Medical laboratory testing plays a crucial role in the detection, diagnosis and treatment of disease in patients. Laboratory tests help determine the presence, extent, or absence of disease and monitor the effectiveness of treatment. Our lab staff run more than 66,000 diagnostic tests per year! The laboratory is also responsible for regular blood donor collection and storage of the blood supplies. AHC also has a microbiology laboratory, run in conjunction with the Cambodia Oxford Medical Research Unit (COMRU) which performs bacterial and viral cultures for identification and determines antibiotic susceptibility. Ensuring that the diagnostic lab and the microbiology lab are equipped with international-standard, modern, well-functioning and reliable equipment is incredibly important for Angkor Hospital for Children.

**BLOOD DONATION**

We depend upon the generosity of blood donors every day, but we also need to be able to depend upon the best equipment to ensure donation collection and storage goes smoothly and efficiently. Our Laboratory requires a Blood Collection Monitor to improve patient safety by automatically monitoring blood flow and volume and reduce the chances of getting too much or too little blood from the donor.

A hand sealer will quickly and easily seal the blood collection bags. A coagulation analyzer allows our staff to analyze large quantities of samples with a high level of accuracy, including running a wide range of tests and easy identification. At the end stage of this process, an incubator prepares the donated blood for transfusion to our patients in need.

**ONCOLOGY**

Oncology is where some of our bravest young patients are receiving what we hope will be life-saving treatment for many forms of cancer. The unit now requires a cytocentrifuge, slide scanner and strainer – this equipment is essential for efficient and timely identification of biological samples and viewing of those samples; allowing staff to make faster assessments of patients conditions.

**Blood Collection Monitor**

- Separation Stand
- Hand Sealer
- Coagulation Analyzer
- Incubator = $9,300

**Cytocentrifuge**

- slide scanner
- strainer = $3,000