



Purchasing a Deep Brain Stimulation System will enable GMC to provide life-changing treatments to people with Parkinson's and other neurological conditions



Upgrading Essential Medical Equipment

Galilee Medical Center's general director, Prof. Masad Barhum, has devised a strategic plan to transform the hospital into a first-rate medical facility that will provide the region's population with a comparable level of care as is available in the center of the country.

In addition to renovating GMC's inadequate and run-down facilities, Prof. Barhum and his team are focusing their efforts on expanding the scope of medical services available at the hospital. Currently, many departments lack up-to-date equipment that is widely accessible at most modern hospitals in Israel and around the world. As a result, the medical teams are unable to offer certain procedures and tests – and this deficiency has a direct impact on patients' health.

At this time, GMC urgently wishes to purchase essential equipment that is lacking in four key departments:

Cardiac Rehabilitation Department

Cardiac rehabilitation programs reduce the risk of death from heart disease following heart attacks. They are also important for treating heart disease and reducing the risk of future heart problems. Although demand for these services is high in the Western Galilee, until now GMC's Department of Cardiology has only been able to offer very limited cardiac rehab programs.

The hospital wishes to significantly expand its cardiac rehab facilities and hire additional staff in order to help many more people recover





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Visual Field Analyzer

from heart-related conditions. To do so, the following new equipment must be purchased:

Exercise equipment:	20 machines (treadmills, recumbent cross trainers, stationary bikes, pneumatic weight machines, etc.)	\$128,500
New medical equipment:	Resuscitation trolley and defibrillator, a glucometer, a telemetry station that includes eight telemetries, and three blood pressure monitors	\$381,500
Furniture and other equipment:	Two computer stations, a treatment bed, a kitchenette/staff room, a small meeting room for lectures, and other basic furnishings	\$250,000
Total budget required for expanding the cardiac rehab facilities:		\$760,000

Neurology Department

Electrode stimulation of the brain is an effective treatment for a variety of neurological conditions, and is considered the preferred choice for treating such diseases as Parkinson's, dystonia, chronic depression, OCD, Tourette and others. The treatment, which is given when the patient's condition worsens, significantly reduces symptoms and provides a much better quality of life. In particular, patients with Parkinson's report greatly improved functioning for many years.

To date, this treatment is not available to the one million residents of northern Israel. GMC's neurologists include highly qualified specialists in this field and the hospital is eager to purchase a Deep Brain Stimulation System to be able to better treat the region's population.

The cost of a Deep Brain Stimulation System is \$267,000.

Ophthalmology Clinic

A Visual Field Analyzer is a tool for measuring the human visual field of each eye separately, including the central and peripheral vision to the sides. The device in GMC's Ophthalmology Clinic is very old and often malfunctions, but technical support for that model is no longer available.

Since this test is an important component of any general vision examination, and especially when ocular glaucoma and retinal diseases, GMC seeks to urgently purchase a new and more sophisticated Visual Field Analyzer as a replacement for the old machine now being used.

The cost of a new-generation computerized Visual Field Analyzer is \$36,000.



Diagnostic Equipment

The field of diagnostics has evolved considerably in the last decade, and increasingly sophisticated equipment is capable of providing very precise information about patients' conditions. These days, there is a direct correlation between the type of diagnostic equipment available at a medical center and the quality of care which that medical center is able to offer.

In order to meet GMC's strategic goal of upgrading its medical services and providing the population of the Western Galilee with a similar level of healthcare as is available in the greater Tel Aviv area, the following pieces of equipment must be purchased:

1. **Genomic Sequencing Machine – Ion GeneStudio S5 Plus:** Enables rapid sequencing of the base pairs in DNA or RNA samples, which is the future of personalized medicine. Estimated cost: \$331,000
2. **Scpio digital cell analysis machine – FF-PBS Perpetual license on X100 platform:** Automates the analysis of tens of thousands of cells at a time, leading to dramatically earlier detection of cancers, infections and other diseases. Estimated cost: \$45,000
3. **Wash Centrifuge:** For performing routine tasks in blood bank labs, such as antiglobulin testing. Saves valuable time compared to the manual method. Estimated cost: \$15,000
4. **MAGNUS Plus:** Fully automated paraffin reutilization tissue processor that saves time and costs since it does not require paraffin transfers and is xylene-free. Estimated cost: \$86,000
5. **Agar plate inoculation robot – BD Kiestra™ Inoqula:** An advanced technology that has many advantages, including much higher efficiency, faster sample-to-results time, and the prevention of human-origin errors. Estimated cost: \$640,000

The total cost of purchasing the required modern diagnostic equipment is \$1,117,000.



For more information about Galilee Medical Center and to donate, please contact: Avrum Lapin, Director, **American Friends of Galilee Medical Center**. Tel: (215) 885-1550, POB 789856, Philadelphia PA 19178-9856, Email: alapin@thelapingroup.com, www.afgmc.org

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