



Procedure Information – Percutaneous Balloon Mitral Valvuloplasty

Visit No.: Dept.:
Name: Sex/Age:
Doc. No.: Adm. Date:
Attn. Dr.:
Patient No.: PN

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Page No:

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Introduction

Mitral stenosis is one type of chronic rheumatic heart disease. It is due to narrowing of the mitral valve opening resulting from fusion of the mitral commissures. In severe cases, it can cause heart failure, acute pulmonary edema, arrhythmias and stroke. Percutaneous balloon mitral valvuloplasty (PBMV) is used to expand narrowed mitral valve by special devices. It is performed under the guidance of X-ray, through percutaneous method.

Importance of Procedure

PBMV is an alternative treatment method to the conventional mitral valve replacement by open heart surgery. In selected cases, PBMV offers good short- and median-term results. Patients who refuse this method can select either mitral valve replacement (with either metallic or tissue prosthesis) or medical therapy.

The Procedure

1. This is an invasive procedure that is performed in a cardiac catheterization centre, usually under local anesthesia.
2. Electrodes are adhered to the chest to monitor the heart rate and rhythm. Blood oxygen monitor through your finger tip will be set up. Measurement of blood pressure from your arm will be taken during the examination.
3. A small wound is made at the groin for access to arteries or veins. Both groins may be used together.
4. The septum separating the left and right atrium is punctured by a special needle under X-ray or echocardiographic guidance. Contrast injection may be required for the procedure.
5. A specially designed device (balloon catheter) is then passed through the septum and positioned across the mitral valve. This is followed by inflation to expand the valve. This maneuver may be repeated for few more times.
6. Echocardiogram (transeosophal or intracardiac) is performed during the procedure to confirm the procedural result.

Risks and Complications

- Major complications:
 - Death
 - Severe mitral regurgitation
 - Cardiac perforation and tamponade
 - Stroke
 - Emergency mitral valve surgery
- Minor complications:
 - Contrast reaction
 - Nausea
 - Bruising around the wound site is common
 - Wound complications

Before the Procedure

1. Your doctor will explain to you the reason, procedure and possible complications. You will need to sign a consent form.
2. An echocardiogram (ultrasound imaging of your heart) will be performed to assess and confirm the anatomy and functional significance of the mitral stenosis. Special attention will be taken on the feasibility of the percutaneous approach.
3. You will have some preliminary tests including electrocardiogram, chest X-ray, and blood tests. We will also check your allergy history. Shaving may be required over the puncture site.
4. Blood thinning drugs or metformin (for diabetes) may have to be stopped several days before the procedure. Steroid will be given if there is history of allergy. Antibiotic may be given as prophylaxis for the procedure.
5. Fasting of 4-6 hours is required prior to the procedure. An intravenous drip will be set up.
6. If you are a female, please provide your last menstrual period (LMP) and avoid pregnancy before the procedure as this procedure involves exposure to radiation.



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affix patient's label*

After the Procedure

A. Hospital care

1. The catheters will be removed. The wound site will be compressed to stop bleeding.
2. Nursing staff will check your blood pressure, pulse and wound regularly.
3. Bed rest may be necessary for 4 hours. In particular, please do not move or bend the affected limb. Whenever you cough or sneeze, please apply pressure on the wound with your hand.
4. You should inform your nurse if you have any discomfort; particularly chest discomfort or find blood oozing from the wound site.
5. Diet can usually be resumed.
6. Please follow instruction for the use of medications.

B. Follow up

1. Usually you can be discharged 1-3 days after the procedure.
2. The wound will be inspected and covered with light dressing. Please keep the wound site clean and change dressing if wet. In general, showers are allowed after 2 days.
3. Please avoid vigorous activities (household or exercise) in the first 3 days after the procedure. Bruising around the wound site is common and usually subsides 2-3 weeks later. If you notice any signs of infection, increase in swelling or pain over the wound, please come back to the hospital or visit a nearby Accident and Emergency Department immediately.
4. Usually your doctor has explained to you the results of the procedure before discharge. Should you have further questions, you and your close relatives can discuss with your doctor during subsequent follow-up.

Remarks

This is general information only and the list of complications is not exhaustive. Other unforeseen complications may occasionally occur. In special patient groups, the actual risk may be different. Should a complication occur, another life-saving procedure or treatment may be required immediately. For further information please contact your doctor.

Reference

Hospital Authority – Smart Patient Website

I acknowledge that the above information concerning my operation/procedure has been explained to me by Dr. _____. I have also been given the opportunity to ask questions and receive adequate explanations concerning my condition and the doctor's treatment plan.

Patient / Relative Name

Signature

Relationship (if any)

Date