is seen at the right side.

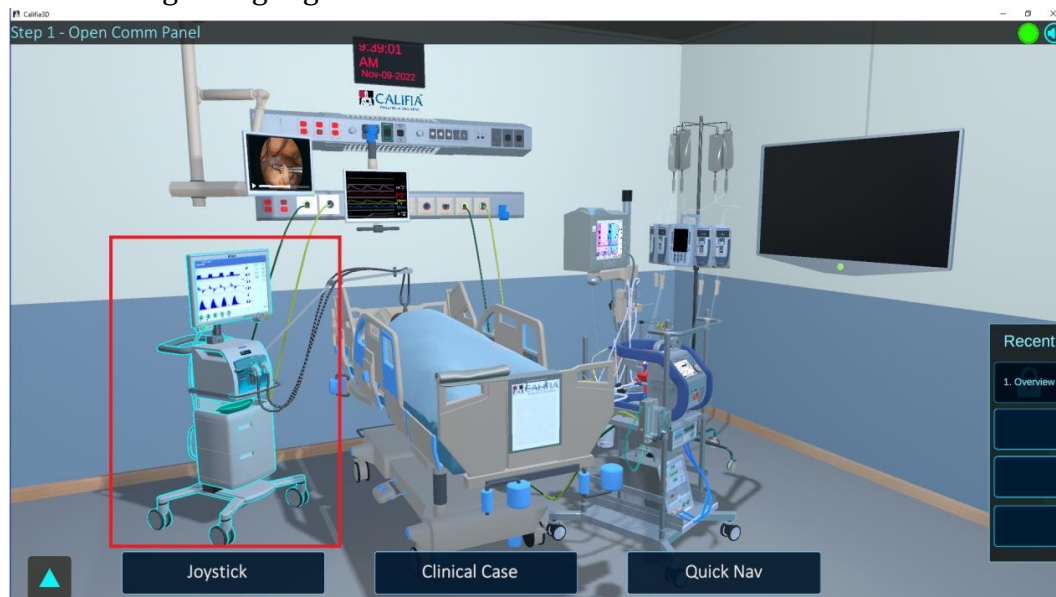
3D ICU UNIT

This is a 3D view of ICU. User is automatically entered into the ICU room as per the scenario file.



Overview of ICU

The device gets highlighted with mouse over action.



Highlighted Device by mouse hovering

After clicking on device, device will be maximized and user will be able to see the device parameters clearly.

At the right side, recent panel will display latest devices viewed or selected. When we select the ventilator, in recent panel Ventilator name is displayed below the Overview.

Overview is by default to reset ICU view.



Maximized view of Device after selecting.

The recent tab allows to save the latest three actions and the overview gets locked at the first number.

MENU BUTTON

Five options are displayed after selecting the menu option.

1. Call Nurse or Surgeon
2. Mosaic layout
3. ECMO Circuit Configurations
4. Settings
5. Exit Simulation

1. CALL BUTTON - Call Nurse or Surgeon

In the first menu, user can call the nurse or surgeon.

User can change the option for 'Nurse' to 'Surgeon' by using the up and down arrows using the handheld machine.

- User can give the command to nurse from the list which is shown nearby nurse.
- Image#1 shows we have called the 'Nurse' and image#2, shows a Surgeon. Now, user can see and verify the difference between the Nurse and the Surgeon.



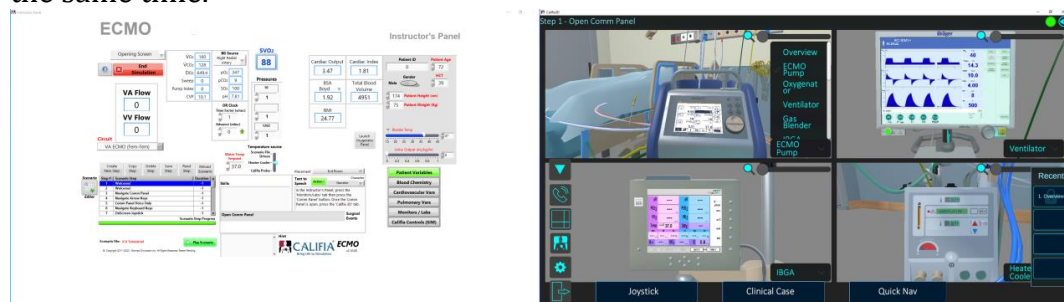
Image#1- Call to Nurse



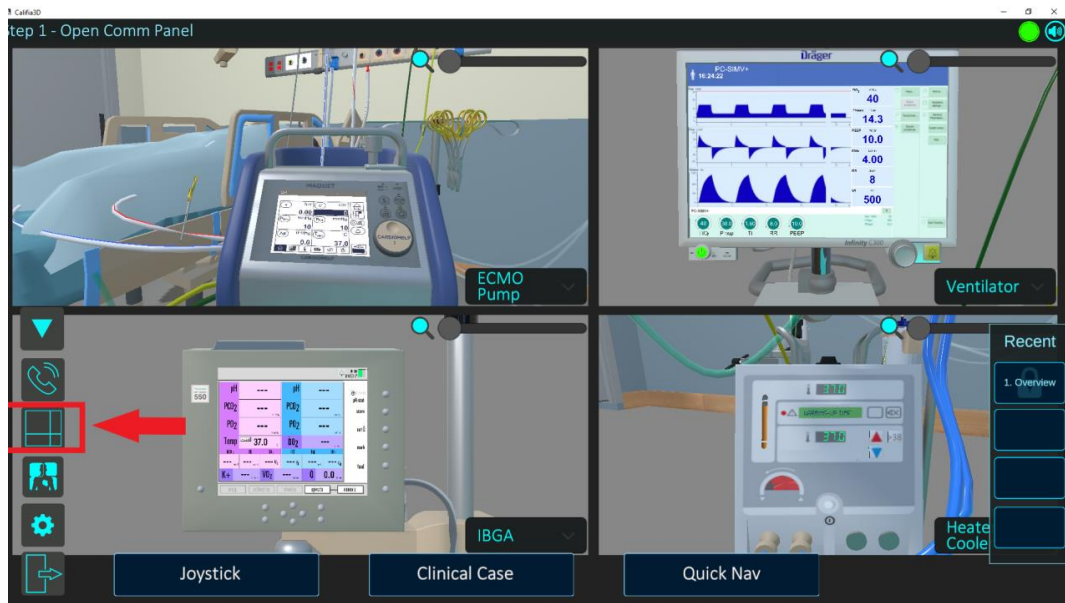
Image#2- Call to Surgeon

2. MOSAIC LAYOUT

By selecting the square icon, user can see multiple devices on one screen at the same time.

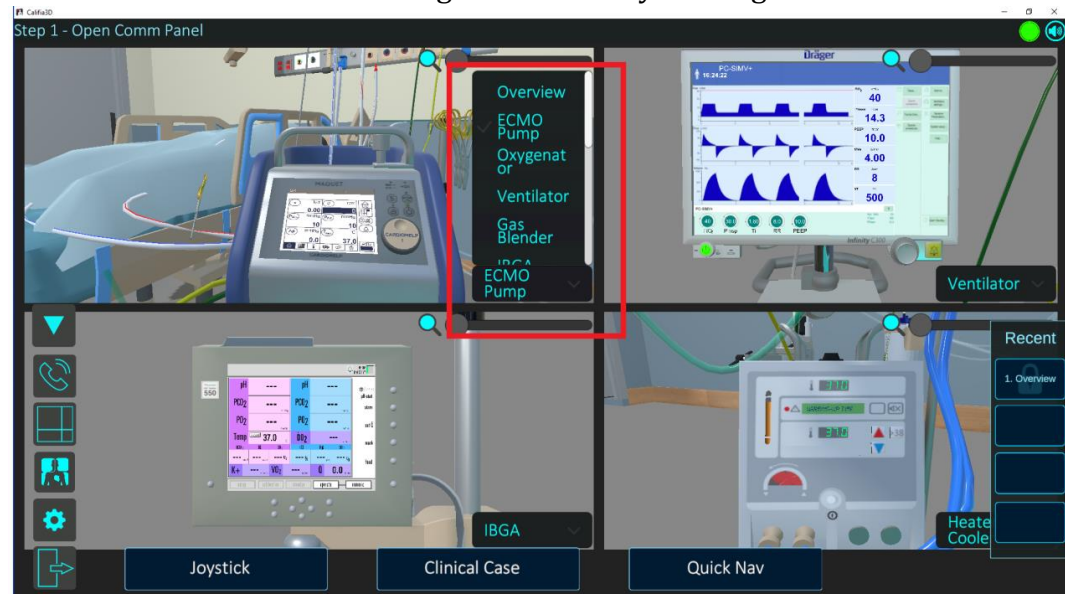


Mosaic Layout



View of devices from the Mosaic Layout

User can customize or can change the device by clicking on device name.



