

Your Heart

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Nursing Session Outline

• Your heart and how it works

Common heart problems and how they are treated

• Managing your risk factors for prevention



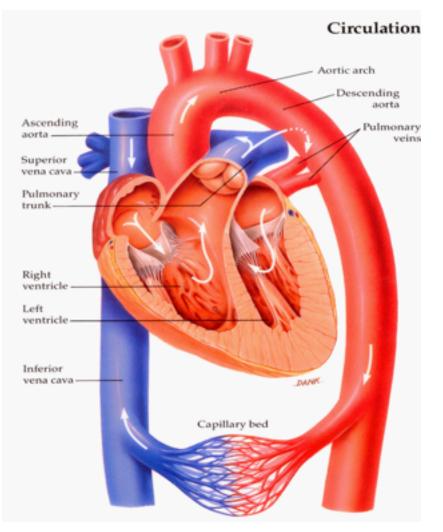


Your Heart

The heart is a muscle...

The heart is a pump...

...a pump with a big job to do!





Heart Problems

Common problems

- coronary artery disease (angina vs heart attack)
- valve disease
- irregular heart rhythms

Less common problems

- aortic arch irregularities
- electrical conduction problems



All heart problems lead to...

Heart muscle pumps blood out of the left ventricle.

Normal

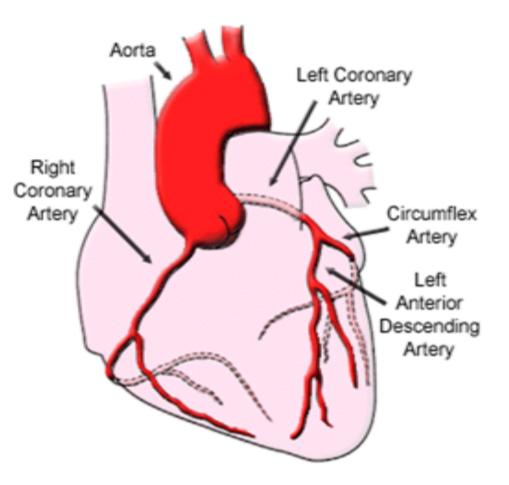
Weakened heart muscle cannot pump enough blood.

Heart Failure



Coronary Arteries

The heart has its own arteries to feed the heart muscle.

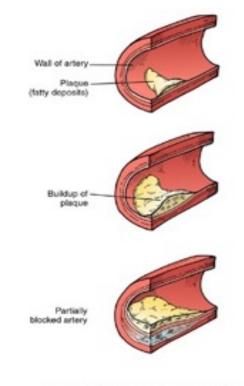




Coronary Artery Disease...

Plaque Buildup in Arteries

...arteries that supply oxygen-rich blood become narrowed or blocked by fatty deposits/plaque



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What is Angina?

....blood can't flow freely through your arteries when plague builds up....

Angina is a symptom squeezing--shortness of breath pressure--banding sensation tightness--chest heaviness burning--toothache nausea-

Angina in Women

Symptoms can be different for women:

- Nausea
- Fatigue
- Shortness of breath
- Shoulder pain

Symptoms are often ignored....Know what to report to the Doctor





Angina vs. Heart Attack

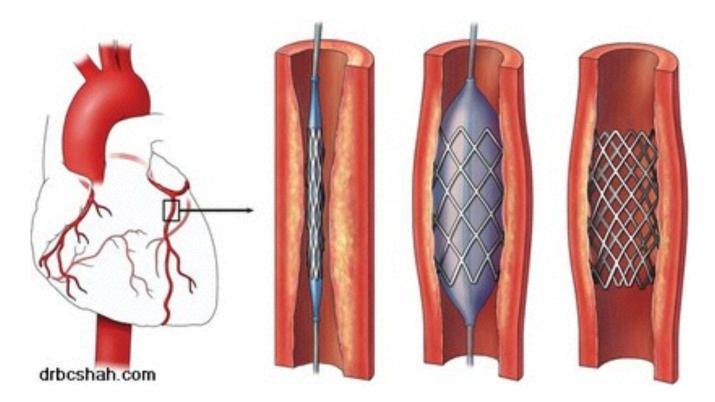
- Angina
 - Lack of oxygen to cells causing pain
 - No muscle cell damage
- Heart attack
 - No oxygen to cells causing muscle cell death





