



HemoCue® WBC DIFF System

Queen Silvia's Hospital for Children

Queen Silvia's Children's Hospital is part of Sahlgrenska University Hospital, and alongside patient care, education and research are conducted here. Severely ill or injured children from the Västra Götaland region come here for treatment. It also offers highly specialized care for children from all over the country. The hospital has Sweden's largest emergency unit for children with nearly 60,000 patients each year.

Why did the hospital choose HemoCue® WBC DIFF System?

Queen Silvia's Hospital for Children was one of the first hospitals in Sweden to evaluate the HemoCue® WBC DIFF System when it was launched in 2010. Already using the HemoCue® WBC System, the hospital had asked for a system with a differential count of the total number white blood cells.

In the beginning, it was clear that the staff's unfamiliarity was a hurdle to overcome, but everyone quickly began to see the advantages of having the system in place.

- Yes, for us, time saving is a critical factor, and this is why we still use the system today.

Daily workflow at the emergency room includes a lot of non-value added time since a large part of the flow consists of waiting. A large benefit is the possibility to reduce any waiting time, states Hannah Sjöstedt, Emergency Doctor and Head of Department.

- We do not perform WBC DIFF tests on all patients, we also use CRP. However, in cases where we do, we save an hour immediately, which also impacts the overall workflow. Occupancy will decline and ultimately the patient safety is affected in a positive way. Today, this becomes evident when it is not possible to run the system, i.e. if we run out of microcuvettes and have to send samples to the lab instead.



Moa Gustavsson and Viviana Calambas Garces use HemoCue WBC DIFF at the children's emergency room at Queen Silvia's Hospital for Children in Gothenburg.

- This causes longer waiting for the patients and increases the number of patients in movement. A high occupancy in the emergency room reduces patient safety; therefore, it is important to reduce waiting time.

When is the HemoCue® WBC DIFF System used?

Patients that come to the children's hospital are treated for surgical and medical conditions.

- That's correct, and abdominal issues are a common reason for a patient to end up in the emergency department—such as appendicitis, constipation, and mesenteric adenitis, confirms Hannah.

- Especially in suspected appendicitis cases, it's valuable to quickly receive results on total white blood cell count with a 5-part differential.

What are the benefits of using HemoCue® WBC DIFF System?

The HemoCue® WBC DIFF System, based on the cuvette technology from HemoCue, provides a total white blood cell count, with a 5-part differential. The system is easy to use, and within five minutes, it delivers a lab-quality result. The doctor then makes a judgment if the infection is viral or bacterial and then decides treatment during the patient's visit. Previously, you sent the sample to the lab and waited at least an hour, sometimes longer. The main objective of using the HemoCue® WBC DIFF System is to accelerate the process of assessment to treatment and by using a 5-part diff, gives necessary information needed in various clinical situations. To set diagnosis and start the right treatment with the patient on the spot may reduce the patient's waiting time and thus allow more time for caregivers.