Customization of Mosaic Layout

3. ECMO CIRCUIT CONFIGURATIONS

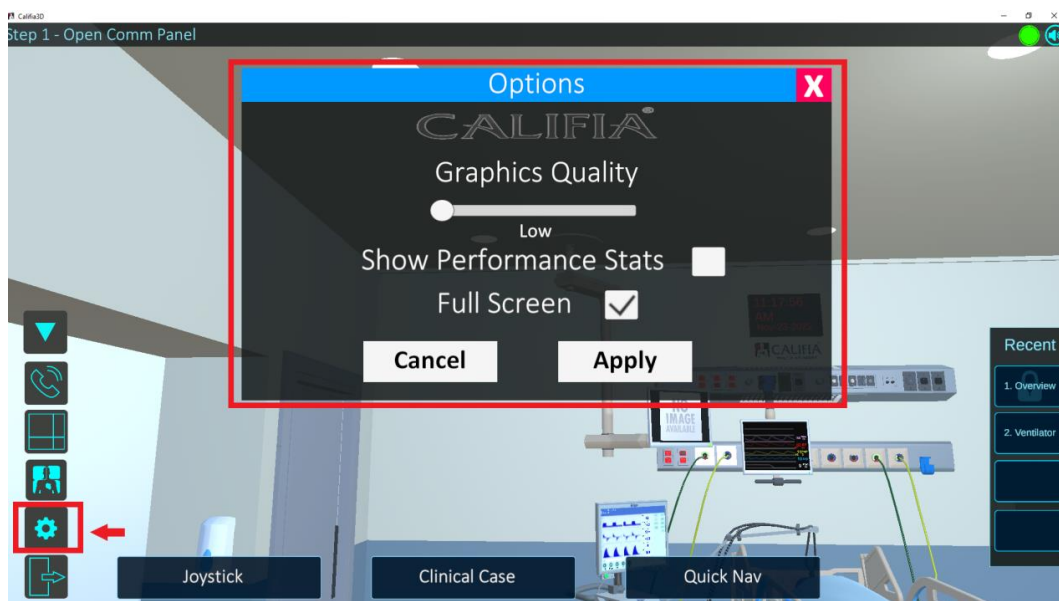
User can change the ECMO device using the third option.

By selecting ECMO device and clicking on confirm the device, it will be connected to the patient and user can see in 3D view.



ECMO device Configuration

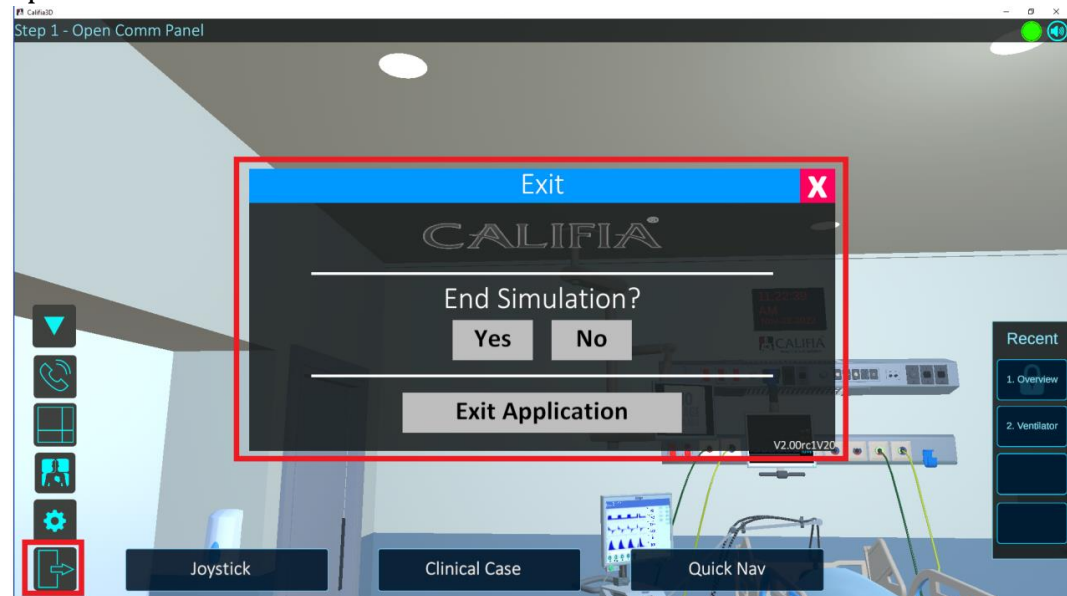
In the setting option, user can adjust graphics quality and some other options like full screen and show performance stats are there to improve 3D visuals.



Settings

4. EXIT SIMULATION

Last option to exit simulation, user can exit from simulation using this option.

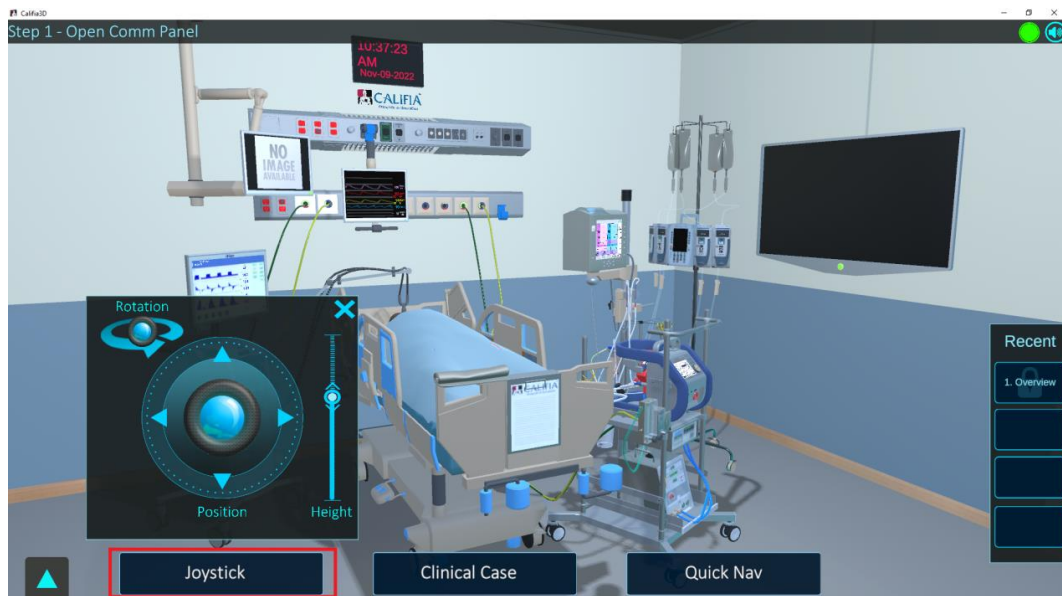


Exit Application

JOYSTICK

User can move around the ICU room with the help of Joystick.

- Click on the joystick button at the lower left corner.
- Rotation, Position and Height options in the joystick. By using this Joystick user can move around the ICU room.
- The “Q-W-E-A-S-D” keys allow three-dimensional movement in 3D ICU unit.

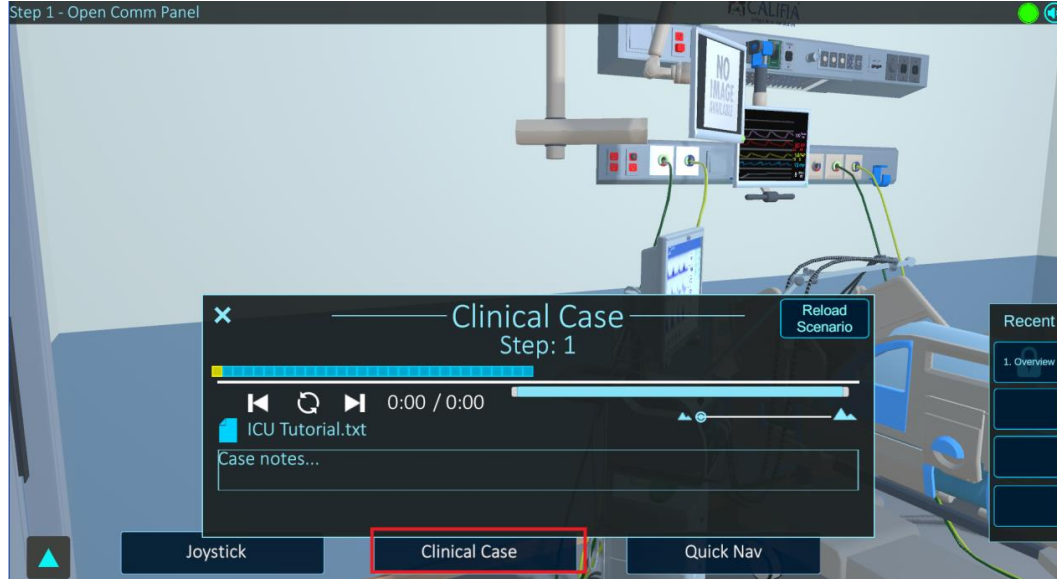


Joystick

CLINICAL CASE

User can see the details of scenario loaded on the control panel.

User can reload scenario by clicking on the reload scenario option.

