

# Bringing hand hygiene to the national level – the Hungarian case

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Associate professor,

HandInScan Co-founder

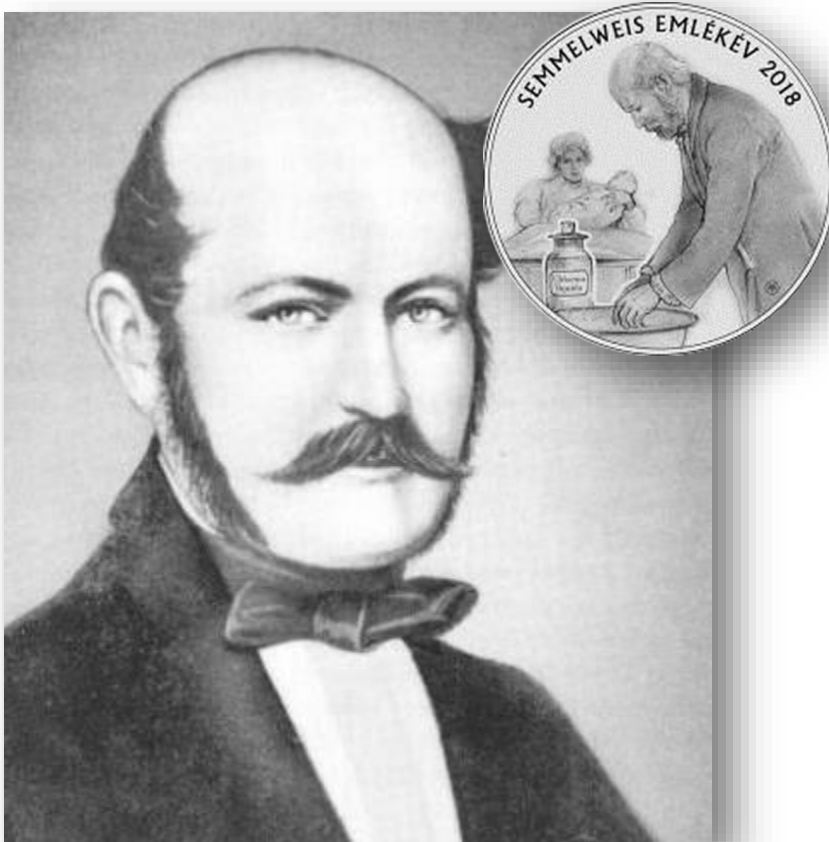
# LATE BREAKING NEWS

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Sára Haidegger, 4290g, 56 cm

