L&K BIOMED

CastleLoc

Pectus System

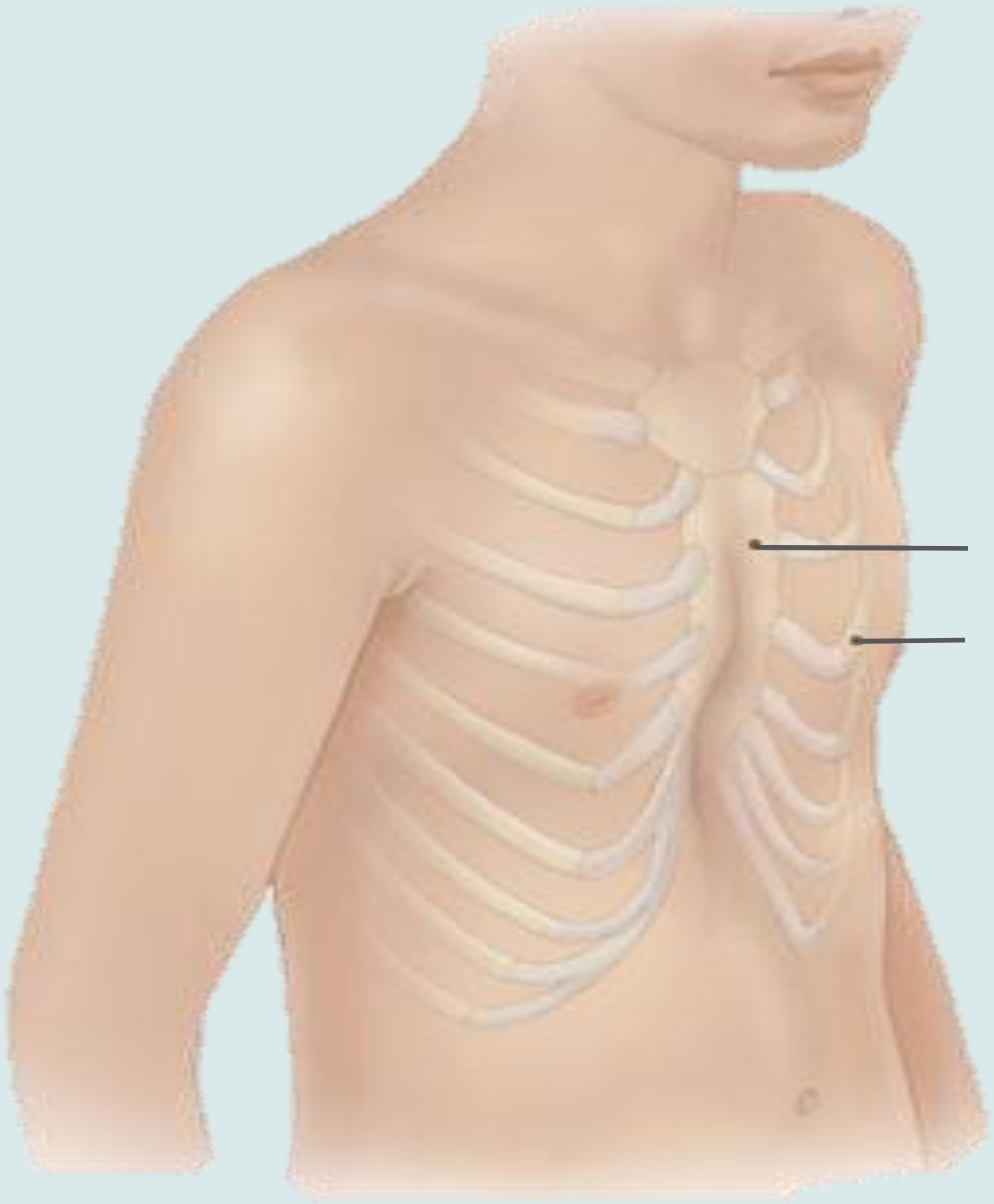
Restoring Chest Shape. Restoring Confidence.

