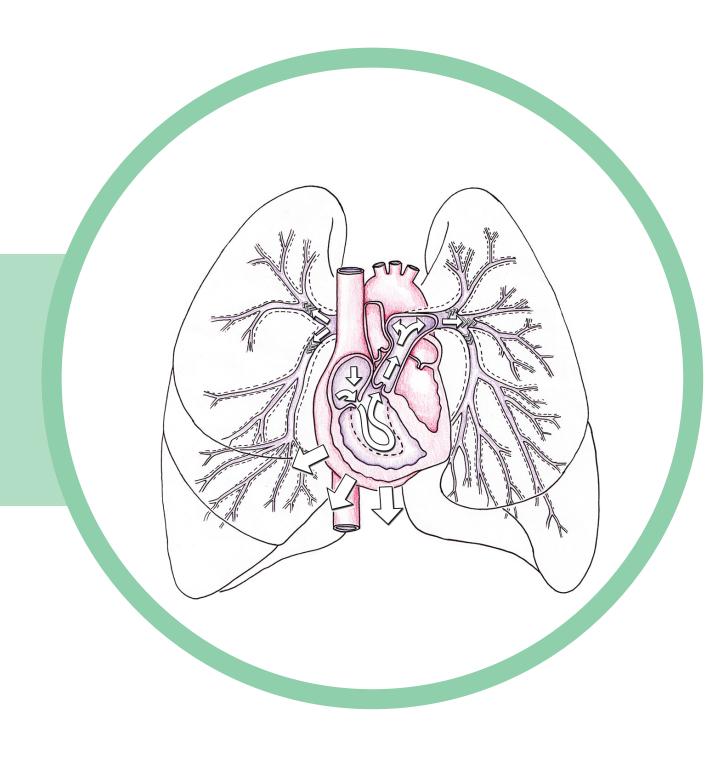
# Without treatment, the average life expectancy of someone with PH is **less than 3 years.**



PH is characterized by the presence of high blood pressure in the lungs.

PH can lead to right-sided heart failure.

PH can strike people of all backgrounds, ages, and genders.

PH affects between 5,000 and 10,000 Canadians.

### Signs & Symptoms

- **Dyspnea** (shortness of breath)
- Fatigue
- Exercise intolerance
- Edema of ankles/feet or legs (swelling)
- Chest pain
- Cyanosis (bluish hands, feet, and lips)
- Syncope (fainting)
- Clinical signs of right-sided heart failure

### **Risk Factors**

#### **Associated Conditions**

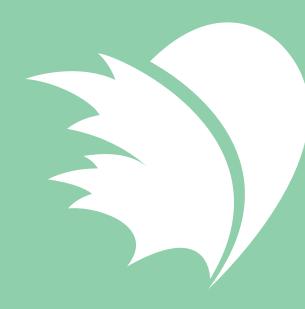
#### Connective tissue disease

(including scleroderma and lupus erythematosus)

• Liver disease

(portal hypertension)

