

9th EORNA Congress

16-19 May 2019 The Hague, The Netherlands

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Geert Driessen
The Netherlands

Geert Driessen

- Graduated as a nurse (Maasziekenhuis Boxmeer The Netherlands, 1981)
- Graduated as an OR nurse (Maasziekenhuis Boxmeer, 1983)
- Teaching degree (VU-Amsterdam The Netherlands, 1990)
- OR nurse in Boxmeer, Maastricht, Arnhem, Nijmegen (The Netherlands)
- OR Nurse educator in Heerlen and Nijmegen (The Netherlands)
- Currently (since 1997) Scientific Affairs & Education in Medical Industry
- Co-founder of the "Passion for People" foundation
- Member of several (local-CEN-ISO) standardization groups

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Disclaimer

The opinions expressed in this presentation are solely those of the presenter and not necessarily those of any company or organization.

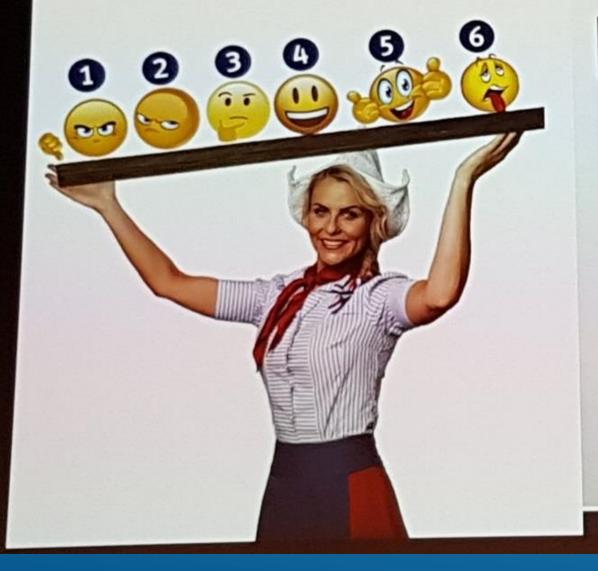
Presenter is occupied at 3M since 1997.

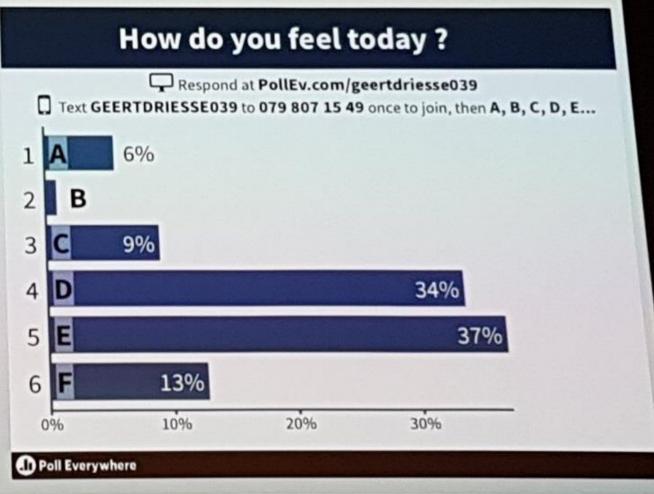


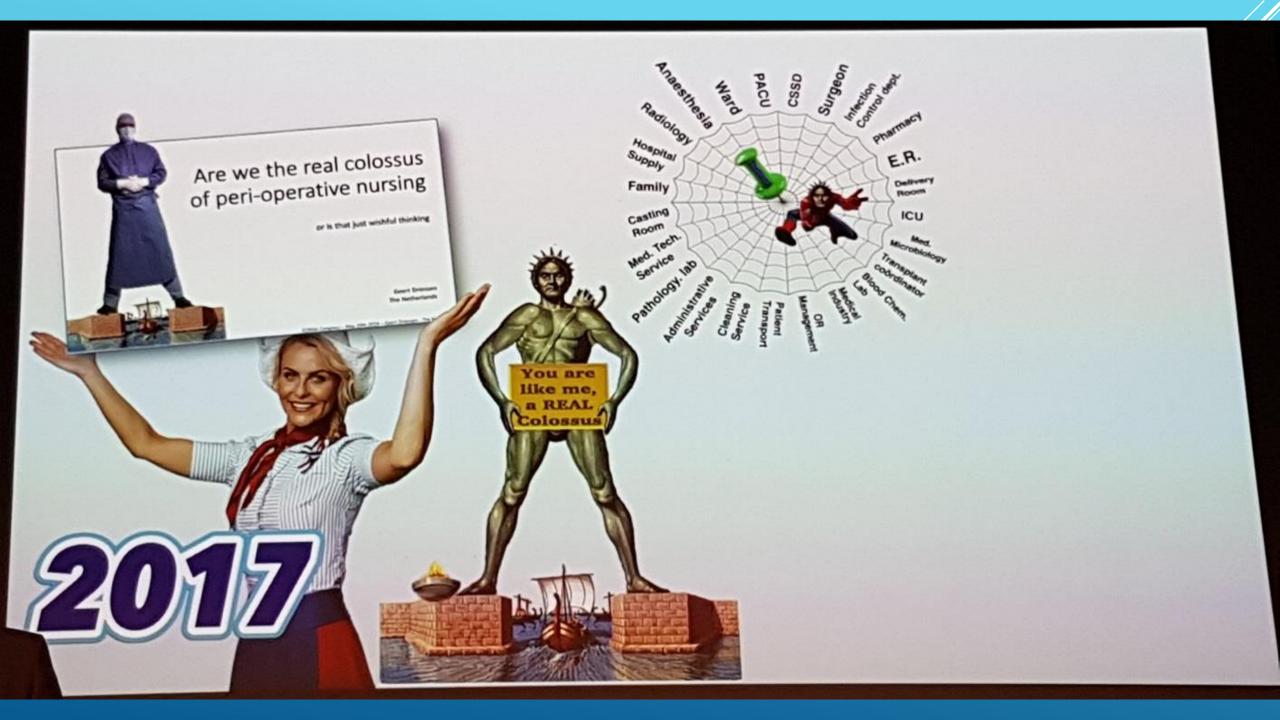
Go in your webbrowser to the following URL

