



CE-APPROVAL FOR ECMO  
USE AND ACUTE VAD

# CENTRIMAG™ ACUTE CIRCULATORY SUPPORT SYSTEM

WITH FULL MAGLEV™  
FLOW TECHNOLOGY

FEWER  
STEPS TO  
**FULL  
SUPPORT**



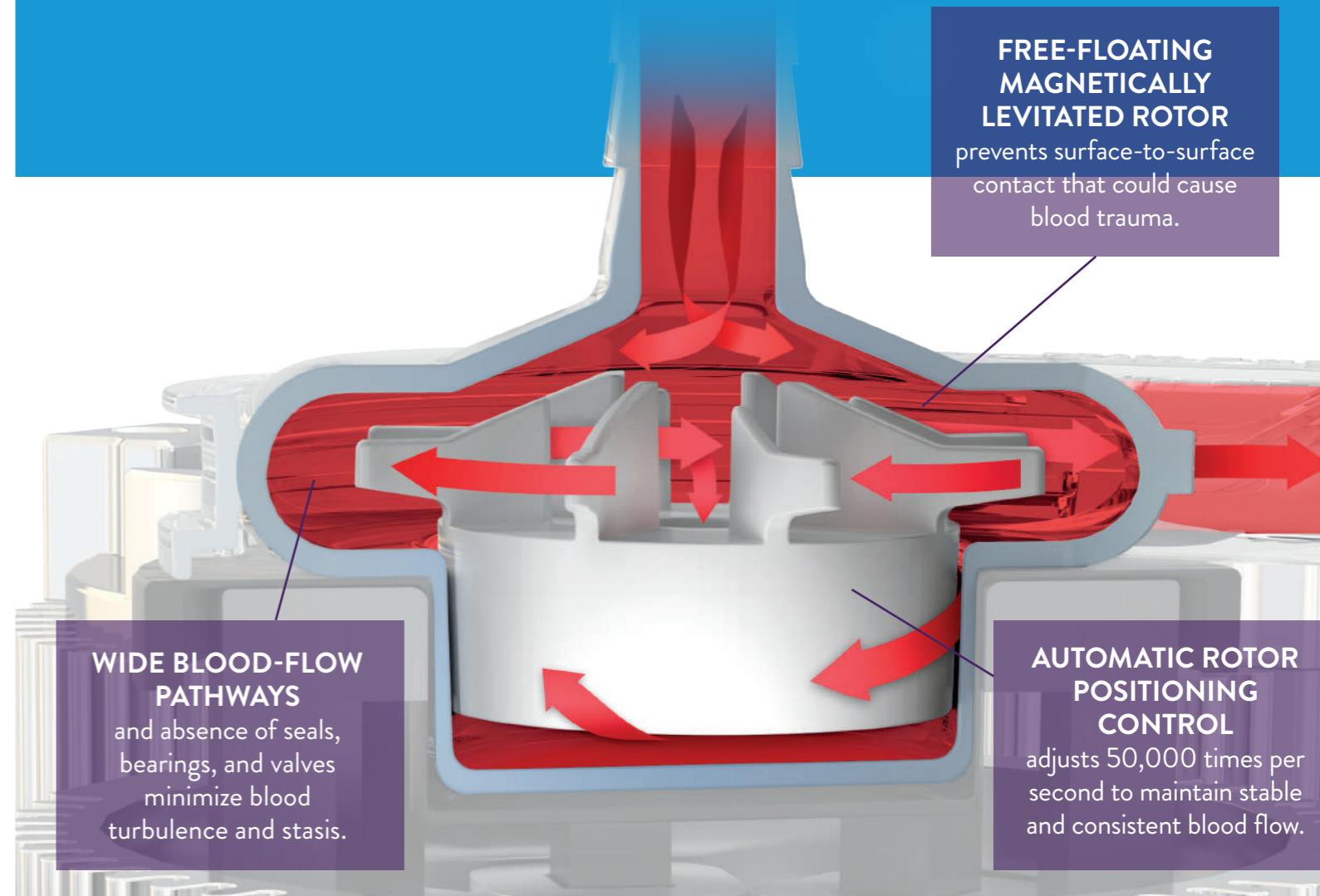
# CENTRIMAG™ ACUTE CIRCULATORY SUPPORT SYSTEM

WITH FULL MAGLEV™ FLOW TECHNOLOGY

The CentriMag™ Acute Circulatory Support System with Full MagLev™ Flow Technology is designed to deliver excellent hemocompatibility across the widest range of patient applications.<sup>1,2</sup>



