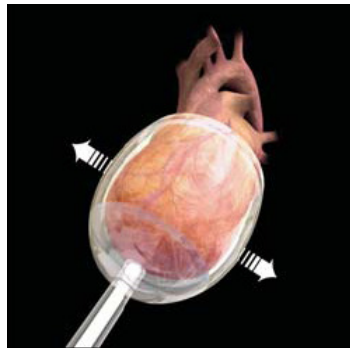


# The Myotech Circulatory Support System (CSS)

*The Myotech Circulatory Support System (CSS) is non-blood contacting heart pump for treating acute and chronic heart failure by restoring blood flow. The Myotech CSS consists of a flexible polymer cup that can be installed around the heart in approximately three minutes.*

Incorporating a pneumatically activated liner, the Myotech Circulatory Support System (CSS) operates by compressing and expanding bi-directionally, providing the energy that allows the heart to restore the input and output of blood to normal, life sustaining levels. Following years of research, the Myotech CSS technology is now in formal development on the path to commercialization. Research devices have been installed in over 700 animals and have achieved impressive results in five humans.



*In the computer illustrations above, the Myotech Circulatory Support System is shown providing active filling of the heart (left) and active emptying of the heart (right).*

The Myotech Circulatory Support System energizes the best blood pump known to man, the human heart. Since it is non blood-contacting, like virtually all existing cardiac assist devices, the Myotech CSS has the potential to avoid

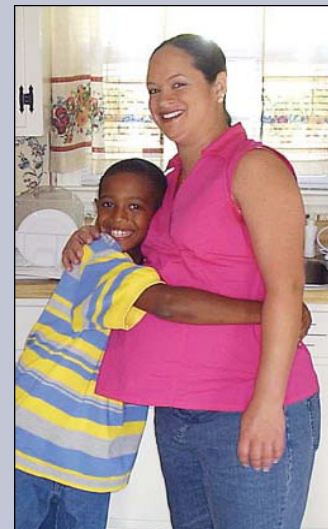
complications which plague existing devices, including stroke, bleeding, and infection. Additionally, the healing environment created by the Myotech CSS has the potential to rehabilitate many

*Continued on reverse* ▶

*Bonnie was only 17 when her heart failed. When her heart stopped beating, only a miracle could save her. Doctors applied a research-version of the Myotech Circulatory*



*Support System under emergency use guidelines in less than 3 minutes...it was all the time she could afford. The device kept Bonnie alive for seven days while her heart recovered. Bonnie survived and is now the mother of a 10-year-old son and a newborn baby.*



► Continued from front

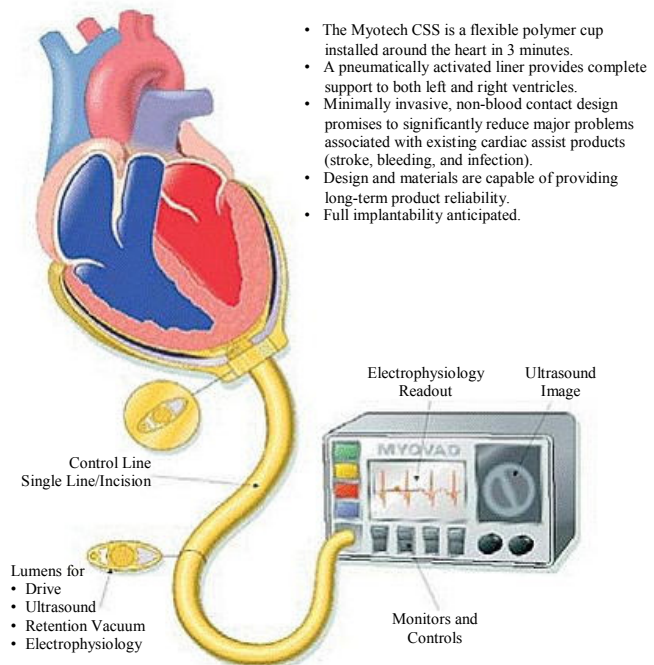
sick hearts, allowing the device to be removed and the heart to function properly again without assistance.

Plans are underway to add additional diagnostic, therapeutic, and operational capabilities to the Myotech CSS to create a family of products for treating a wide range of acute and chronic heart failure conditions.

The Myotech Circulatory Support System has the potential for use in five broad types of patient conditions.

- **Bridge-to-Recovery** – shorter-term cardiac support while the heart heals from moderate injury and recovers normal operation.
- **Acute Resuscitation** – important rapid resuscitation during cardiac emergencies to maintain cardiac output for a short period of recovery from the event.
- **Destination Therapy** – permanent support. Very significant potential since current design VAD problems and high costs hold back usage.

- **Bridge-to-Transplant** – keep patients alive until a new heart is available.
- **Therapeutic Recovery** – provides longer-term cardiac support from more serious injury enabling hearts to recover.



- The Myotech CSS is a flexible polymer cup installed around the heart in 3 minutes.
- A pneumatically activated liner provides complete support to both left and right ventricles.
- Minimally invasive, non-blood contact design promises to significantly reduce major problems associated with existing cardiac assist products (stroke, bleeding, and infection).
- Design and materials are capable of providing long-term product reliability.
- Full implantability anticipated.

### A breakthrough in treatment of heart failure

- The Myotech CSS provides cardiac support without direct blood contact.
- The Myotech CSS has the potential to greatly reduce the risk of stroke, bleeding, and infection complications, which plague Ventricular Assist Devices (VADs).

### Rapid, minimally invasive installation and removal

- The Myotech CSS is installed in approximately three minutes.
- The Myotech CSS eliminates incisions into the heart and great vessels, enhancing patient recovery and allowing simple removal of the device.

### Community and rural hospitals will be able to offer complete heart failure therapy

- The Myotech CSS is designed to be installed by any general surgeon, in contrast to current VADs which require cardiac centers and specialized training.

### Positive financial impact on the healthcare system

- The Myotech CSS is a technically simple product which will be less expensive to purchase, install and manage; much shorter hospitalizations are expected.
- The Myotech CSS has the potential to heal many damaged hearts, allowing device removal.

### A complete cardiac support system

- Biventricular — the Myotech CSS pumps both left and right ventricles.
- The Myotech CSS treats systolic heart failure (provides active emptying of the heart).
- The Myotech CSS treats diastolic heart failure (provides active filling of the heart).
- The Myotech CSS restores normal blood flow even if the heart is fully arrested or fibrillating.

**MYOTECH**