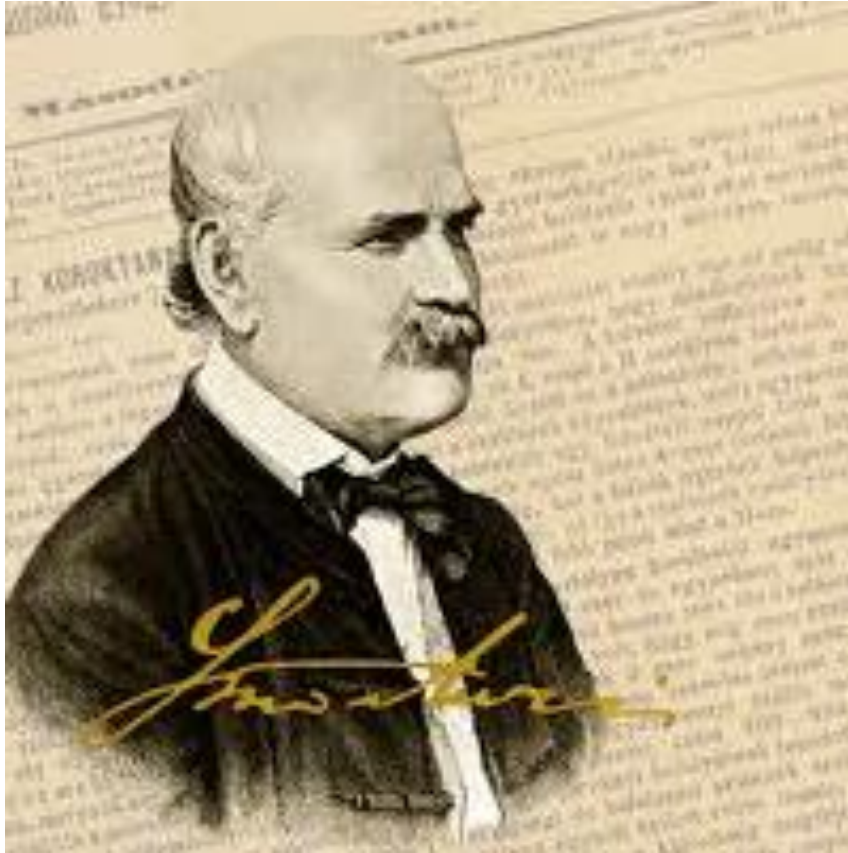
# WORLD SEMMELWEIS YEAR 2018



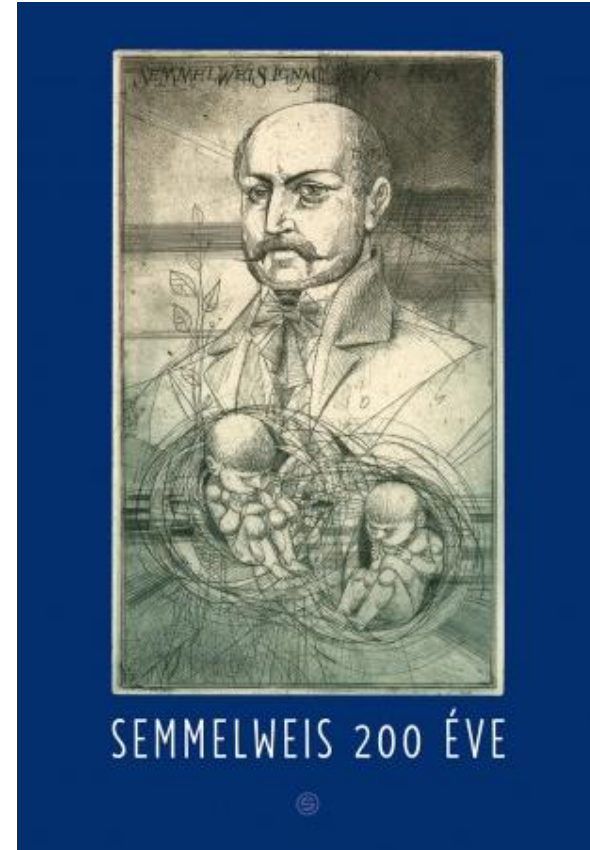
**Ignaz Semmelweis**  
(1818–1865)



# SEMMELWEISIZATION



**Semmelweis memorial  
committee**



[http://semmelweis.hu/english/  
the-university/ignac-semmelweis/  
semmelweis200](http://semmelweis.hu/english/the-university/ignac-semmelweis/semmelweis200)

# HUNGARY IS CATCHING UP

Intensive Care Units: 9.7-31.8 % infection (ECDC)

ECDC Point prevalence survey of HAI

- 2.0% (2012)
- 4.4% (2017)

WHO Hand Hygiene Self-Assessment Framework

- 3 hospitals reported in 2016, many more on national level

National Nosocomial Surveillance System (NNSR)

- Operated by the National Center for Epidemiology

*Source:* [[www.ecdc.europa.eu/en/publications/surveillance\\_reports/annual\\_epidemiological\\_report/Pages/epi\\_index.aspx](http://www.ecdc.europa.eu/en/publications/surveillance_reports/annual_epidemiological_report/Pages/epi_index.aspx)]