# FULL MAGLEV™ FLOW TECHNOLOGY PROMOTES GENTLE BLOOD HANDLING<sup>1-3</sup>



BACKED BY AN UNMATCHED  
LEGACY OF EXPERIENCE

**LOW**

Device failure rate for  
consistent, trusted  
performance<sup>1-4</sup>

**440+**

Published  
articles<sup>6</sup>

**70,000+**

CentriMag pumps  
sold since 2006



“If it wasn’t for my incredible care team,  
and this truly amazing technology, I don’t  
believe I would be here to coach my son’s  
baseball games.”

- Mike S.

# EXCELLENT SURVIVAL OUTCOMES AT DISCHARGE AFTER ECMO

**ELSO International Summary:**  
Survival to Discharge<sup>7</sup>

**44%**  
Adult Cardiac

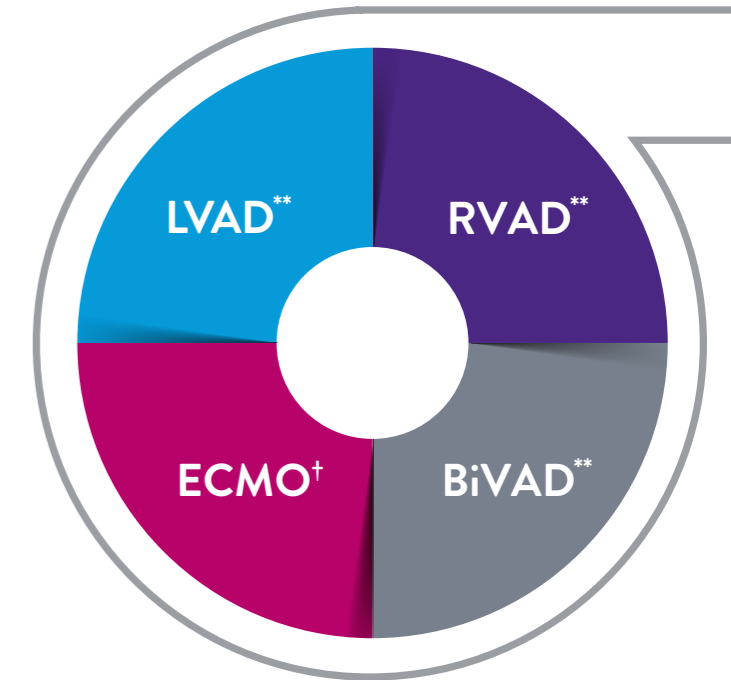
Survival to discharge for other adult support indications include: 54% overall, 30% ECPR, and 59% pulmonary.

**CentriMag™ Blood Pump:**  
Survival to Discharge<sup>8</sup>

**66%**  
Survival Rate\*

# MOST VERSATILE SYSTEM FOR ESCALATION AND DE-ESCALATION OF THERAPY<sup>9-11</sup>

CentriMag System is the most versatile platform available addressing the broadest spectrum of clinical challenges that eliminates the need to train on multiple platforms and reduces burden on centers' resources.



# PUMP DESIGNED FOR OPTIMAL HEMOCOMPATIBILITY<sup>1,2,5</sup>

FULL MAGLEV™ FLOW TECHNOLOGY ENABLES EXCELLENT HEMODYNAMICS<sup>3-5</sup>

**LOW**  
Device-related thrombosis<sup>1</sup>  
**2.5%**

**LOW**  
Hemolysis<sup>1</sup>  
**5%**

**MINIMIZED**  
Blood stagnation, friction, and shear stress<sup>2,3,5</sup>

# TRUSTED FOR A WIDE RANGE OF PATIENT TYPES AND SIZES

CentriMag System hardware (console, motor, monitor) is shared between the adult and pediatric pump options.