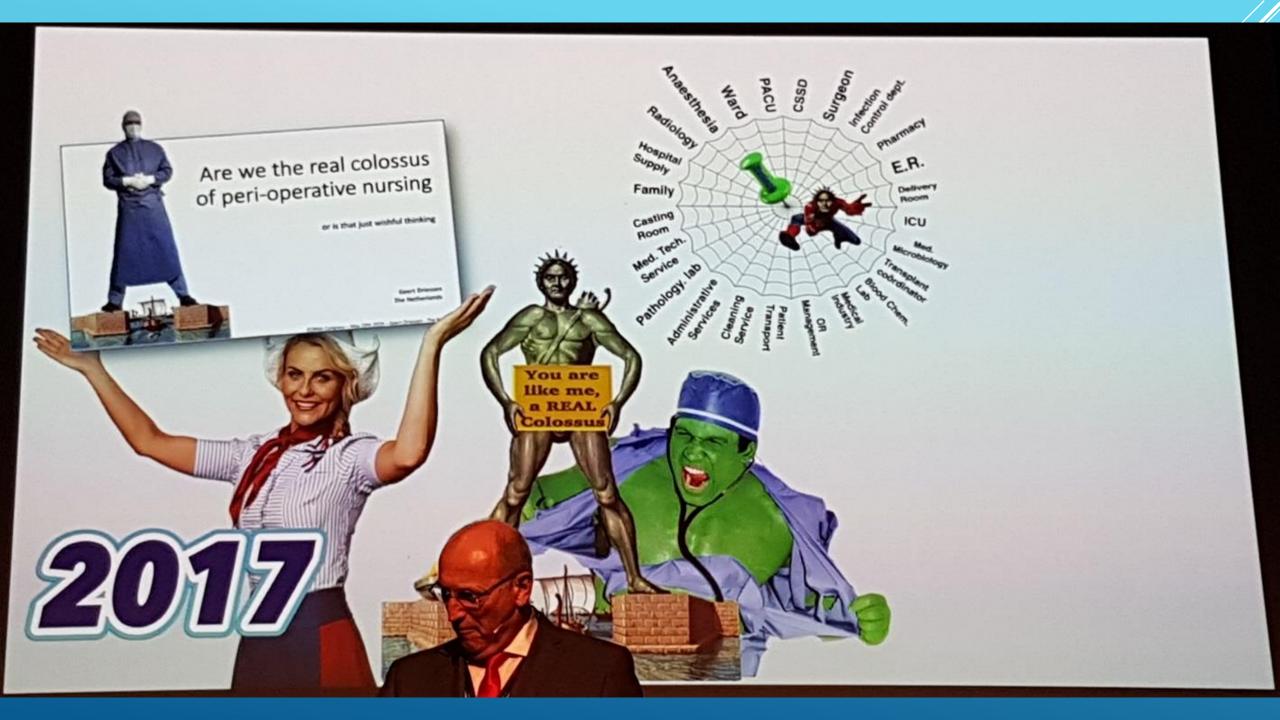
PollEv.com/geertdriesseo39

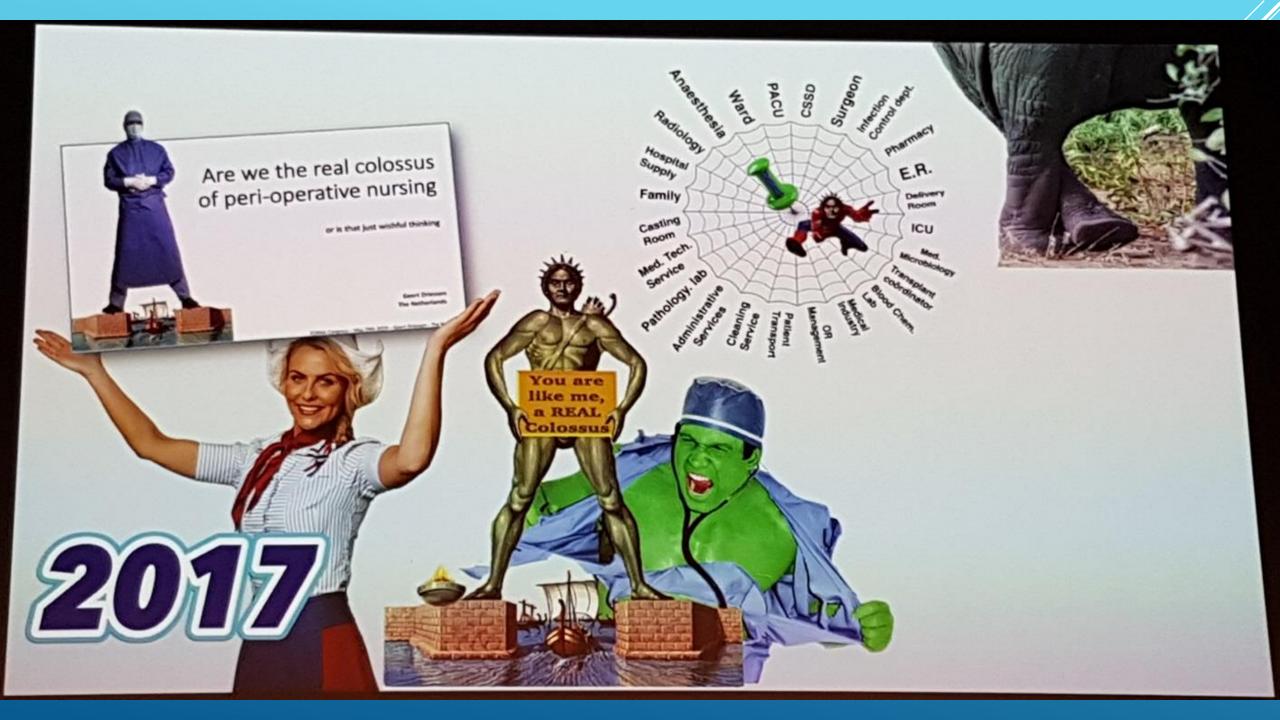
How do you feel today?

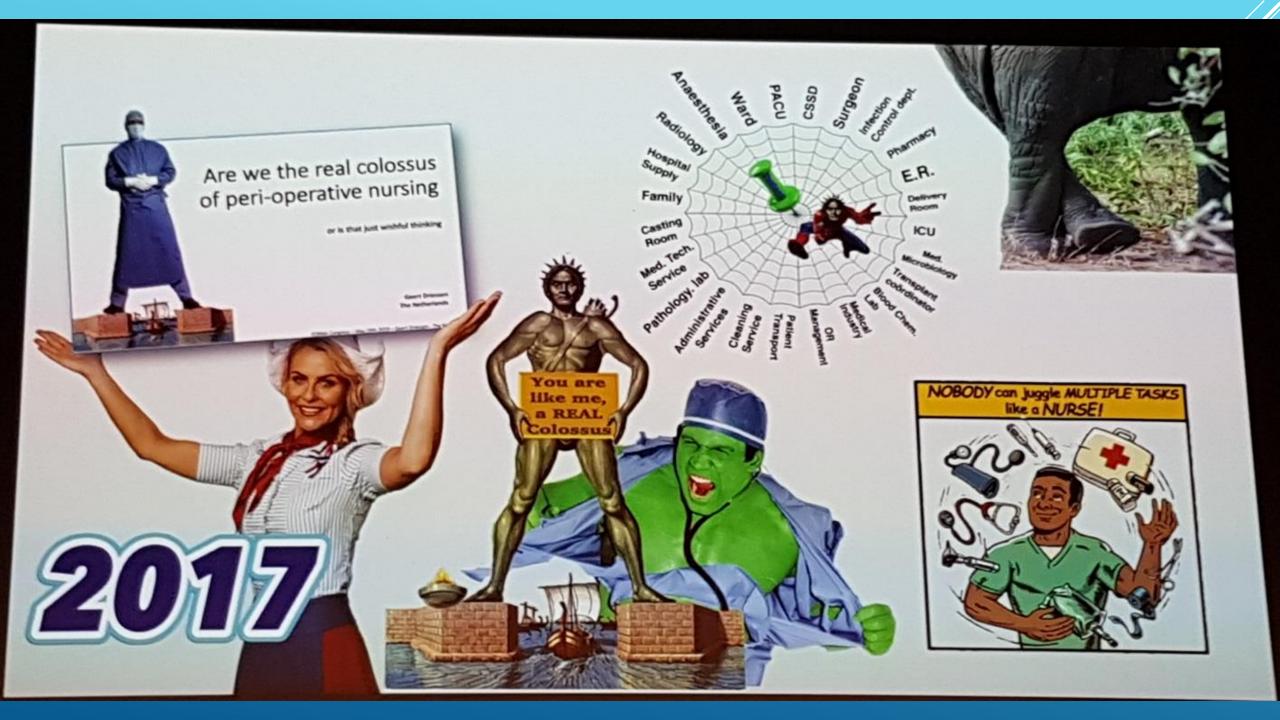












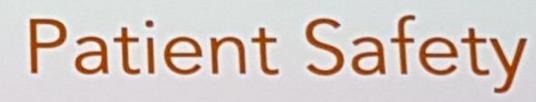
In our job, we are

second to none!!!

We are always on the move







Let's go back to Basics in fighting infections from every angle



Patient Safety, a definition



patient safety is the prevention of errors and adverse effects to patients

INSTITUTE OF MEDICINE

OF THE NATIONAL ACADEMIES

Advising the nation • Improving health

"freedom from accidental or preventable injuries produced by medical care" or **prevent harm**

Patient Safety and Quality of Care

INSTITUTE OF MEDICINE

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Advising the nation • Improving health

patient safety is "indistinguishable from the delivery of quality health care.

but what is OUALITY

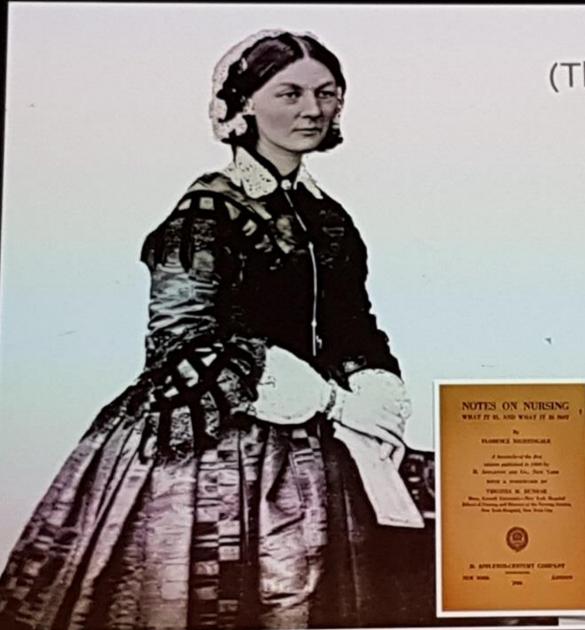
What are "key-words" in YOUR definitions of "Quality"?

