

## Key messages

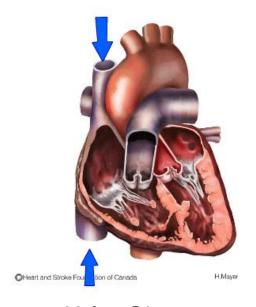
Understand your cardiovascular disease.

▶ Understand your cardiovascular procedure and treatment.

## How does my heart work

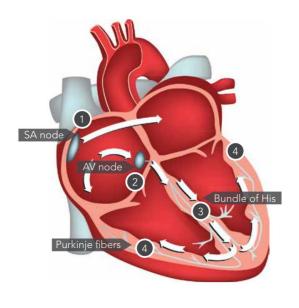
The heart is a muscle that pumps your blood across your body to supply oxygen to all tissues and organs.

#### Pumping system



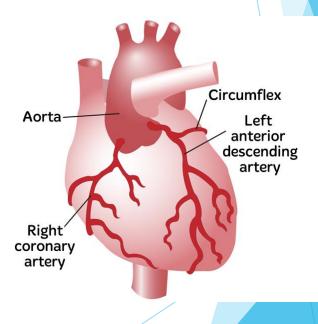
Valve Disease

#### **Electrical system**



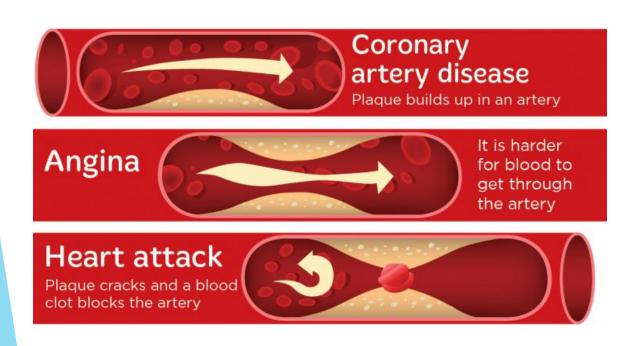
Arrhytmias

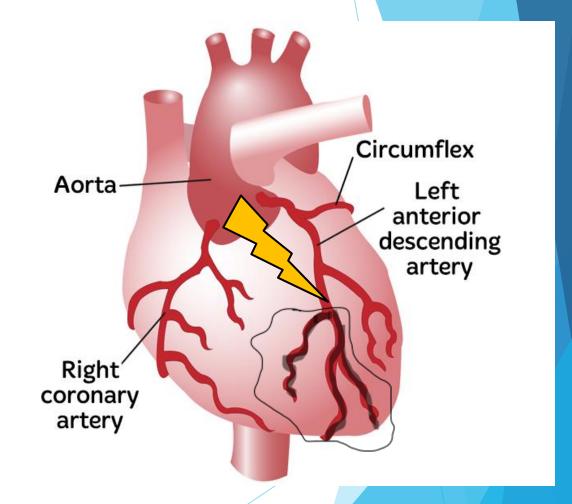
#### **Blood supply**



Coronary Disease

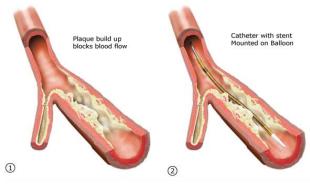
# How does coronary disease happen?

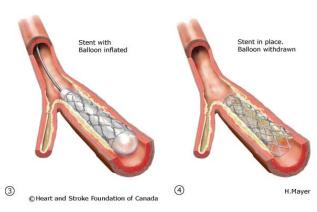




## Interventions for coronary artery disease

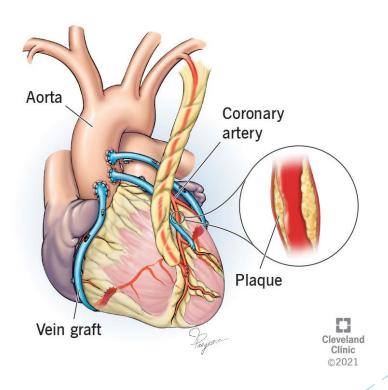
Stent procedure
(Percutaneous Coronary Intervention, angioplasty with stent)





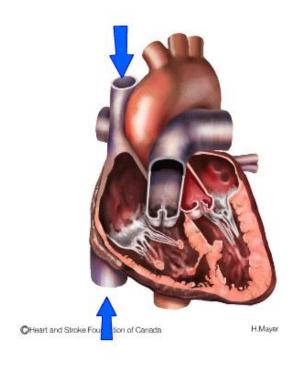
Access through wrist or thigh. Patient awake during procedure.