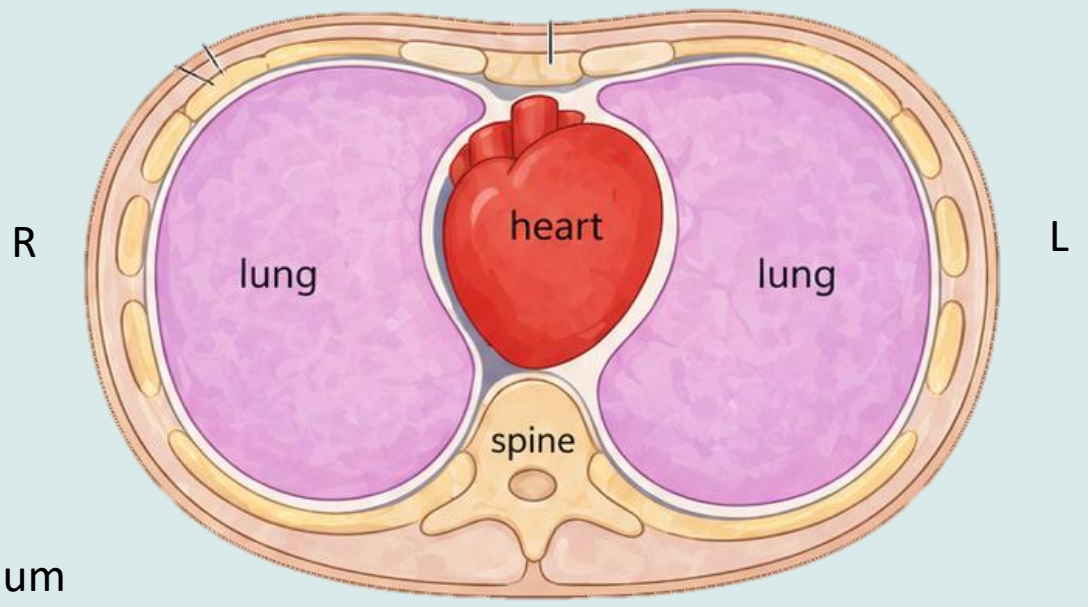
A Guide for Patients and Families



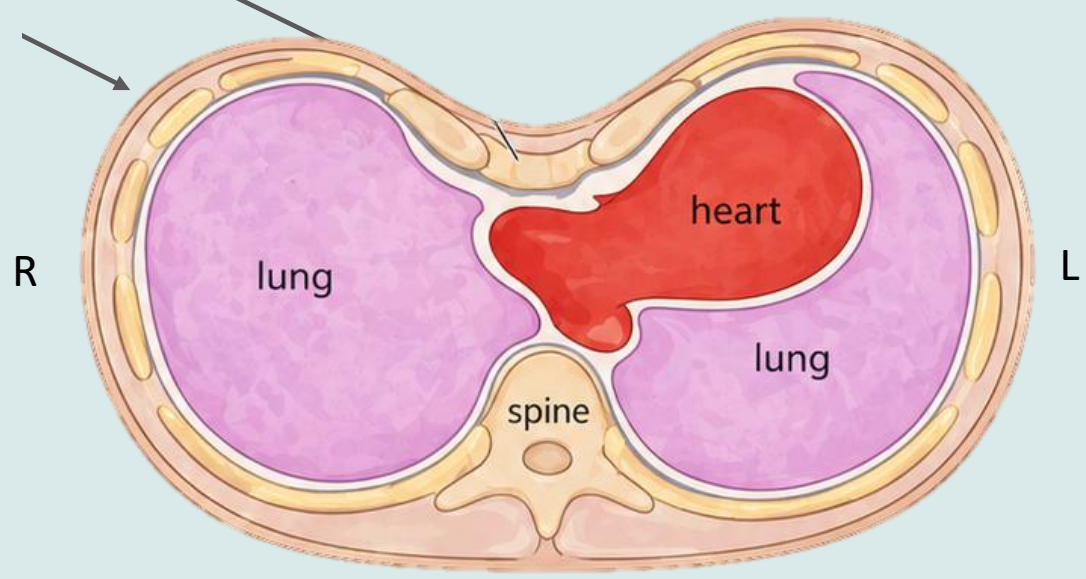
Minimally Invasive | Secure Fixation | Medical-Grade Titanium Alloy | Pediatric & Adult Use | Removable Implant

WHAT IS PECTUS EXCAVATUM?





