



Medical Imaging

Providing the cutting edge in CT technology

Illawarra Radiology Group has installed a **Four Slice Multislice Spiral CT Scanner** at our Crown Street Surgery. It is a further advancement on the standard spiral and the 2 slice multislice. This is **the most advanced CT scanner available** in the Illawarra region.

This CT scanner is so quick that it can scan the chest and abdomen in a single breathold.

This scanner can produce a slice thickness down to **0.5mm**, making it the **highest resolution** scanner available in the area.

Advantages

Advantages of a fast Four slice scanner

- ▶ Extensive scanning is easily performed of multiple areas. This is particularly useful with oncology patients.
- ▶ Particularly useful in both the very young and the elderly, in sick patients and patients in pain. Claustrophobic patients are also further helped by the large gantry aperture.
- ▶ Less use of IV contrast.

Advantages of high resolution scans with down to 0.5mm slice thickness

- ▶ Reconstructions can now be done in **any plane** without loss of detail. The more difficult to perform direct coronal scans of the paranasal sinuses, petrous bones and facial bones are no longer required. All body parts including the abdominal viscera can now be easily shown in any plane.
- ▶ In orthopedics this is useful to easily visualise areas such as the talar dome. The very thin slices can now miraculously almost get rid of the problem of metallic artifact.

Fast scanning and high resolution now allow for a number of new applications

CT ANGIOGRAPHY

It is now possible to perform detailed CT angiography of Renal, Cerebral, Aortic, Pulmonary and even peripheral vessels.

Indications for CT angiography would therefore include:

- Renal Artery Stenosis
- Cerebral Aneurysm
- Pulmonary Embolism
- Aortic Aneurysm

CT Urography

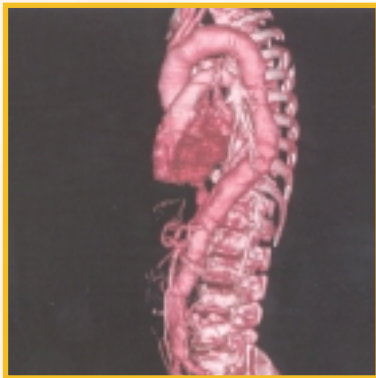
for renal colic.

CT Cholangiography

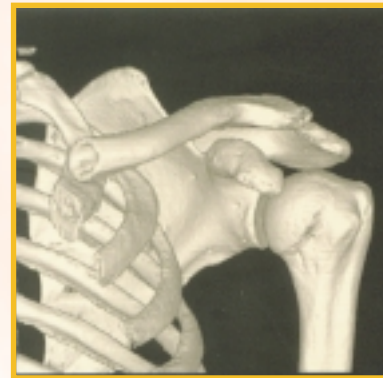
for biliary disease.

Virtual colonoscopy and bronchoscopy

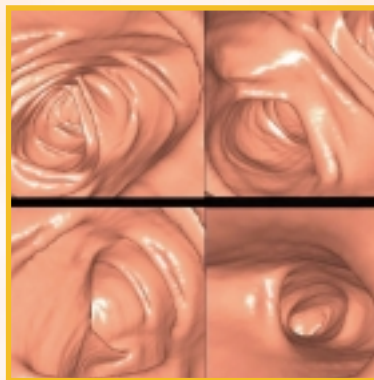
allows fly through imaging of these structures.



The speed and fine slices obtained allows Vascular studies to be performed on any part of the body.



Multiplanar and 3D reconstructions are now available for surgical staging and planning.



Multislice CT scans can now perform CT colonoscopy and CT bronchoscopy.

We welcome any questions you may have with regard to this new technology

To make an appointment - Phone: (02) 4228 7888

IRG Medical Imaging

ACN 067 008 704 ABN 21 898 217 819

383 Crown Street, Wollongong NSW 2500 • Tel: (02) 4228 7888 Fax: (02) 4227 1409