Treatment for CAD

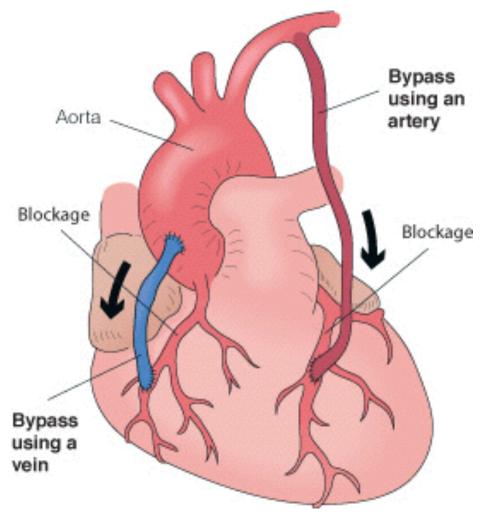
Coronary artery stent





Treatment for CAD

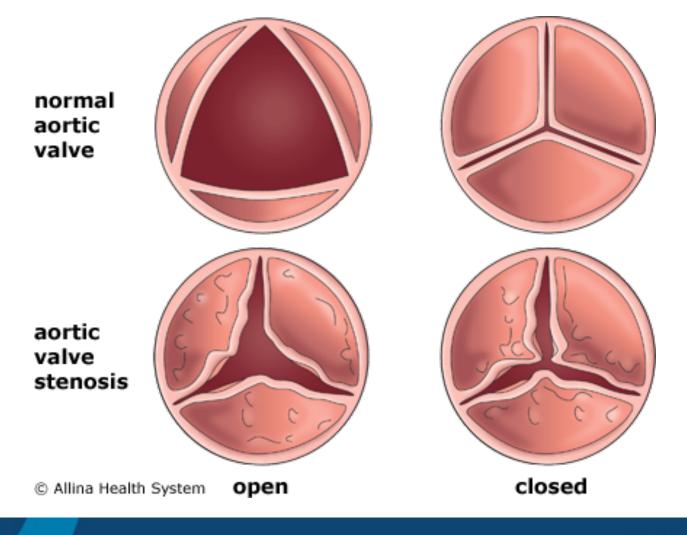
Coronary artery bypass graft





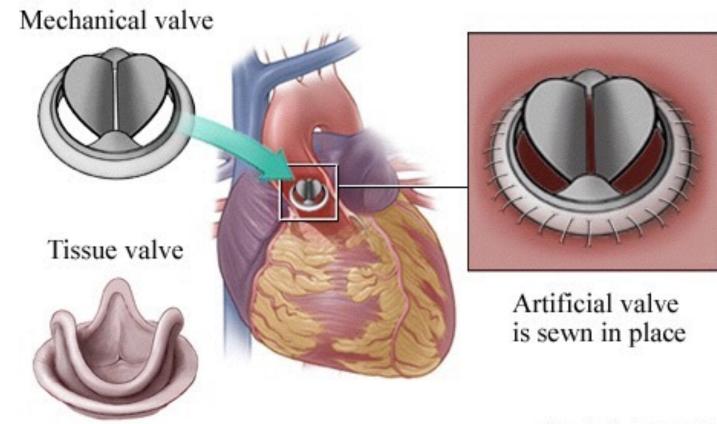


Valve disease



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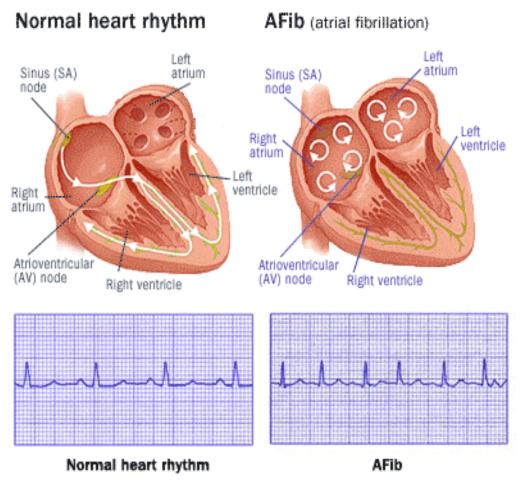
Valve Replacement Surgery



