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## Heart attacks

heart attacks

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#### According to the latest WHO data published in 2017, Coronary Heart Disease Deaths in

What You should know about heart attacks



Malaysia reached 30,598 or 22.13% of total deaths. A heart attack occurs when the blood flow that brings oxygen to the heart muscle is

severely reduced or cut off completely. When part of the heart muscle does not get the oxygen it needs to survive, it begins to die.2

arrhythmias. If you think you or someone else may be a having heart attack or its symptoms, don't ignore it or feel embarrassed to call for help.3

Heart attacks can be associated with or lead to severe health problems, such as heart failure and life-threatening

# Coronary heart disease

What causes heart attacks?2,3

by atherosclerosis.

and cigarette smoking.

- Most heart attacks happen as a result of having coronary heart disease The arteries that supply blood to the heart (also called coronary artery) may get clogged with fat, cholesterol,
- or other substances—the collection of these materials is called plaque. When plaque builds up in the arteries, the condition is called atherosclerosis. The buildup of plaque occurs over many years.
- When a part of the plaque ruptures inside an artery, a blood clot is formed on the plaque's surface. Depending on the size of the blood clot, blood flow in the artery can be partially or completely blocked.
- Coronary artery spasm

The spasm cuts off blood flow through the artery. Spasms can occur in coronary arteries that aren't affected

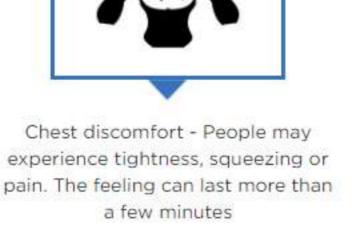
Spasms may be related to certain drugs (such as cocaine), emotional stress or pain, exposure to extreme cold

A less common cause of heart attack is a severe spasm (tightening) of a coronary artery.

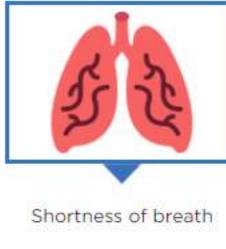
# What are the signs and symptoms?<sup>3,4</sup>

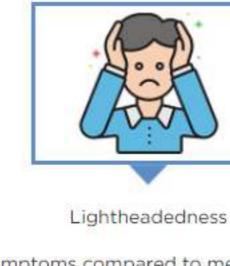
Symptoms vary from person to person. Some people will feel mild pain or discomfort at first, and some won't experience chest pain at all. Signs and symptoms of heart attacks may include:

Not all heart attacks begin with the sudden, crushing chest pain that often is shown on TV or in the movies.

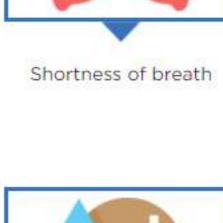








If you, or someone you know, are experiencing symptoms of a possible heart attack, consult your doctor



Women may have different heart attack symptoms compared to men. Women are more likely to experience chest

Lack of exercise and unhealthy diet

Nausea and Vomiting

pain without pressure compared to men. Women may also have certain symptoms more often, like shortness of breath, weakness, fatigue, indigestion, nausea/vomiting and palpitations, pain in the upper back, arm, neck and jaw.

Cold sweat

What are Your risk factors?<sup>2,3</sup> There are a few factors that can contribute to clogged arteries. Increasing age and being male puts a person at a higher risk for a heart disease. Having a family history of heart disease can also increase your risk. Other risk factors

## also include:

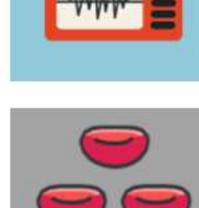
 Smoking High cholesterol High blood pressure

- Diabetes
- Obesity

immediately.

#### What tests are required to diagnose heart attacks?<sup>5</sup> Your doctor will diagnose a heart attack based on your signs and symptoms, your medical and family histories, and test results. Some common diagnostic tests include:

EKG (Electrocardiogram)



### pass through each part of the heart.

**Blood tests** 

Blood tests measure whether there are higher levels of specific proteins that are released into the blood during a heart attack. These blood tests may be done repeatedly to see whether these levels increase or decrease over time

An EKG is a simple, painless test that detects and records the heart's electrical

activity. The test shows how fast the heart is beating and its rhythm (steady or

irregular). An EKG also records the strength and timing of electrical signals as they



#### arteries. A thin tube (called a catheter) is passed through an artery (usually in your

number of other factors.

Coronary Angiography

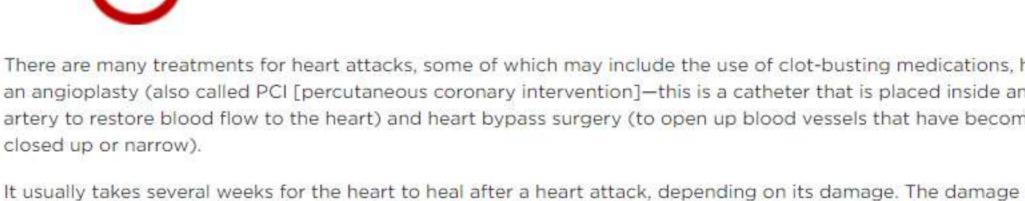
leg or groin) and a dye is then injected into the catheter to show the flow of blood through the heart and its blood vessels. Keep in mind that there are many other tests that may be done to also evaluate your heart (e.g., stress tests, CT scan,

It is a test that uses dye and special X rays to help find blockages in the coronary

How is it treated?<sup>2,3</sup> Your treatment will vary depending on the type of heart attack you had (which

Have a healthy

diet



as:

lifestyle habits.

