

## PRESS INFORMATION

# EXCOR®

## THE WORLD'S ONLY SYSTEM FOR PATIENTS OF ALL AGE GROUPS

EXCOR® is Berlin Heart's paracorporeal, pulsatile ventricular assist device. Paracorporeal means that the blood pump is outside the body, connected to the heart and the blood vessels via transcutaneous cannulae. A paracorporeal VAD (ventricular assist device) can provide support to one or both ventricles.

### Allows short-, medium-, or long-term circulatory support

Hospitals around the world use the system for short-, medium-, and long-term circulatory support. EXCOR® is usually used to bridge the time until the patient can undergo heart transplantation. In some cases, the native heart heals while on the system.

### Comprehensive solutions for a wide variety of patient needs

- LVAD (Left Ventricular Assist Device) to support the left ventricle
- RVAD (Right Ventricular Assist Device) to support the right ventricle
- BVAD (Bi-Ventricular Assist Device) to support both ventricles

### Proven Technology – high-quality products



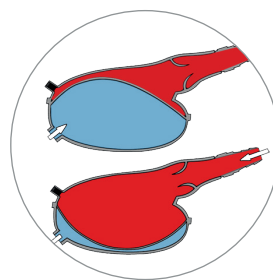
BLOODPUMPS

A blood pump consists of a blood chamber and an air chamber; separated by a membrane that consists of three separate layers.



DRIVING UNIT

The air is alternately sucked into and out of the air chamber via the pneumatic driving unit.



TRIPLE-LAYER MEMBRANE

The air movement changes the position of the triple-layer membrane. Therefore, blood is pumped into the blood pump and back into the body.



BLOODPUMP-VALVES

EXCOR® blood pumps have valves – so the blood flows only in one direction.

## EXCOR® PEDIATRIC

### The world's only approved ventricular assist device for children

*“The EXCOR® Pediatric has become an important option for our pediatric patients with severe cardiac failure, providing successful outcomes for even our smallest patients.”*

*(Dr M. Bleiweis, University of Florida, Shand's Children's Hospital)*

Berlin Heart developed the EXCOR® Pediatric VAD especially for use in children, toddlers and even infants. A wide variety of blood pumps and cannulae are available, allowing patients of all ages and body sizes to receive targeted care.

EXCOR® Pediatric has proven itself again and again since it was first used in 1990; to date, it has been used to support over 2,600 young patients. It is the only system in the world approved for children.

The access to some or all shown products may be restricted by country-specific regulatory approvals. The use of EXCOR® VAD for adults, RVAD-support, Excor mobile and EXCOR® Active is not FDA-approved.

## EXCOR® ADULT

### Unique worldwide when it comes to optimum care of BVAD patients

*“EXCOR® Adult blood pumps with bileaflet valves show an outstanding survival of 92 % in patients with biventricular heart failure.”*

*(Schmack, Bastian, et al., “Successful support of biventricular heart failure patients by new EXCOR® Adult pumps with bileaflet valves: a prospective study.” Clinical Research in Cardiology 107.5 (2018): 413-420.)*

The Berlin Heart EXCOR® Adult VAD is specially designed for the needs of BVAD patients in mind, and often represents the last chance for patients with biventricular heart failure. Since first used in 1987, the system has supported more than 1,800 patients.

In adults and older children, as soon as the patient's condition is stable, the Ikus stationary driving unit is replaced with an Excor mobile, so that the patient has the greatest possible mobility and can be discharged home.



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© Berlin Heart GmbH  
Wiesenweg 10  
D-12247 Berlin

Tel. +49 30 81 87 - 26 00  
Fax +49 30 81 87 - 26 01  
info@berlinheart.de  
www.berlinheart.de