

# Hand hygiene campaign in the green zone of the Covid department of Mohács Hospital



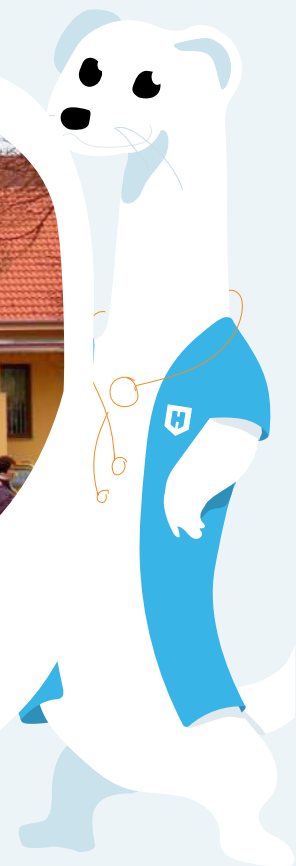
Since the work of Ignaz Semmelweis, we know that proper hand hygiene is one of the most effective and most simple methods for the prevention of infectious diseases.

This is especially true in healthcare facilities, where the highest percentage of infections that occur here are spread by touch and are usually caused by poor hand hygiene.

These infections prolong the time spent in health care facilities and mean significant additional costs to the institution and increase the mortality rate.

The WHO's six-step protocol includes those steps, that we can apply to learn good hand disinfection practices.

Simmelweis Scanner, a measurement and instant feedback based tool provide information on measuring the true effectiveness of hand disinfection technology, which is already available in 50 Hungarian healthcare facilities.



**PROFESSIONALS OF MOHÁCS HOSPITAL  
SHARED THEIR EXPERIENCES IN USING  
SEMMELWEIS SCANNER  
AS A HAND HYGIENE TRAINING TOOL.**

The hospital, with 300 beds and approximately 500 workers, employs 3 public health inspectors, as hospital hygienists.

For the effective development of hand hygiene, an interactive training tool, the Semmelweis Scanner, was deployed in the hospital in 2017 to digitally record hands rubbed with a hand hygiene training liquid containing a special UV-active marker molecule, which is then being immediately evaluated and results are displayed as feedback to the user. The tool transmits the measured data to an analysis system that can be used to track progress.

Mohács Hospital has its own identity card, which employees also use when entering the hospital, they identify themselves with the same card when using the Semmelweis Scanner. Thereby it is visible by name on the web interface, who, when, how many times and with what results has used the hand sanitizing technique checker tool.

The Semmelweis Scanner has been a great help for them so far, as they are able to use it purposefully during the annual training of existing employees according to how the department has performed so far and with what results it has used the scanner.

Each typical error is becoming traceable in the department as well as in person. The results of the measurements can be prepared in a document, that is colourful and simple, but at the same time contains attention-grabbing diagrams, which, along with a discussion of the results, are handed over to the head of the department chief physician and to the head of the department nurse. The results of the use of HandInScan by inpatient wards and specialist clinics are attached to the professional evaluation, are sent as a report for feedback to the hospital management. They are able to compare the evaluations of the departments with the results of previous years, thereby with the help of Semmelweis Scanner, they are able to focus on developing the mastering of the hand disinfection technique.



The appearance of COVID-19 also played a major role in the appreciation of hand hygiene, the conscious use of hand sanitisers has increased almost 200% to prevent the spread of the virus. They experienced on the training on protecting against the pandemic, that workers are becoming even more motivated than before, in learning the right technique.

The Semmelweis Scanner wanders in Mohács Hospital and is located in a department for an average of one month before being relocated to the next one.

The Hospital Hygiene Service sees the scanner as a great illustrative tool for educational purposes because it is easy to use and can be taught to workers quickly. After placement and training held for the head nurse and/or for the infection control contact person, training in the use of the tool does not require continuous presence from hospital hygiene because a designated, trained nurse helps colleagues in the ward. The medical staff is also supported in the use of the machine by outsourced, laminated short guides and the speak-for-itself and transparent user surface itself.

Hospital management and the Hospital Hygiene Service have created a reward system, with which to encourage the use of the scanner in case of every healthcare professionals and those working in healthcare.

On a regular basis ( approx. every half a year ) the Hospital Hygiene Service chooses workers in an objective way based on their results, who have used the Semmelweis Scanner the most and with the best results.

“After evaluating the results, we choose a champion from each department, who are rewarded with a certificate and gift in the frames of an organised celebration by managers of the hospital. In addition, on the Semmelweis Day celebration the best performing hand-hygiene excellence among the hand-hygiene champions is rewarded based on the results of the past year.”

Hand-hygiene champions are motivated by a number of material gifts, while hand-hygiene excellence is motivated by reward-leave and holiday opportunities to continue to participate in the development of hand-hygiene and to encourage their colleagues to do the same. As a result, employees are looking forward to participate in the hand-hygiene program and looking forward to the re-announce of hand-hygiene champions and excellence by the hospital management.

## And the results speak for themselves:

PERIOD:	Autumn 2017 - Spring 2021
TOTAL:	approx. 2540 measurements (6 scans / user)
AVERAGE HOSPITAL RESULT:	93.5%
SINCE 24/09/2020	6 campaigns completed
MOST SUCCESSFUL CAMPAIGN:	132% - 1416/1870 score - COVID department



In autumn 2017 the Semmelweis Scanner was deployed to the Mohács Hospital. In the period up to spring 2021, approx. 2,540 measurements were performed with it, which means an average of 6 measurements per employee. During that period, participants achieved an average score of 93.5%.

The most successful campaign was in the green zone of the COVID department. In the period from 14/01/2021 to 16/03/2021, 422 measurements were made, which means an average of 9 measurements per employee. During this period, 94.8% of those who took the measurement achieved a result of 95-100%.

Campaign period:	14/01/2021 - 16/03/2021
Location:	green zone of COVID-department
Number of measurements:	422 -appr. 9 measurements/user
	94.8 % of the measurements among 95-100%
Method of evaluation:	WHO-6-steps + wrist examination
Most often missed areas:	thumbs, index and little finger tips
Best achievers:	30 pcs: collected a total of 148 points
	28 pcs: collected a total of 138 points
	23 pcs: collected a total of 110 points
	22 pcs: collected a total of 104 points
	10 pcs: collected a total of 100 points

Critical areas meant the thumbs, index and little finger tips, which were measured based on the WHO's six-step protocol and wrist investigation.

*Hospital Hygiene Service, Mohács Hospital*



# Hand·in·Scan™

Semmelweis Systems