Normal Chest



Pectus Excavatum Chest

Pectus Excavatum, commonly known as ‘sunken chest’ is a condition in which the breastbone curves inward, making a dip in the chest wall. The condition is different for everyone and affect both children and grown-ups.

Possible symptoms include:



- Chest wall deformity
- Reduced exercise tolerance
- Chest discomfort



- Shortness of breath



- Self-confidence concerns



Treatment options depend on the severity of the condition and individual patient needs.

UNDERSTADING PECTUS EXCAVATUM

How Common Is Pectus Excavatum?

Pectus Excavatum is one of the most common chest wall deformities.

👥 1 in 300–400 People

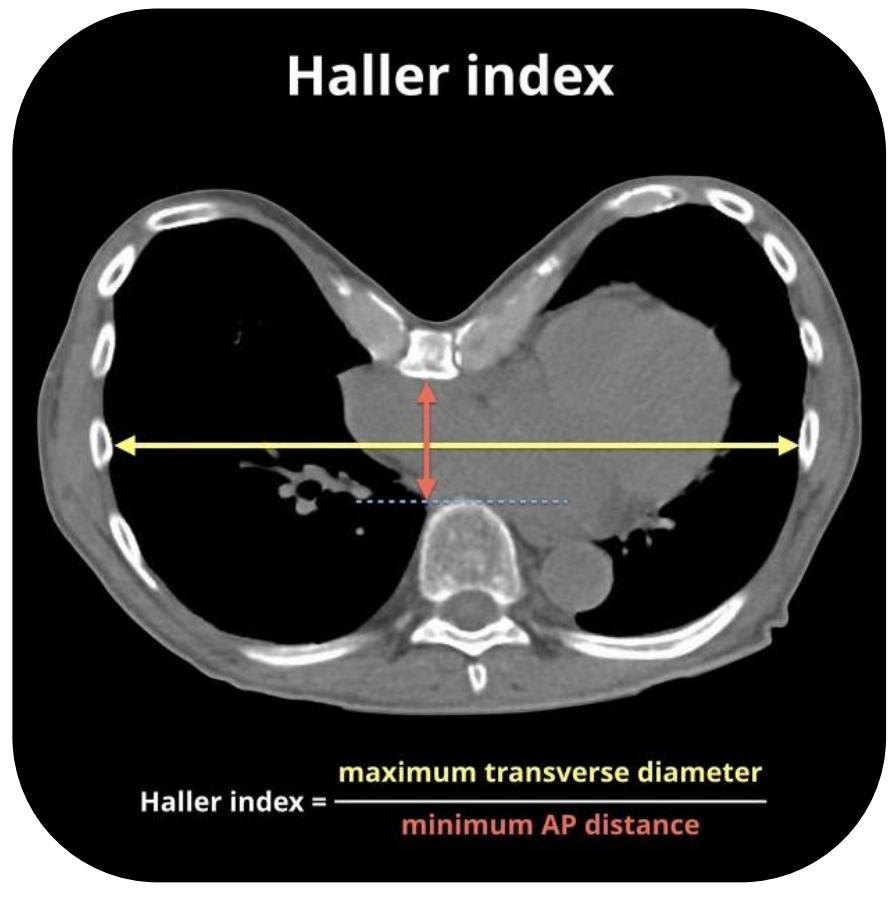
- More common in males
- May become more noticeable during periods of rapid growth
- Can run in families

How Do Doctors Determine Severity?

Doctors evaluate Pectus Excavatum using:

- Chest CT findings
- Heart and lung function
- Physical symptoms
- Overall health and quality of life

"Every chest is different. A CT scan helps your doctor understand your unique condition."



