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Women's College
Hospital Foundation

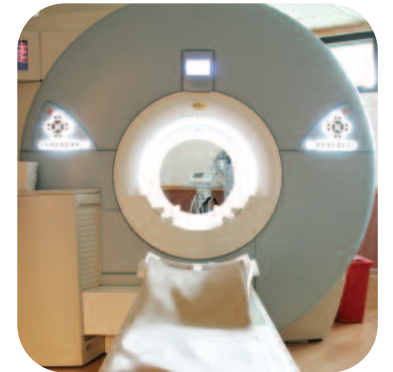
The New Women's College Hospital is set to install a **New MRI Machine** to provide our patients with the best in diagnostic technology.

Planned installation date: *September 2007*
Cost: *\$3.2 million - fully funded through charitable support.*

How does MRI work?

An MRI machine is shaped like a cylinder and works by using a large and powerful magnet to capture detailed pictures of a patient's internal organs and tissues.

Atoms in the body are exposed to electromagnetic waves during an MRI scan, and they send back radio waves of their own. An MRI picks up these signals and turns them into pictures. It examines the patient's body point by point and builds a 2- or 3-dimensional map.



The Medical Miracle of MRI

An MRI (*Magnetic Resonance Imaging*) provides an unparalleled view inside the human body - not equaled by any other imaging modality. While several techniques provide information on the morphology of organs and tissues, only MRI gives additional detailed information on the function and the vitality of these organs and tissue - which is of utmost importance for tissue characterization, prognostic implications and treatment planning.

The technology is fast, noninvasive and safe and can evaluate complex muscle and bone conditions as well as detect life-threatening diseases like cancer.

The first MRI exam was performed in 1977. Since that time, MRI has gone on to become the gold standard of all diagnostic tests. Its advanced capabilities are unmatched.

What are the major benefits to MRI?

There are numerous benefits to having an MRI scan.

MRI...

- Is painless
- Offers no exposure to radiation
- Is fast and accurate
- Enables the detection of abnormalities which might otherwise be obscured when using other imaging methods
- Provides a noninvasive alternative to x-ray angiography for diagnosing problems of the heart and cardiovascular system
- Takes images from multiple angles without the patient having to re-adjust
- Allows doctors to quickly determine the treatment needed

What can an MRI diagnose?

An MRI produces an extremely detailed picture of many different areas of the body.

A doctor may order an MRI scan to investigate:

- Breast disease
- Osteoarthritis and other musculoskeletal conditions
- Heart and cardiovascular problems
- Cancers - both for early diagnosis such as breast cancer as well as correct staging of cancer spread
- Infections or tumors in the brain, spine or joints
- Neurological diseases such as stroke, multiple sclerosis or tumors
- Suspected ophthalmologic conditions such as detached retina