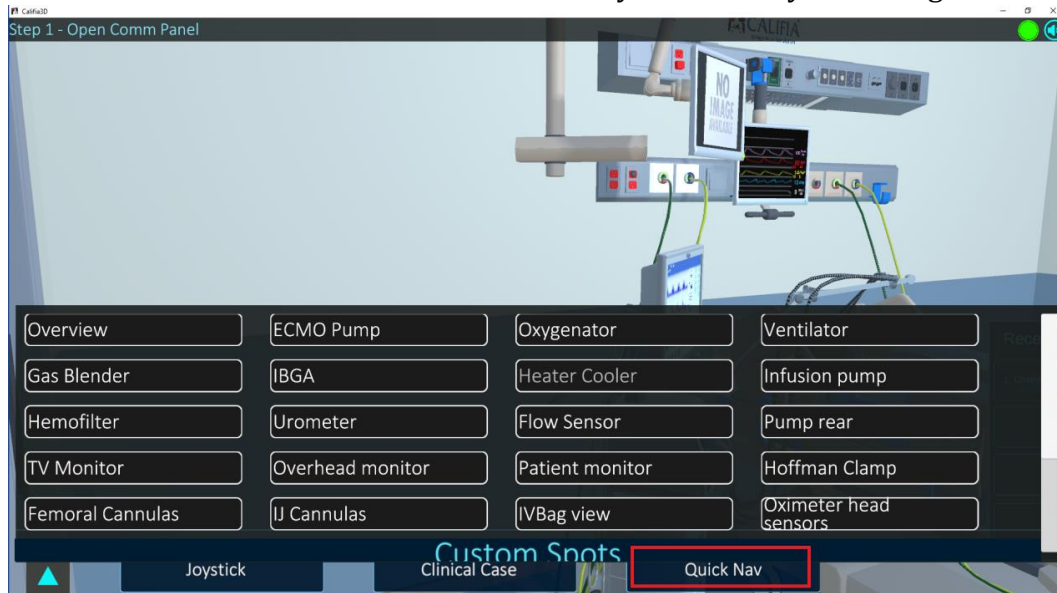


Clinical Case, It helps to identify scenarios.

QUICK NAV

It helps the user to view equipment details in a larger view.

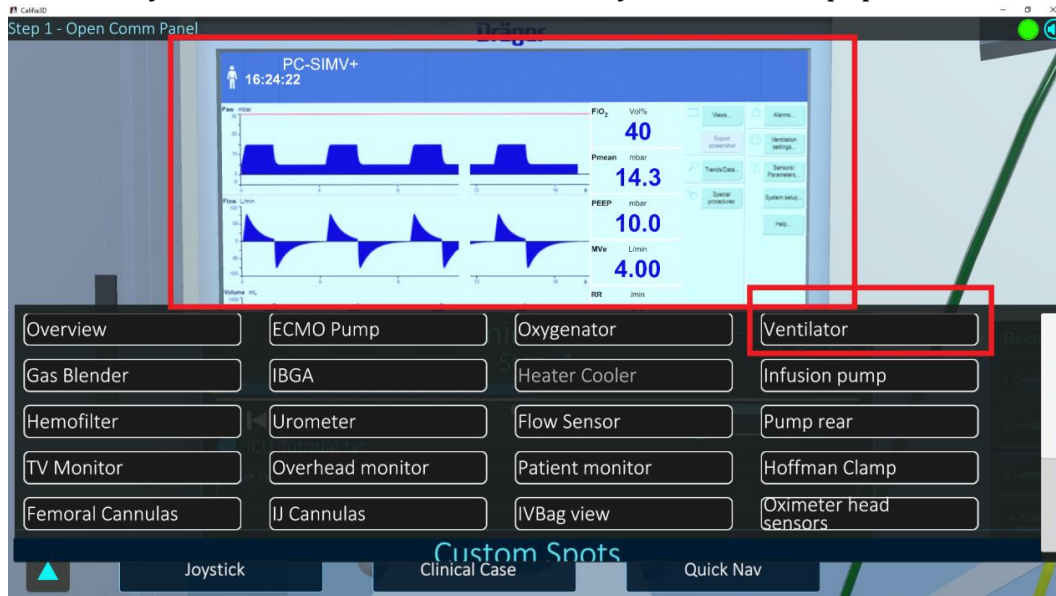
When user clicks on a particular device, camera position gets changed and that device will be focused. User can move directly to device by this navigation.



Quick Navigation

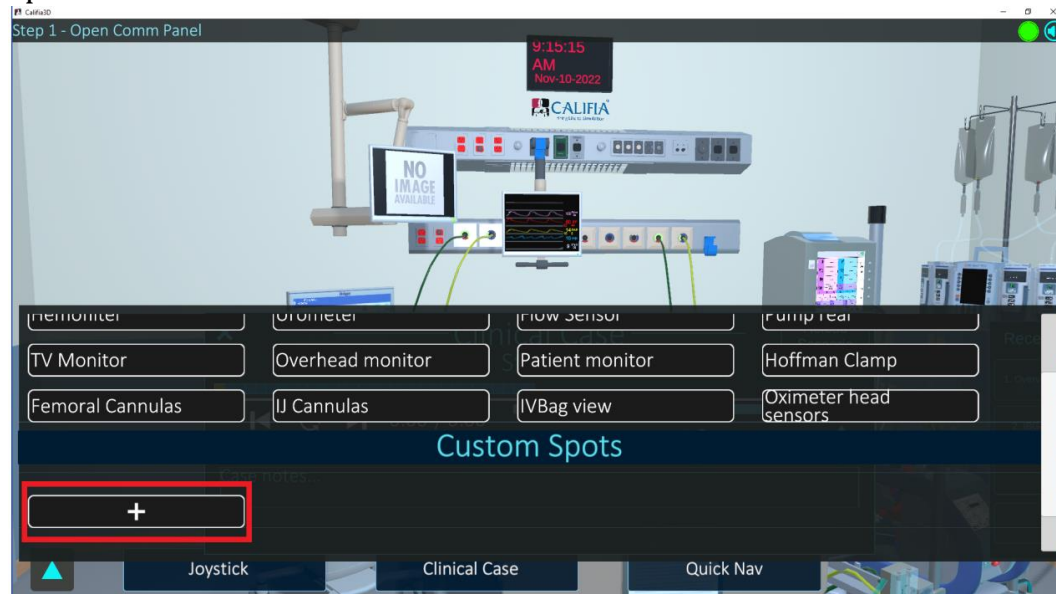
As per the selected ventilator, the ventilator from ICU will be focused and user will be able to see the ventilator on the larger screen.

This is very useful for the new user to identify the desired equipment in the ICU.



Quick Navigation -Device view

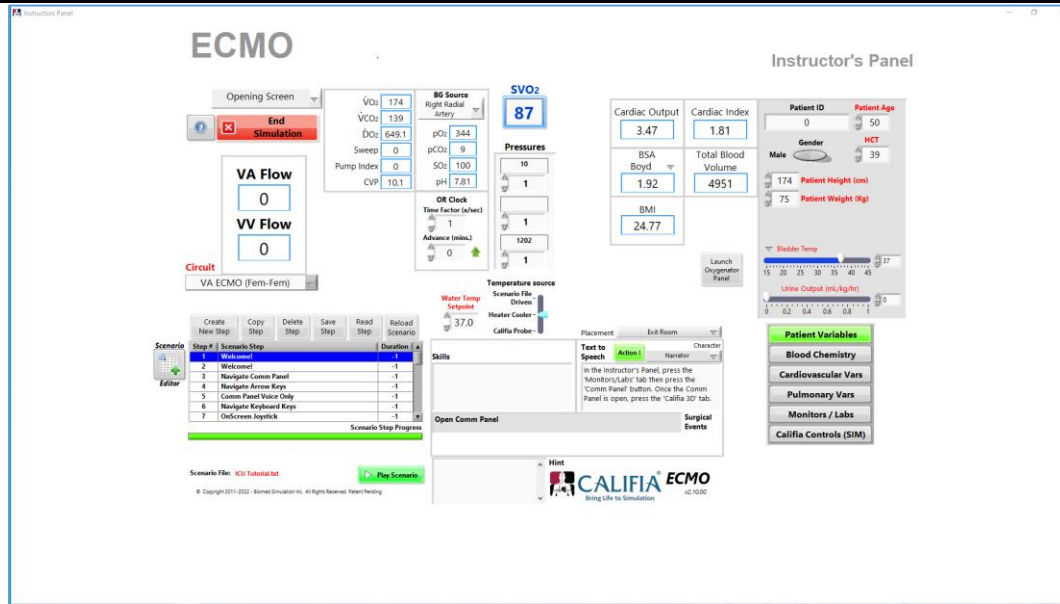
User can add their custom spot by clicking '+' sign displayed below the all options.



Quick Navigation - Add custom spot

INSTRUCTOR PANEL

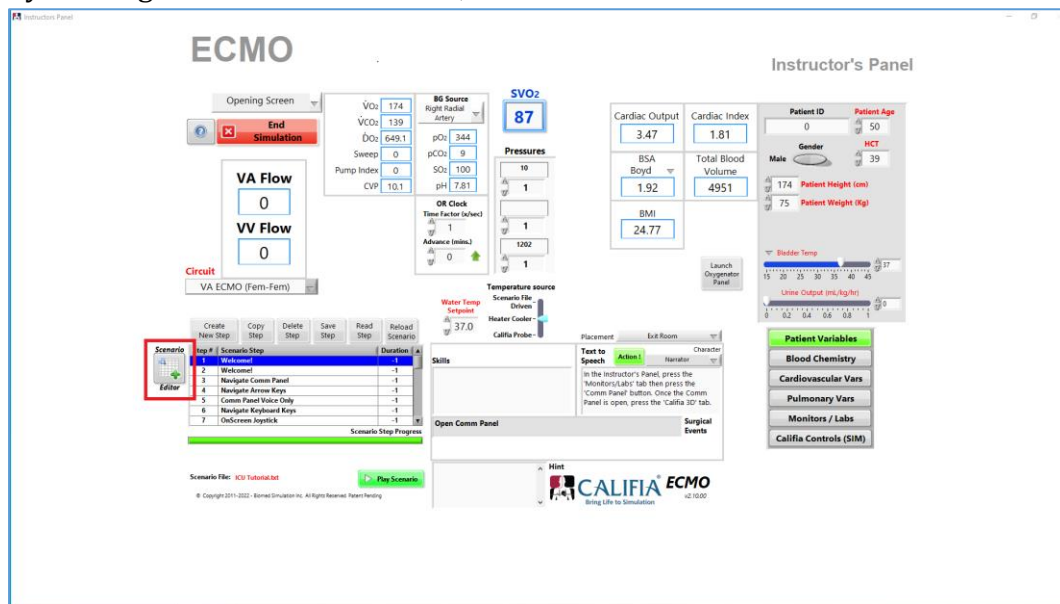
This is ECMO instructor's panel, user can give instruction from here to operate the equipment.



