



# HEARTMATE™ LVAS PATIENT DISCHARGE EDUCATION CHECKLIST

EDUCATIONAL TOPIC	PATIENT	CAREGIVER	DATE/INITIALS	DATE/INITIALS	DATE/INITIALS
<b>SYSTEM COMPONENTS</b>					
1. Received copy of device-specific patient handbook					
2. Verbalizes overview of system operation, major warnings, and cautions (pages _____)					
3. Identify all system components by proper name					
4. Driveline <ul style="list-style-type: none"> <li>• Importance of constant connection</li> <li>• Safety tab locked, daily check</li> <li>• How to check modular cable daily, locked vs. unlocked (HeartMate 3™ LVAS only)</li> <li>• Practice insert/disconnect on mock loop or training driveline</li> </ul>					
5. Active System Controller <ul style="list-style-type: none"> <li>• Green running symbol identified</li> <li>• Battery button functions               <ul style="list-style-type: none"> <li>– Power gauge (change batteries at 25%)</li> <li>– Daily self-test</li> <li>– Sleep mode</li> </ul> </li> <li>• Alarm Silence button functions               <ul style="list-style-type: none"> <li>– Hazard vs. advisory silence periods</li> <li>– Last six alarms review when pressed with display button</li> </ul> </li> <li>• Display button functions               <ul style="list-style-type: none"> <li>– Display all four parameters</li> <li>– Display status of Emergency Backup Battery (EBB)</li> </ul> </li> </ul>					
6. Backup System Controller <ul style="list-style-type: none"> <li>• Aware that must match primary controller settings (HeartMate II™ only)</li> </ul>					
7. Emergency Backup Battery – Understands the following: <ul style="list-style-type: none"> <li>• 15 minutes power at full speed for emergencies only</li> <li>• Recharge EBB in backup controller every 6 months in clinic to maintain EBB charge</li> <li>• EBB needs to be replaced at 30–36 months from the manufacture date – Due: _____</li> <li>• “Backup Battery Fault” is an advisory alarm, call the VAD team, DO NOT TROUBLESHOOT</li> </ul>					
8. HeartMate™ LVAS 14 Volt Lithium-Ion Batteries <ul style="list-style-type: none"> <li>• Demonstrates how to check charge of individual battery</li> <li>• Battery life of set</li> <li>• Weekly cleaning of contacts with alcohol pad</li> <li>• Demonstrates going from Power Module to batteries</li> <li>• HeartMate™ LVAS 14 Volt Lithium-Ion Batteries</li> <li>• Equal rotation of batteries</li> <li>• 3-year/360-use product life</li> </ul>					

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<b>SYSTEM COMPONENTS (CONTINUED)</b>					
9. HeartMate™ LVAS Battery Clips <ul style="list-style-type: none"> <li>• Demonstrates insertion and removal of battery in clip</li> <li>• Weekly cleaning of contacts with alcohol pad</li> </ul>					
10. HeartMate™ LVAS Battery Charger <ul style="list-style-type: none"> <li>• Demonstrates setup</li> <li>• Demonstrates charging a battery</li> <li>• Understands meaning of indicator lights</li> <li>• Demonstrates how to check # of uses</li> <li>• How/when to recalibrate a battery</li> <li>• Weekly cleaning of contacts with alcohol pad</li> <li>• Yearly maintenance check by trained personnel</li> <li>Due: _____</li> </ul>					
11. HeartMate™ LVAS Power Module (PM) <ul style="list-style-type: none"> <li>• Demonstrates setup</li> <li>• Demonstrates self-test</li> <li>• Meaning of each indicator light and when to call VAD team</li> <li>• Presence of PM internal battery for 30 minutes of emergency power, keep plugged in at all times</li> <li>• Need for three-pronged grounded outlet, <b>not</b> connected to light switch or power strip</li> <li>• Yearly maintenance check and battery replacement by trained personnel – Due: _____</li> <li>• Demonstrates changing from battery power to PM</li> </ul>					
12. Mobile Power Unit™ Module (MPU) <ul style="list-style-type: none"> <li>• Demonstrates setup</li> <li>• Meaning of each indicator light and when to call VC</li> <li>• Understands importance of “black to black” and “white to white” on patient cable</li> <li>• Presence of three AA batteries to echo controller alarm tones</li> <li>• Demonstrates how to replace AA batteries every 6 months – Due: _____</li> </ul>					
13. Backup Bag <ul style="list-style-type: none"> <li>• Backup bag must be with patient <b>at all times</b></li> <li>• Contents: backup System Controller, two fully charged batteries, two battery clips, emergency contact information, and pocket guides</li> </ul>					
14. GoGear™ Wearables <ul style="list-style-type: none"> <li>• Demonstrates setup and use of preferred wearable</li> <li>• Discuss hand washing and air drying of wearables</li> </ul>					
15. GoGear™ Shower Bag <ul style="list-style-type: none"> <li>• Demonstrates setup and use</li> <li>• Understands use of shower bag is subject to clearance by medical team</li> </ul>					