Every Patient Is Different

Treatment decisions are based not only on the appearance of the chest wall, but also on how the condition affects each patient's daily life, physical activity, and overall well-being.

Your doctor will recommend the most appropriate treatment based on your individual condition.

WHY TREAT PECTUS EXCAVATUM?

More than appearance. It can affect daily life.



Heart or Lung Function Is Affected

Compression of the chest may impact cardiopulmonary function.

The Deformity Is Severe

A significant chest wall depression may require corrective treatment

Exercise Capacity Is Reduced

Some patients experience shortness of breath, fatigue, or reduced endurance during physical activity.

Emotional Well-being Is Affected

Concerns about chest appearance may affect confidence, self-image, and social interactions.

Potential Benefits of Treatment

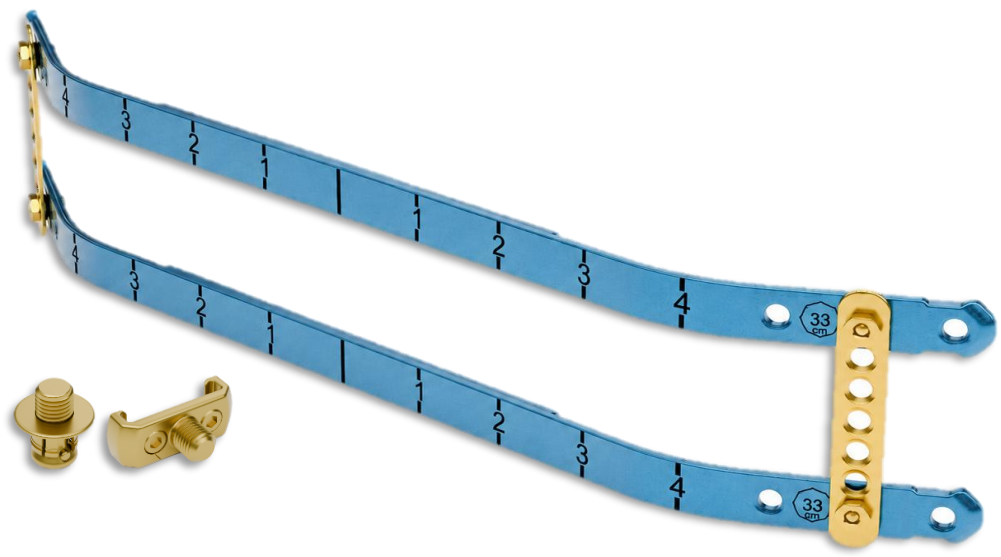
- Improved chest appearance
- Better cardiopulmonary function
- Increased exercise tolerance
- Improved confidence and quality of life

