

Learning Objectives for Clients and Caregivers

For ResMed™
Stellar™150



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Client Name: _____

DOB: _____ (yyyy/mm/dd)

Caregiver(s) Present: _____

Clinical Educator: _____

Date: _____

GOAL:

To develop knowledge, understanding and skills related to using the Stellar™150 Bi-Level device.

CLINICAL EDUCATOR OBJECTIVES:

- To demonstrate the set-up, maintenance and troubleshooting of the Stellar™150
- To explain the rationale for ventilation and alarms
- To assess client and caregivers understanding of the information

Learning Objectives: The learner(s) will be able to:	Goal Met	N/A
1. Explain why the Stellar™150 Bi-Level device is needed		
2. Identify when the device is to be used		
3. Discuss any symptoms the client may experience if: <ul style="list-style-type: none"> • The device is not used as prescribed • The device is not performing optimally • The prescribed settings need to be adjusted 		
4. Explain the limitations of the device as it relates to the disease progression or setbacks such as respiratory infections		
5. Discuss the prescribed settings and what they mean		
6. Identify the following components on the device <ul style="list-style-type: none"> • AC/DC power sockets • On/Standby button • RCM data port • USB data port • XPOD pulse oximeter connection • Oxygen inlet • Air filter • Air outlet • Humidifier release latch • VEP asset number and contact information 		

Learning Objectives: The learner(s) will be able to:	Goal Met	N/A
<p>7. Power supply - Demonstrate how to:</p> <ul style="list-style-type: none"> • Connect device to AC power supply • Identify what power source ventilator is using <ul style="list-style-type: none"> ◦ AC, DC or internal battery • Connect device to back up battery 		
<p>8. Explain what to do in the event of a power failure</p> <ul style="list-style-type: none"> • Discuss duration of batteries 		
<p>9. Demonstrate how to power device on and off</p>		
<p>10. Demonstrate how and when to replace air inlet filter</p>		
<p>11. Demonstrate how to connect RCM</p>		
<p>12. Demonstrate how to connect and disconnect low flow oxygen at rear of device</p> <ul style="list-style-type: none"> • Explain the importance of stopping oxygen flow when device is in standby mode 		
<p>13. Identify the following components on the control panel</p> <ul style="list-style-type: none"> • LED power indicator • LCD screen • Battery indicator • Alarm LED • Alarm mute • Start/stop button • Therapy LED • Push dial • Menu keys (monitor, setup and info) • Ramp 		
<p>14. Demonstrate how to attach and detach the humidifier</p> <ul style="list-style-type: none"> • Discuss why a humidifier may be required • Discuss when and how to adjust level of humidifier (ie water in tube) • Explain why not to drain water from the tube back into the humidifier • Discuss why the use of distilled water is recommended 		

Learning Objectives: The learner(s) will be able to:	Goal Met	N/A
<p>15. Demonstrate how to disassemble, reassemble and fill the humidifier chamber</p> <ul style="list-style-type: none"> • Discuss use of disposable and reusable chambers • Discuss how to clean humidifier chambers 		
<p>16. Demonstrate how to connect and disconnect the tubing</p>		
<p>17. Set up of the Stellar™150</p> <ul style="list-style-type: none"> • Connect AC power cord to Stellar™150 and directly to AC electrical outlet • Power ON • Attach humidifier to device • Connect tubing to humidifier or device outlet • Connect patient interface to tubing • Perform learn circuit 		
<p>18. Learn Circuit</p> <ul style="list-style-type: none"> • Discuss the purpose of the Learn Circuit procedure • Discuss when the Learn Circuit procedure should be completed • Demonstrate how to perform the Learn Circuit procedure 		
<p>19. Demonstrate functional test to be done prior to each use (See appendix A from Stellar™ FSN - Dec 5, 2019 or ResMed™ User Guide)</p> <ul style="list-style-type: none"> • Check integrity of tube and mask • Power on device to check visual and audible alarm present • Check settings before use 		
<p>20. Identify key parts of the mask including exhalation ports</p>		
<p>21. Demonstrate how to apply the mask, start therapy and how to:</p> <ul style="list-style-type: none"> • Adjust mask for an adequate seal and minimal leak • Relieve sore spots, redness or irritation around mask • Verify adequate flow from exhalation port 		
<p>22. Demonstrate how to monitor leak value on home page</p> <ul style="list-style-type: none"> • Less than 24 L/min 		

Learning Objectives: The learner(s) will be able to:	Goal Met	N/A
<p>23. Use of the Stellar™ 50</p> <ul style="list-style-type: none"> • Demonstrate how to use the menus <ul style="list-style-type: none"> ◦ Monitoring, treatment (main screen) ◦ Setup <ul style="list-style-type: none"> › Review prescribed settings and alarms ◦ Info <ul style="list-style-type: none"> › Event summary, leak information, AHI 		
<p>24. Alarms</p> <ul style="list-style-type: none"> • Audible and visual indicators • Muting alarms • Accessing event summary to review alarms • High priority - Red LED • Medium priority - Yellow LED • Low priority - Yellow LED 		
<p>25. Troubleshooting alarms</p> <ul style="list-style-type: none"> • Discuss and demonstrate potential device alarms and how to respond related to: <ul style="list-style-type: none"> ◦ Circuit disconnect ◦ High pressure/blocked tube ◦ Non-vented mask ◦ Minute volume alarms (change in clinical condition vs circuit leak) ◦ Loss of power 		
<p>26. Cleaning and maintenance - see Stellar™150 Cleaning Guide</p> <ul style="list-style-type: none"> • Daily <ul style="list-style-type: none"> ◦ Wash mask ◦ Wash humidifier chamber • Weekly <ul style="list-style-type: none"> ◦ Wash tube ◦ Wash headgear of mask • Monthly <ul style="list-style-type: none"> ◦ Wipe exterior of device • Every 6 months <ul style="list-style-type: none"> ◦ Replace filter 		

Learning Objectives: The learner(s) will be able to:	Goal Met	N/A
27. List names and phone numbers of persons to contact for: <ul style="list-style-type: none"> • Medical emergencies (ventilation care team, hospital, 911) • Equipment troubleshooting (VEP) • Power emergencies • Purchased supplies through vendor (mask, tube and filters) 		
28. Explain the role of the Ventilator Equipment Pool as it pertains to: <ul style="list-style-type: none"> • Reordering supplies (humidifier chamber, oxygen attachment connector) • Troubleshooting equipment • Parameters are prescribed by the referring center • Obligation to return equipment • Equipment must be returned if discontinued by prescriber • Client must participate in preventative maintenance, recalls and troubleshooting if necessary 		
29. Explain why the device is not a life support system		
30. List the name and phone number of the prescribing doctor		

References

1. ResMed™. (2012). *Stellar™150 Invasive and Noninvasive Ventilator Clinical Guide*

Disclaimer

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