

At Bispebjerg Hospital we use electronic monitoring to improve hand hygiene compliance – experiences from a nurse perspective

IN THE ORTHOPEDIC DEPARTMENT (M4), THE SANI NUDGE SYSTEM IS INSTALLED AND USED AS A "REAL-TIME" SYSTEM TO MONITOR THE HAND HYGIENE OF STAFF.

DATA ARE COLLECTED VIA SENSORS AND IS SUBSEQUENTLY DISCUSSED AT STAFF MEETINGS IN ORDER TO CHANGE BEHAVIOUR AND IMPROVE HAND HYGIENE COMPLIANCE.

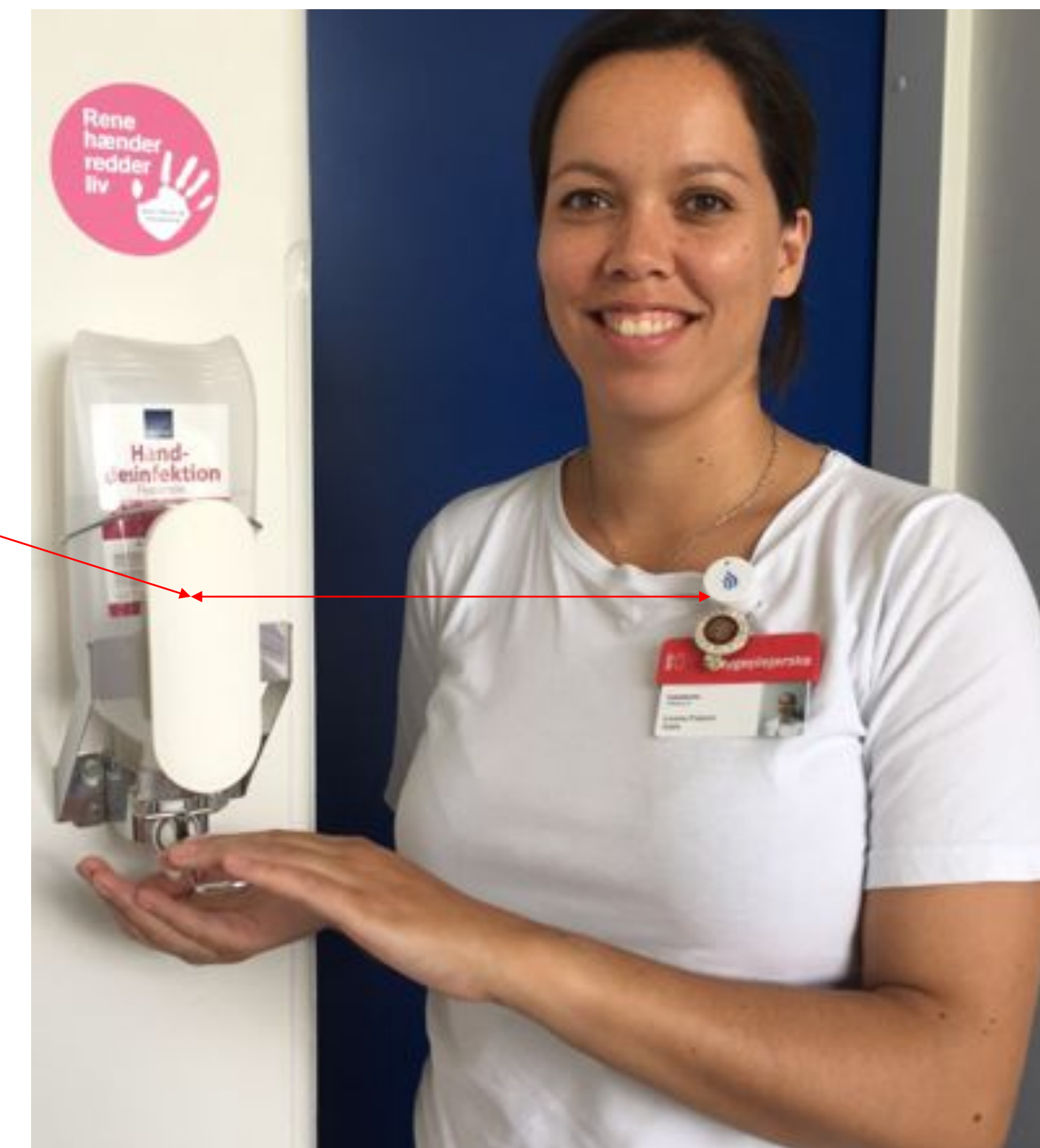
Data collection

The sensors are placed on the staff name badges, above the patient beds and on alcohol dispensers.

During the first period, data from the Sani nudge system was validated up against direct observations and video recordings.

After a test period, staff and the department head nurse defined some clear goals and expectations. Effort to reach these goals was achieved via increased focus on hand hygiene, education and an open dialogue.