What are "KEY-WORDS" in YOUR definition of Quality?

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Respond at PollEv.com/geertdriesse039 Text GEERTDRIESSE039 to 079 807 15 49 once to join, then text your message
measurement free improvements
efficiency excellence delivered dafety goodresulto
uitcome assharm competence quality consistency to safe safery care quality stability elings without the salth.
                                   bestpatient health deliver meant of stability elinists bestpatient health deliver meant of sustainability training happiness fulfil presence requirements outcome guidelines
```

but what is OUALITY

Quality is the degree to which a product or a service meets the requirements, needs and expectations of the patient



Three stages of Patient Safety (The first Quality System in Healthcare)

- The patient is safe
- 2. The patient is relieved
- 3. The patient is dead

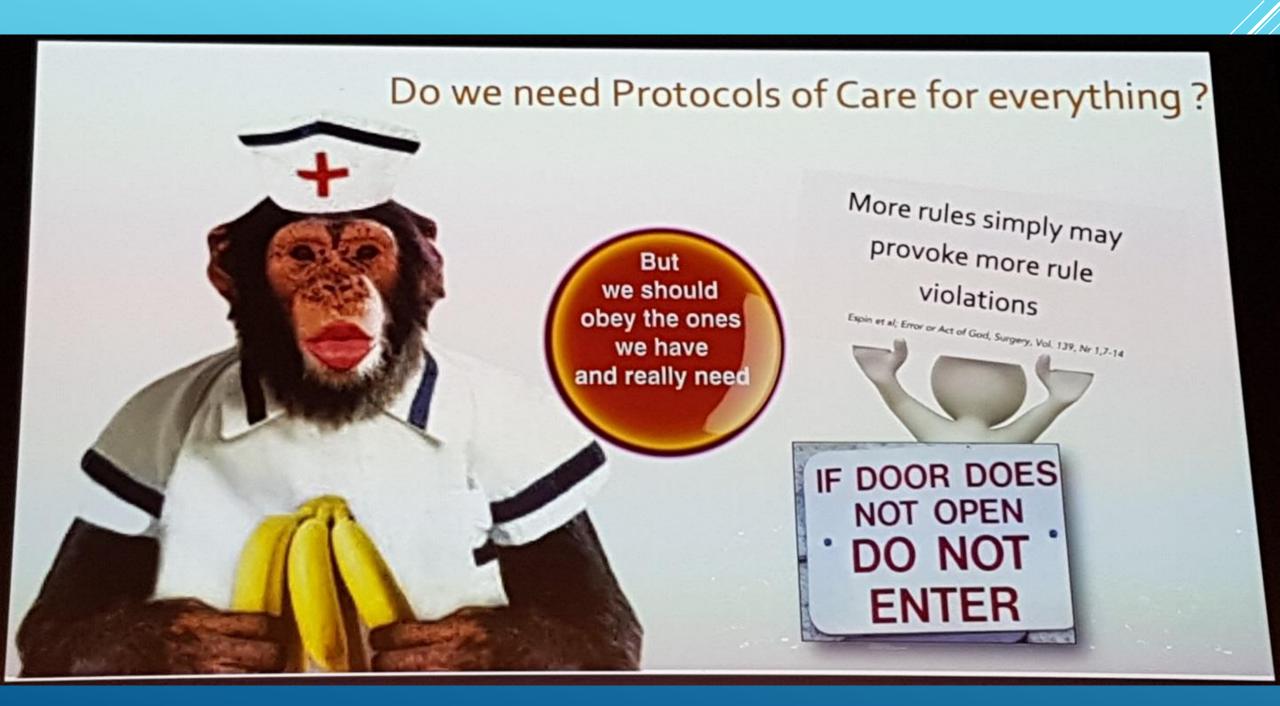
Florence Nightingale; Notes on Nursing, Notes on Hospitals

Protocols of Care

Who is doing What When Why With What



Deviation from a Protocol of Care (non-compliance) creates a **potentially unsafe situation**



Obedience (Compliance)

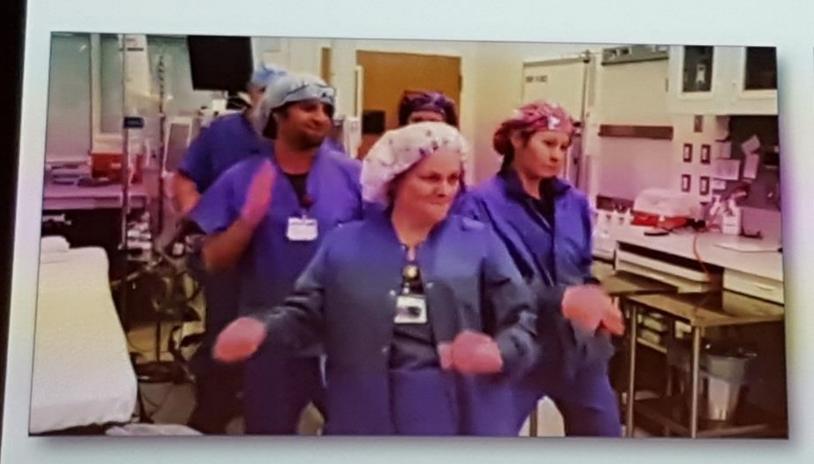
What When What Deviation from a Protocol of Care (non-compliance) creams a potentially unsafe situation

Who is responsible

Obedience is the mother of success and is wedded to safety Obedience
Doing the right thing

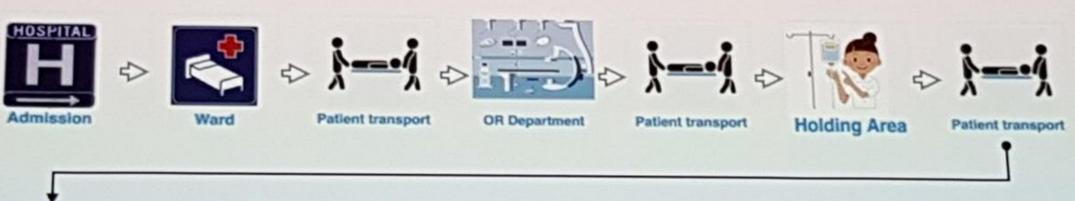
Aeschylus

What if we have 98% Compliance