Bypass procedure (Coronary Artery Bypass Graft)



Graft vessel harvested from leg, arm or chest. Open chest surgery or robotic. Patient asleep during procedure.

## What are valve disorders?



When a valve doesn't function properly because of:

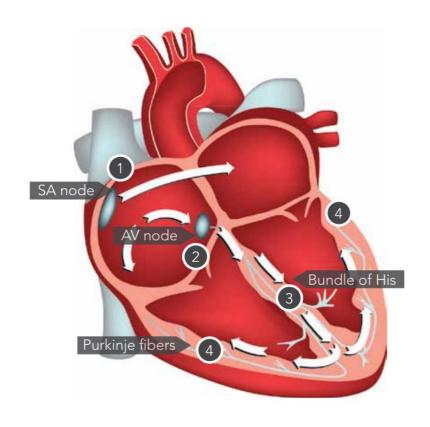
- Stiffness (stenosis)
- Leaking (regurgitation)
- Abnormal structure

#### Surgical Procedures:

- Valve repair
- Valve replacement (mechanic or biologic)

Can be done through heart surgery (robotic or via sternotomy) or transcutaneous (TAVI)

## What are arrhythmias?



When the heart rhythm is irregular or abnormal. Related to the electricity of your heart which triggers your heart to pump and circulation.

- Too slow (bradycardia)
- Too fast (tachycardia, atrial fibrillation)
- Early or extra beats
- Not synchronized (heart block)

#### **Treatment:**

- Cardioversion (convert back to normal rhythm)
- Surgical (ablation, maze procedure)
- Medication (control rhythm, reduce harmful risk)
- Pacemaker (help or replace rhythm for normal one)
- Defibrillator or ICD (reset rhythm with shock to avoid dangerous irregularities)

## Returning to activities

#### **Driving**

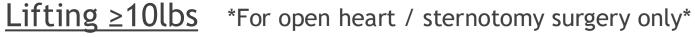
- Your vehicle:
  - Angioplasty Heart attack: usually after 2 to 30 days
  - Cardiac surgery: usually after 30 days
- Commercial: Usually 7-90 days (Ask your doctor!)



- Depends on insurance policy
- 3-6mo of stability (no new condition, no change in meds)

#### **Exercise**

- Early mobilization (low intensity): ASAP!
  - Walking
  - Move within the tube and Range of motion exercises (surgery)
- Moderate intensity: Within first weeks with doctor's or cardiac rehab team approval



- Can resume 6-8 weeks after surgery > 10lbs progressively
- Its best to start with range of motion exercises







# QUIZ!

Scan this QR code with your smartphone camera or copy this link to test your knowledge with our short quiz!



https://forms.office.com/r/GuAdJsFwkR

### For more information

- Jewish General Hospital Cardiology Patient Guide:
  - https://precare.ca/healthcare-guides/cardiac-surgery/
  - https://precare.ca/healthcare-guides/coronary-angioplasty/
- McGill University Health Center Patient Guide:
  - https://www.mcgill.ca/cardiacsurgery/files/cardiacsurgery/cardiac\_surgery\_ \_patient\_information\_-\_v2.pdf
  - https://www.mcgill.ca/infoneuro/fr/ressources-en-ligne/sujets-medicaux/angioplastie
- Cardiac College: www.healtheuniversity.ca/EN/CardiacCollege/Disease/
- University of Ottawa Heart Institute: <a href="https://www.ottawaheart.ca/patients-and-visitors/tools-and-resources">https://www.ottawaheart.ca/patients-and-visitors/tools-and-resources</a>
- ► Heart & Stroke Foundation: www.heartandstroke.ca
- Canadian Cardiovascular Society Guidelines on Drive & Fly: https://ccs.ca/guideline/drive-and-fly-2003/