Transcatheter Mitral Valve Repair
Patient Screening Fact Sheet

Patient eligibility for transcatheter mitral valve repair (TMVR) with MitraClip® therapy is determined by the following criteria:

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Eligibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Degenerative MR</td>
<td>✓</td>
</tr>
<tr>
<td>Significant mitral regurgitation (MR ≥ 3+)</td>
<td>✓</td>
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<tr>
<td>Symptomatic (NYHA functional class III or IV)</td>
<td>✓</td>
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<tr>
<td>Prohibitive risk criteria, including any of the following:</td>
<td>✓</td>
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<tr>
<td>- 30-day STS predicted operative mortality risk score of ≥8% (mitral valve replacement)</td>
<td>✓</td>
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<tr>
<td>- ≥6% (mitral valve repair)</td>
<td>✓</td>
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<tr>
<td>- Porcelain aorta or extensively calcified ascending aorta</td>
<td>✓</td>
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<tr>
<td>- Frailty (assessed by in-person cardiac surgeon consultation)</td>
<td>✓</td>
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<tr>
<td>- Hostile chest</td>
<td>✓</td>
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<tr>
<td>- Severe liver disease / cirrhosis (MELD Score &gt;12)</td>
<td>✓</td>
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<tr>
<td>- Severe pulmonary hypertension (systolic pulmonary artery pressure &gt;2/3 systemic pressure)</td>
<td>✓</td>
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<tr>
<td>- Unusual extenuating circumstance, such as right ventricular dysfunction with severe tricuspid regurgitation, chemotherapy for malignancy, major bleeding diathesis, immobility, AIDS, severe dementia, high risk of aspiration, internal mammary artery at high risk of injury, etc.</td>
<td>✓</td>
</tr>
<tr>
<td>Existing comorbidities do not preclude expected benefit of MR reduction</td>
<td>✓</td>
</tr>
</tbody>
</table>

TMVR is contraindicated for degenerative MR patients with the following conditions:

<table>
<thead>
<tr>
<th>Condition</th>
<th>Contraindication</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patients who cannot tolerate procedural anticoagulation or post procedural antiplatelet regimen</td>
<td>✗</td>
</tr>
<tr>
<td>Active endocarditis of the mitral valve</td>
<td>✗</td>
</tr>
<tr>
<td>Rheumatic mitral valve disease</td>
<td>✗</td>
</tr>
<tr>
<td>Evidence of intracardiac, inferior vena cava (IVC) or femoral venous thrombus</td>
<td>✗</td>
</tr>
</tbody>
</table>

For optimal results, the following anatomic patient characteristics should be considered:

- The primary regurgitant jet is non-commissural. If a secondary jet exists, it must be considered clinically insignificant

- Mitral valve area ≥ 4.0cm²
- Minimal calcification in the grasping area
- No leaflet cleft in the grasping area
- Flail width <15 mm and flail gap <10 mm
- LVEF >20% or LVESD <60mm

Nearly 1 in 10 people age 75 and older have moderate or severe mitral regurgitation.

Do you have significant, symptomatic, degenerative MR patients who are at prohibitive-risk for surgery, and could benefit from this important treatment option?

Connect with a MitraClip therapy center at www.abbottvascular.com/TMVR

For a complete list of patient eligibility criteria, please refer to the MitraClip® Clip Delivery System Instructions for Use.

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Source: MitraClip Clip Delivery System Instructions for Use.

MitraClip Delivery System Indication: The MitraClip Clip Delivery System is indicated for the percutaneous reduction of significant symptomatic mitral regurgitation (MR ≥ 3+) due to primary abnormality of the mitral apparatus (degenerative MR) in patients who have been determined to be at prohibitive risk for mitral valve surgery by a heart team, which includes a cardiac surgeon experienced in mitral valve surgery and a cardiologist experienced in mitral valve disease, and in whom existing comorbidities would not preclude the expected benefit from reduction of the mitral regurgitation.