ECMO- Instructor panel

SCENARIO FILE EDITOR

By clicking on the scenario editor, user can edit the scenario file.



Open Scenario File Editor

File

Scenario Editor - VA ECMO/ICU Tutorial/ICU Tutorial.txt

File	Duration	Scenario Step	Surgical Events	NIRS S1	NIRS S2	Blood Gases	Patient ID	Patient Age	Patient Ht (cm)	Patient Wt (kg)	Gender	Time Factor (s/sec)	Advance (mins)	Text to Speech	Step Int	Skills	Circuit	ECMO System	Form 1	Form 2	Navigation	dHCO3	HC Temperature
1	-1	Welcome	Open Comm P1	0	Calculated	0	-1	-1	-1	-1	Male	1	0	In the Instructor	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
2	-1	Welcome	Open Comm P1	0	Calculated	0	-1	-1	-1	-1	Male	1	0	In the Instructor	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
3	-1	Navigate Core	Navigate Comm 0	0	Calculated	0	-1	-1	-1	-1	Male	1	0	In the Comm P1	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
4	-1	Navigate Core	Navigate Core 0	0	Calculated	0	-1	-1	-1	-1	Male	1	0	One way to the	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
5	-1	Comm Panel	Voice only mod	0	Calculated	0	-1	-1	-1	-1	Male	1	0	Select Voice Mod	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
6	-1	Navigate Core	Navigate Core 0	0	Calculated	0	-1	-1	-1	-1	Male	1	0	Another way to	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
7	-1	OnScreen Joy	Use OnScreen Jo	0	Calculated	0	-1	-1	-1	-1	Male	1	0	You can also ul	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
8	-1	Navigate Core	Overview posit	0	Calculated	0	-1	-1	-1	-1	Male	1	0	You may have a	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
9	-1	Navigate Core	Navigate panel	0	Calculated	0	-1	-1	-1	-1	Male	1	0	You can also p	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
10	-1	Navigate Panel	Navigate Panel 0	0	Calculated	0	-1	-1	-1	-1	Male	1	0	Navigate to the	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
11	-1	Navigate Panel	Navigate Panel 0	0	Calculated	0	-1	-1	-1	-1	Male	1	0	Navigate to the	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
12	-1	Navigate ECM	Navigate ECM 0	0	Calculated	0	-1	-1	-1	-1	Male	1	0	Navigate to the	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
13	-1	Navigate Core	Navigate Com M	0	Calculated	0	-1	-1	-1	-1	Male	1	0	Navigate to the	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
14	-1	Navigate Panel	Navigate Panel 0	0	Calculated	0	-1	-1	-1	-1	Male	1	0	Navigate to the	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
15	-1	Navigate Flow	Navigate Flow 0	0	Calculated	0	-1	-1	-1	-1	Male	1	0	Navigate to the	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
16	-1	Navigate Inflow	Navigate Inflow 0	0	Calculated	0	-1	-1	-1	-1	Male	1	0	Navigate to the	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
17	-1	Navigate Inflow	Navigate Inflow 0	0	Calculated	0	-1	-1	-1	-1	Male	1	0	Navigate to the	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
18	-1	Navigate Inflow	Deliver fluid	0	Calculated	0	-1	-1	-1	-1	Male	1	0	Select the infu	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
19	-1	Navigate Core	Navigate Panel 0	0	Calculated	0	-1	-1	-1	-1	Male	1	0	Press the displ	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
20	-1	Navigate Inflow	Navigate Inflow 0	0	Calculated	0	-1	-1	-1	-1	Male	1	0	Navigate to the	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
21	-1	Navigate Inflow	Navigate Inflow 0	0	Calculated	0	-1	-1	-1	-1	Male	1	0	Once you have	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
22	-1	Navigate Core	Navigate BSA 0	0	Calculated	0	-1	-1	-1	-1	Male	1	0	Navigate to the	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
23	-1	Navigate Core	Quick Nav But	0	Calculated	0	-1	-1	-1	-1	Male	1	0	There are many	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
24	-1	Navigate Core	Navigate Comm 0	0	Calculated	0	-1	-1	-1	-1	Male	1	0	Navigate to the	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
25	-1	Navigate Core	Navigate Comm 0	0	Calculated	0	-1	-1	-1	-1	Male	1	0	Navigate to the	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
26	-1	Remove Blank	Remove Blank 0	0	Calculated	0	-1	-1	-1	-1	Male	1	0	Remove the pa	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
27	-1	Navigate Core	Navigate Comm 0	0	Calculated	0	-1	-1	-1	-1	Male	1	0	Navigate to the	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
28	-1	Navigate Core	Navigate Comm 0	0	Calculated	0	-1	-1	-1	-1	Male	1	0	Navigate to the	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
29	-1	Navigate Wt	Navigate Wt M	0	Calculated	0	-1	-1	-1	-1	Male	1	0	Navigate to the	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
30	-1	Change ECM	Change ECM 0	0	Calculated	0	-1	-1	-1	-1	Male	1	0	In the Comm P	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
31	-1	Conclusion	Conclusion 0	0	Calculated	0	-1	-1	-1	-1	Male	1	0	Now that you'	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	

Scenario File from Scenario file Editor.

- User can add or delete values for the selective step.
- To change any value, just click on value, add value in the box and hit on commit and save file.
- Automatically a new scenario file is generated according to the changes and file will be saved on machine and update the 3D view as per the changes.
- Changes in any value for the selective step will be reflected on 3D ICU view when scenario is ON or playing.

Scenario Editor - VA ECMO/ICU Tutorial/ICU Tutorial.txt

File

Duration	Scenario Step	Surgical Events	NIRS S1	NIRS S2	Blood Gases	Patient ID	Patient Age	Patient Ht (cm)	Patient Wt (kg)	Gender	Time Factor (s/sec)	Advance (mins)	Text to Speech	Step Int	Skills	Circuit	ECMO System	Form 1	Form 2	Navigation	dHCO3	HC Temperature
1	-1	Welcome	Open Comm P1	0	Calculated	0	-1	-1	-1	Male	1	0	In the instructor	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
2	-1	Welcome	Open Comm P1	0	Calculated	0	-1	-1	-1	Male	1	0	In the instructor	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
3	-1	Navigate Case	Navigate Comm P1	0	Calculated	0	-1	-1	-1	Male	1	0	In the Comm P1	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
4	-1	Navigate Case	Navigate Comm P1	0	Calculated	0	-1	-1	-1	Male	1	0	One way to the	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
5	-1	Comm Panel	Force only read	0	Calculated	0	-1	-1	-1	Male	1	0	Set force mode	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
6	-1	Navigate Ekg	Navigate Ekg	0	Calculated	0	-1	-1	-1	Male	1	0	Another way to	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
7	-1	CalScreen Step	Use CalScreen UI	0	Calculated	0	-1	-1	-1	Male	1	0	You can also	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
8	-1	Navigate Over	Overview panel	0	Calculated	0	-1	-1	-1	Male	1	0	You may have	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
9	-1	Navigate Pres	Navigate press	0	Calculated	0	-1	-1	-1	Male	1	0	You can also	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
10	-1	Navigate Ekg	Navigate Ekg	0	Calculated	0	-1	-1	-1	Male	1	0	Navigate to the	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
11	-1	Navigate Ekg	Navigate Ekg	0	Calculated	0	-1	-1	-1	Male	1	0	Navigate to the	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
12	-1	Navigate ECMO	Navigate ECMO	0	Calculated	0	-1	-1	-1	Male	1	0	Navigate to the	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
13	-1	Navigate Gas	Navigate Gas UI	0	Calculated	0	-1	-1	-1	Male	1	0	Navigate to the	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
14	-1	Navigate Heat	Navigate Heat	0	Calculated	0	-1	-1	-1	Male	1	0	Navigate to the	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
15	-1	Navigate Flow	Navigate Flow UI	0	Calculated	0	-1	-1	-1	Male	1	0	Navigate to the	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
16	-1	Navigate Infla	Navigate Infla UI	0	Calculated	0	-1	-1	-1	Male	1	0	Navigate to the	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
17	-1	Navigate Infla	Navigate Infla	0	Calculated	0	-1	-1	-1	Male	1	0	Navigate to the	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
18	-1	Navigate Infla	Deliver fluid	0	Calculated	0	-1	-1	-1	Male	1	0	Select the chan	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
19	-1	Navigate Capi	Navigate Capi	0	Calculated	0	-1	-1	-1	Male	1	0	Press the Capi	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
20	-1	Navigate HCO3	Navigate HCO3	0	Calculated	0	-1	-1	-1	Male	1	0	Navigate to the	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
21	-1	Navigate HCO3	Navigate HCO3	0	Calculated	0	-1	-1	-1	Male	1	0	Over sensors a	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
22	-1	Navigate RSG	Navigate RSG UI	0	Calculated	0	-1	-1	-1	Male	1	0	Navigate to the	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
23	-1	Navigate Capi	Quick Nav button	0	Calculated	0	-1	-1	-1	Male	1	0	There are many	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
24	-1	Navigate User	Navigate User	0	Calculated	0	-1	-1	-1	Male	1	0	Navigate to the	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
25	-1	Navigate Hemo	Navigate Hemo	0	Calculated	0	-1	-1	-1	Male	1	0	Navigate to the	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
26	-1	Remove Blank	Remove Blank	0	Calculated	0	-1	-1	-1	Male	1	0	Remove the pat	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
27	-1	Navigate Comm	Navigate Comm	0	Calculated	0	-1	-1	-1	Male	1	0	Navigate to the	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
28	-1	Navigate Over	Navigate Over	0	Calculated	0	-1	-1	-1	Male	1	0	Navigate to the	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
29	-1	Navigate HCO3	Navigate HCO3	0	Calculated	0	-1	-1	-1	Male	1	0	Navigate to the	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
30	-1	Change ECMO	Change ECMO	0	Calculated	0	-1	-1	-1	Male	1	0	In the Comm P1	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	
31	-1	Conclusion	Conclusion	0	Calculated	0	-1	-1	-1	Male	1	0	Now that you'	-1	-1	Cardiograph	No Select	No Select	-1	0	-1	