PRODUCES FLOWS OF UP TO 10 LPM WITH FEWER ROTATIONS PER MINUTE<sup>3</sup>

Adult and pediatric pump options available.<sup>††</sup>





# CENTRIMAG™ ADULT ECMO KIT

## FEWER STEPS TO FULL SUPPORT

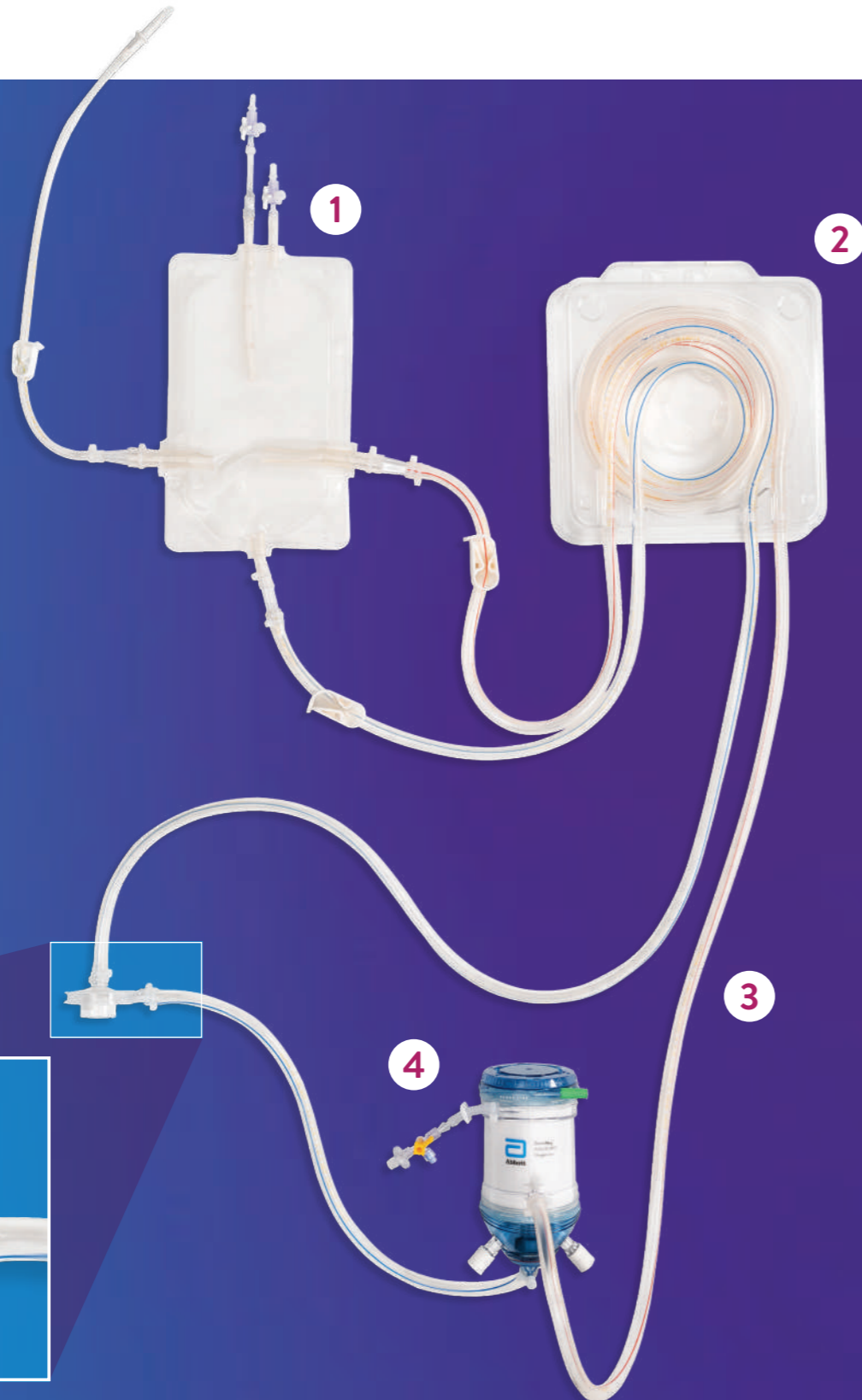
EXPERIENCE THE CONVENIENCE OF A PRE-CONNECTED CIRCUIT WITH THE CENTRIMAG™ ADULT EXTRACORPOREAL MEMBRANE OXYGENATION (ECMO) KIT

Driven by the CentriMag Blood Pump, the pre-connected circuit is a turnkey solution designed for excellent hemocompatibility and unparalleled versatility with the patient in mind.

When time is of the essence, quick and easy set-up and priming in minutes ensures optimized efficiency of patient care.

