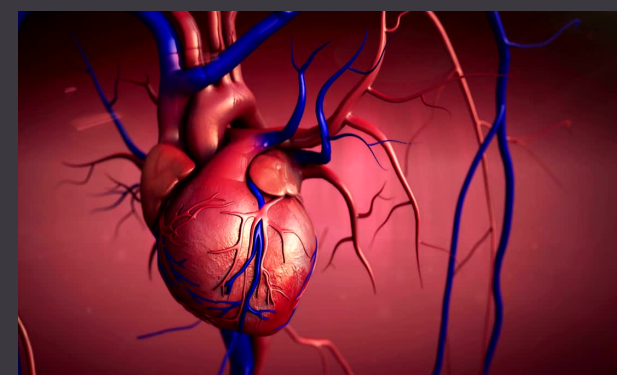


CARDIAC ANGIOGRAPHY

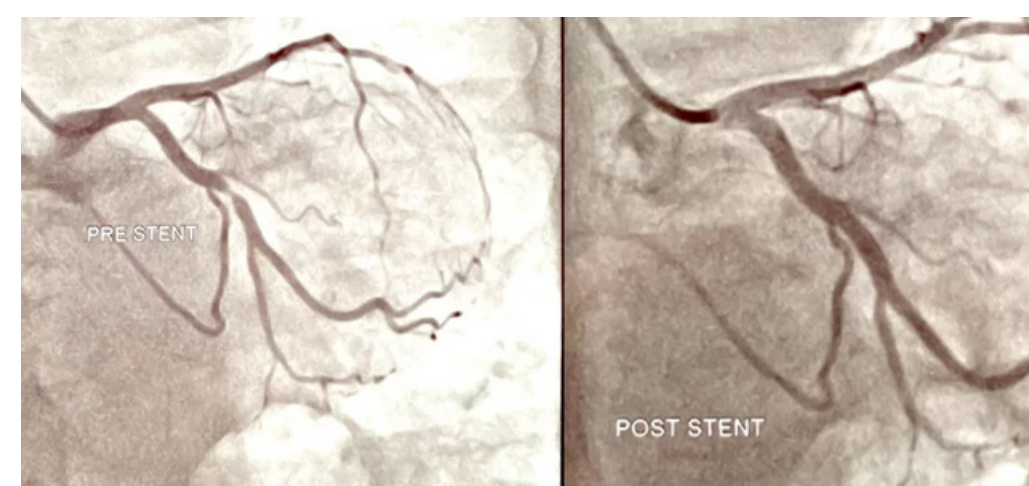
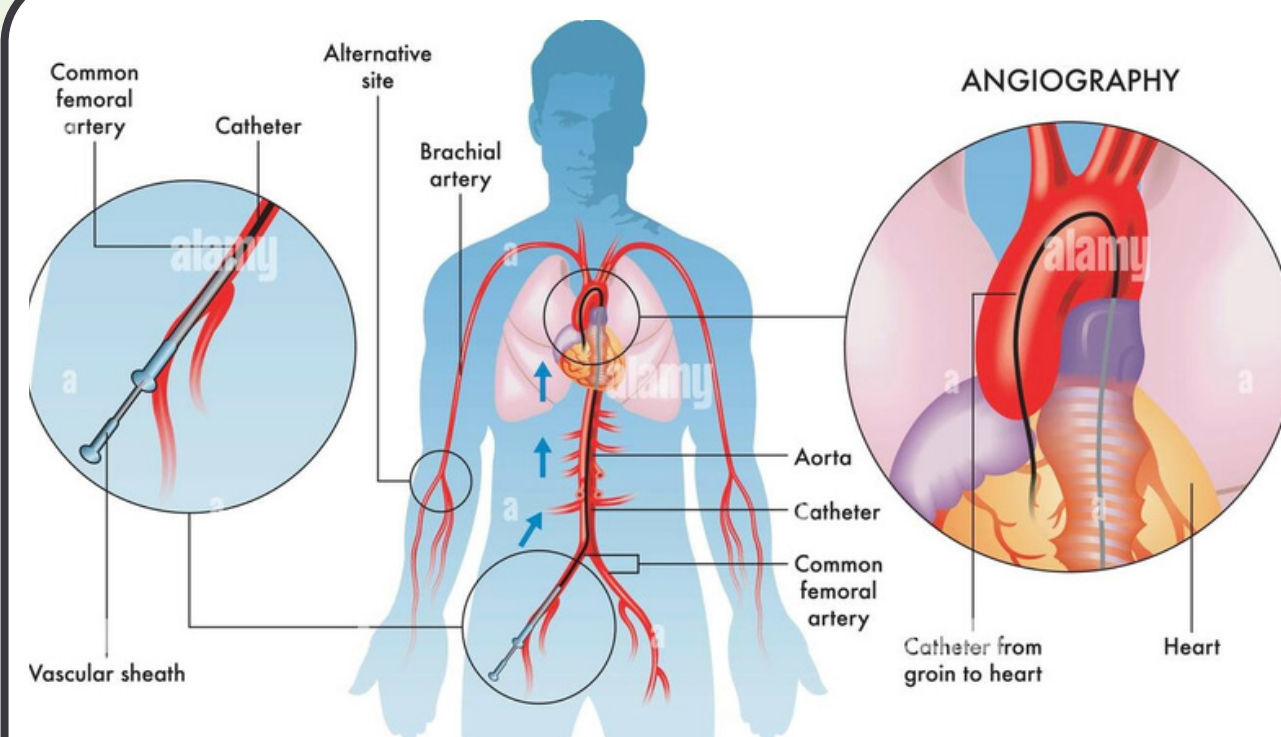
Understanding Heart's flow

by Dr.Udhamgurjot Singh Bajwa



Definition: A diagnostic procedure to visualize the coronary arteries, checking for blockages or abnormalities.

Purpose: Helps assess blood flow to the heart and guides treatment for coronary artery disease.



Procedure Overview

Preparation

- Fasting for several hours before the procedure.
- Consent and explanation of risks.

Steps

1. **Local anesthesia:** Numbing the insertion site (usually the wrist or groin).
2. **Catheter Insertion:** A thin, flexible tube (catheter) is inserted into a blood vessel and guided to the coronary arteries.
3. **Dye injection:** Contrast dye is injected to make arteries visible on X-ray.
4. **Imaging:** X-rays capture images of blood flow to identify blockages.

Duration

30-60 minutes



Risks and Complications

- **Common Risks:** Bruising, Bleeding at insertion sites
- **Rare Complications:** Heart attack, stroke, kidney damage from dye, infection, allergic reaction to contrast dye.

Post-Procedure Care

- Rest and limited physical activity for a day or two.
- Drinking fluids to help flush out the dye.
- Monitoring for signs of complications (e.g., excessive bleeding, infection).

Benefits

- **Accurate Diagnosis:** Visualizes arteries directly.
- **Guidance for Intervention:** Essential for planning treatments like stenting or bypass surgery.
- **Prevention of Severe Events:** Early detection helps prevent heart attacks.

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Why is it important

- **Diagnose:** Coronary Artery Disease: Allows doctors to see narrowing or blockages.
- **Plan Treatments:** Helps to decide if interventions like Angioplasty or stenting are necessary.
- **Prevent Complications:** Early detection can prevent heart attacks and other serious complications.

Indications

- Persistent chest pain.
- Abnormal results on other heart tests (e.g., ECG, stress test).
- Heart attack or symptoms of a blocked artery

