

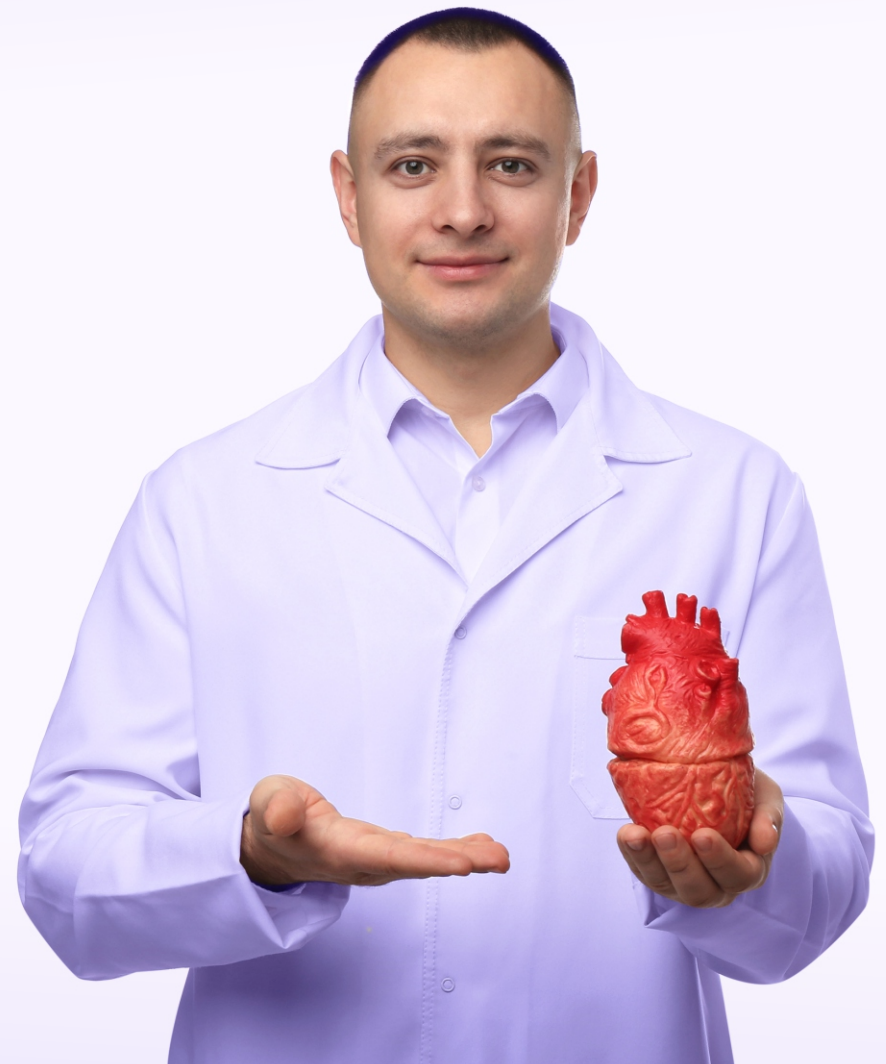
Sanar | International
Hospitals

+91-124-3528444

Golf Course Road, DLF Phase-5
Sector - 53, Haryana - 122002

www.sanarhospitals.com
info@sanarhospitals.com

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Understanding
Bentall Surgery

What is Bentall Surgery?

Bentall surgery is a procedure performed to treat aneurysms or other conditions of the aortic root. The surgery involves replacing the aortic valve, aortic root, and the ascending aorta. This procedure is named after the British Cardiac Surgeon, Dr. Hugh Bentall, who first described it in 1968. It is a complex and significant surgical intervention that aims to restore normal blood flow and functions of the heart.



Why is Bentall Surgery Performed?

Bentall surgery is typically recommended for patients with conditions such as:

- **Aortic Aneurysms:** Abnormal bulges or ballooning in the aorta that can cause serious health risks if left untreated.
- **Aortic Dissection:** A tear in the inner layer of the aorta, leading to blood leakage into the middle layer and potential life-threatening complications.
- **Aortic Valve Dysfunction:** Severe damage or malfunctioning of the aortic valve due to congenital defects, infections, or other cardiac conditions.

What to Expect Before the Surgery?

- **Comprehensive Evaluation:** The patient would undergo a series of tests, including imaging studies and blood tests, to assess overall health and extent of the condition.
- **Pre-Surgical Preparation:** The patient may be required to refrain from eating or drinking for a specific period before the surgery. The medical team will provide detailed instructions on this.
- **Discussion with the Surgeon:** The surgeon will explain the procedure, its potential risks, benefits, and expected outcomes. The patient should feel free to ask any questions or express any concerns during this discussion.

During the Surgery

- **Anaesthesia:** The patient will be given general anaesthesia to ensure that one is completely unconscious and pain-free during the procedure.
- **Incision:** The surgeon will make an incision in the chest to access the heart and aorta.

- **Replacement:** The damaged aortic valve and aortic root will be removed and replaced with a mechanical or biological valve and a synthetic tube graft.
- **Closing Incisions:** After the procedure, the incisions will be closed with sutures or staples.

Recovery and Post-Surgery Care

- **Hospital Stay:** The patient will be closely monitored in the Intensive Care Unit (ICU) for a few days after the surgery. Later, the patient will be moved to a regular hospital room for further recovery.
- **Medications:** Medications will be prescribed, including pain relievers and antibiotics, to manage pain and prevent infections.
- **Follow-up Appointments:** Regular follow-up visits will be scheduled to monitor the progress, assess healing, and manage any complications that may arise.

Risks and Complications

While Bentall Surgery is generally safe, it carries some risks, including:

- Bleeding
- Infection
- Blood Clots
- Stroke
- Cardiac Arrhythmias
- Valve-related Complications

When to Seek Immediate Medical Attention

Contact the healthcare provider immediately if one experiences any of the following:

- Chest Pain
- Shortness of Breath
- Irregular Heartbeat
- Excessive Bleeding
- Signs of Infection

Lifestyle Changes

After recovery, the healthcare provider may recommend certain lifestyle changes to improve the heart health, such as maintaining a healthy diet, regular exercises, and avoiding smoking and excessive alcohol consumption.

Bentall Surgery is a complex but effective procedure that aims to address serious cardiac conditions. It is essential to follow the healthcare provider's instructions carefully and attend all follow-up appointments for a successful recovery.