There are many treatments for heart attacks, some of which may include the use of clot-busting medications, having an angioplasty (also called PCI [percutaneous coronary intervention]—this is a catheter that is placed inside an artery to restore blood flow to the heart) and heart bypass surgery (to open up blood vessels that have become

depends on whether the artery is partially or completely blocked), how much damage the heart suffered, how much time passed since having the heart attack, along with a

consult your doctor or cardiologist regularly. What can You do?2,3

Lowering your risk factors can help you prevent a heart attack. This may involve several key lifestyle changes such

However, with proper treatment and lifestyle changes, it is possible to limit or prevent further damage. Please

caused by a heart attack can lead to heart problems such as heart failure, valve problems and irregular heart rhythm.

Reduce blood Manage your Control Get active and blood pressure cholesterol sugar exercise

Maintain a healthy

weight

If you have had a heart attack, it is important to take your medicine as prescribed every day and maintain healthy

Quit smoking and

limit alcohol

consumption

### activity?"5 When doctors talk about physical activity, healthcare providers are generally referring to 4 types of activities:

What do healthcare providers mean by "physical

It includes running, swimming, walking, bicycling, and dancing. These activities make your heart beat faster and your lungs work harder.



# strengthen your muscles.

your bones.

Stretching

Aerobic exercise

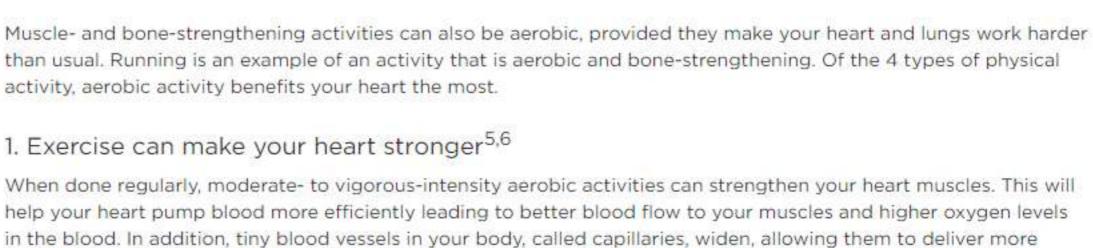
Muscle-strengthening

Bone-strengthening

It includes which includes yoga exercises and touching your toes.

It includes walking, running, and jumping rope. These activities help strengthen

It includes push-ups, sit-ups, lifting weights, and doing yard work. These activities



oxygen throughout the body.

activities<sup>6</sup>

AND

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that are best for you.

#### activity, aerobic activity benefits your heart the most. 1. Exercise can make your heart stronger<sup>5,6</sup>

more likely to develop CHD than people who are physically active.

Raises HDL cholesterol levels (the good type of cholesterol)

Lowers blood pressure and triglycerides (harmful fat in the blood)

Physical activity can help lower some CHD risks because it:

Moderate - intensity aerobic activities

Hiking

Light gardening/ yard work

Dancing

Golfing

combination of moderate- and vigorous-intensity aerobic activity

2. Exercise can reduce risk factors for coronary heart disease (CHD)<sup>5,6</sup> Certain traits, medical conditions, or lifestyle choices can raise your risk for CHD. Due to inactive lifestyle, you are

heart attack in people who have already had one. Note that vigorous-intensity aerobic activity may not be safe for everyone with CHD. Talk with your healthcare provider about the physical activities that may be right for you.

3. Exercise can reduce the risk of having a second heart attack<sup>5,6</sup>

Aerobic activities can be done with light, moderate, or vigorous intensity. The more fit you are, the harder you will have to work to increase the level of an activity. For example, a fit person who walks regularly will have to walk faster than a less fit person who rarely walks to increase his or her heart rate. The table below lists examples of moderateand vigorous-intensity aerobic activities.

Helps the body manage blood sugar and insulin levels, which lowers the risk for developing type 2 diabetes.

For people with CHD, regular aerobic activity can help the heart work better. It may also reduce the risk of a second

Examples of moderate and vigorous-intensity aerobic

Vigorous - intensity aerobic activities

Running/jogging

Heavy yard work (e.g. splitting wood)

Swimming (sow freestyle laps)

Basketball

#### Cycling (less than 10 mph) Cycling (more than 10 mph) Walking (3.5 mph) Walking (4.5 mph) Weight lifting (light workout) Weight lifting (vigorous workout) How much physical activity should You get?<sup>5</sup>

#### At least 30 minutes of moderate-intensity aerobic activity at least 5 days per week for a total of 150 minutes OR At least 25 minutes of vigorous aerobic activity at least 3 days per week for a total of 75 minutes; or a

For overall cardiovascular health, the American Heart Association (AHA) recommends that people get:

 Moderate- to high-intensity muscle-strengthening activity at least 2 days per week for additional health benefits For lowering blood pressure and cholesterol, the AHA recommends:

An average of 40 minutes of moderate- to vigorous-intensity aerobic activity 3 or 4 times per week

Get started now by making a plan and setting a goal. If you have been inactive, keep in mind that some physical activity is better than none. Start slowly and then gradually increase the amount of physical activity you do. Your heart will thank you!

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Always talk with your healthcare provider before starting any new physical activity and about the kinds of activities

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