

The Forever Friends Appeal's latest 'Space for Cancer Care' Campaign is in two phases, the first of which is to provide a state-of-the-art Gamma-CT Scanner.

Most people are familiar with the different ways doctors can produce images of the human body: X-Rays, Ultrasounds, CT Scans, MRI Scans. A Gamma Camera is another, less well known but important way of producing pictures to help with diagnosis and treatment.



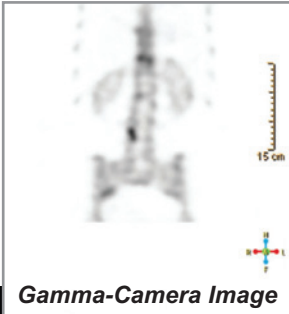
# The first step to enhancing our Cancer Services at the Royal United Hospital

Cancer affects one in three people in the UK. Early treatment is essential in combating the disease and a primary use of a Gamma Camera is to diagnose some of the various types of cancer that can affect us. It can also be used in the detection of heart disease, bone pain and neurological disorders.

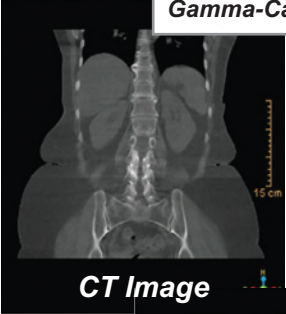
Our aim is to raise £650,000 to purchase this latest technology which combines a traditional Gamma Camera and a CT Scanner, thereby providing very detailed images. **These images can identify abnormalities at an earlier stage than other types of imaging and also accurately pinpoint their location for subsequent treatment.**

The images shown on the right demonstrate the clarity provided when using a combined Gamma-CT Scanner.

**If a picture is worth a thousand words, imagine what a cutting-edge multi slice image would be worth...**



Gamma-Camera Image







CT Image



Gamma-CT Image

## Some facts and figures...

-  The cost of the Gamma-CT Scanner is **£650,000.**
-  In the last five years the RUH has scanned 14,000 patients using the existing Gamma Camera. Approximately 95% were new patients.
-  40% of scans are to detect bone disorders.
-  The combined Gamma and CT Scan will help free up appointments on the CT Scanners because patients will only need one scan. This will also improve the patient experience.

## How the Gamma-CT Scanner works

For a Gamma-CT Scan to take place, a patient is first administered with a tracer that emits gamma radiation. The tracer is designed to target a particular type of tissue in the body such as the heart or specific cancer cells. After the tracer has reached the target tissue the Gamma-CT Scanner is positioned over the patient and detects the radiation emitted by the tracer. Without moving from the bed the patient then has a CT scan. The tracer image can then be viewed over-laid with the CT image providing a total image of both tissue function and structure (as shown on the left).

## How you can help

Raising **£650,000** is never easy, so every penny and pound will make a difference. There are many ways to support the RUH 'Space for Cancer Care' Campaign:

- Making a donation.
- Organising an event with colleagues, a group or club.
- Making a gift in memory of a loved one.
- Participating in Ted's Big Day Out! or other Appeal events.
- Setting up a Tribute Fund.
- Joining the Corporate Partnership scheme.
- Buying Appeal merchandise.
- Becoming a volunteer.
- Making a gift in your will.
- Asking for a presentation/speaker to visit your organisation.

Please tick the areas on which you would like more information and return this form to us at the address overleaf, or visit:

[www.foreverfriendsappeal.co.uk](http://www.foreverfriendsappeal.co.uk)  
[www.tedsbigdayout.co.uk](http://www.tedsbigdayout.co.uk)

Alternatively please call us on **01225 825691**, send a fax to **01225 824013**, email [forever.friends@ruh.nhs.uk](mailto:forever.friends@ruh.nhs.uk), or complete and return the form overleaf if you would like to donate or help us in some other way.