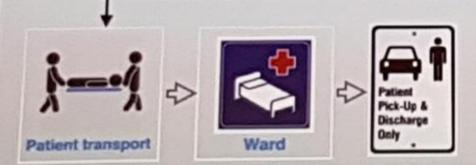




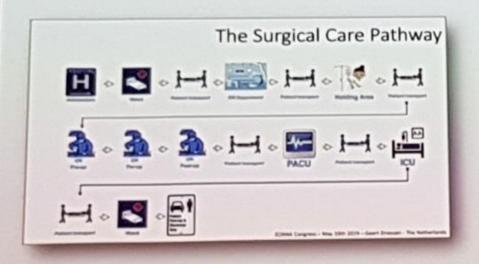
The Surgical Care Pathway





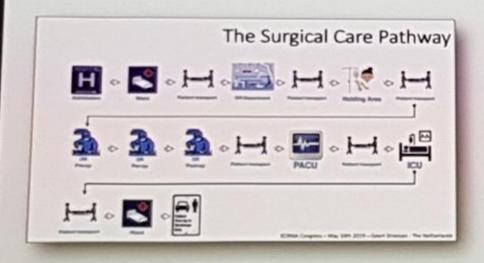


Objectives of a Care Pathway



- Enhance the quality of care across the continuum by improving risk-adjusted patient outcomes,
- Promoting patient safety,
- Increasing patient satisfaction,
- Optimizing the use of resources.

Problem definition (1)



Care Pathway **elements**, their **content** (protocols of

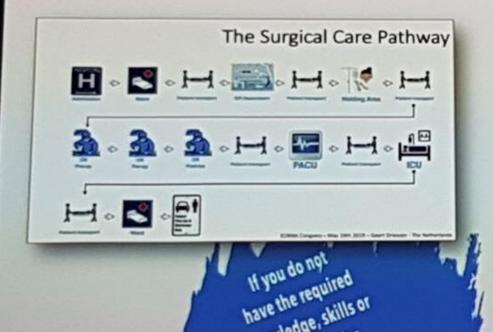
care) and the **sequence** of the elements are more or less

100% similar from hospital to hospital and are

often based on (inter)national, evidence based

guidelines

Problem definition (2)



knowledge, skills or

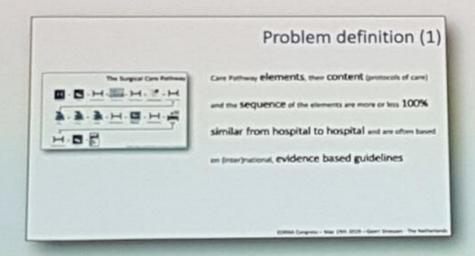
Required competencies, skills and knowledge,

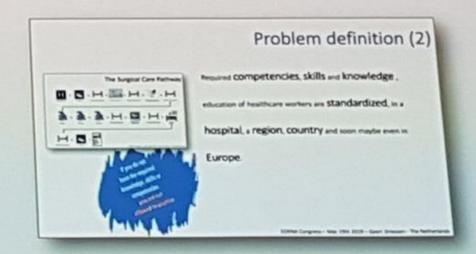
education of healthcare workers are standardized, in a

hospital, a region, country and soon maybe even in

Europe.

Problem definition (3)

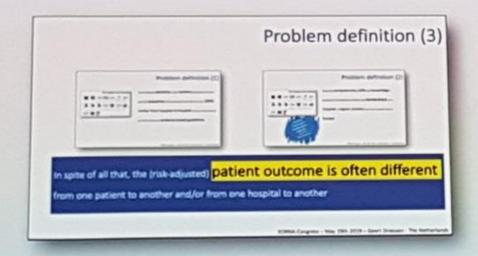


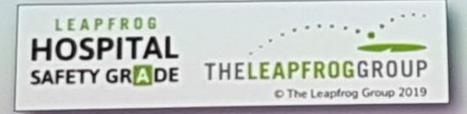


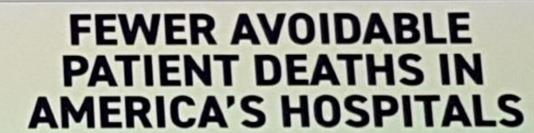
In spite of all that, the (risk-adjusted) patient outcome is often

different from one patient to another and/or from one hospital to another

Avoidable death











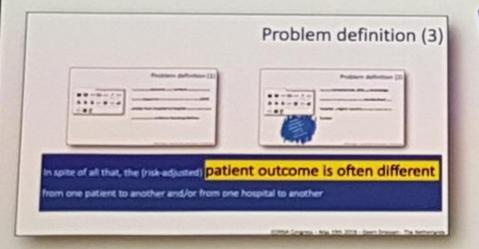


205,000* Deaths

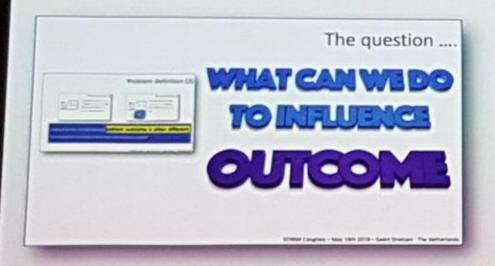
160,000* Deaths

BUT YOUR RISK OF DYING DEPENDS ON THE HOSPITAL YOU CHOOSE

The question



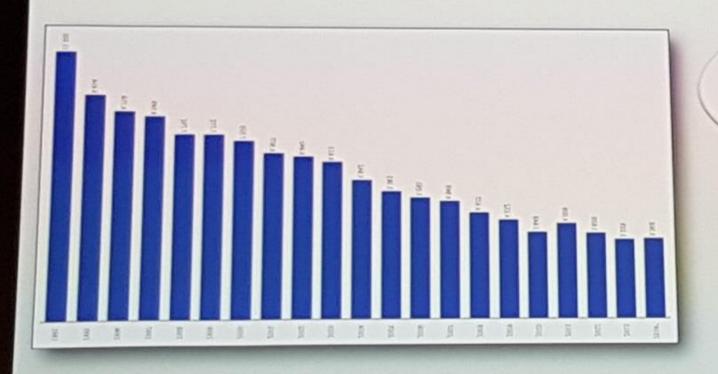




