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# Canterbury Bankstown Nuclear Imaging



*The Future of NUCLEAR IMAGING*

*Has arrived in Bankstown!*

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[www.nuclearimaging.com.au](http://www.nuclearimaging.com.au)

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## SPECT/CT COMES TO BANKSTOWN



Canterbury-Bankstown Nuclear Imaging (CBNI) is the first private nuclear medicine practice in NSW to install the very latest in nuclear medicine technology- the **General Electric (GE) INFINIA HAWKEYE 4 SPECT/CT scanner**.

This camera combines a double headed SPECT Gamma Camera and a low dose four slice CT scanner. Both modalities are acquired quickly without having to move the patient. The scanning bed is moved automatically between the nuclear medicine and CT scan detectors respectively. Precise fusion of the two images is easily achieved using the advanced software.

### **SPECT/CT for Improved LOCALISATION and diagnostic accuracy**

The state of the art Hawkeye 4 scanner facilitates accurate **localisation** of any focal lesion detected on the nuclear medicine SPECT study when it is overlaid or fused exactly with the anatomical data from the CT scan. This is particularly helpful in bone, gallium, white blood cell and parathyroid imaging.

### **SPECT/CT for ATTENUATION CORRECTION**

This new technology also allows for the correction of soft tissue attenuation artefact from the diaphragm in men and the breast in women. This significantly improves the sensitivity and specificity of myocardial perfusion imaging in detecting the extent and severity of coronary artery disease.

### **SPECT/CT Education**

Over the next few months a series of teaching cases highlighting the role of the SPECT/CT images in clinical management will be forwarded to you.

Diagnostic confidence can be improved when the functional information from the nuclear medicine bone scan is fused with the anatomical details from the CT scan.