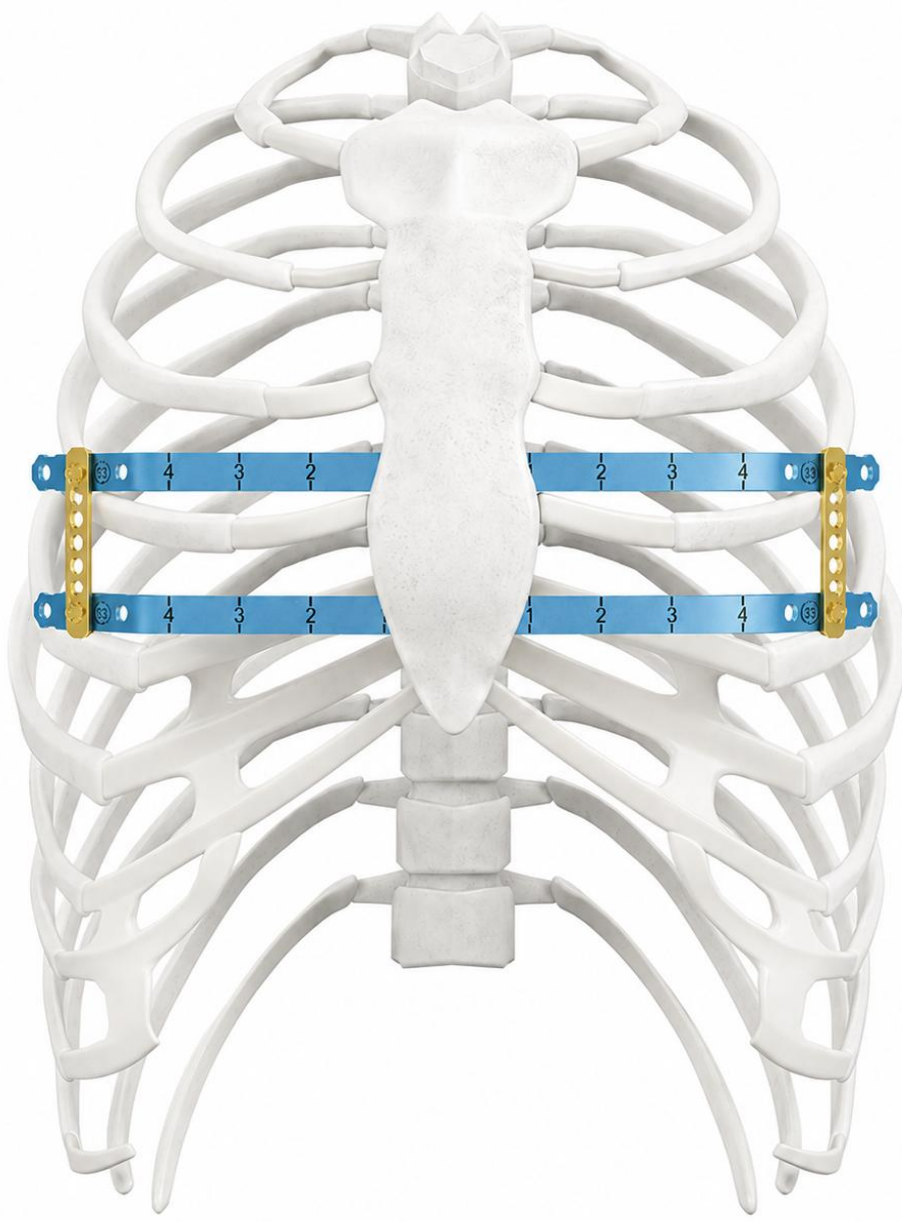
Restoring Chest Shape. Restoring

YOUR SURGEON HAS CHOSEN THE CASTLELOC PECTUS BAR SYSTEM

A Solution Designed to Restore Chest Shape

The CastleLoc Pectus System is designed for the surgical correction of Pectus Excavatum using MIRPE Procedure. A specially designed corrective bar is placed beneath the sternum to elevate the sunken chest wall and support a more natural chest contour.





Key Benefits:

Secure Bar Fixation

Helps Keep the bar securely in place.

Multiple Sizes Available

Designed for different body types.

Minimally Invasive

Requires only small incisions.

