

# Learning Objectives for Clients and Caregivers

For Philips™ Respironics™  
BiPAP™ A40 Pro



## Questions?

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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 BiPAP™ A40 Pro Bi-Level device.

## CLINICAL EDUCATOR OBJECTIVES:

- To demonstrate the set-up, maintenance and troubleshooting of the BiPAP™ A40 Pro
- 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
<b>1. Explain why the BiPAP™ A40 Pro Bi-Level device is needed</b>		
<b>2. Identify when the device is to be used</b>		
<b>3. Discuss any symptoms the client may experience if:</b> <ul style="list-style-type: none"> <li>• The device is not used as prescribed</li> <li>• The device is not performing optimally</li> <li>• The prescribed settings need to be adjusted</li> </ul>		
<b>4. Explain the limitations of the device as it relates to the disease progression or setbacks such as respiratory infections</b>		
<b>5. Identify the following components on the device</b> <ul style="list-style-type: none"> <li>• Filters</li> <li>• Low flow oxygen inlet port (<i>up to 15L/min</i>)</li> <li>• AC power inlet</li> <li>• DC power inlet</li> <li>• Accessory slot (<i>Modem or SpO<sub>2</sub> module</i>)</li> <li>• SD card slot</li> <li>• Side cover for humidifier</li> <li>• Air outlet port</li> <li>• Side cover for detachable battery (<i>if applicable</i>)</li> <li>• Display screen</li> <li>• Power ON/OFF button</li> <li>• Alarm indicator/mute button</li> <li>• Navigation and select buttons</li> </ul>		

Learning Objectives: The learner(s) will be able to:	Goal Met	N/A
<p><b>6. Power supply - Demonstrate how to:</b></p> <ul style="list-style-type: none"> <li>• Connect device to AC power supply</li> <li>• Identify what power source ventilator is using               <ul style="list-style-type: none"> <li>◦ AC, DC or detachable battery</li> </ul> </li> <li>• Connect device to back up battery</li> </ul>		
<p><b>7. Explain what to do in the event of a power failure</b></p> <ul style="list-style-type: none"> <li>• Discuss duration of batteries</li> </ul>		
<p><b>8. Demonstrate how to power device on and off</b></p> <ul style="list-style-type: none"> <li>• Standby mode</li> <li>• Power off by holding power button for 3 seconds</li> </ul>		
<p><b>9. Demonstrate how and when to replace air inlet filters</b></p> <ul style="list-style-type: none"> <li>• White (disposable)</li> <li>• Grey (reusable)</li> </ul>		
<p><b>10. Demonstrate how to connect modem</b></p>		
<p><b>11. Demonstrate how to connect and disconnect low flow oxygen at rear of device</b></p> <ul style="list-style-type: none"> <li>• Explain the importance of stopping oxygen flow when device is in standby mode</li> </ul>		
<p><b>12. Identify the following features on the display screen</b></p> <ul style="list-style-type: none"> <li>• Mode</li> <li>• Pressure bar</li> <li>• Lock</li> <li>• Humidifier setting</li> <li>• Battery indicator/power source</li> <li>• Menu</li> <li>• Ramp</li> </ul>		
<p><b>13. Set up of the BiPAP™ A40 Pro</b></p> <ul style="list-style-type: none"> <li>• Connect AC power cord to A40 Pro and directly to AC electrical outlet</li> <li>• Power ON</li> <li>• Attach humidifier to device</li> <li>• Connect tubing to humidifier or device outlet</li> <li>• Connect patient interface to tubing</li> </ul>		