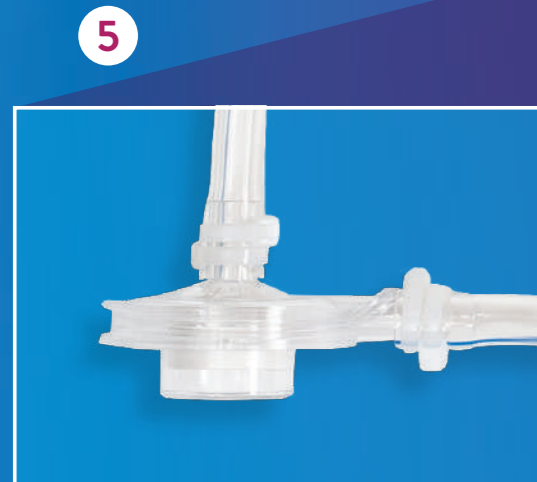
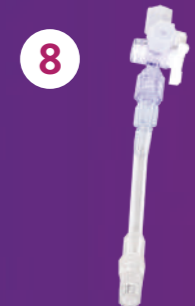
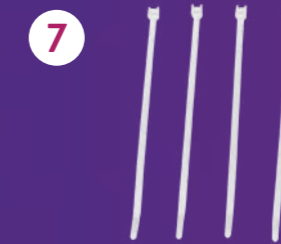
### ECMO CIRCUIT

- 1 PRIMING BAG
- 2 TUBING TRAY
- 3 PC COATED TUBING
- 4 CENTRIMAG ADULT ECMO OXYGENATOR
- 5 CENTRIMAG BLOOD PUMP



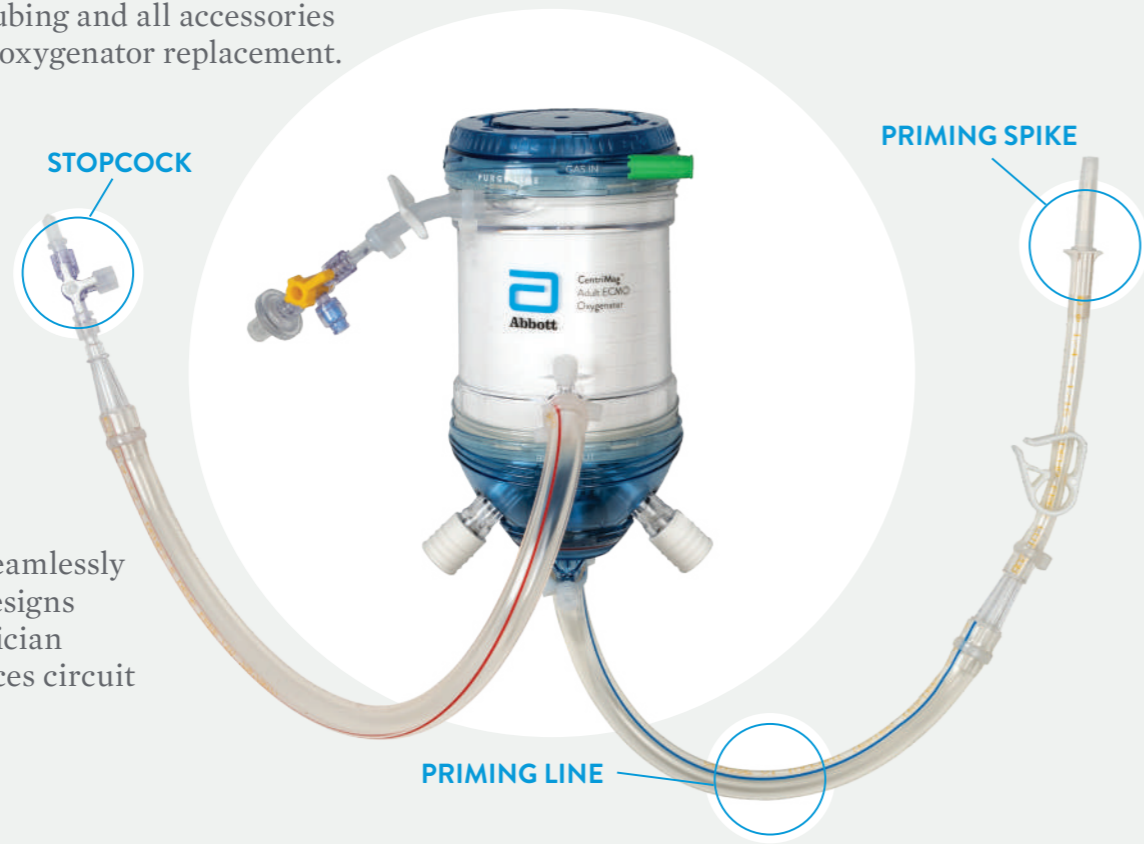
### ACCESSORIES

- 6 CUTTER (1)
- 7 TIE BANDS (8)
- 8 HIGH-FLOW PIGTAILS WITH 3-WAY STOPCOCK (4)
- 9 3/8 INCH CONNECTORS WITH LUER (2)
- 10 GAS LINE (1)
- 11 TUBING CLAMPS (5)



