

Synopsis of Grant Commitments 2012/2013

Thunder Bay Regional Health Sciences Foundation

2012-003 Thunder Bay and District Breast Cancer Support (Lundstrom, \$5,000)

Program – support group for breast cancer patients and survivors

The Thunder Bay and District Breast Cancer Support Group provides support through monthly meetings and other events to patients diagnosed with breast cancer throughout treatment and survivorship.

2012-004 Vital Sign Monitoring – Screening Colonoscopies & Chemotherapy – Marathon (Lees, \$9,200)

Equipment for monitoring vital signs during colonoscopy and chemotherapy

Both colorectal screening (colonoscopy) and chemotherapy require vital signs monitoring. This grant for the Wilson Memorial General Hospital in Marathon will replace two aging units in its program.

2012-005 Chemotherapy Equipment – Red Lake (Larson, \$5,073.28)

Equipment for safe infusion of chemotherapy

The Chemotherapy Unit at Margaret Cochenour Memorial Hospital in Red Lake requires two pieces of equipment to help with the safe infusion of chemotherapy: a vital signs monitor and a scale to weigh patients to ensure proper dosage.

2012-009 Mental Health and Mental Illness Awareness Week Campaigns (Bertrand, \$10,000)

Education about mental illness and related issues such as addictions

One of the major challenges of mental illness including depression, suicide, and addiction is addressing the stigma that surrounds it. Awareness campaigns twice per year will help reduce the stigma by educating staff, patients, and the general public about mental illness and its treatment.

2012-011 Colposcopy Equipment Upgrade/Replacement (McMullen, \$43,500)

Equipment that both replaces aging colposcopy unit and upgrades current capabilities

The Colposcopy Clinic helps prevent cancer in women by identifying and removing pre-cancerous lesions of the cervix and lower genital tract. The new unit will improve patient care by increasing the quality of sample collection, improving treatment of pre-cancerous tissue, and increasing capacity to meet patient demand.



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2012-013 Chemotherapy Unit Equipment Replacement – Kenora (Fitzgerald, \$15,379.65)

Equipment replacement for chemotherapy infusion and patient comfort

The Chemotherapy Unit at Lake of the Woods District Hospital needs to replace two pieces of aging equipment: a triple-channel IV infusion pump for chemotherapy delivery, and a patient stretcher used during PICC line insertions and other procedures within the unit, improving patient safety and comfort.

2012-028 Digital Mammography Unit with Stereotactic Breast Biopsy (Miller, \$150,000)

Equipment that both replaces an aging mammography unit and upgrades current capabilities

This mammography unit takes two-dimensional images from two different angles to create a 3D image in the computer, pinpointing the precise location of the breast abnormality for core needle biopsy. The new unit will replace an aging unit susceptible to breakdown resulting in patient care delays.

2012-029 Echocardiography Unit (McKnight, \$175,000)

Equipment to replace aging echocardiography equipment

Echocardiography is a non-invasive diagnostic tool that is routinely used in diagnosis, treatment, and follow-up of heart disease. Currently, the Cardiovascular Program at the Health Sciences Centre provides 7,300 echocardiographs per year. This grant will replace one 12-year-old unit, upgrading our capabilities.

2012-031 MRI Upgrade Project (McKnight, \$100,000)

Equipment to replace aging MRI equipment

The Health Sciences Centre provides 13,000+ operating hours of MRI imaging services annually, and performs in excess of 16,700 procedures. Not only will this grant provide replace the current 14-year old unit, it will also represent an upgrade in patient care for a variety of applications including cancer and cardiovascular diagnostics, as well as research applications.

2012-040 Isolette (Incubator) Purchase for NICU (Purdon, \$46,000)

Equipment that provides a warm, safe environment for pre-term or ill infants

Pre-term or ill infants sometimes do not have the needed body fat so important to keeping themselves warm. The isolette helps infants maintain appropriate body temperature. This new unit will replace and upgrade current capabilities within the Neonatal Intensive Care Unit (NICU).

2012-047 Intra-Aortic Balloon Pump Expansion (Beck, \$51,975)

Equipment to extend emergency cardiac care capabilities

An Intra-Aortic Balloon Pump (IABP) is life-saving emergency equipment temporarily opens the arteries of patients to restore blood flow after a major heart attack or other heart failure. A second IABP will double capabilities, and help ensure 24/7 coverage for patients.



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2012-048 Acute Cardiac Area Monitor Defibrillator (Vinet, \$23,000)

Equipment to extend defibrillator capabilities in the Emergency Department

The Emergency Department has a designated Acute Cardiac Area (“C-Area”) for suspected heart attack patients, which includes four resuscitation rooms. However, during high-volume times, cardiac patients may need to be treated outside of these rooms. This additional defibrillator unit will ensure bedside access for immediate care, increasing patient safety.

2012-049 ICU Cardiac Monitoring Equipment (Beck, \$500,000)

Equipment to replace aging cardiac monitoring equipment in the ICU

Cardiac monitoring is the standard of care for all patients admitted into the Critical Care Unit (ICU). Current aging monitors are almost nine years old and, after almost constant use, need replacing. New units will also be an upgrade to current models for better patient care.

2012-050 Videofluoroscopic Swallow Study (VFSS) Equipment Upgrade (Rousseau, \$29,915.62)

Equipment to upgrade VFSS capabilities to meet accepted standards

Chewing and swallowing disorders sometimes affect patients with cancer, stroke, or a number of other disorders and diseases. Videofluoroscopic Swallow Study (VFSS) can identify issues for therapists so they can develop treatment strategies for patients. Current VFSS equipment does not meet set standards because it may miss important diagnostic information.

2012-051 Urology Table Replacement (Dowson, \$58,568)

Equipment to replace current examination table to improve patient and staff safety

Optimally, a urology table should be multi-functional allowing it to be used for imaging as well as examinations. However, there are specific safety concerns with the current urology table when used for examinations. The new table will increase patient and staff safety.

2012-056 SuperStealth S7 Image Guidance System (Skogberg, \$230,000)

Equipment that helps surgeons “navigate” the body using 3D computer generated images

Pre-surgery images, normally from an MRI or CT scan, provide a virtual map of the patient’s body. When combined with real-time images from an LED camera, the surgeon can find the precise location within millimetres, much like a GPS for the body. For example, this helps the surgeon pinpoint a brain tumour or the exact insertion spot of a spinal screw. This level of precision means less damage to healthy tissue during surgery, which in turn leads to shorter recovery times, reduced pain, better outcomes, and overall better patient care.