Changing values in Scenario File

- When user hits on commit button then user can see the change in color of top left column. (White to Grey) It is an indication of changes in scenario file and user needs to save the file.

[illegible]

Indication for changes in File

- In order to save the file, click on File option on the upper left corner and save the file or user can save the file directly by “Ctrl+S”.
- After saving the file, top left column will be blank. (Gray to White)

10 | Scenarios Editor

Scenarios Editor - Via ECMO/ECMO Treatment/ECMO Treatment																					
		Event	Event	NIRS S2	Blood Gases	Patient O2	Patient Age	Patient Ht (cm)	Patient Wt (kg)	Gender	Time Factor (s/min)	Advance (min)	Text to Speech	Step Hint	Skills	ECMO System	Team 1	Team 2	Navigation	dHCO3	HE Temperature
Save	Ctrl+S	Common P1	0	0	Calculated	0	-1	-1	-1	Male	1	0	In the Introduct	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
Revert	Ctrl+R	Common P1	0	0	Calculated	0	-1	-1	-1	Male	1	0	In the Introduct	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	In the Comm P1	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	One way to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Set Voice Mod	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Another way to	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	You can also st	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	You may have	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	ECMO System	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-1	0	-1	-1
		Navigator Core	0	0	Calculated	0	-1	-1	-1	Male	1	0	Navigation to the	-1	Cardiology	No Selects	No Selects	-			

Save the Scenario File

- System displays an alert message for saving the file if user accidentally clicks on 'Close' button without saving the file,

Scenario Editor - VA ECMO/ECU Tutorial/ECU Tutorial.txt

Duration	Scenario Step	Surgical Events	NIRS S1	NIRS S2	Blood Gases	Patient ID	Patient Age	Patient Ht (cm)	Patient Wt (kg)	Gender	Time Factor (s/sec)	Advance (mins)	Text to Speech	Step hint	Skills	Circuit	ECMO System	Form 1	Form 2	Navigation	dhCO2	Ht Temperature
1	-1	Welcome	Open Comm P1	0	Calculated	0	-1	-1	-1	Male	1	0	In the Instructor's	-1	-1	Cardiohelp	No Select	No Select	-1	0	-1	-1
2	-1	Welcome	Open Comm P2	0	Calculated	0	-1	-1	-1	Male	1	0	In the Instructor's	-1	-1	Cardiohelp	No Select	No Select	-1	0	-1	-1
3	-1	Navigate Comm	Navigate Comm	0	Calculated	0	-1	-1	-1	Male	1	0	In the Comm P1	-1	-1	Cardiohelp	No Select	No Select	-1	0	-1	-1
4	-1	Navigate Comm	Navigate Comm	0	Calculated	0	-1	-1	-1	Male	1	0	One way to m	-1	-1	Cardiohelp	No Select	No Select	-1	0	-1	-1
5	-1	Comm Panel	Voice only mod	0	Calculated	0	-1	-1	-1	Male	1	0	Set Voice Mod	-1	-1	Cardiohelp	No Select	No Select	-1	0	-1	-1
6	-1	Navigate Key	Navigate Key	0	Calculated	0	-1	-1	-1	Male	1	0	Another way to	-1	-1	Cardiohelp	No Select	No Select	-1	0	-1	-1
7	-1	OnScreen Key	Use OnScreen H	0	Calculated	0	-1	-1	-1	Male	1	0	You can also u	-1	-1	Cardiohelp	No Select	No Select	-1	0	-1	-1
8	-1	Navigate Over	Overview possi	0	Calculated	0	-1	-1	-1	Male	1	0	You may have i	-1	-1	Cardiohelp	No Select	No Select	-1	0	-1	-1
9	-1	Navigate Press	Navigate press	0	Calculated	0	-1	-1	-1	Male	1	0	You can also pr	-1	-1	Cardiohelp	No Select	No Select	-1	0	-1	-1
10	-1	Navigate Panel	Navigate Panel	0	Calculated	0	-1	-1	-1	Male	1	0	Navigate to the	-1	-1	Cardiohelp	No Select	No Select	-1	0	-1	-1
11	-1	Navigate Vent	Navigate Ventil	0	Calculated	0	-1	-1	-1	Male	1	0	Navigate to the	-1	-1	Cardiohelp	No Select	No Select	-1	0	-1	-1
12	-1	Navigate ECM	Navigate ECM	0	Calculated	0	-1	-1	-1	Male	1	0	Navigate to the	-1	-1	Cardiohelp	No Select	No Select	-1	0	-1	-1
13	-1	Navigate Gas	Navigate Gas Bl	0	Calculated	0	-1	-1	-1	Male	1	0	Navigate to the	-1	-1	Cardiohelp	No Select	No Select	-1	0	-1	-1
14	-1	Navigate Heat	Navigate Heater	0	Calculated	0	-1	-1	-1	Male	1	0	Navigate to the	-1	-1	Cardiohelp	No Select	No Select	-1	0	-1	-1
15	-1	Navigate Infl	Navigate Flow T	0	Calculated	0	-1	-1	-1	Male	1	0	Navigate to the	-1	-1	Cardiohelp	No Select	No Select	-1	0	-1	-1
16	-1	Navigate Infl	Navigate IV Bag	0	Calculated	0	-1	-1	-1	Male	1	0	Navigate to the	-1	-1	Cardiohelp	No Select	No Select	-1	0	-1	-1
17	-1	Navigate Infl	Navigate Infus	0	Calculated	0	-1	-1	-1	Male	1	0	Navigate to the	-1	-1	Cardiohelp	No Select	No Select	-1	0	-1	-1
18	-1	Navigate Infl	OnScreen Road	0	Calculated	0	-1	-1	-1	Male	1	0	Select the ch	-1	-1	Cardiohelp	No Select	No Select	-1	0	-1	-1
19	-1	Navigate Clip	Navigate Clip	0	Calculated	0	-1	-1	-1	Male	1	0	Press the clip	-1	-1	Cardiohelp	No Select	No Select	-1	0	-1	-1
20	-1	Navigate HNC	Navigate HNC	0	Calculated	0	-1	-1	-1	Male	1	0	Navigate to the	-1	-1	Cardiohelp	No Select	No Select	-1	0	-1	-1
21	-1	Navigate HNC	Navigate HNC	0	Calculated	0	-1	-1	-1	Male	1	0	Once screen a	-1	-1	Cardiohelp	No Select	No Select	-1	0	-1	-1
22	-1	Navigate CD	Navigate BGA	0	Calculated	0	-1	-1	-1	Male	1	0	Navigate to the	-1	-1	Cardiohelp	No Select	No Select	-1	0	-1	-1
23	-1	Navigate Ch	Click New Halls	0	Calculated	0	-1	-1	-1	Male	1	0	There are many	-1	-1	Cardiohelp	No Select	No Select	-1	0	-1	-1
24	-1	Navigate Unr	Navigate Unr	0	Calculated	0	-1	-1	-1	Male	1	0	Navigate to the	-1	-1	Cardiohelp	No Select	No Select	-1	0	-1	-1
25	-1	Navigate Heat	Navigate Heat	0	Calculated	0	-1	-1	-1	Male	1	0	Navigate to the	-1	-1	Cardiohelp	No Select	No Select	-1	0	-1	-1
26	-1	Remove B	Remove B	0	Calculated	0	-1	-1	-1	Male	1	0	Remove the p	-1	-1	Cardiohelp	No Select	No Select	-1	0	-1	-1
27	-1	Navigate Cam	Navigate Cam	0	Calculated	0	-1	-1	-1	Male	1	0	Navigate to the	-1	-1	Cardiohelp	No Select	No Select	-1	0	-1	-1
28	-1	Navigate Over	Navigate Over	0	Calculated	0	-1	-1	-1	Male	1	0	Navigate to the	-1	-1	Cardiohelp	No Select	No Select	-1	0	-1	-1
29	-1	Navigate IV	Navigate IV	0	Calculated	0	-1	-1	-1	Male	1	0	Navigate to the	-1	-1	Cardiohelp	No Select	No Select	-1	0	-1	-1
30	-1	Change ECM	Change ECM	0	Calculated	0	-1	-1	-1	Male	1	0	In the Comm P	-1	-1	Cardiohelp	No Select	No Select	-1	0	-1	-1
31	-1	Conclusion	Conclusion	0	Calculated	0	-1	-1	-1	Male	1	0	Now that you	-1	-1	Cardiohelp	No Select	No Select	-1	0	-1	-1

Alert for saving the file

SCENARIO PANEL

This panel contain scenarios explaining the details to operate the application. These scenarios are listed as per the scenario file saved. User cannot change the sequence of the scenarios.