Learning Objectives: The learner(s) will be able to:	Goal Met	N/A
<p><b>14. Demonstrate how to attach and detach the humidifier</b></p> <ul style="list-style-type: none"> <li>• Discuss why a humidifier may be required</li> <li>• Discuss when and how to adjust level of humidifier (ie water in tube)</li> <li>• Explain why not to drain water from the tube back into the humidifier</li> <li>• Discuss why the use of distilled water is recommended</li> </ul>		
<p><b>15. Demonstrate how to disassemble, reassemble and fill the humidifier chamber</b></p>		
<p><b>16. Demonstrate how to connect and disconnect both heated and standard tube</b></p>		
<p><b>17. Identify key parts of the mask including exhalation ports</b></p>		
<p><b>18. Demonstrate how to apply the mask, start therapy and how to:</b></p> <ul style="list-style-type: none"> <li>• Adjust mask for an adequate seal and minimal leak</li> <li>• Relieve sore spots, redness or irritation around mask</li> <li>• Verify adequate flow from exhalation port</li> </ul>		
<p><b>19. Demonstrate how to monitor leak value on home page</b></p> <ul style="list-style-type: none"> <li>• Green - Acceptable leak</li> <li>• Yellow - Large leak</li> <li>• Amber - Excessive leak or low leak</li> </ul>		
<p><b>20. Use of the BiPAP™ A40 Pro</b></p> <ul style="list-style-type: none"> <li>• Demonstrate how to access Menu to review: <ul style="list-style-type: none"> <li>◦ Safely remove SD card</li> <li>◦ My Settings <ul style="list-style-type: none"> <li>› Tubing type, rise time, ramp and humidifier</li> </ul> </li> <li>◦ Options <ul style="list-style-type: none"> <li>› Brightness, screensaver and date/time</li> </ul> </li> <li>◦ Alarm log</li> <li>◦ Information</li> </ul> </li> </ul>		

Learning Objectives: The learner(s) will be able to:	Goal Met	N/A
<p><b>21. Alarms</b></p> <ul style="list-style-type: none"> <li>• Audible and visual indicators</li> <li>• Silencing and resetting alarms</li> <li>• Accessing alarm log to review alarms</li> <li>• High priority - Red flashing - Requires immediate response</li> <li>• Medium priority - Yellow flashing - Requires prompt response</li> <li>• Low priority - Yellow solid - Requires user awareness</li> </ul>		
<p><b>22. Troubleshooting alarms</b></p> <ul style="list-style-type: none"> <li>• Discuss potential device alarms and how to respond related to: <ul style="list-style-type: none"> <li>◦ Circuit disconnect</li> <li>◦ High pressure/obstruction</li> <li>◦ Low circuit leak (Non-vented mask)</li> <li>◦ Minute volume alarms (change in clinical condition vs circuit leak)</li> <li>◦ Loss of power</li> </ul> </li> </ul>		
<p><b>23. Cleaning and maintenance - see BiPAP™ A40 Pro Cleaning Guide</b></p> <ul style="list-style-type: none"> <li>• Daily <ul style="list-style-type: none"> <li>◦ Wash mask</li> <li>◦ Wash humidifier chamber</li> </ul> </li> <li>• Weekly <ul style="list-style-type: none"> <li>◦ Wash tube</li> <li>◦ Wash headgear of mask</li> <li>◦ Wipe exterior of device</li> </ul> </li> <li>• Monthly <ul style="list-style-type: none"> <li>◦ Grey filter - rinse monthly</li> <li>◦ White filter - replace monthly</li> </ul> </li> <li>• Every 6 months <ul style="list-style-type: none"> <li>◦ Grey filter - replace</li> </ul> </li> </ul>		
<p><b>24. List names and phone numbers of persons to contact for:</b></p> <ul style="list-style-type: none"> <li>• Medical emergencies (ventilation care team, hospital, 911)</li> <li>• Equipment troubleshooting (VEP)</li> <li>• Power emergencies</li> <li>• Purchased supplies through vendor (mask, tube and filters)</li> </ul>		

Learning Objectives: The learner(s) will be able to:	Goal Met	N/A
<p><b>25. Explain the role of the Ventilator Equipment Pool as it pertains to:</b></p> <ul style="list-style-type: none"> <li>• Reordering supplies (humidifier chamber, oxygen attachment connector)</li> <li>• Troubleshooting equipment</li> <li>• Parameters are prescribed by the referring center</li> <li>• Obligation to return equipment</li> <li>• Equipment must be returned if discontinued by prescriber</li> <li>• Client must participate in preventative maintenance, recalls and troubleshooting if necessary</li> </ul>		
<p><b>26. Explain why the device is not a life support system</b></p>		
<p><b>27. List the name and phone number of the prescribing doctor</b></p>		

## References

1. Philips™ Respironics™. (2019). *BiPAP™ A40Pro User Manual*
2. Philips™ Respironics™. (2018). *System One Heated Humidifier User Manual*

## Disclaimer

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