



Procedure Information – Pericardiocentesis

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

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*Please fill in /
affix patient's label*

Introduction

Collection of fluid in the pericardial space (membranous sac wrapping around the heart) is called pericardial effusion. Causes of pericardial effusion include infection, inflammation, malignancy, metabolic disease, trauma, congestive heart failure, etc. Pericardial effusion can restrict the normal blood filling of the heart and decrease heart function, leading to heart failure. Rapid accumulation of fluid can cause acute pulmonary edema, shock or sudden death. Pericardiocentesis (PC) is an invasive procedure used to treat pericardial effusion. It is done by introducing a drainage tube into the pericardial space, usually under echocardiographic guidance.

Importance of Procedure

PC serves 2 important purposes. First, by removing abnormal collection of fluid from the pericardial space, it restores the normal function of the heart. Second, laboratory tests of the collected fluid can give a diagnosis of the pericardial effusion. Emergency PC is needed in the case of rapid fluid accumulation. If this procedure is refused, the condition of patients can deteriorate rapidly. Alternative treatment methods include surgical opening of the pericardium.

The Procedure

1. Echocardiogram is performed to determine the needle entry site. It can be either below the tip of the xiphoid process or at the apex of the heart.
2. The procedural area will be disinfected.
3. Local anesthesia will be given to the needle entry site.
4. A needle is inserted into the pericardial space and a flexible wire introduced through the needle. A hollow tube is exchanged over the wire and secured in the pericardial space. The tube is then connected to a sterile collection bottle outside your body. Fluid will be drained into the bottle.
5. Fluid is sent for laboratory analyses.

Risks and Complications

- Major complications:
 - Death
 - Heart attack
 - Perforation of the heart chamber
 - Injury to the liver
 - Pneumothorax
 - Severe bleeding

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 location, amount and clinical significance of the pericardial effusion.
3. Your blood pressure, heart rate and electrocardiogram will be monitored closely. An intravenous drip site will be set up.
4. In the case of an elective procedure, blood thinning drug should be stopped 3-5 days before. For emergency procedure, special drug may be given to neutralize the effect of blood thinning drug.



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After the Procedure

A. Hospital care

1. The hollow tube is left connected to the drainage bottle until there is no more fluid drained and no accumulation of fluid in the pericardium. This may take a few days.
2. Sometimes, the position of the hollow tube requires adjustment to facilitate fluid drainage.
3. Echocardiogram will be performed to monitor the clearance of fluid.

B. Follow up

1. A small wound will be seen after removing the tube and will be covered with light dressing. Please keep the wound site clean and avoid making the dressing wet during a bath. Always change dressing if wet.
2. Your doctor will discuss with you the result of the procedure and further plan of management.

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