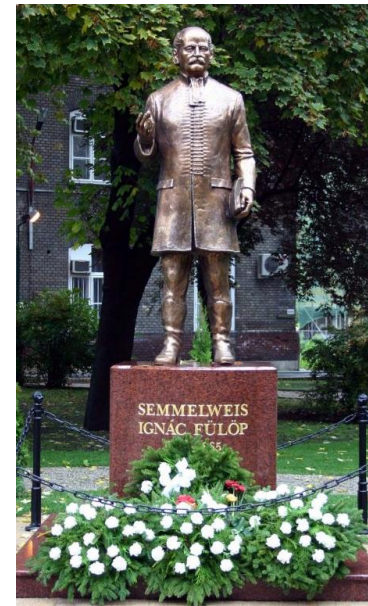
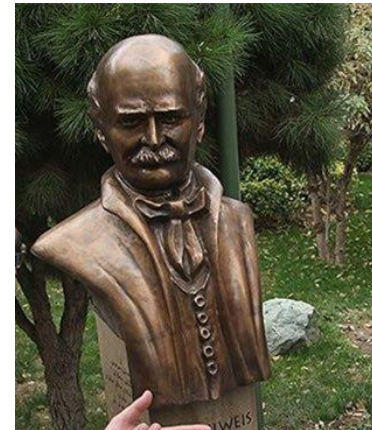
# IN THE FOOTPRINTS OF SEMMELWEIS

Fight against nosocomial infections is a **top national priority**

- EMMI minister Kásler, MD announced in June 2018

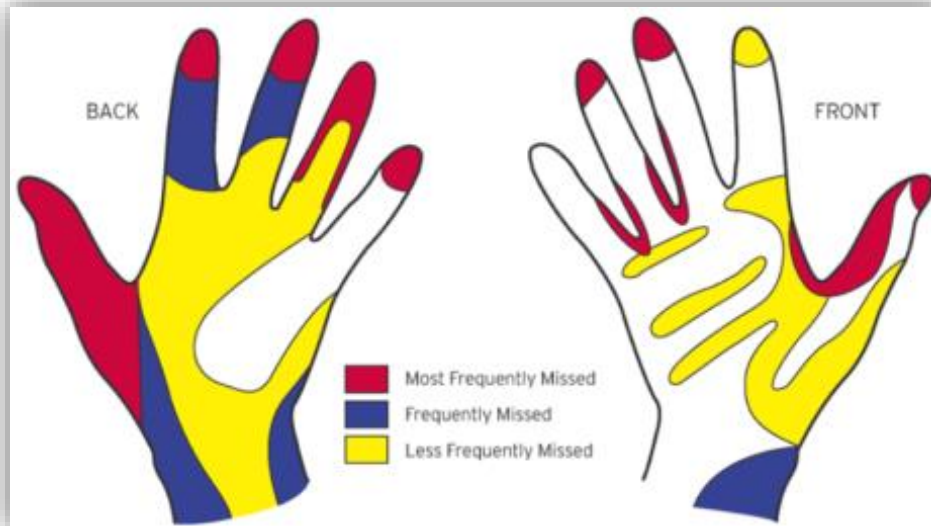
Implementation guides by the Surgeon General (Dec 2018)

- Prevention and monitoring on nosocomial infections
- Prevention of urinary tract infections
- Prevention of CLABSI infections