C Healthwise, Incorporated



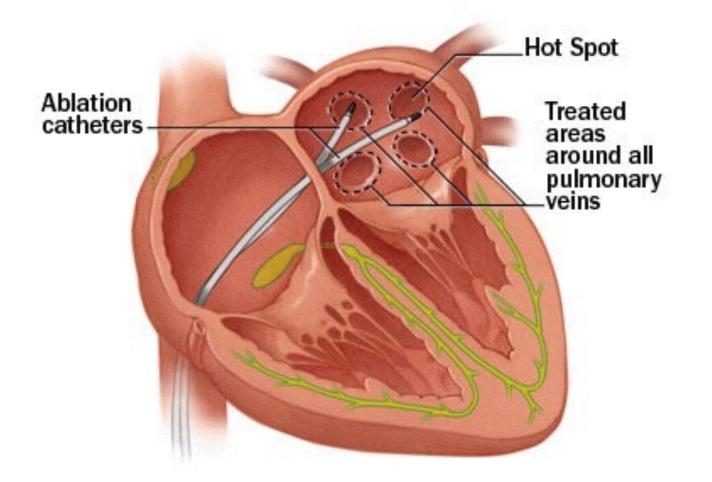
Irregular Heart Rhythms



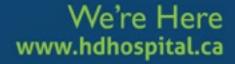
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Ablation Surgery







Risk Factors

Risk factors we can change

- high blood pressure
- diabetes
- smoking
- stress
- excess body fat
- unhealthy cholesterol levels
- alcohol intake
- inactivity

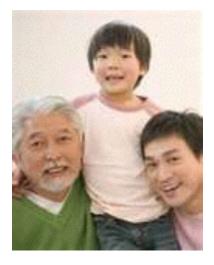




Risk Factors

Risk factors we cannot change

- Age
- Gender
- Family History



• You are more likely to develop heart disease if your parents had it themselves and particularly if before age 55 (premature heart disease).



High Blood Pressure

- blood pressure that goes up and stays up on several occasions greater than 140/90
- usually no symptoms or early warning signs until damage is already done to the body

"The Silent Factor"

 heart works harder, increases blood pressure which damages blood vessels

Know your numbers!



Pre-Diabetes

Pre-Diabetes = being at risk of diabetes

- Normal Range: 4.0- 6.0
- Pre-Diabetes: 6.1-6.9
- Diabetes: >7.0 (2 tests Fasting)

There are things you can do to prevent diabetes or delay its onset!

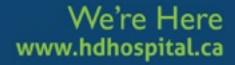


Diabetes

• Type 2 Diabetes

- no known single cause
- body loses ability to convert blood sugar into energy
- energy cannot get into cells
- -leads to a build up of sugar in the blood





Diabetes

Safe Exercise Range

- bring Glucometer to all exercise classes
- self test and record
 - Pre Exercise: < 14</p>
 - Post Exercise: > 4



tracking blood sugars helps you know how lifestyle choices you make affect your diabetes



Smoking

- affects your heart health
- addictive
- smoking cessation program
- support at cardiac rehab

The single most important thing you can do is to QUIT!



Stress

Physical response ("Fight or Flight" response)

- 1. Hormones and glucose (sugar) released into bloodstream...
- 2. Can affect blood pressure, heart rate and blood flow...
- 3. Can increase risk of irregular heart beat and blood clots.

Long term stress can damage lining of arteries





- Affects your immune system
- Affects your energy level
- Makes it difficult to change your health behaviours
- Avoid getting stuck in denial about depression





Other Risk Factors

Excess body fat Unhealthy cholesterol Unhealthy diet

> These risk factors will be assessed during your individual appointment with the registered dietitian.

Inactivity

The registered kinesiologist will discuss your activity-related risk factors including being sedentary.



Medications

Tips to manage your medications:

- Know the name and strength of your medication
- Know how often you take it
- Know why you are taking it
- Know how long you should take it for



Summary



Self managing your risk factors is key

Prevention of another cardiac event is a lifelong goal