See Important Safety Information Referenced Within.
MITRACLIP CLIP DELIVERY SYSTEM

INDICATION FOR USE

The MitraClip Clip Delivery System is indicated for the percutaneous reduction of significant symptomatic mitral regurgitation (MR ≥ 3+) due to primary abnormality of the mitral apparatus (degenerative MR) in patients who have been determined to be at prohibitive risk for mitral valve surgery by a heart team, which includes a cardiac surgeon experienced in mitral valve surgery and a cardiologist experienced in mitral valve disease, and in whom existing conduits for patients would not preclude the expected benefit from reduction of the mitral regurgitation.

CONTRAINDICATIONS

The MitraClip Clip Delivery System is contraindicated in DMR patients with the following conditions:

- Patients who cannot tolerate procedural anticoagulation or post procedural anti-platelet regimen
- Active endocarditis of the mitral valve
- Patients who cannot tolerate procedural anticoagulation or who have the following conditions:
  - Rheumatic mitral valve disease
  - Evidence of intracardiac, inferior vena cava (IVC) or femoral venous thrombus

WARNINGS

- DO NOT use MitraClip outside of the labeled indication.
- Treatment of non-prohibitive risk DMR patients should be conducted in accordance with standard hospital practices for surgical repair and replacement.
- MitraClip System is intended to reduce mitral regurgitation. The MitraClip procedure is recommended to be performed when an experienced heart team has determined that reduction of MR to ≤2+ is reasonably expected following the MitraClip. If MR reduction to ≤2+ is not achieved, the benefits of reduced symptoms and hospitalizations, improved quality of life, and reverse LV remodeling expected from MitraClip may not occur.
- The MitraClip Device should be implanted with sterile techniques using fluoroscopy and echocardiography (e.g., transesophageal [TEE] and transesophageal [TEE]) in a facility with on-site cardiac surgery and immediate access to a cardiac operating room.
- Read all instructions carefully. Failure to follow these instructions, warnings and precautions may lead to device damage, user injury or patient injury. Use universal precautions for biohazards and sharps while handling the MitraClip System to avoid user injury.
- Use of the MitraClip should be restricted to those physicians trained to perform invasive endovascular and transseptal procedures and those trained in the proper use of the system.
- The Clip Delivery System is provided sterile and designed for single use only. Cleaning, re-sterilization and/or reuse may result in infections, malfunction of the device or other serious injury or death.
- Inspect all product prior to use. DO NOT use if the package is opened or damaged.

PRECAUTIONS

- Patient Selection:
  - Prohibitive risk is determined by the clinical judgment of a heart team, including a cardiac surgeon experienced in mitral valve surgery and a cardiologist experienced in mitral valve disease, due to the presence of one or more of the following documented surgical risk factors:
    - 30-day STS predicted operative mortality risk score of
      - ≥8% for patients deemed likely to undergo mitral valve replacement or
      - ≥3% for patients deemed likely to undergo mitral valve repair
    - Porcelain aorta or extensively calcified ascending aorta.
  - Frazil (assessed by in-person cardiac surgeon consultation)
  - Hostile chest
  - Severe liver disease / cirrhosis (MELD Score ≥ 12)
  - Severe pulmonary hypertension (systolic pulmonary artery pressure >25/3 systemic pressure)
  - Unusual extenuating circumstance, such as right ventricular dysfunction with severe tricuspid regurgitation, chemotherapy for malignancy, major bleeding diathesis, immobility, AIDS, severe dementia, high risk of aspiration, internal mammary artery (IMA) at high risk of injury, etc.
  - Evaluable data regarding safety or effectiveness is not available for prohibitive risk DMR patients with an LVEF < 20% or on LVESD > 60mm. MitraClip should be used only when criteria for clip suitability for DMR have been met.
  - The heart team should include a cardiac surgeon experienced in mitral valve surgery and a cardiologist experienced in mitral valve disease and may also include appropriate physicians to assess the adequacy of heart failure treatment and valvular anatomy.
  - The heart team may determine an in-person surgical consult is needed to complete the assessment of prohibitive risk. The experienced mitral valve surgeon and heart team should take into account the outcome of this surgical consult when making the final determination of patient risk status.
  - For reasonable assurance of device effectiveness, pre-procedural evaluation of the mitral valve and underlying pathologic anatomy and procedural echocardiographic assessment are essential.
  - The inside of the outer pouch is not a sterile barrier. The inner pouch within the outer pouch is the sterile barrier. Only the contents of the inner pouch should be considered sterile.
  - The outside surface of the inner pouch is NOT sterile.
  - Note the “Use by” date specified on the package.