If you can influence the outcome, do the work. If you can't influence the outcome, ignore the possibility. It's merely a distraction.

~ Seth Godin

Deaths in the German traffic



In 2014, 3368 people died in German traffic

Avoidable Deaths in German Hospitals

AOK-Kranken usreport: Mehr Tote durch Behandlungsfehler als im Straßenver hr

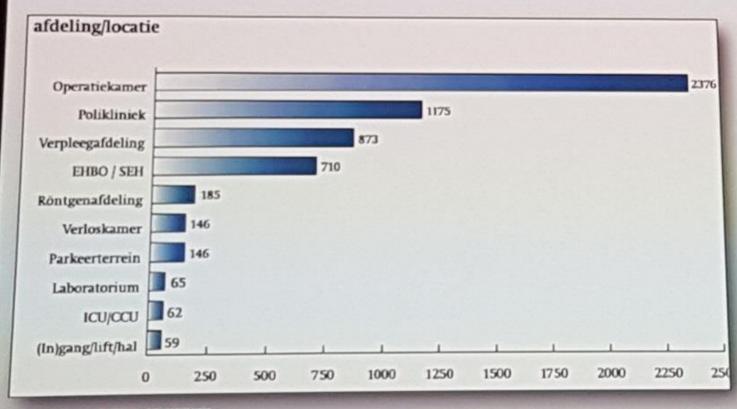
Von Heike L

19.000 Klampatienten sterben laut Schätzungen jährlich durch vermeidbare Behandlungsfehler. Dies geht aus dem Krankenhausreport 2014 der AOK hervor. Bessere Hygiene und größere Spezialisierung von Kliniken könnten Abhilfe schaffen.

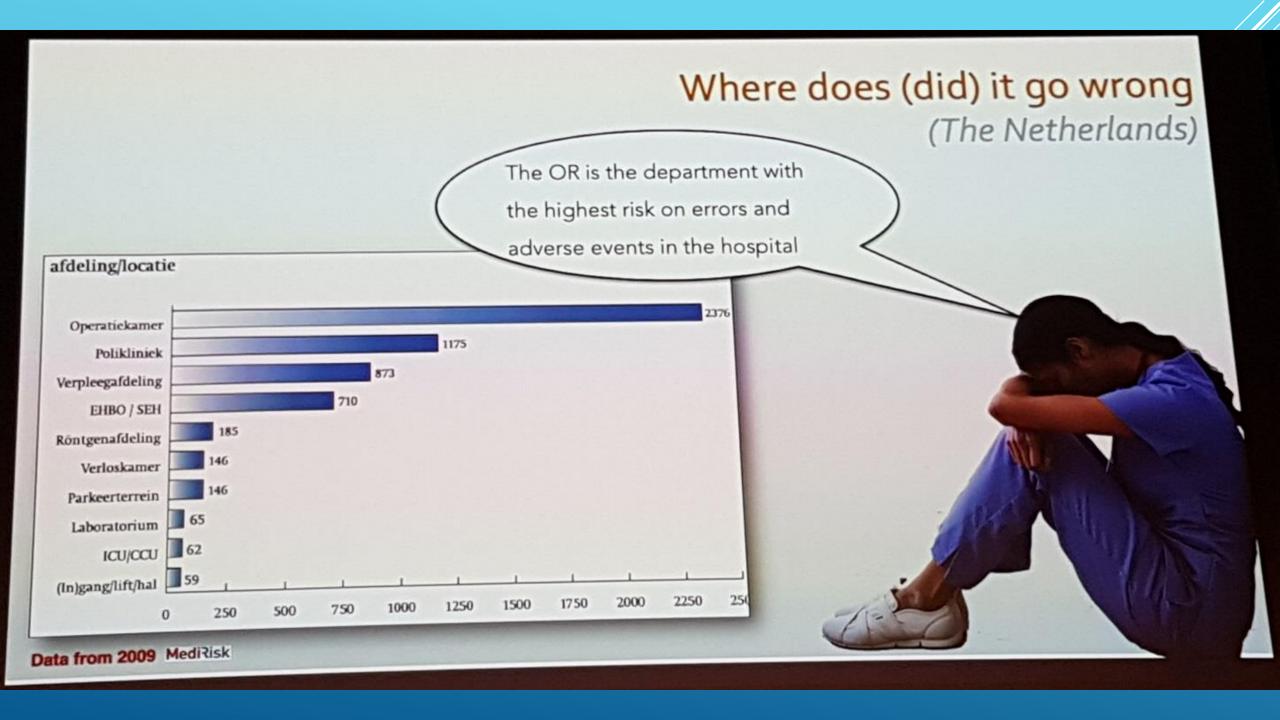




Where does (did) it go wrong (The Netherlands)



Data from 2009 MediRisk







The Operating Room In spite of Quality Systems

Things go Wrong

- Accidents
- Near Accidents
- Complications

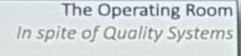
The Operating Room In spite of Quality Systems

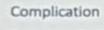


Complication

A process deviation with temporary or permanent negative physical consequences for the patient of which the cause is unknown.

The Operating Room In spite of Quality Systems





A process deviation with temporary or permanent negative physical consequences for the patient of which the cause is unknown.

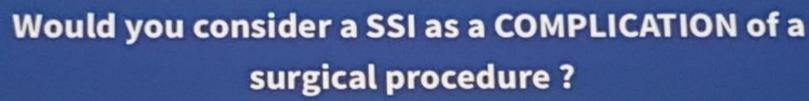


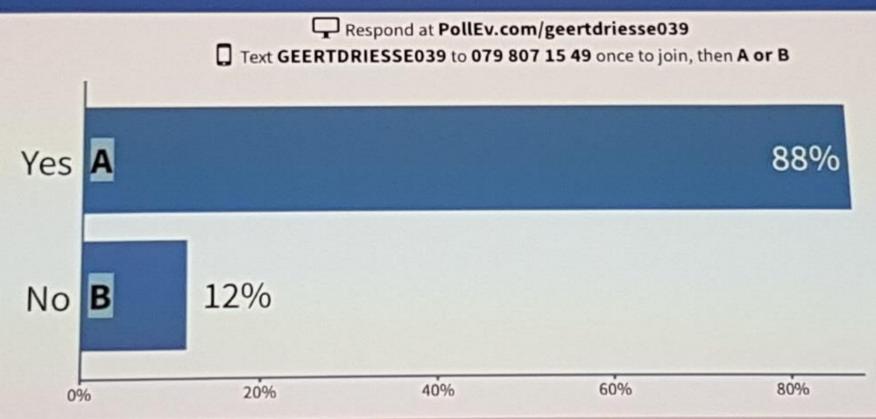




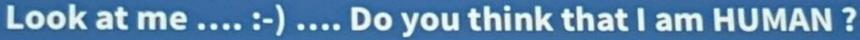
Would you consider a Surgical Site Infection a possible complication of surgery?

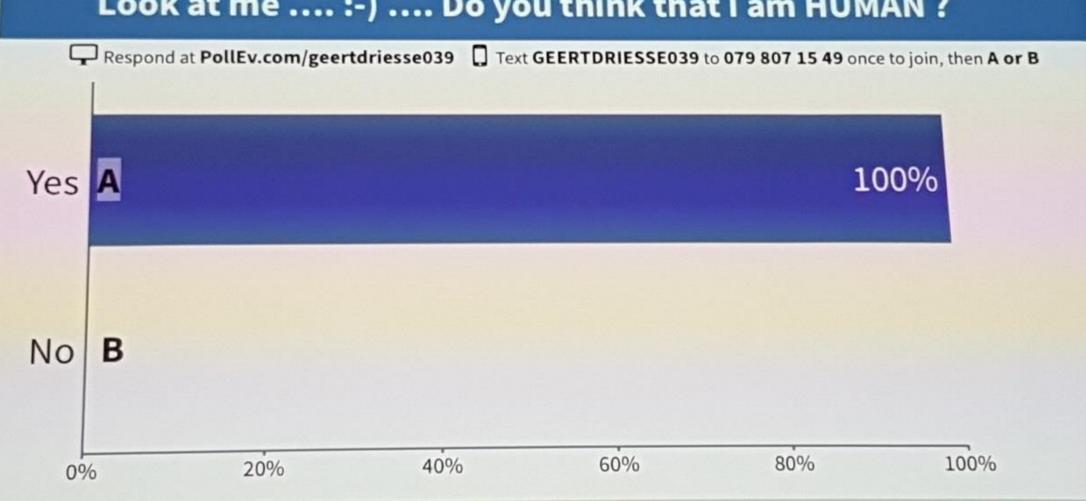