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<b>DAILY LIVING</b>					
16. Change in basic vital signs due to continuous-flow LVAD <ul style="list-style-type: none"> <li>• Absent /intermittent pulse</li> <li>• Mean Arterial Blood Pressure (MAP) goal of 70–90 mmHg               <ul style="list-style-type: none"> <li>– Home BP expectations if applicable, call parameters</li> <li>– Signs and symptoms of high and low blood pressure</li> </ul> </li> <li>• Pulse oximetry may be inaccurate</li> </ul>					
17. Meaning of four pump parameters, his/her baseline numbers, and when to call					
18. Documents vital signs and pump parameters on home flowsheet					
19. Current daily weight and when to call					
20. Anticoagulation <ul style="list-style-type: none"> <li>• Personal INR goal: _____</li> <li>• Expectations if too high or too low</li> <li>• Who will manage? How often?</li> </ul>					
21. Coumadin precautions <ul style="list-style-type: none"> <li>• Signs and symptoms of adverse events (stroke, GI bleeding, thrombus, etc.)</li> <li>• Who/when to call for dosage instructions and bloodwork frequency</li> <li>• Home INR teaching, if applicable</li> </ul>					
22. Heart healthy/post-surgical nutrition					
23. Sleeping precautions <ul style="list-style-type: none"> <li>• Minimize driveline trauma</li> <li>• Always sleep on AC power</li> <li>• Do not place System Controller under blanket or on bare skin</li> </ul>					
24. Principles/restrictions of post-surgical activity					
25. Driving restrictions					
26. Traveling with a HeartMate™ LVAD					
27. Showering guidelines					
28. Post-surgical intimacy					
29. States signs and symptoms of depression/anxiety and resources for mental health					
30. Understands discharge medication list					
31. Understands follow-up appointment schedule and process for future readmission (VAD trained hospitals only)					
<b>ALARMS AND EMERGENCY CARE</b>					
32. Importance of calling VAD team for <b>all</b> alarms and where to find the phone number _____					
33. Understands advisory (yellow) alarms and who to call – no self-troubleshooting					
34. Understanding hazard (red) alarms, who to call and troubleshooting					

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<b>ALARMS AND EMERGENCY CARE (CONTINUED)</b>					
35. Understands indications and demonstrates controller change					
36. When to call VAD team and 911 for medical emergencies (stroke, ICD shock, injury, etc.)					
37. Plan for awareness of local EMS/Fire/Police by patient and caregiver					
38. Plan for prolonged power outage discussed					
<b>DRIVELINE EXIT SITE CARE</b>					
39. Provided hospital specific dressing change protocol instructions, identify components					
40. Process for replacement dressing supplies					
41. Signs and symptoms of infection, when/who to call (driveline staging chart given)					
42. Action plan for driveline trauma or controller drops					
43. Demonstrates dressing change using sterile technique on mannequin/training guide					
44. Demonstrates dressing change using sterile technique on patient					
<b>OTHER LEARNING TOOLS</b>					
45. Watched device-specific Patient Education Program DVD					
46. Completed LVAD test (written or oral, if available)					
<b>CENTER SPECIFIC TEACHING</b>					
47.					
48.					
49.					

INITIALS	SIGNATURE OF EDUCATOR	INITIALS	SIGNATURE OF EDUCATOR

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**Rx Only**

**Brief Summary:** Prior to using these devices, please review the Instructions for Use for a complete listing of indications, contraindications, warnings, precautions, potential adverse events and directions for use.

**HeartMate 3™ LVAS Indications:** The HeartMate 3™ Left Ventricular Assist System is indicated for providing short- and long-term mechanical circulatory support (e.g., as bridge to transplant or myocardial recovery, or destination therapy) in adult and pediatric patients with advanced refractory left ventricular heart failure and with an appropriate body surface area.

**HeartMate II™ LVAS Indications:** The HeartMate II™ Left Ventricular Assist System is indicated for use as a “bridge to transplantation” for cardiac transplant candidates who are at risk of imminent death from non-reversible left ventricle failure. It is also indicated for use in patients with New York Heart Association (NYHA) Class III or IV end-stage left ventricular failure, who have received optimal medical therapy for at least 45 of the last 60 days, and who are not candidates for cardiac transplantation. The HeartMate II Left Ventricular Assist System is intended for use both inside and outside of the hospital, or for transportation of Left Ventricular Assist Device patients via ground ambulance, airplane, or helicopter.

**HeartMate 3™ and HeartMate II™ LVAS Contraindications:** The HeartMate 3 and HeartMate II Left Ventricular Assist Systems are contraindicated for patients who cannot tolerate, or who are allergic to, anticoagulation therapy.

**HeartMate 3™ and HeartMate II™ LVAS Adverse Events:** Adverse events that may be associated with the use of the HeartMate 3 or HeartMate II Left Ventricular Assist System are listed below: death, bleeding, cardiac arrhythmia, localized infection, right heart failure, respiratory failure, device malfunctions, driveline infection, renal dysfunction, sepsis, stroke, other neurological event (not stroke-related), hepatic dysfunction, psychiatric episode, venous thromboembolism, hypertension, arterial non-central nervous system (CNS) thromboembolism, pericardial fluid collection, pump pocket or pseudo pocket infection, myocardial infarction, wound dehiscence, hemolysis (not associated with suspected device thrombosis) and possible pump thrombosis.

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