INOUÉ-BALLOON

For Percutaneous Transvenous Mitral Commissurotomy (PTMC)

'TORAY'
**INOUE-BALLOON Permits Safe Percutaneous Transvenous Mitral Commissurotomy (PTMC)**

The first balloon catheter for the treatment of mitral stenosis has the following simple operative procedures:

1. **Advantages:**
   - A single balloon catheter provides a sufficient expansion range to assure a simple and safe procedure.
   - The low profile of the stretched balloon facilitates percutaneous introduction through the femoral vein.
   - This technique prevents the development of atrial septal defect (ASD), (photo-2).
   - Changing the shape of the balloon with the filling volume simplifies placing the catheter at the site of stenosis. (photo-3). The volume controlled hour-glass shape of the balloon assures proper positioning at the stenosis prevents migration of the catheter and provides optimal dilation (photo-1/2/3).
   - The range of each balloon size is controlled by the volume of dilute contrast medium. (See table).
   - The unique balloon construction exhibits dynamic inflation properties sufficient for valvular expansion. Rapid inflation/deflation cycle ($\sec$) quickly returns valve to normal function.
   - This treatment (PTMCs) performed without thoracotomy with the following special features:
     - Short procedure time - Short hospital stay - Can be indicated for the debilitated elderly, patients with renal impairment, and others.

2. **Simple Operative Procedure:**
   - Insert the balloon stretching tube into the left atrium, expand the atrial septum puncture with the dilator.
   - Insert the balloon catheter with the balloon stretching tube incorporated.
   - Face the balloon at the caval opening using the stylet.
   - Inflate the distal portion of the balloon to place it at the caval opening.
   - Inflate the entire balloon to expand the opening of the valve.

3. **Set Contents:**
   - **Description**
     - Inoue Balloon Catheter
     - Balloon stretching tube
     - Dilator
     - Guidewire
     - Stylet
     - Syringe
     - Ruler
   - **Use**
     - Dilation of mitral valve
     - Elongation of balloon
     - Dilation of insertion areas
     - Guiding the balloon catheter and dilator
     - Directing balloon to mitral valve
     - Infusion of balloon
     - Measurement of balloon diameter

4. **SPECIFICATION:**
   - **INOUE-BALLOON**
     - Cat. No. PTMC-30, IMS-30
       - Balloon Diameter (Max) 26mm-30mm
       - Outer Diameter 12Fr.
       - Length 70mm
       - Patient Height > 160cm
     - Cat. No. IMS-28, IMS-24, IMS-22
       - Balloon Diameter (Max) 20mm-22mm
       - Outer Diameter 12Fr.
       - Length 70mm
       - Patient Height > 147cm
     - Cat. No. IMS-20
       - Balloon Diameter (Max) 18mm-20mm
       - Outer Diameter 12Fr.
       - Length 70mm
       - Patient Height > 147cm
     - Contents: IMS-30, IMS-28, IMS-24, IMS-22, IMS-20, contains balloon catheter and syringe only.

   - **Individually supplied as follows**

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**Notes:**
- For details, read package insert (in the kit box).
- This procedure should be carried out only by physicians trained and qualified in PTMC techniques.
- Use of this procedure is recommended only in facilities where cardiac surgery can be performed within a reasonable period of time.