ECMO Instructor's Panel

Opening Screen

End Simulation

VA Flow

VV Flow

Circuit

VA ECMO (Fem-Fem)

Scenario

Step #	Scenario Step	Duration (s)
1	Welcome	1
2	Navigate Comm Panel	1
3	Navigate Arrow Keys	1
4	Comm Panel Voice Only	1
5	Navigate Keyboard Keys	1
6	OnScreen Key	1

Scenario Step Progress

Scenario File: ICU Tutorial.txt

Play Scenario

ECMO

Cardiac Output

Cardiac Index

BSA

Boyd

Total Blood Volume

BMI

Pressures

Water Temp

Temperature source

Scenario File

Driver

Califia Probe

Placement

Exit Room

Character

Text to Speech

In the Instructor's Panel, press the 'Monitor/Editor' tab then press the 'Comm Panel' button. Once the Comm Panel is open, press the 'Califia 302' tab.

Open Comm Panel

Skills

Launch Organiser Panel

Build Temp

Online Output (mL/hg/h)

Patient Variables

Blood Chemistry

Cardiovascular Vars

Pulmonary Vars

Monitors / Labs

Califia Controls (SIM)

Scenario details in scenario tab

There are few options for scenario file.

a. Create New Step

User can create the new step by using this option. After creating the new step, user can add values in this step from scenario editor.

New step will be saved automatically in the scenario file editor with default values. After changing values, old scenario file will be replaced with new scenario file.

All files will be saved at the backend automatically and app will be started from the recently changed file.

b. **Copy Step**

User can copy a particular file.

c. **Delete Step**

User can delete any file from here.

d. **Save Step**

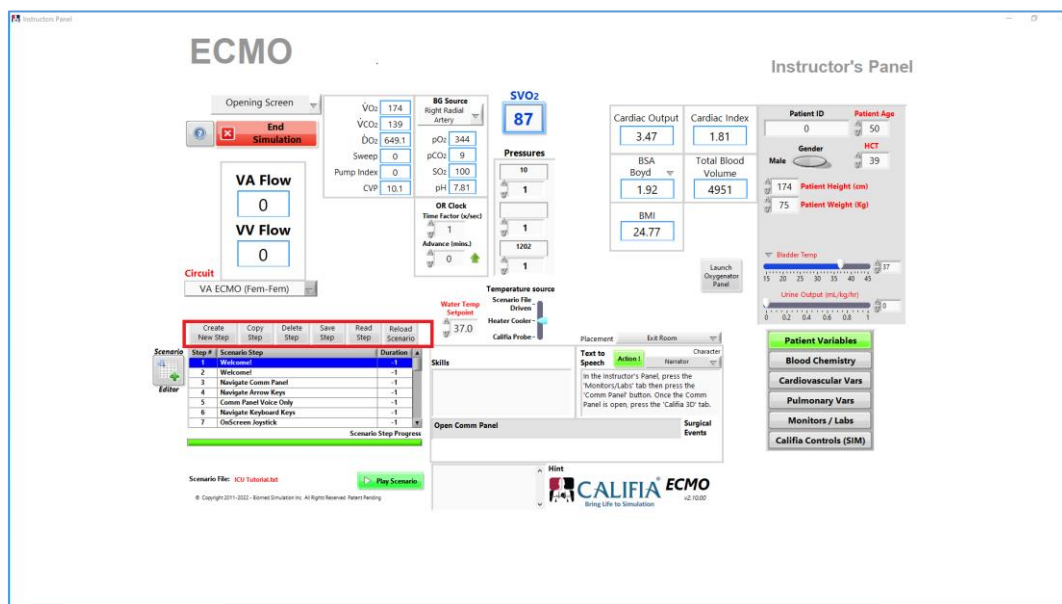
User can save new file from here.

e. **Read Step**

User can read (play) any step randomly from here,

f. **Reload Scenario**

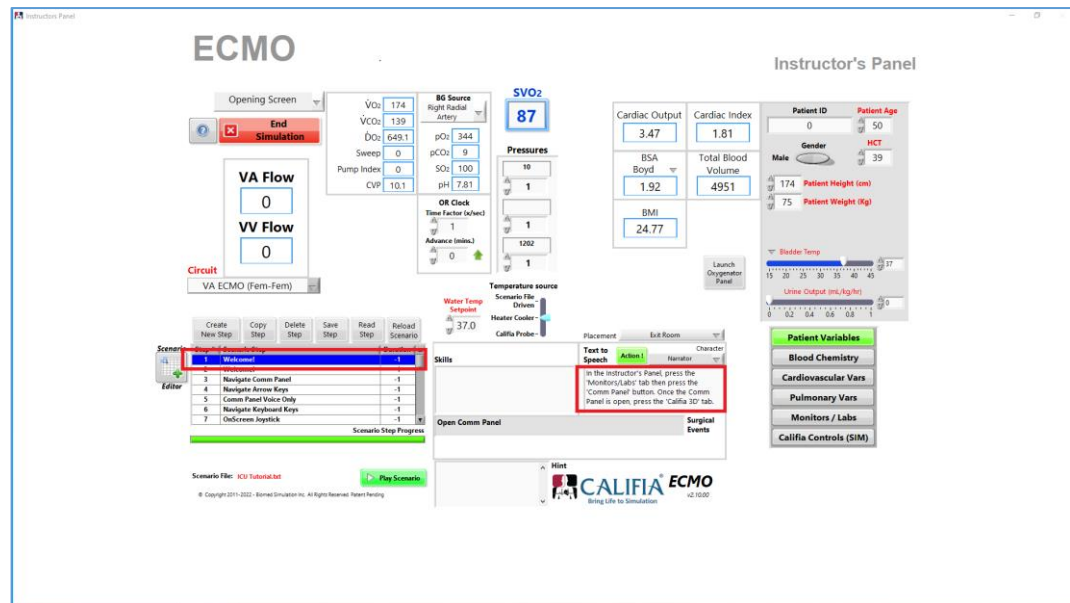
User can reload the scenarios from first step.



Scenario step editing options

- All the steps from scenario file will be displayed here. Running step is highlighted with blue color.
- There is an option for loading the scenario with caption so that user can see caption for a particular step as a text to speech.

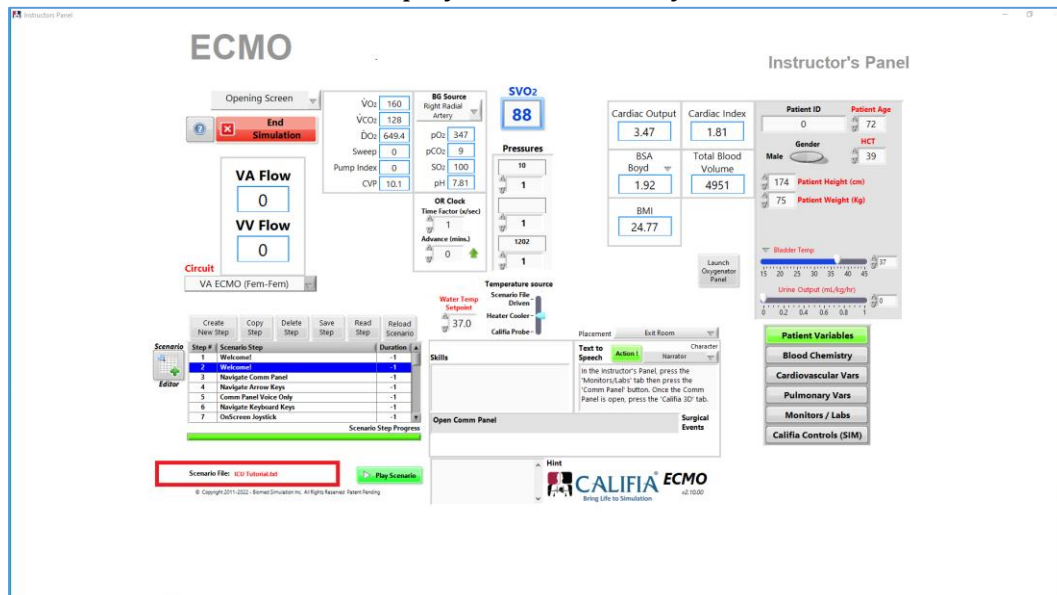
- This text to speech will be reflected on 3D view while playing the scenario step.



Running scenario step information

SCENARIO FILE NAME

This is the file name uploaded by default. When user made some changes in scenario file then new file will be automatically generated and saved in folder. The new file name will be displayed automatically.