Is a SSI a complication of a surgical procedure?

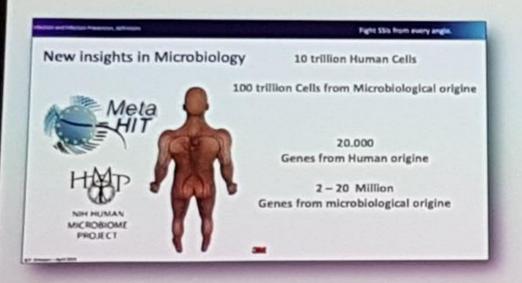




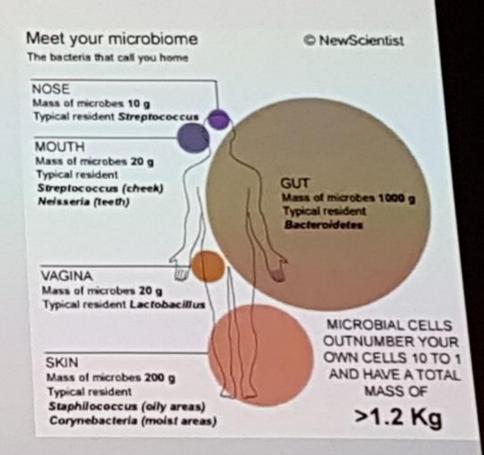
Look at me Do you think that I am human?





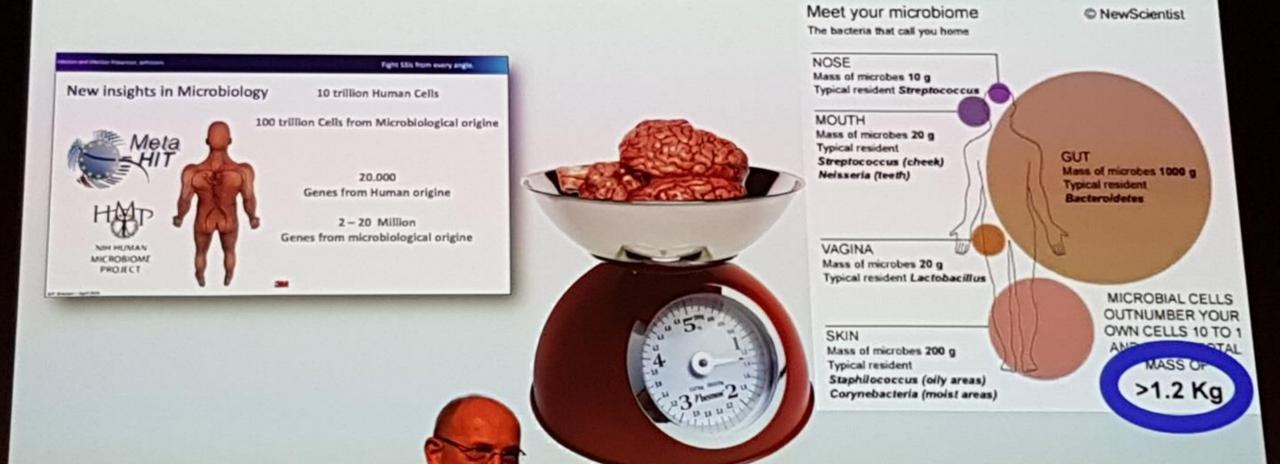


1,2 Kg. Microbial Cells



- 4

1,2 Kg. Microbial Cells

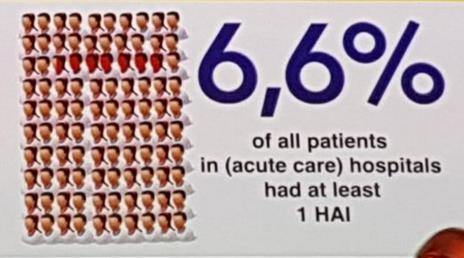


Point Prevalence Surveys



In two EU-wide Point Prevalence Surveys, ECDC found that 1 in 15 patients in (acute care) hospitals

had at least 1 Healthcare Associated Infection



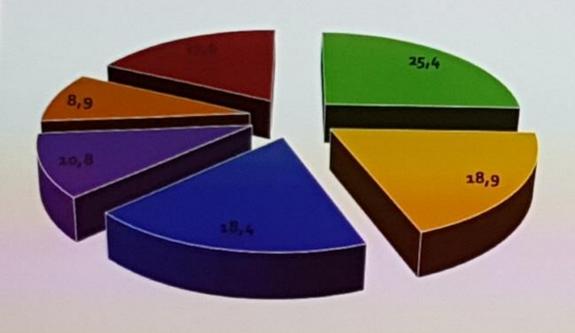
References:

1. Suetens Carl et al. Euro Surveill. 2018;23(46):pii=1800516. https://doi.org/10.2807/1560

46.1800516

Healthcare Associated Infections in Europe

PPS ECDC 2018
Healthcare Associated Infections In Europe



The same Point Prevalence Study found, that Surgical Site Infections were the third most common Healthcare

Associated Infection in European countries.

■ RTI ■ UTI ■ SSI ■ BSI ■ GI ■ Other

References:

1. Suetens Carl et al. Euro Surveill. 2018;23(46):pii=1800516. https://doi.org/10.2807/1560-7917.ES.2018.23.46.1800516

Surgical Site Infections





Mortality

- SSI is associated with a mortality rate of 3%
- 75% of SSI- associated deaths are directly attributable to the SSI



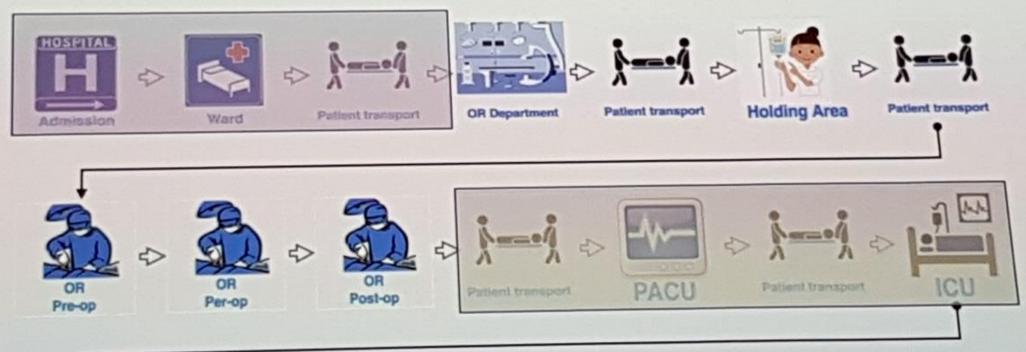
Avoidable Infections

NICE states that the majority of SSI's are preventable, we can read in a German publication (Gastmeier et al. 2010) that 20 - 30% of all HAI can be prevented

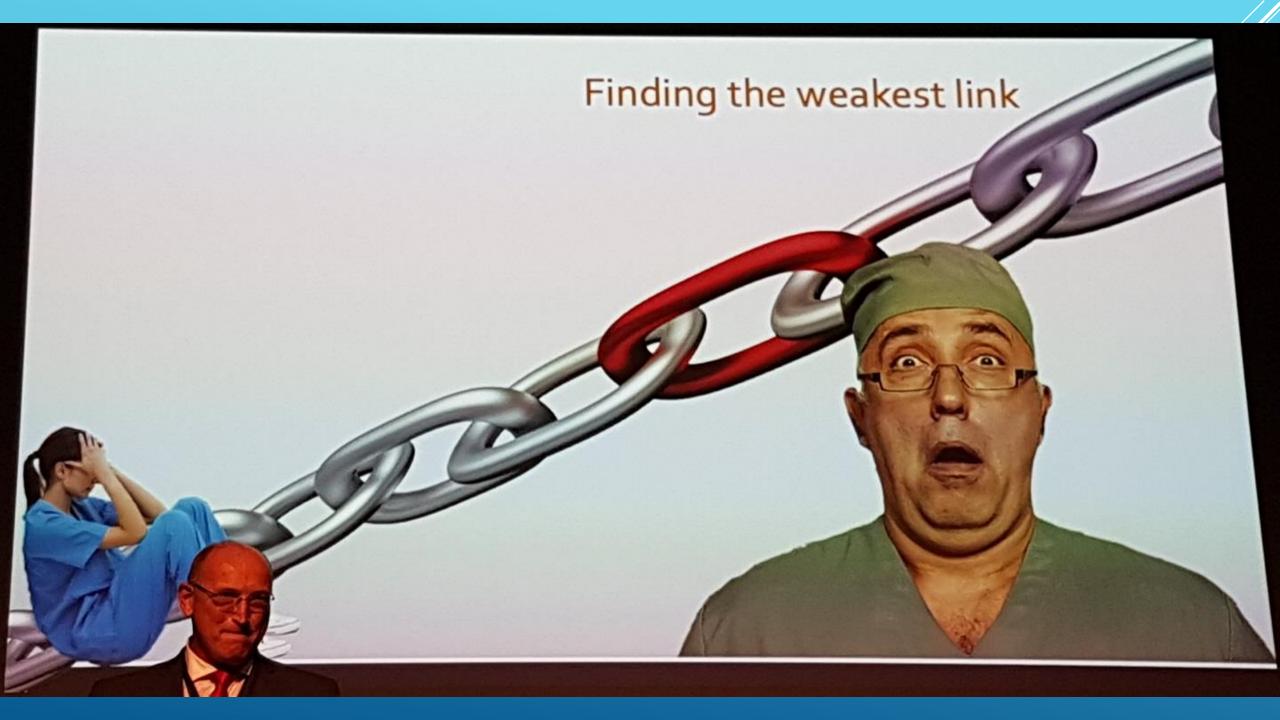
