

Monidor Solution case study: Kuopio University Hospital medical ward

In Kuopio University Hospital medical ward, the Nurses tested the benefits measurement model developed by Monidor. The hospital is located in Eastern Finland and is one of the five university hospitals in Finland. The measurement model can be used to assess the concrete benefits of the Monidor solution. The solution benefits were measured, during the pilot, from different perspectives. At the end of the shift, the Nurses recorded if they saved any number of visits to patient rooms or when problem situations were detected using the Monidor solution. The survey was conducted over 5-days, from 7 December to 11 December 2020.

The solution was used for drug, nutrition, and basic hydration infusions where the use of an infusion pump is not necessary. More than 90% of the department's infusions are such. The solution was also used for blood products, but to a lesser extent.

Monidor Solutions saves time and improves the quality of care

According to the measurement results, the saving of working time for a month* was 20h 15min if there were 3 nurses**. Also, Nurses saved 48 visits to an isolation rooms and 120 visits to a standard patient room. Nurses observed 24 cannula obstructions in sufficient time. Nurses looked after 108 complete infusions, and there was a markedly different infusion rate in 66 cases. Also, 12 other issues in infusion therapy could be detected when Nurses used the Monidor solution.

Results per month*:



20h 15min/kk, if there were 3 nurses on shift**



24 in time detection of occlusion of cannula



48 visits saved in an isolation room
120 visits saved in a standard patient room



108 infusions were observed to be complete



66 markedly different infusion rate noticed



12 other issues in infusion therapy detected

* 30/5 x average result based on 5 day results

** 3 nurses * 3 shifts / day * 30 days * 4,5min

Monidor Solution frees up time for personalised patient care

In conclusion, the Monidor solution improves patients' quality of care, saves nurses working time, and brings cost savings in consumables in medical wards. According to feedback from the ward nurses, the Monidor solution also is a big help when treating patients in isolation rooms. The patient check-up visits to the isolation room are time-consuming, and donning PPE takes time.

Using the solution reduces unnecessary steps and frees up time for personalised patient care, for example, in the morning, when nurses are infusing numerous fluids and medications and admit new patients. Remote monitoring helps to detect problem situations in time, for example, closer monitoring of hydration in patients with heart failure and cannula occlusion. Nurses felt that the Monidor solution was easy to use and train and is now in daily use in the ward.

