

## **Preventative Screening Program Overview**

**CMI offers the most comprehensive, non-invasive health screening program available. CMI utilizes state-of-the-art, high field strength MRI (Magnetic Resonance Imaging) technology to scan the body & generate highly accurate images of vital organs and systems.**

**In less than 60 minutes, 2000+ detailed images are collected and then screened for the early detection of lesions, tumours, anomalies and such life-threatening illnesses as aneurysm, stroke, cancer and vascular disease. CMI's screening program includes a general core body evaluation but also focuses on areas that have the highest yield and greatest impact on the patient population.**

**MRI whole body screening conducts the scan without the perils of ionizing radiation found in CT (Computed Tomography) screening protocols. In addition, its wide bore provides substantially improved patient comfort.**

**Early detection of any disease or issue is critical, allowing both the patient and physician to make vital healthcare decisions before symptoms arise, while treatment options are at their best.**

**The principle areas on which our screening program focuses are as follows:**

### **1. Aneurysm screening**

Both brain and abdominal aneurysms (AAA) continue to have a very high mortality when they rupture but, when detected, there are evolving, minimally invasive techniques available for treatment. When AAA's are repaired electively, the overall mortality rate is 0.9 to 5%. If repair is delayed until rupture, mortality rates as high as 75% are reported. In aneurysms 4-5 cm in diameter, the risk of rupture is almost 25%, with an associated mortality rate as high as 75%.

### **2. Kidney**

Kidney tumours generally display consistent growth patterns (but are generally asymptomatic). When they are detected early, they have a very good prognosis (if detected in stage 1, there is a 90-95% 5 year survival rate vs. stage 4 which has a 5% 5 year survival rate).

### **3. Compression fractures of the spine**

Compression fractures of the spine are a cause of progressive impairment when undetected and untreated.

### **4. Pelvic screening**

Ovarian cancer is often asymptomatic until its later stages and is associated with high mortality when discovered at an advanced stage. Early detection is critical to survival improvement.

### **5. Pancreatic Disease**

Thorough evaluation for pancreatic disease, including both inflammatory processes and malignancy (cancer).

### **6. Liver lesion detection**

With diffusion weighted MR imaging, CMI's open bore, high field strength magnet provides state of the art techniques to detect small liver lesions not offered routinely in hospital practices. Small lesions become more apparent using this advanced technique and the lesions that are uncovered will be evaluated thoroughly when required. This is particularly of value for those with known chronic liver disease.

### **7. Biliary diseases**

Gallstones and other abnormalities of the gallbladder and bile ducts are evaluated exquisitely using MRI. This is the best non-invasive way of evaluating the biliary tree.

Each whole body scan performed at CMI is double-read by Board Certified radiologists who specialize in the areas they are reporting. Should a scan detect an area of concern, that concern will be discussed by one of our radiologists directly with the designated primary care physician and a follow-up plan will be recommended as required.