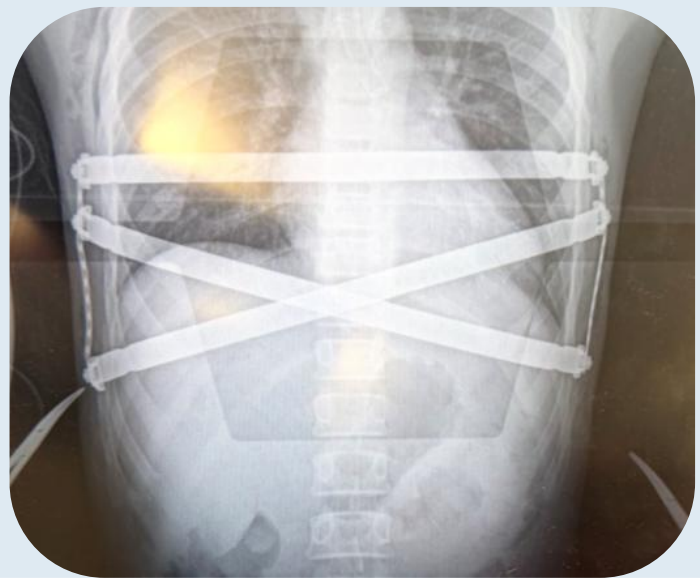
Efficient Procedure

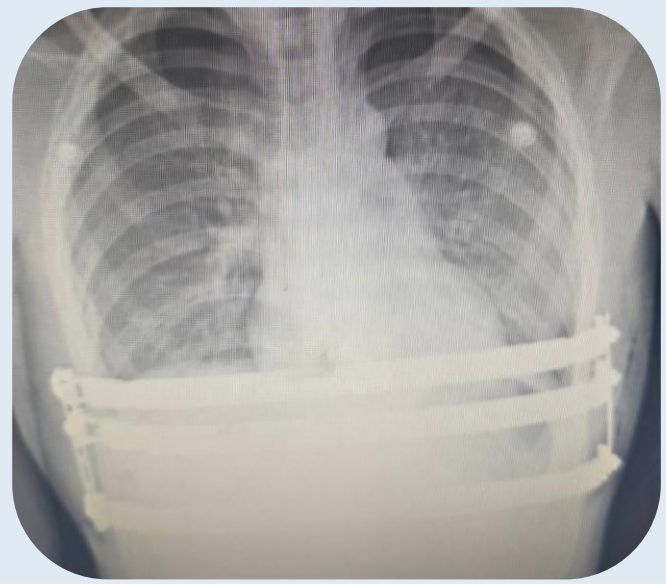
Designed to support an efficient surgery.

Enhanced Chest Stability

Supports a stable chest during recovery.

Postoperative X-ray Images

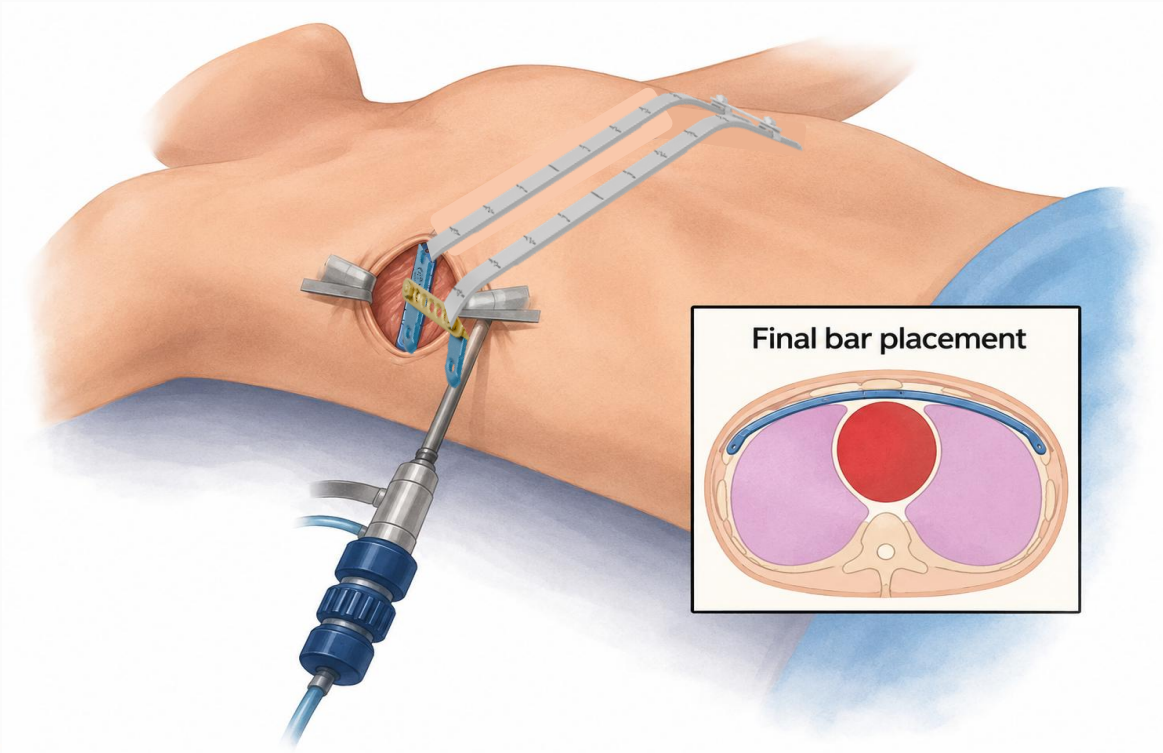




▶ Stable chest wall support during the healing process.