# IMPROPER HAND HYGIENE

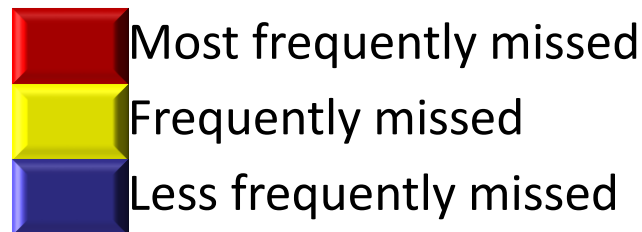
No change in almost **40 years**



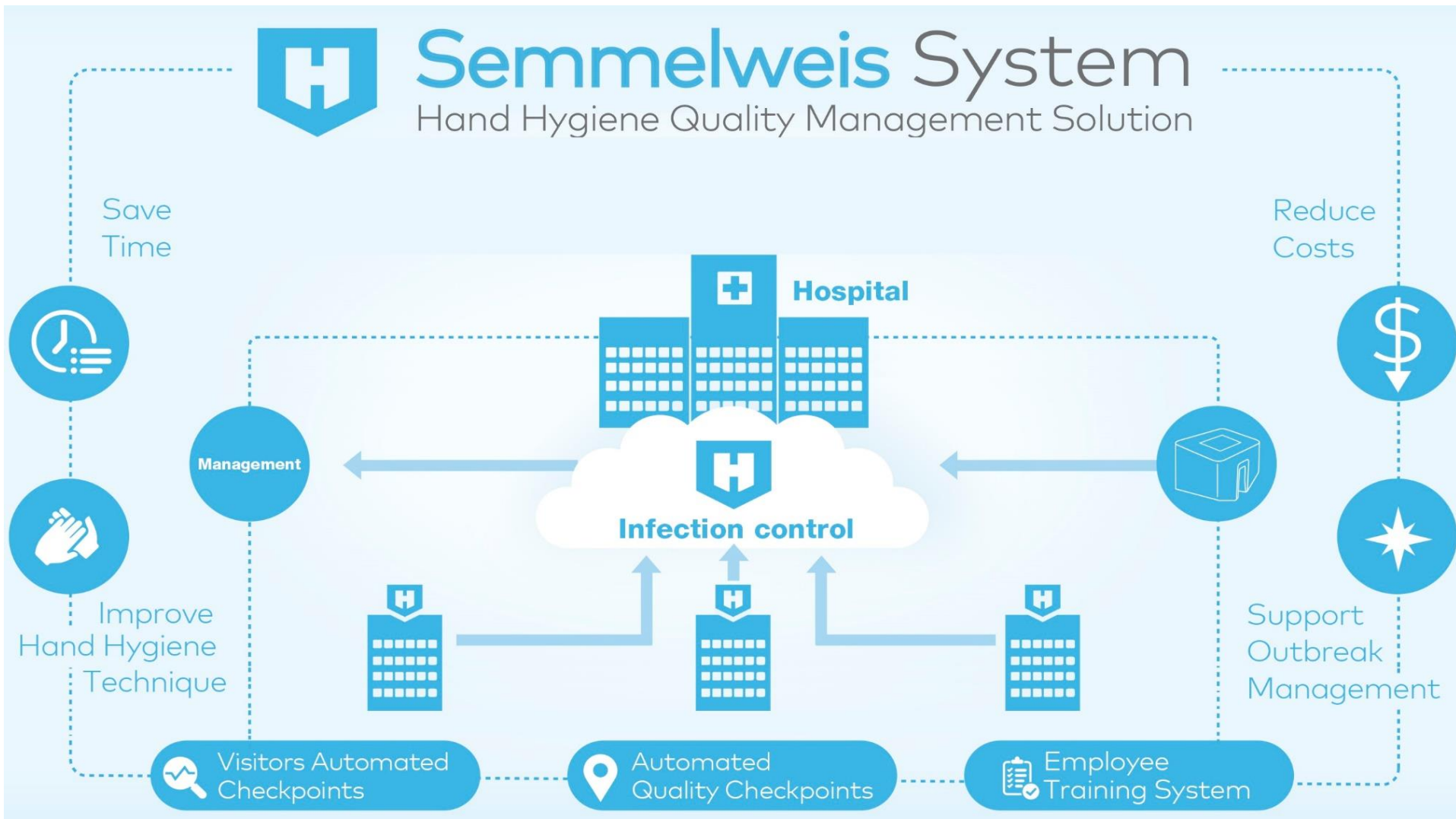
Taylor et al.  
1978



Hand-in-Scan team's study 2014



# A QUALITY MANAGEMENT SOLUTION





# SEMMELWEIS HAND HYGIENE SYSTEM



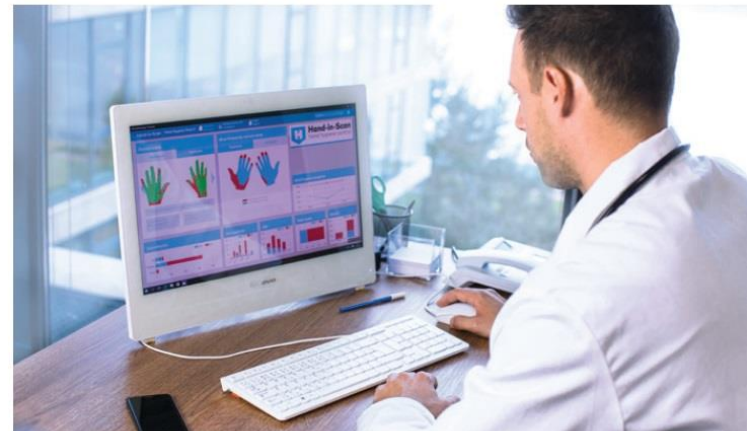
Unique tool for  
continuous monitoring



Train your staff  
effectively



Empower your patients and visitors  
with hand hygiene knowledge