POSSIBLE COMPLICATIONS AND ADVERSE EVENTS

The following events have been identified as possible complications of the MitraClip procedure.

- Allergic reaction (anesthetic, contrast, Heparin, nickel, alcohol, latex): Anaphylaxis or pseudo-anaphylaxis
- Arthritis
- Cardiac arrhythmia
- Catheter perforation
- Chordal rupture: Chordal entanglement/rupture
- Coagulation
- Conversion to standard surgery
- Dextran
- Dislodgement of implanted devices
- Dizziness
- Drug reaction to anti-platelet/anticoagulation agents
- Electrolyte disturbances
- Embolus
- Endocarditis
- Esophageal perforation or stricture
- Failure to deliver MitraClip
- Fever or hyperthermia
- Gastrointestinal bleeding or infarct
- Hematoma
- Hemorrhage
- Hypotension
- Hypertension
- Injury to mitral valve
- Infection
- Interventricular septum
- Mitral clip erosion, migration or malposition
- Mitral clip device:
  - Mitral clip system component(s) embolization
  - Mitral stenosis
  - Mitral valve injury
  - Multi-system organ failure
  - Myocardial infarction
  - Nausea/vomiting
  - Peripheral ischemia
  - Prolonged angina
  - Prolonged ventilation
  - Pulmonary congestion
  - Pulmonary thromboembolism
  - Renal insufficiency or failure
  - Respiratory failure
- Septicemia: Shock, Anaphylactic or Cardiogenic
- Single leaflet device attachment (SLDA): Skin injury or tissue changes due to exposure to ionizing radiation; Stroke or transient ischemic attack (TIA)
- Urinary tract infection
- Vascular trauma, dissection or occlusion
- Vessel spasm
- Vessel perforation or laceration
- Worsening heart failure
- Worsening mitral regurgitation
- Wound dehiscence

STEerable Guide Catheter

INDICATION FOR USE

The Steerable Guide Catheter is used for introducing various cardiovascular catheters into the left side of the heart through the interatrial septum.

CONTRAINDICATIONS

- Patients who cannot tolerate procedural anticoagulation or post procedural anti-platelet regimen
- Evidence of intracardiac, inferior vena cava (IVC) or femoral venous thrombus.

WARNINGS

- Read all instructions carefully. Follow to failure these instructions, warnings and precautions may lead to device damage, user injury or patient injury. Use universal precautions for biohazards and sharps to avoid user injury.
- Use the Steerable Guide Catheter with sterile techniques using fluoroscopy and echocardiography (e.g., transesophageal [TEE] and transesophageal [TEE]) in a facility with on-site cardiac surgery and immediate access to a cardiac operating room.
- The Steerable Guide Catheter is designed for single use only.
- Cleaning, re-sterilization and/or reuse may result in infections, malfunction of the device or other serious injury or death.
- Patients with the following considerations in whom the Steerable Guide Catheter is used may have an increased risk of having a serious adverse event which may be avoided with preoperative evaluation and proper device usage.
  - Previous interatrial septal patch or prosthetic aneurysm
  - Dissection or perforation
  - Patency of the left atrial appendage
  - Superior vena cava
  - Mitral valve surgery
  - Mitral valve replacement
  - Congenital heart defects
  - Risk for mitral valve surgery by a heart team, which includes a cardiac surgeon experienced in mitral valve disease, and in whom existing conduits for patients would not preclude the expected benefit from reduction of the mitral regurgitation.

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