MIRPE: Minimal Invasive Repair of Pectus Excavatum

MIRPE is a minimally invasive surgical technique that elevates the sunken chest wall to restore a more natural chest contour.



How the procedure works

1

SMALL INCISIONS

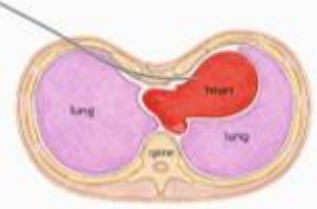
Small incisions are made on both sides of the chest.



2

CREATE A TUNNEL

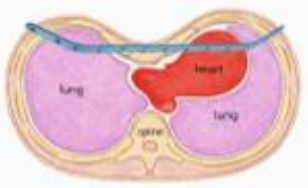
A pathway is carefully created behind the sternum.



3

INSERT THE CASTLELOC BAR

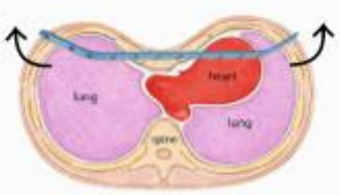
The corrective bar is inserted beneath the sternum.



4

ROTATE THE BAR

The bar is rotated to elevate the sunken chest wall.



5

CORRECT THE CHEST SHAPE

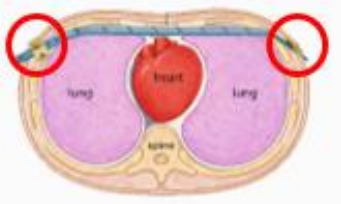
The sternum is lifted into a more natural position.



6

SECURE THE SYSTEM

Fixation components are applied to maintain stability.



> **Minimally Invasive.**
> **Proven. Life-Changing.**
>
> MIRPE has been performed worldwide for over three decades and continues to help patients achieve a stronger, healthier future.

SMALL INCISIONS
Approximately
2~3 hours

MINIMALLY INVASIVE
Small incisions for faster recovery

STABLE SUPPORT
Designed for secure And reliable fixation

A Trusted Procedure. A Stronger Tomorrow.

LIFE AFTER CORRRRECTION

Improved Function. Better Confidence. Brighter Future.



IMPROVED HEART & LUNG FUNCTION

- Improved breathing during exercise
- Increased endurance
- Reduced fatigue

IMPROVED CHEST APPEARANCE

- Correction of the sunken chest
- Improved posture
- A more balanced chest contour

IMPROVED QUALITY OF LIFE

- Increased confidence
- Greater participation in social activities
- Improved body image

THE RECOVERY JOURNEY

IMMEDIATELY AFTER SURGERY

- Pain management
- Walking begins
- Breathing exercises



WEEKS 1~4

- Avoid strenuous activities
- Focus on posture
- Continue recovery exercises



WEEKS 4~12

- Return to daily activities
- Gradually resume exercise



2~3 YEARS LATER

- Corrective bar removal procedure
- Completion of treatment



IMPORTANT SAFETY INFORMATION

Surgery may not be appropriate for every patient. Discuss the potential benefits and risks of treatment with your physician to determine the most appropriate treatment option for your individual condition.

Potential Risks

- Pain or discomfort
- Infection or bleeding
- Metal sensitivity or allergic reaction
- Implant loosening, migration, or breakage
- Need for additional surgery
- Recurrence of chest wall deformity

Individual results may vary.

Intended Use

The CastleLoc Pectus Bar System is intended for the treatment of Pectus Excavatum and other anterior chest wall deformities.

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