Check on your staff's hand  
hygiene status effortlessly

# IMPROPER HAND HYGIENE

Joint campaign with Singapore



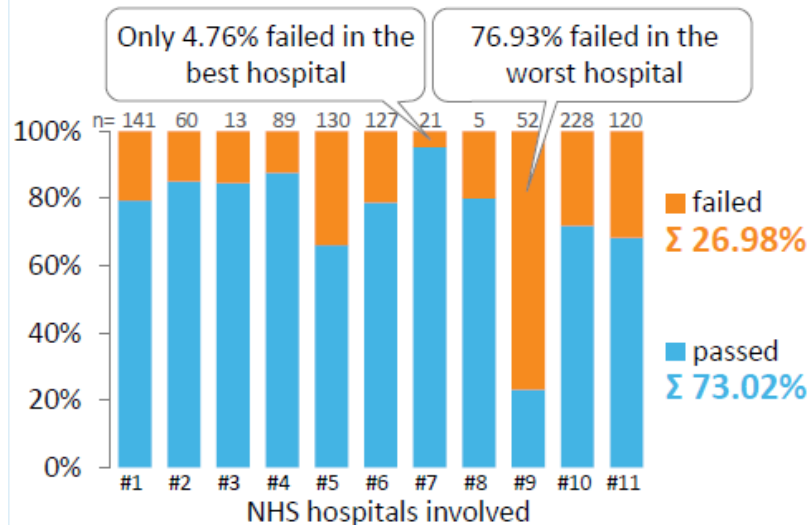
- Nearly 10,000 health-care workers measured:

**28% failed**

- Publication: BMC Infectious Diseases

<http://www.biomedcentral.com/1471-2334/13/249/abstract>

**NHS hospitals:** 986 health-care workers → **27% failed**

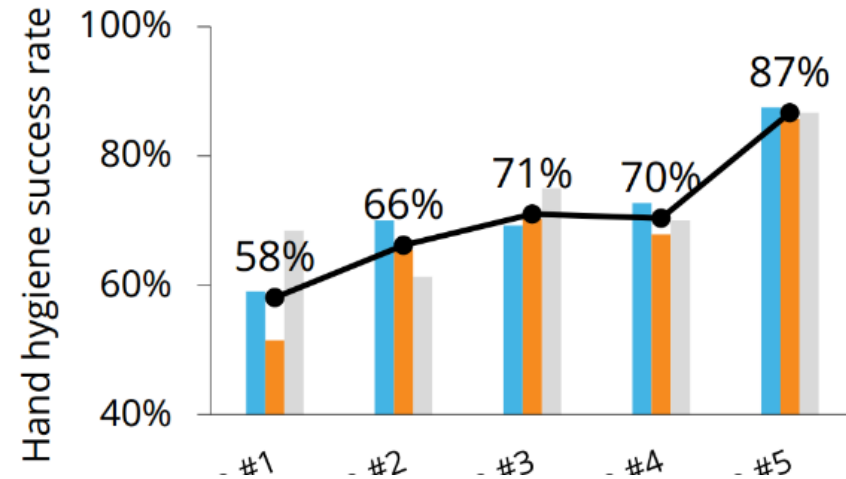
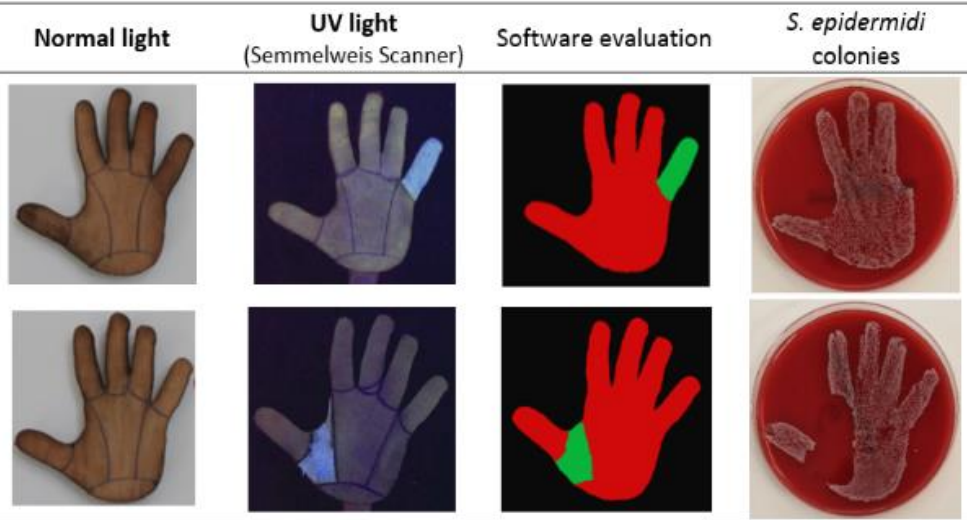