Source: https://www.nice.org.uk/guidance/cg74/chapter/introduction

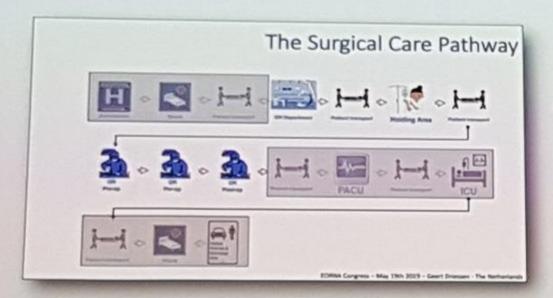
Dtsch Med Wochenschr 2010; 135: 91-93 · P. Gastmeier et al., Wie viele nosokomiale

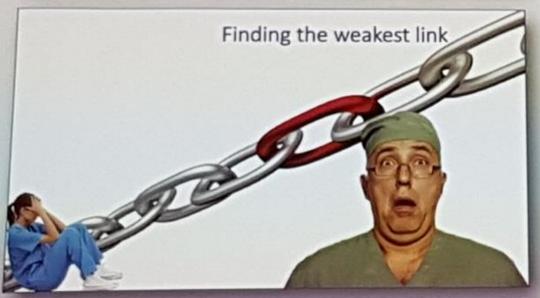
The Surgical Care Pathway







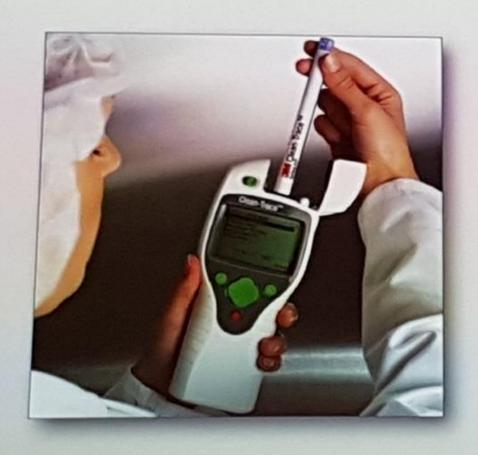




Safety in Practice

- Cleanliness of the OR
- Surgical attire
- Handhygiene and surgical hand antisepsis
- Hair removal
- Patients' skin prep and adherence to manufacturers' instructions
- Preventing inadvertent hypothermia
- Environmental cleaning
- Aseptic technique

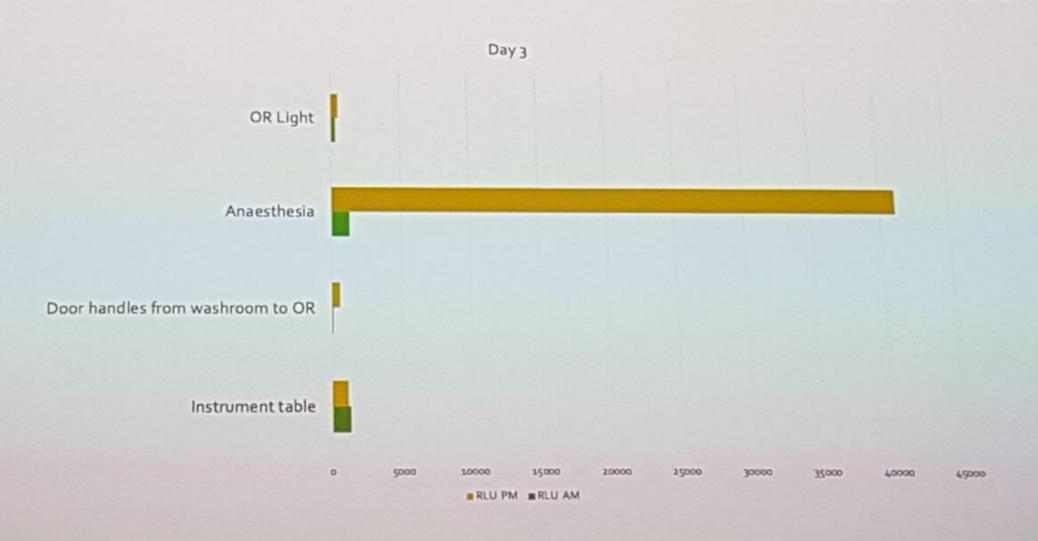
Cleanliness of the OR

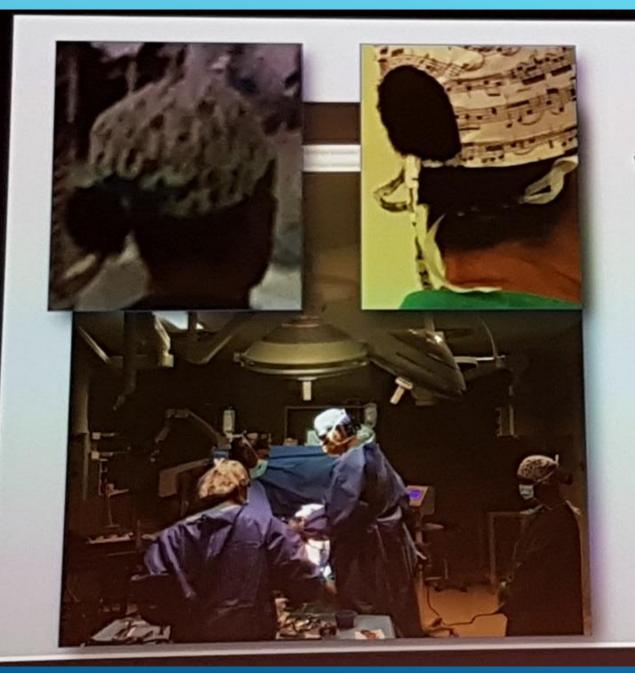


The Clean-Trace System can quantify the cleanliness of a surface or lumen sample using Adenosine TriPhosphate (ATP) bioluminescence.

The higher the RLU number, the more contaminated the sample.

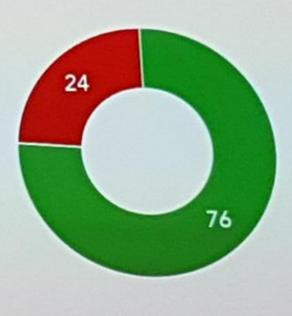
Cleanliness of the OR





Surgical attire

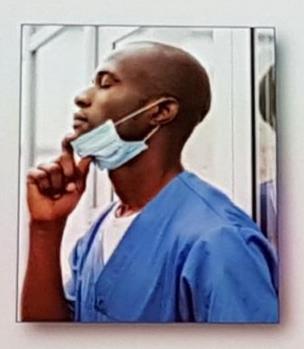
Wears the correct head cover for covering ALL head and facial hair



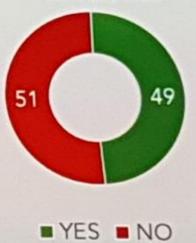
■ YES ■ NO

Surgical attire





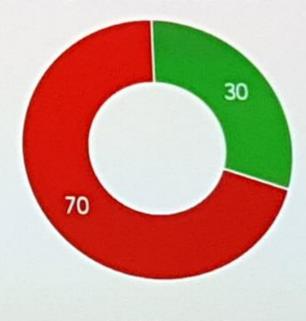
Surgical mask is removed without touching front side of the mask and hand antisepsis is carried out



Hand Hygiene (general)



After removing non sterile gloves hand antisepsis is carried out

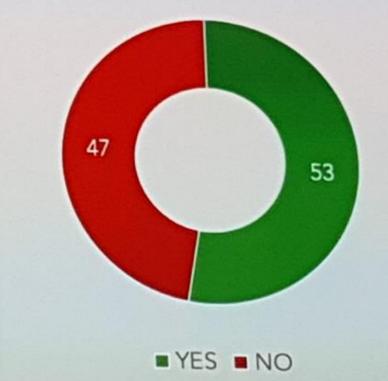


■ YES ■ NO

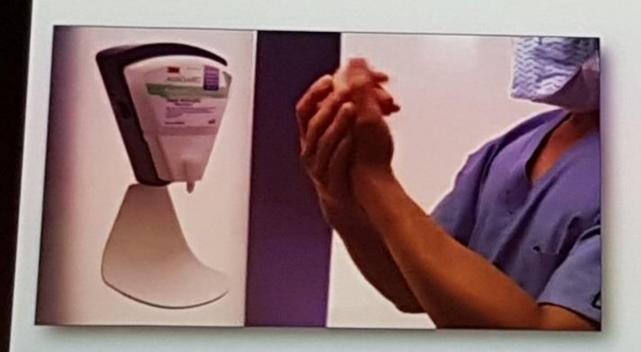
Hand Hygiene (general)



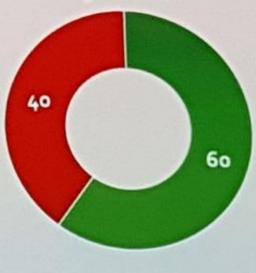