Existing Scenario File Name

PATIENT VARIABLES TAB

Patient Variable Tab displays patient ID, patient age, gender, height, weight as well as some cardiac readings.

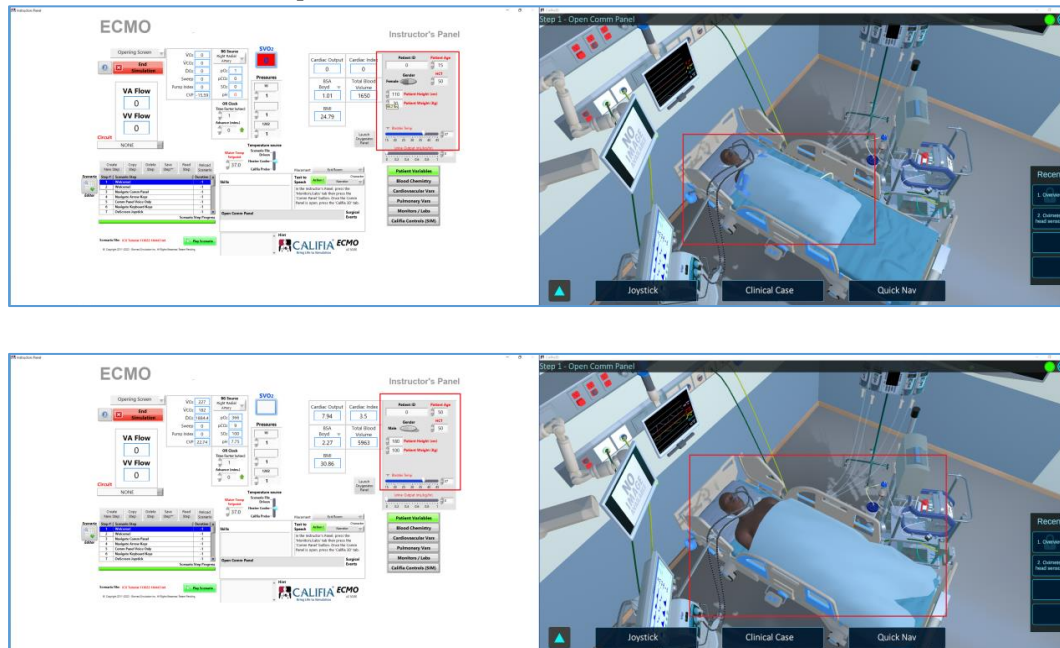
Cardiac Output	Cardiac Index	Patient ID	Patient Age
5.62	2.89	0	75
BSA DuBois	Total Blood Volume	Gender	HCT
1.94	0	Male	36
BMI		Patient Height (cm)	
23.15		180	
		Patient Weight (Kg)	
		75	
		Oxygenator Selection	
		Adult	
		Esophageal Temp	
		37	
		Urine Output (mL/kg/hr)	
		0	

Patient Variables

Detailed View of Patient Variable Tab

User can change the parameters like age or gender or height of patient, it reflects in 3 D view.

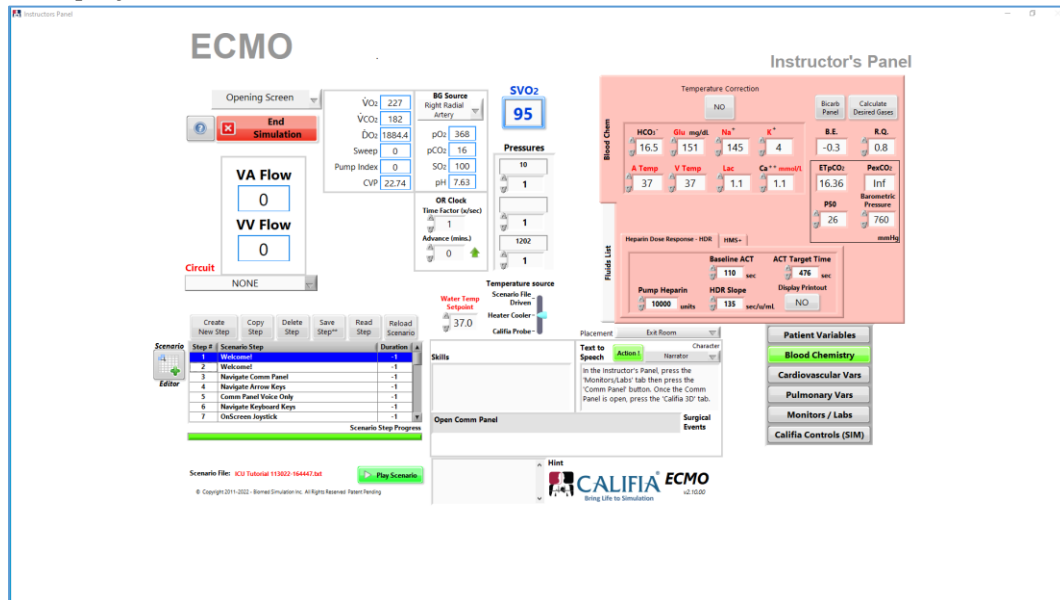
In both the images, we change the patient age, weight and height, the difference can be seen between patient's bodies.



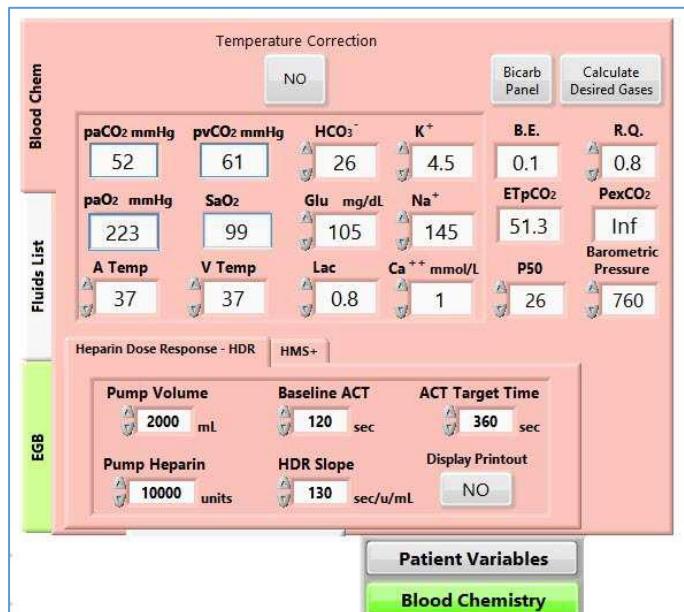
Changes in Patient Variable Tab reflecting on 3D screen

BLOOD CHEMISTRY TAB

It displays value of blood chemicals.