- HIV infection
- Congenital heart disease



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#### Pulmonary Emboli

• Multiple or recurrent blood clots in the lungs

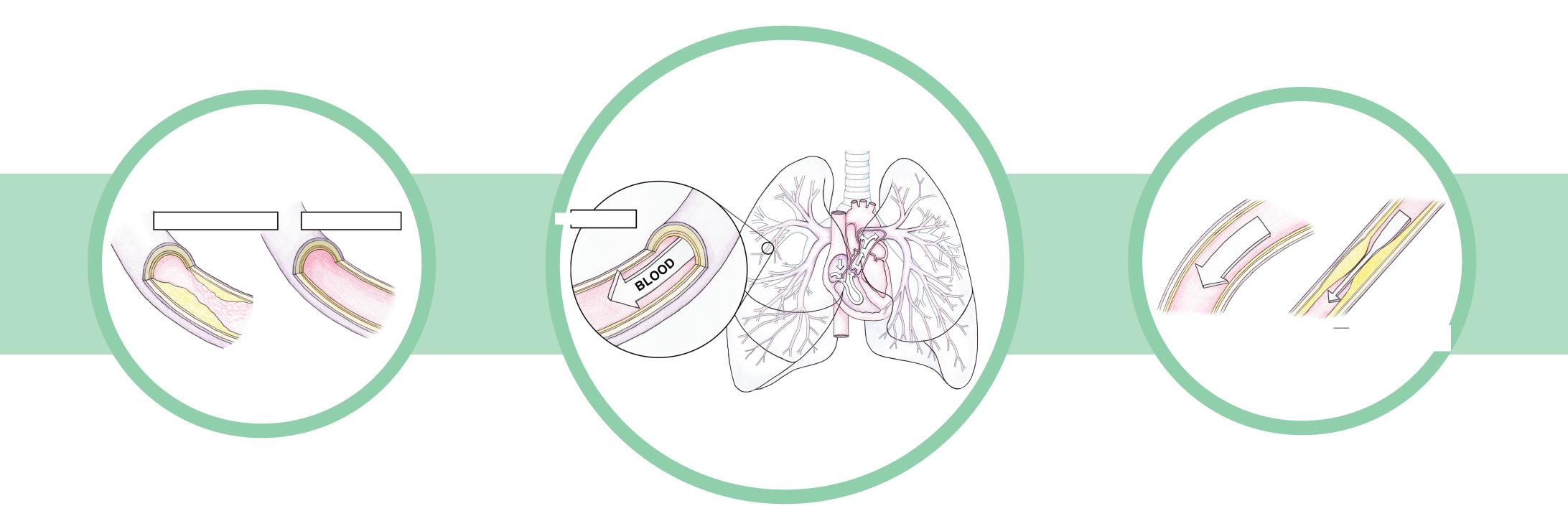
#### Other

- Family history of PH
- Use of certain drugs (e.g. anorexigens)

# **Pulmonary Hypertension**

Pulmonary hypertension (PH) is a rare but very complex and serious lung disease that is progressive and potentially fatal.

# Types of PH



#### Pulmonary arterial hypertension (PAH) WHO Group I

- Idiopathic
- Associated conditions (e.g.scleroderma)

#### • Genetic

PAH is a disease in which blood is not able to circulate normally in the lungs due to narrowing of the arteries.

#### Chronic thromboembolic pulmonary hypertension (CTEPH) WHO Group IV

CTEPH is caused by blood clots that do not entirely dissolve following **pulmonary embolism**, leading to the formation of scars within the pulmonary arteries that impede blood flow into the lungs.

After pulmonary embolism, up to 4% of patients may develop CTEPH within 2 years.

This results in increased blood pressure in the lungs, causing the heart to work harder to pump blood into the lungs. **The heart can become enlarged, leading to right-sided heart failure and even death.** 

PH associated with left-sided heart disease WHO Group II

- Left-sided congestive heart failure
- Mitral valve disease

PH associated with lung disease WHO Group III

- COPD
- Pulmonary fibrosis
- Sleep apnea

PH caused by various other diseases WHO Group V

- Chronic renal failure
- Vasculitis
- Sarcoidosis

# A range of treatment options are available in Canada, **improving the quality of life** of people living with PH.

PH symptoms are similar to those of other common conditions (asthma, COPD, anxiety, chronic fatigue, etc.).

Currently in Canada, it takes more than 2 years for many patients to get diagnosed with PH.



75% of patients have advanced PH when they are diagnosed.

Because PH is progressive, early diagnosis is critical to optimal treatment.

### Diagnosis & Referral

#### Investigations

- ECHOCARDIOGRAM
- Blood tests
- Chest X-rays
- ECG
- Pulmonary function tests

# Referral to specialized centres for confirmation tests

- Exercise tolerance tests
- CT scanning/imaging
- Ventilation/perfusion lung scan
- Right heart catheterization

#### **Treatment Options**

- A number of PAH treatments are approved in Canada to slow disease progression and alleviate symptoms.
- There is a potential cure for CTEPH through surgery. Approved medical treatment may also slow disease progression and alleviate symptoms.
- Centres specialized in the treatment of PH (adult and pediatric) and CTEPH are located throughout Canada.

## www.PHACanada.ca