



Training Excellence

# BeneHeart D3 Defibrillator

Facilitation Training

## Section 1 Device Overview

Complete the below steps;

Step 1	Note the battery position
Step 2	Plug the device into AC power
Step 3	Insert all cables into the device
Step 4	Locate the readiness display window – identify icons
Step 5	<b>Select 'S TACH' on the simulator</b> - Turn the D3 to monitor mode
Step 6	View Lead III
Step 7	Note location of alarm lamp / change of colour
Step 8	Pause all alarms for 2 minutes
Step 9	Change the ECG gain
Step 10	Locate the NIBP button (configuration dependant)
Step 11	Mark amiodarone on the event log
Step 12	Access the main menu and then return to home screen
Step 13	Rotate the navigation dial and select SP02 – return to main menu
Step 14	Identify the three softkeys
Step 15	Locate the print / recorder button
Step 16	Change the paper
Step 17	Turn the device off

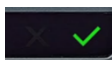
PLEASE PROGRESS TO THE NEXT PAGE

## Section 2 Testing Procedure

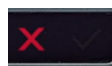
Complete the below steps;

Step 1	Connect to mains power
Step 2	Check AC light in display window
Step 3	Check integrity of device cables
Step 4	Ensure device is clean
Step 5	Know who to contact in the event of a problem
Step 6	Connect the shock cable to test plug
Step 7	Turn mode dial to monitoring
Step 8	Push main menu button
Step 9	Select user test
Step 10	End patient monitoring – select yes
Step 11	Select 'Routine Test' and 'Energy Delivery Test'
Step 12	Select Start
Step 13	Confirm that no patient is connected
Step 14	Follow the voice and visual prompts from the D3 defibrillator
Step 15	Repeat the process on battery
Step 16	If using paddles, select OK to continue testing If not using paddles, select cancel
Step 17	Press return to complete the test or record to print the results
Step 18	Has the test passed or failed
Step 19	Turn the device off

Test passed



Test failed



Repeat the test then contact the Medical Engineering Department

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## Section 3 AED Procedure

### SET THE SIMULATOR TO 'VF' (TOP LEFT BUTTON)

Complete the below steps;

Prepare for defibrillation by

- Removing patients clothing
- Position pads as shown on pads packaging
- Ensure good contact with pads – dry chest, clip / shave chest hair
- Connect the pads to the patient shock cable

Step 1	Turn the mode dial to AED
Step 2	Follow the voice and visual prompts from the AED
Step 3	When prompted push the shock button
Step 4	Silence the metronome by reducing the volume
Step 5	Review all onscreen instructions
Step 6	<b>Set NSR on the simulator</b> and repeat step 2
Step 7	Change the patient category to paediatrics
Step 8	Turn the device off

*NB: The D3 will automatically disarm after 30 seconds*

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## Section 4 Manual Defibrillation Procedure

### SET THE SIMULATOR TO 'VF' (TOP LEFT BUTTON)

Complete the below steps;

Prepare for defibrillation by

- Removing patients clothing
- Position pads as shown on pads packaging
- Ensure good contact with pads – dry chest, clip / shave chest hair
- Connect the pads to the patient shock cable

Step 1	Turn the mode dial to manual defib
Step 2	Review the on-screen information and parameters
Step 3	Charge and Shock at 200J
Step 4	Increase the energy to 300J
Step 5	Charge and Disarm the defibrillator
Step 6	Identify the impedance calculator
Step 7	Disconnect and reconnect the reusable CO2 connector
Step 8	Connect and disconnect the CO2 filterline
Step 9	Mark amiodarone on the event log
Step 10	Change the patient category to neonatal and back to adult
Step 11	Access the event summary menu
Step 12	Access the archives menu
Step 13	Turn the device off

*NB: Escalate defibrillation energy manually from 200 – 300 – 360 joules during cardiac arrest.*

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## Section 5 Cardioversion Procedure

### SET THE SIMULATOR TO 'VT-HI' (TOP ROW, SECOND BUTTON)

Complete the below steps;

Prepare for defibrillation by

- Removing patients clothing
- Position pads as shown on pads packaging
- Ensure good contact with pads – dry chest, clip / shave chest hair
- Connect the pads to the patient shock cable

Step 1	Turn the mode dial to manual defib
Step 2	Select the appropriate energy level – for training start with 100J
Step 3	Push 'Enter Sync' and confirm action
Step 4	Note the white R wave markers
Step 5	Charge the defibrillator
Step 6	Push and <u>HOLD</u> the flashing shock button
Step 7	Repeat step 2 to 5, at 200 joules
Step 8	Push the 'Disarm' softkey
Step 9	Turn the device off

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## Section 6 Pacing Procedure

### SET THE SIMULATOR TO 'S BRDY' (SECOND ROW UP)

Complete the below steps;

Prepare for defibrillation by

- Removing patients clothing
- Position pads as shown on pads packaging
- Ensure good contact with pads – dry chest, clip / shave chest hair
- Connect the pads to the patient shock cable
- **Connect 3 lead cable to the device and the patient**

Step 1	Turn the mode dial to pacer mode
Step 2	Ensure the white R wave markers appear above each R wave
Step 2a	If R wave markers are not seen change the lead
Step 3	Change the pacer rate to 80ppm
Step 4	Change the pacer output to 80mA
Step 5	Note the onscreen pacing spikes as the energy increases
Step 6	Note the broadened QRS complex when capture is achieved
Step 7	Note the increase in Heart Rate to that of the pacer
Step 8	Press and hold the 4:1 key to review the patient's own rhythm
Step 9	Turn the device off

*NB: Electrical capture is only achieved when a pacing spike is followed by broadened QRS. Energy in mA required for pacing is different for each patient – pacer rates and output specified within this document are for training purposes and based on simulators.*

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## Section 7 Monitoring Procedure

Complete the below steps;

Prepare monitoring by connecting all relevant cables to the device and the patient.

**Put the SP02 sensor on your non dominant hands left index finger.**

Step 1	Turn the mode dial to monitor
Step 3	Select the patient category neonatal
Step 4	Select SP02 set up menu by selecting SP02
Step 5	Adjust the sensitivity to low
Step 6	Select para alarms – adjust SP02 the alarm threshold to 90
Step 7	Return to the main menu
Step 8	Note how to record a NIBP
Step 9	Review the NIBP setup menu and review options available
Step 10	Freeze the onscreen information
Step 11	Review trend data available
Step 12	Note the alarm lamp location
Step 13	Note the alarm reset button
Step 14	Turn the device off

**THIS IS THE END OF FACILITATION TRAINING  
PLEASE ENSURE YOU HAVE SIGNED THE REGISTER**