Blood Chemistry Tab

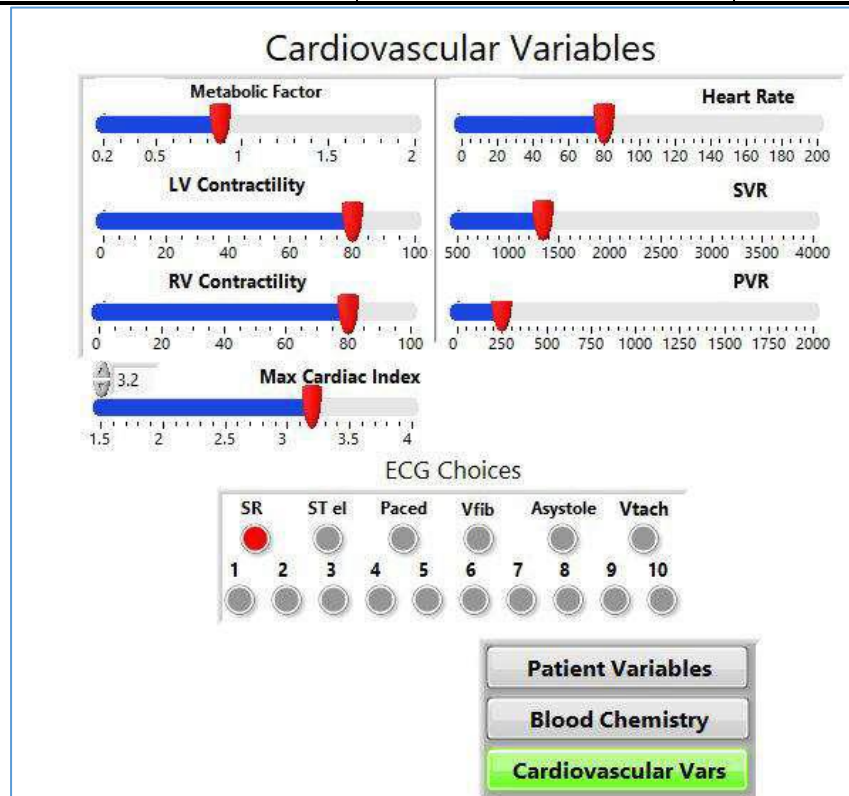


Detailed view of Blood Chemistry Tab

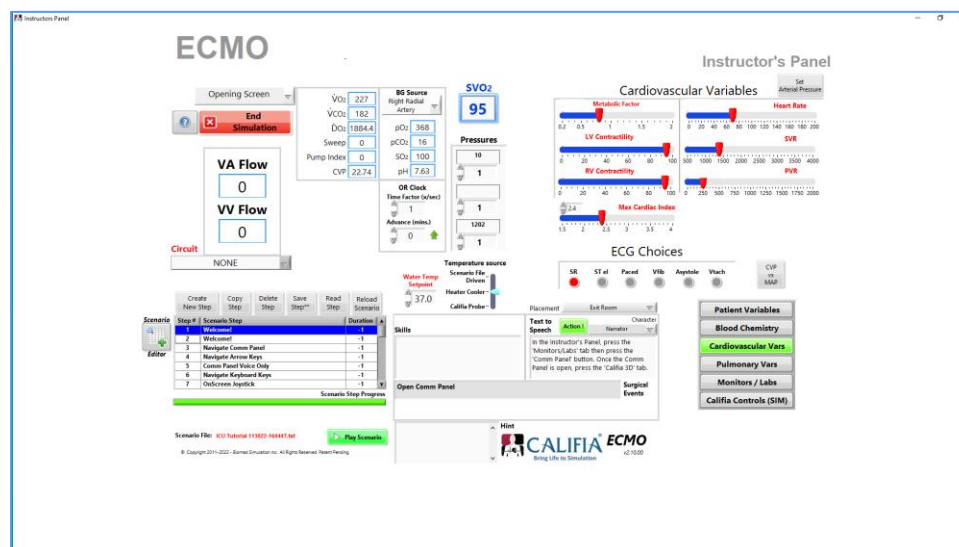
CARDIOVASCULAR VARIABLES TAB

Some cardiac readings are shown in the Cardiovascular Variable Tab. Heart Rate, Metabolism factor, LV Contractility, RV Contractility, SVR, PVR and Max Cardiac Index.

The "ECG Choices" buttons determine which ECG pattern is displayed on the Patient Monitor.



Detailed view of Cardiovascular Variable Tab



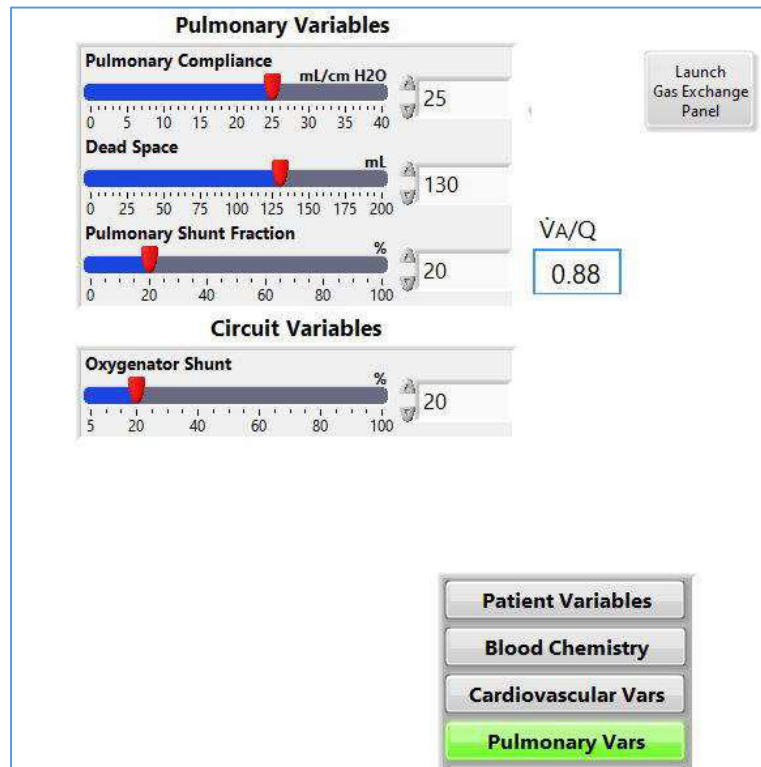
PULMONARY VARIABLES TAB

“Pulmonary Compliance” changes the volume of gas ventilating the lungs with each inflation when the ventilator is in the Pressure Mode.

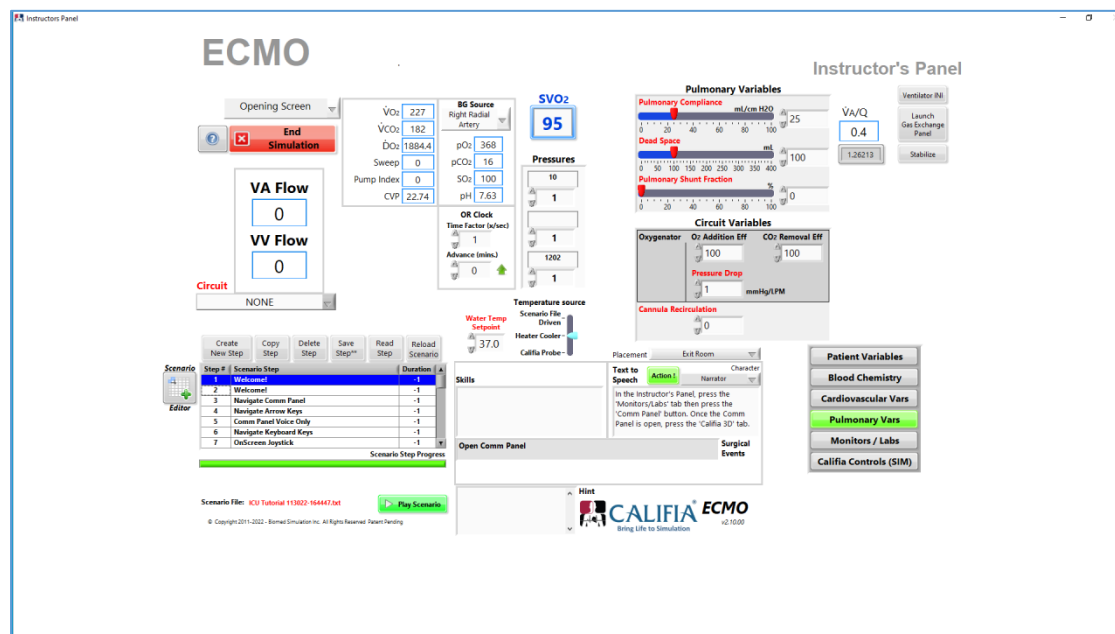
This predominately affects alveolar ventilation and thus PaCO₂. “Pulmonary Shunt Fraction” affects the PO₂ of blood entering the pulmonary vein, and “Dead

Space” alters the alveolar ventilation.

“Oxygenator Shunt” affects the gas exchange effectiveness of the oxygenator affecting both O2 and CO2 transfer.



Detailed view of pulmonary Variable Tab



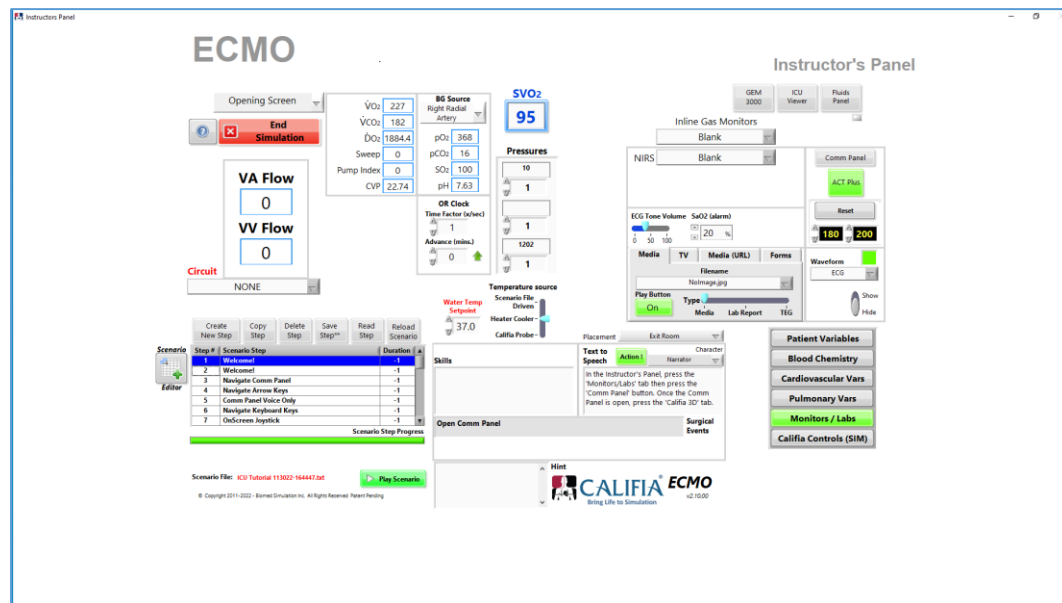
Pulmonary Variable Tab

MONITORS / LABS TAB

Various in-line monitors and point-of-care analyzers can be chosen for displaying on the OR Monitor using the “Monitors/Labs” control panel.

User can adjust media parameters from here like files which will play on media device, media device on of control.

User can adjust ECG tone volume.



Monitors/Labs

In process...

CPB and ECMO tab

CHOOSE A SCENARIO FILE FROM THE LOCATION

InfoBridge Solutions Pvt. Ltd.  Exporting quality software development services.	Califia Stimulator <i>Getting Started</i>	Issue/Date: 12/1/2022 Contact us at: Support@infobridgesolutions.com
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CHOOSE A VENTILATOR FILE FROM THE LOCATION

CONTINUE OR EXIT BUTTON

SCENARIO - EXPLAIN STEPS FOR HOW TO RUN

SWITCH BUTTONS

To be continued...