

Microscope for Pathology

Pathology is a significant field in modern medical diagnosis and medical research, concerned mainly with the causal study of disease, whether caused by pathogens or non-infectious physiological disorder.

Pathologists make the final diagnosis through examining the cells from patients under the microscope. The diagnoses made by pathologists guide clinical management of each patient. Without pathology diagnosis, clinicians will not know how to treat the patient.

For example, a pathologist will advise the clinician if the patient has a cancer, what type of cancer it may be, the kind of treatment that the cancer responds to, etc. They also conduct autopsies to determine cause of death.

At the Children's, pediatric pathologists make more than 10,000 diagnoses each year by examining patients' cells under a microscope. Each diagnosis will make an important difference in the care of each child.

The specific microscope proposed is a state-of-art instrument that is essential for a newly recruited pediatric pathologist to perform her duties at the Hospital. This microscope will last for more than 20 years, for a total of over 200,000 diagnoses during its lifespan. **Many of these diagnoses will be done for patients treated in the hematology-oncology division. Blood tests such as hemoglobin electrophoresis and HLA, as well as a variety of biopsy results will be facilitated thanks to the acquisition of this new microscope.**

Cost: \$55,000