Skin lotion / moisturizer is available

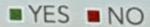


Surgical Hand Hygiene



Surgical hand antisepsis is carried out according to the hospital protocol





Hair Removal

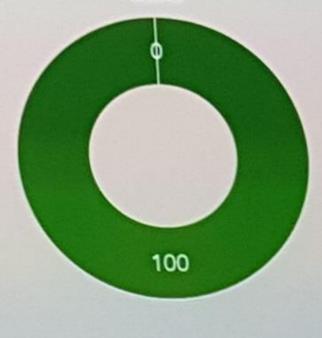
But please

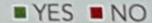
DO NOT

clip in the

Operating Room

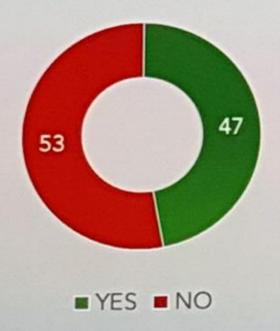
If hair has to be removed, a surgical clipper is used



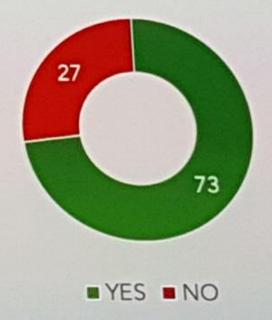


Skin Antisepsis

Patient skin antisepsis according to existing rules



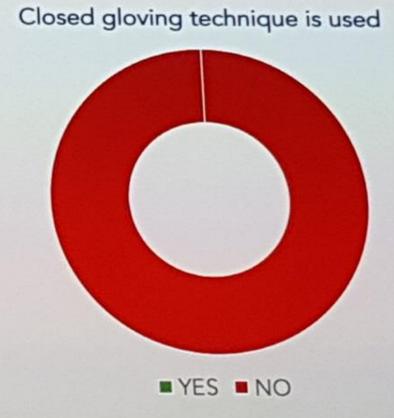
Patient skin antisepsis antiseptic is allowed to dry



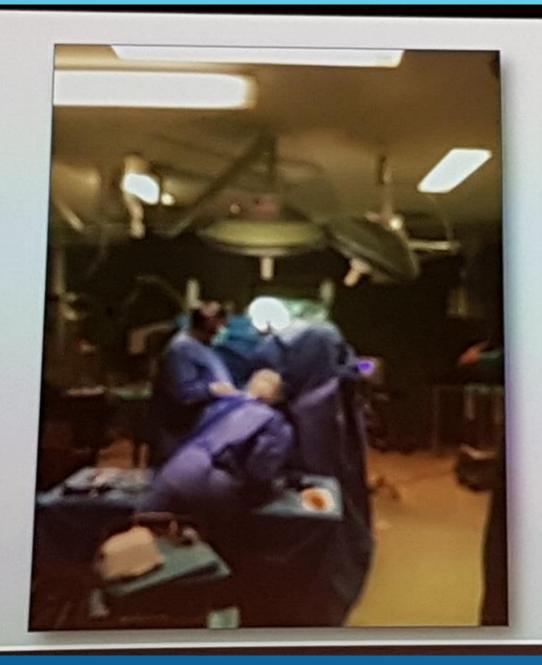


Gloving

Closed gloving

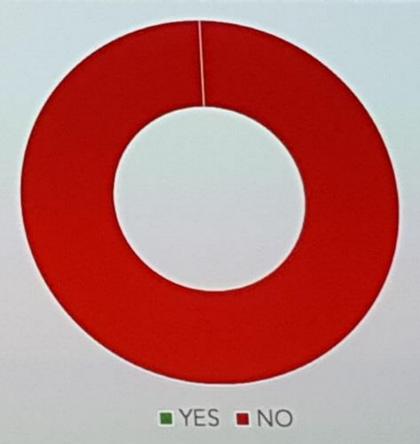


Open gloving



Create / Maintain Sterile Surface

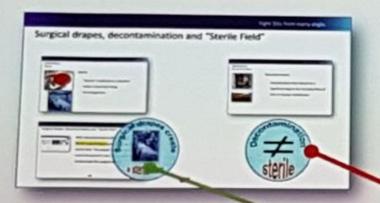
A sterile surface is created and maintained



Create / Maintain Sterile Surface

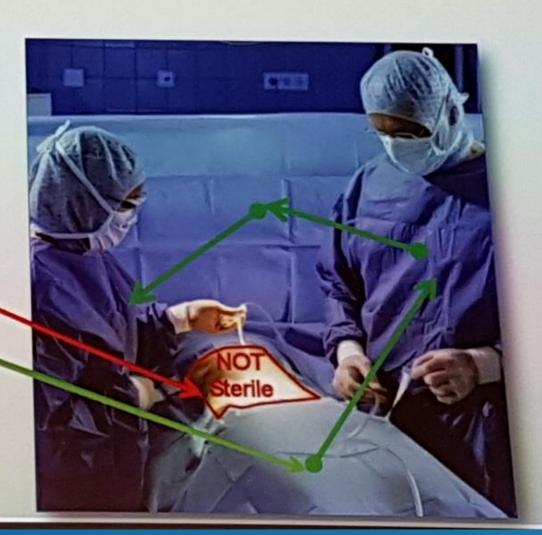


Decontamination, surgical drapes and "Sterile Field"

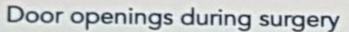


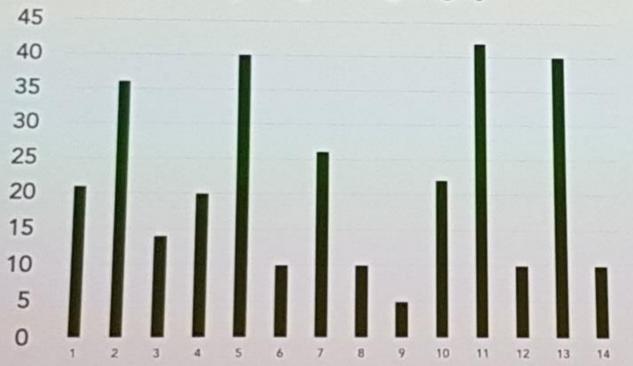
Everything is STERILE

EXCEPT the place where
the incision will be made

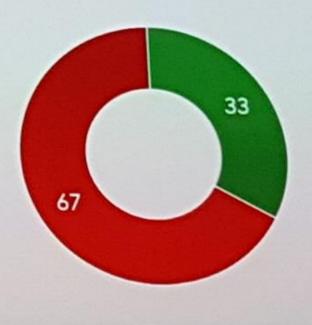


Aseptic Technique etc.





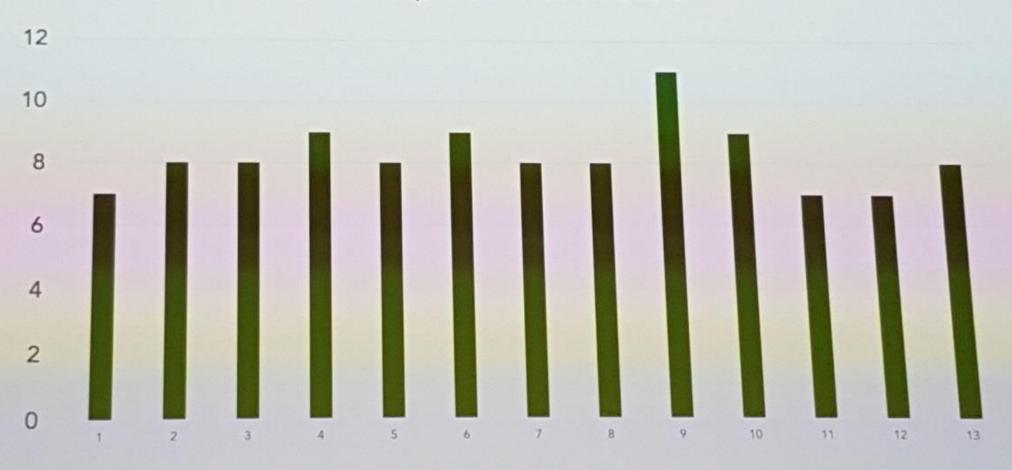
Doors stay closed (also if the OR is not in use)



■ YES ■ NO

Aseptic Technique etc.

Number persons in the OR (max.)



Conclusion

We are the persons to positively change

the patient outcome, but we have to go

back to basics and take responsibility.