# CENTRIMAG™ ADULT OXYGENATOR KIT DESIGNED TO MAXIMIZE FLEXIBILITY OF REPLACING ONLY THE OXYGENATOR IN THE CIRCUIT

Kit includes a pre-connected CentriMag Adult ECMO Oxygenator, tubing and all accessories necessary for a quick oxygenator replacement.

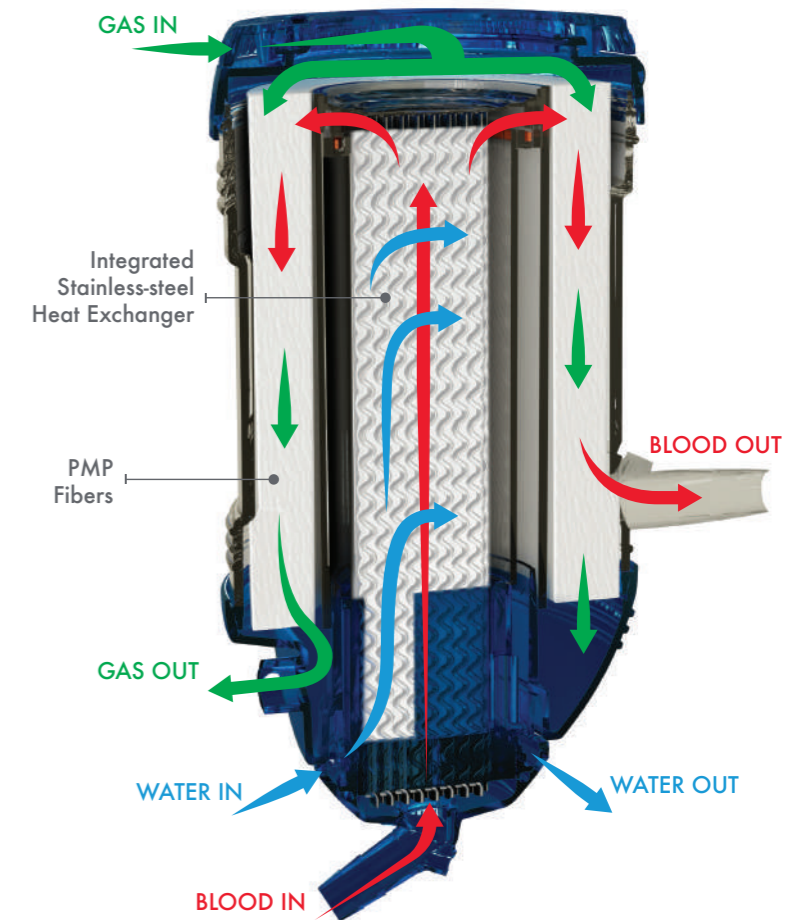


The oxygenator fits seamlessly into custom circuit designs to easily adapt to clinician preferences and reduces circuit change costs.

# CENTRIMAG ADULT ECMO OXYGENATOR BUILT FOR HEMOCOMPATIBILITY

The CentriMag Adult ECMO Oxygenator is a high flow (up to 7 LPM), low priming volume (220 ML) oxygenator with excellent gas transfer capabilities.

Microporous PMP (polymethylpentene) membrane coated with PC (phosphorylcholine) coating and integrated stainless steel heat exchanger, delivers optimal performance.



## ACCESSORY TRAY INCLUDES:

- One gas line
- Two 3/8 inch straight connectors
- Two 3/8 inch connectors with luer
- Four high-flow pigtails with 3-way stopcock
- One syringe
- Eight tie bands
- Four tubing clamps
- One cutter



**CENTRIMAG ADULT  
ECMO OXYGENATOR**

## CENTRIMAG SYSTEM SURGICAL CANNULAS

Designed for optimal blood flow that minimizes thrombus formation.  
The only VAD cannulas approved for 30-day use.