**Hungary**

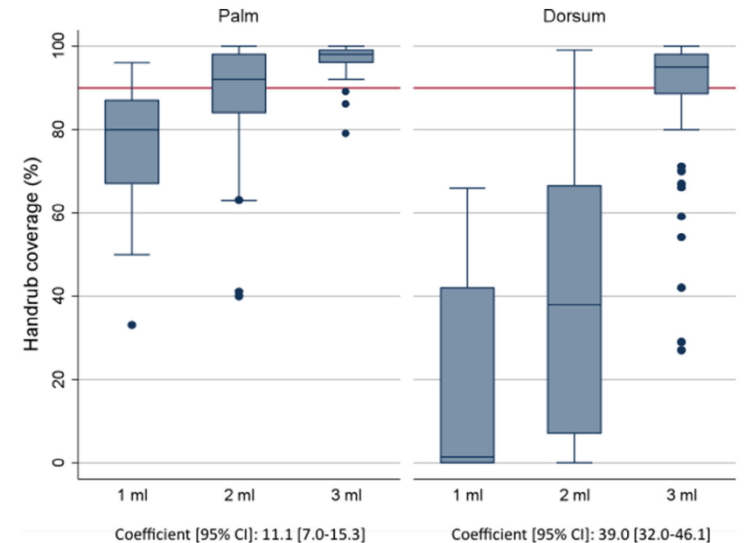
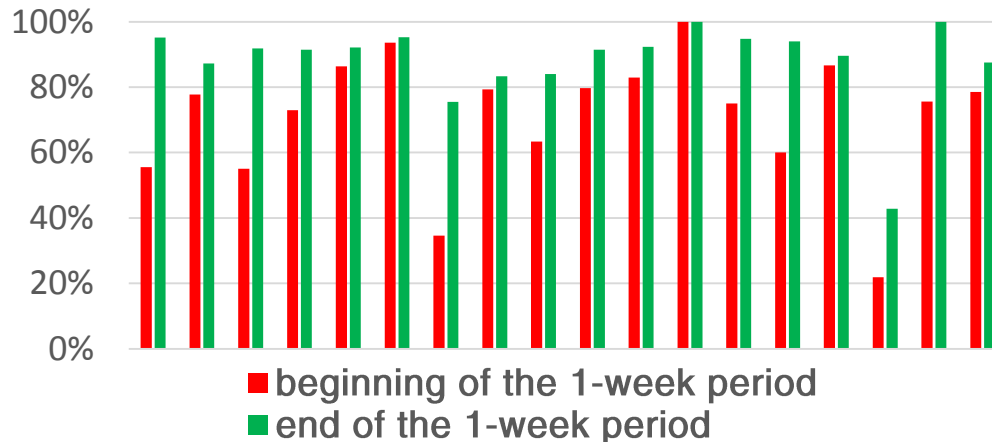
1269 HCW

