

**Patient  
Information**

# Pulmonary Embolism

## Introduction

You have been asked to attend the Same Day Emergency Care Unit (SDEC at GRH) or Ambulatory Emergency Care (AEC at CGH) because it is suspected you may have a developing blockage in your lungs called a Pulmonary Embolism (PE). This leaflet will give you some information about what this means and how you will be looked after.

## What is a Pulmonary Embolism (PE)?

A PE is when a small blood clot travels into a blood vessel in your lungs. This clot usually comes from a blood clot in your leg called a Deep Vein Thrombosis (DVT). The clot can break away and travel through the body to the lungs. The blood vessels in the lungs are very small and are easily blocked when the clot becomes wedged. The clot may prevent blood travelling to that section of the lung.

## Why do people have a PE?

A PE can happen for a number of reasons. Some of these are:

- Periods of immobility caused by long travel journeys, illnesses or injuries
- Following an operation
- Pregnancy
- Having severe pre-existing medical illnesses such as cancer
- Having had a DVT or PE in the past
- Taking a hormone based treatment such as the contraceptive pill
- Lifestyle factors such as obesity or smoking

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**Patient  
Information**

## How do you know if you have a PE?

There are many symptoms that could be caused by a PE such as:

- Chest pain which is sharp and worse when you breathe in
- Shortness of breath
- Coughing
- Feeling lightheaded or dizzy
- Passing out

If you have some of these symptoms it could mean that you have a PE. However, sometimes these symptoms can be due to other problems such as infection. In order to be certain, we will collect details about your past history and your symptoms.

## Tests

After an examination, the nurses will arrange for you to have some tests to identify if you do have a PE. The tests may include:

- A chest X-ray
- A blood test called a D-dimer
- A Computed Tomography Pulmonary Angiography (CTPA) scan

The results of these tests will provide information which will determine the treatment you need.

## What is a CTPA Scan?

A Computed Tomography (CT) scanner is an X-ray machine which produces an image of a cross-section or a slice of the body. The scanner is a doughnut shape, about 2 feet thick, through which you pass on a couch. A narrow fan-shaped beam of X-rays is produced from inside and rotates in a complete circle around you. The X-rays pass through your body and are detected by electronic sensors. For a CTPA scan, dye is injected through a cannula into a vein in your arm. This dye will travel through your blood system to your blood vessels in your lungs and make it easier to see if a clot is present.

## Patient Information

### Will I have a scan on my first visit to hospital?

It is rare to have a scan on your first visit; you will usually need to return for the scan appointment.

We may recommend that you need treatment such as a daily injection or a tablet. This will depend on the results of your blood test and examination. The treatment will help to prevent any blood clot dislodging or becoming bigger. The nurses will discuss this in more detail with you.

### If a PE is not diagnosed

Further tests may be necessary or you may be referred back to your GP.

### If a PE is diagnosed

After discussion with you, a decision will be made about what treatment is best. The nurses will then begin the treatment.

### Symptoms

If you feel unwell and start to suffer any of the following symptoms, please **dial 999** and state that you are under investigation for a PE.

- Breathlessness
- Dizziness
- Chest pain
- Coughing, especially if bringing up blood

### Contact information

If you are worried or have any concerns about this information please contact:

#### **Same Day Emergency Care Unit (SDEC)**

#### **Gloucestershire Royal Hospital**

Tel: 0300 422 6677 or 6676

Monday to Friday, 8:00am to 11:00pm

Bank holidays and weekends, 8:00am to 9:00pm

**Patient  
Information**

**Ambulatory Emergency Care (AEC)  
Cheltenham General Hospital**

Tel: 0300 422 3618

Monday to Friday, 8:00am to 8:00pm

Outside of these hours please contact **NHS 111** for advice.

**Further information**

**NHS UK**

[www.nhs.uk/conditions/pulmonary-embolism](http://www.nhs.uk/conditions/pulmonary-embolism)

**British Lung Foundation**

[www.blf.org.uk/support-for-you/pulmonary-embolism](http://www.blf.org.uk/support-for-you/pulmonary-embolism)

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