# CENTRIMAG™ SYSTEM TRANSPORTER GETS PATIENTS WHERE THEY NEED TO BE

A COMPACT MODULAR SOLUTION FOR IN-HOSPITAL  
OR OUT-OF-HOSPITAL TRANSPORTATION



The CentriMag System transporter safely transports patients inside or outside the hospital, including via ground or air ambulance (FAA approved).

The compact design holds core system components, including console, pump/motor, oxygenator and oxygen tank.

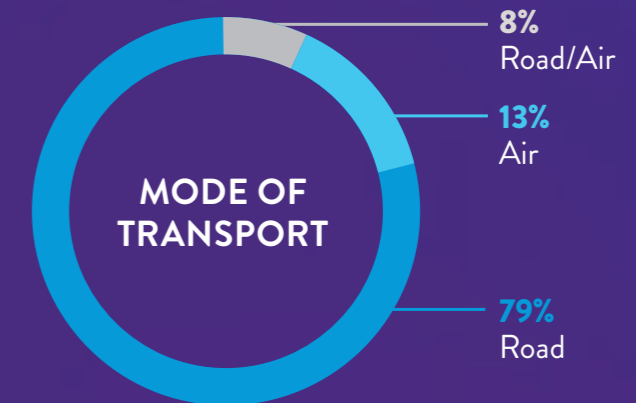


# CENTRIMAG SYSTEM TRANSPORT SUCCESS

DEMONSTRATED BY EXCELLENT REAL-WORLD EXPERIENCE<sup>12</sup>

**10 YEARS** OF TRANSPORT DATA WITH THE  
CENTRIMAG™ SYSTEM

MOBILE ECMO TRANSPORTS DEMOGRAPHIC BREAKDOWN



**5.5 HOURS** AVERAGE TRANSPORT DURATION

**NO** MAJOR COMPLICATIONS OR DEATHS DURING TRANSPORT

**84%** SURVIVAL TO HOSPITAL DISCHARGE AFTER TRANSPORT

MOBILE ECMO IS **SAFE AND RELIABLE**  
TO TRANSFER THE SICKEST OF PATIENTS

# For more information on the CentriMag™ System or how to order the CentriMag™ System components, please contact your Abbott representative.

## EMPOWERING THE TRANSFORMATION OF HEART FAILURE

From treatment to ongoing patient management, Abbott is committed to working with you to transform heart failure and improve more patient lives.

\*As part of a VA-ECMO circuit

\*\*Approved for 30-day use

† CE-approval for 14-day use of ECMO

†† CE approval for 30-day use of CentriMag™ System excludes: PediMag™ Blood Pump and any other pediatric components or accessories.

### References:

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3. Aziz TA, Singh G, Popjes E, et al. Initial experience with CentriMag extracorporeal membrane oxygenation for support of critically ill patients with refractory cardiogenic shock. *J Heart Lung Transplant.* 2010;29:66-71
4. Bhama JK, Kormos RL, Toyoda Y, et al. Clinical experience using the Levitronix CentriMag system for temporary right ventricular mechanical circulatory support. *J Heart Lung Transplant.* 2009;28:971-976.
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7. Extracorporeal Life Support Organization. ECLS Registry Report. 2020
8. Den Uil CA, Akin S, Jewbali LS, et al. Short-term mechanical circulatory support as a bridge to durable left ventricular assist device implantation in refractory cardiogenic shock: A systematic review and meta-analysis. *Euro J of Cardio-Thoracic Surgery.* 2017;52:14-25.8. Extracorporeal Life Support Organization. ECLS Registry Report. 2020
9. Takeda K, Garan AR, Ando M, et al. Minimally invasive Centrimag ventricular assist device assist device support integrated with extracorporeal membrane oxygenation in cardiogenic shock patients: a comparison with conventional Centrimag biventricular support configuration. *Euro J of Cardio-Thoracic Surgery.* 2017;52:1055-1061.
10. Takayama H, Soni L, Kalesan B, et al. Bridge-to-decision therapy with a continuous-flow external ventricular assist device in refractory cardiogenic shock of various cases. *Circ Heart Failure.* 2014;7:799-806.
11. Worku B, Pak S, Patten D, et al. The Centrimag ventricular assist device in acute heart failure refractory to medical management. *J of Heart & Lung Transplantation.* 2012;31:611-617.
12. Raspe C, Ruckert F, Metz D, et al. Inter-hospital transfer of ECMO-assisted patients with a portable miniaturized ECMO device: 4 years of experience. *Perfusion.* 2015 Jan;30(1):52-59.

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**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.

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