**33% failed**

# A SOLUTION THAT WORKS



Ration of successful handrub events



--- 90%; 95% CI: 95% confidence interval

# MAKING A NATIONAL PROGRAM

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## National Healthcare Services Center

- First Ministry level accredited training on hand hygiene for HCW

## National GINOP'17 and VEKOP'18 infrastructure development

- 35 hospitals equipped in the countryside
- 5+ in the Budapest region

**National EFOP'19 program  
for the improvement of patient safety  
through complex infrastructure development**



# STRATEGY FOR THE FUTURE

## Integration into the education

- Semmelweis University – integration to MD education
  - Mandatory at Surgical practice course at 3<sup>rd</sup> grade (900+ students)
  - Mandatory to all residents in surgery (2018-)
- National training program in 23 hospitals (SZTK-A-067 619/2016)
- Hungarian Academy of Sciences primary education program
- Major public outreach events
- Graduated over 20 students



# DATA FOR DECISION MAKERS

Hand-in-Scan

Hand Hygiene Report

05/02/2016 - 08/03/2016

All departments / All occupations

Export Report

Search... X



## Recent scans

Backhand

Forehand



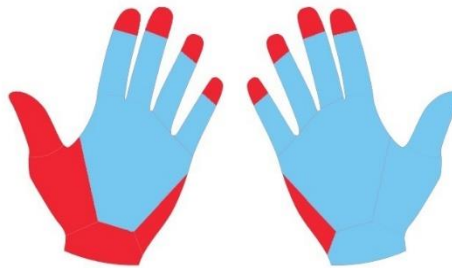
Current measurement / Total number of measurements: 8 / 398

Left coverage: 73%  
Right coverage: 68%CH RFID: #22031  
22/07/2016

## Most frequently missed areas

Backhand

Forehand



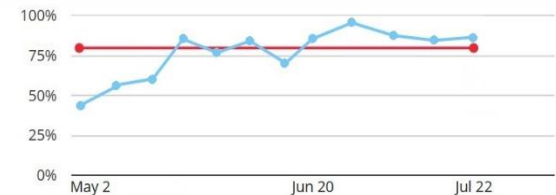
Most frequently missed  
Less frequently missed



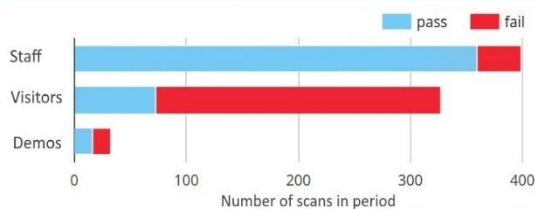
**Hand·in·Scan**  
Hand Hygiene Matters

*Your Institution's logo here*

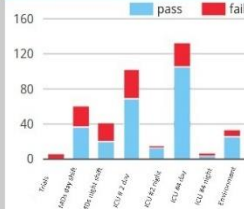
## Hand hygiene progress



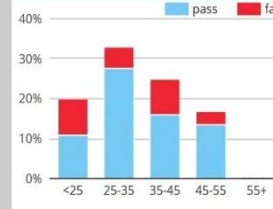
## Departments



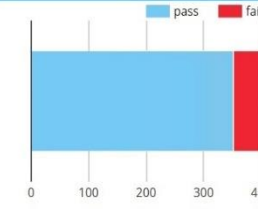
## Occupations



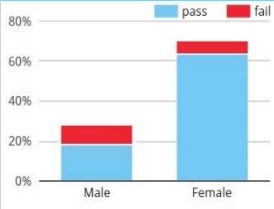
## Age



## Total scans



## Gender



# IN-DEPARTMENT TRAINING / CQI

15



AKH Vienna General Hospital, NICU

# A UNIFYING VISION

## Mission

*... to provide objective, quality assured hand hygiene education and control...*



## Vision

*...Fostering technology-induced behavioral change in hand hygiene on a global scale.*

Passed



# A TEAM WITH PASSION



[www.handinscan.com](http://www.handinscan.com)



[info@handinscan.com](mailto:info@handinscan.com)



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**Hand·in·Scan**

Hand Hygiene Matters