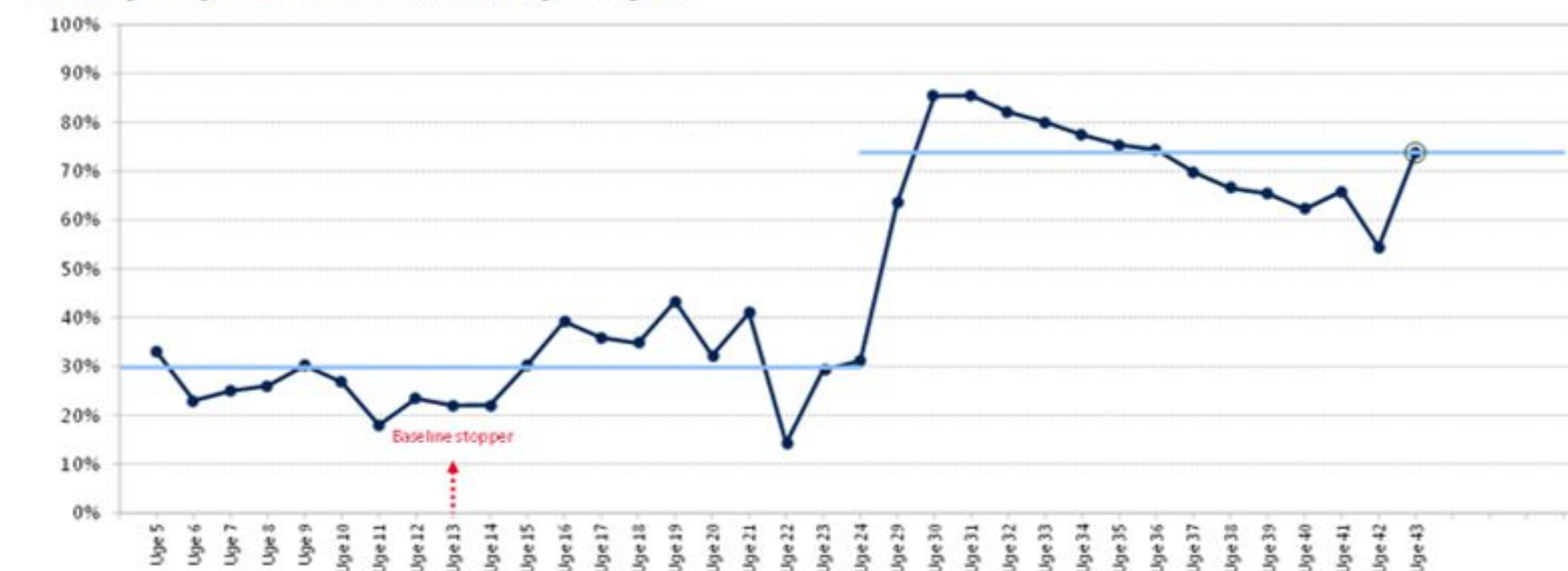
Staff data was anonymized. Data presented at meetings reflected the average compliance of the department.



Håndhygiejne - Medicinrum M4

Afsnit M4

Kompliance og håndhygiejne i medicinrummet på M4 • Gns. obs. 72/100; seneste obs. (Uge 43): 73.8/100.
 Periode: Uge 5 - Uge 43 • Seneste median: 73.8% (Uge 29 - Uge 43)



MÅL	MEDIAN	DATADEFINITION	KOMMENTARER	STATISTISK PROCESKONTROL		
		Kompliance og håndhygiejne i medicinrummet på M4 Datakilde: Saninudge	Variationen er ikke tilfældig: Der er kun 3 kryds af medianen, men der forventes mindst 4. Længste dataserie er 7 punkter; maksimalt 7 forventes.	SERIE- LÆNGDE (R/An)	FORVENTET	FAKTISK
---	74%			7	7	NEJ
				ANTAL KRYDS (R/An)	4	3

It is clear how focus and data have helped staff to improve compliance in the medication room (figure above: before vs. after staff meetings with data presentation) and in the rinsing/sluice rooms (figure below).

When the baseline stopped, we were educated in hand hygiene by the hygiene organization which was followed by weekly staff meetings with data presentation and team reflection.

The reason for the decline of compliance during some periods was also discussed and used to improve behavior.

Håndhygiejne - Skyllerum URENT M4

Afsnit M4

Kompliance og håndhygiejne på skyllerum urent M4 • Gns. obs. 84.4/100; seneste obs. (Uge 43): 88.2/100.
 Periode: Uge 5 - Uge 43 • Seneste median: 86.9% (Uge 29 - Uge 43)



MÅL	MEDIAN	DATADEFINITION	KOMMENTARER	STATISTISK PROCESKONTROL		
		Kompliance og håndhygiejne på skyllerum urent M4 Datakilde: Saninudge	Variationen er tilfældig: Der er 5 kryds af medianen; der forventes mindst 3. Længste dataserie er 3 punkter; der forventes maksimalt 7.	SERIE- LÆNGDE (R/An)	FORVENTET	FAKTISK
---	87%			7	3	JA
				ANTAL KRYDS (R/An)	3	5

The staff says:

- "It does not feel like surveillance"
- "It was motivating to see the results and was a true eye opener"
- "It was nice to be able to discuss concrete situations, and in that way learn new things"

Results

- Open dialogue about behavior and habits.
- Clear improvement in compliance
- The results helped to identify that were not placed optimally. Those we move to other places
 ➔ improved compliance.

Perspectives

- The department is continuing using the system to improve hand hygiene.
- Next step is to provide all staff with their own compliance data to increase transparency which has been a wish from the staff.