



VU medisch centrum
Afdeling Sociale Geneeskunde



Patient safety and patient outcomes

Martine de Bruijne, Cordula Wagner

Safety 4 Patients

www.onderzoekpatientveiligheid.nl

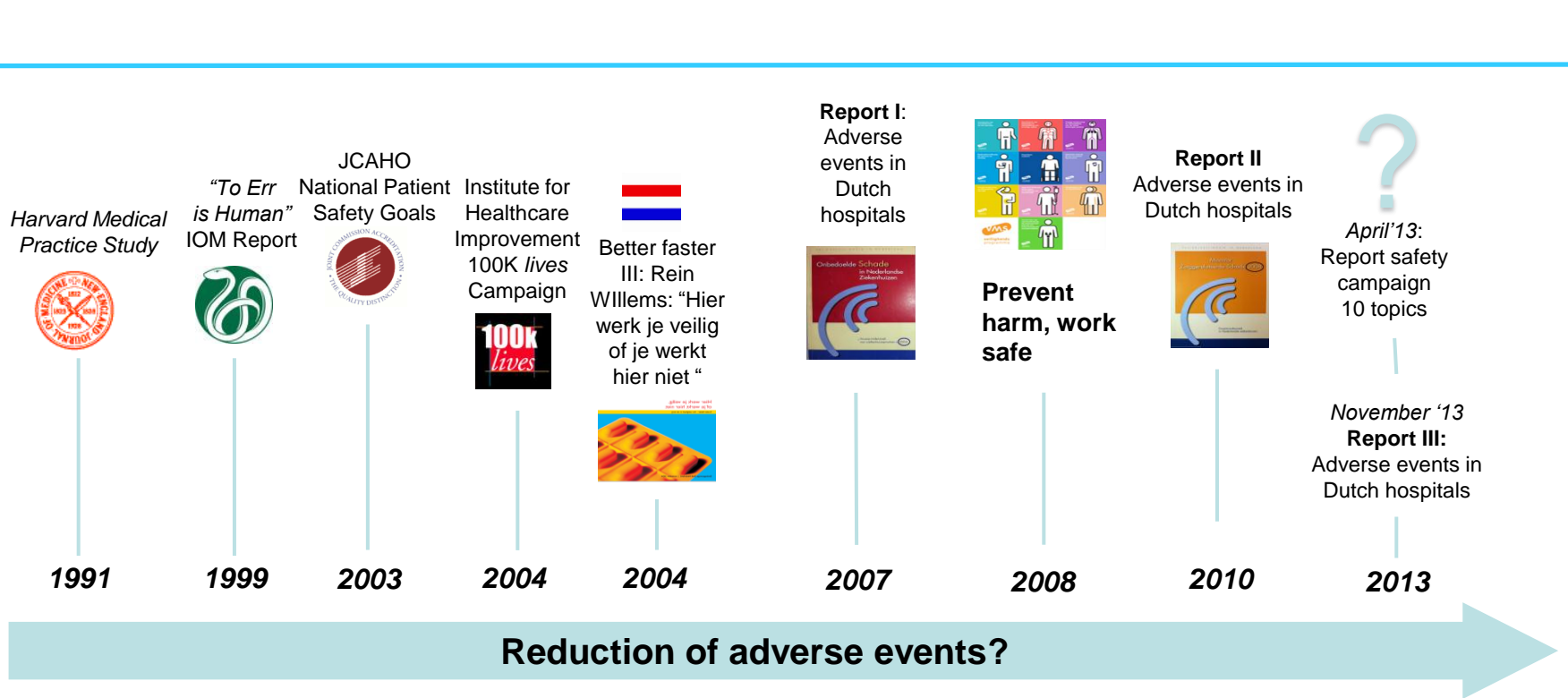




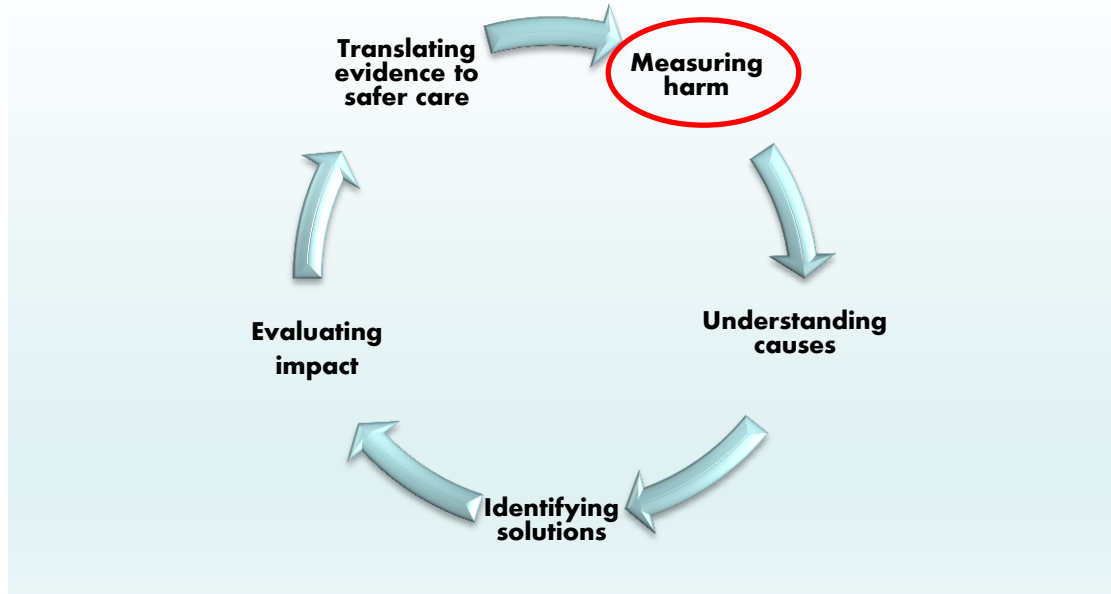
Safety 4 patients

www.onderzoekpatientveiligheid.nl

Patient safety milestones




Patient safety research NL



PATIËNTVEILIGHEID IN NEDERLAND


Onbedoelde **Schade** in Nederlandse Ziekenhuizen



Dossieronderzoek
van ziekenhuisopnames in 2004

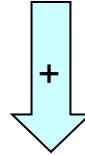
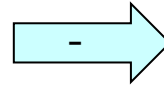
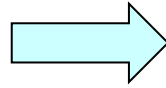
PATIËNTVEILIGHEID IN NEDERLAND

Monitor Zorggerelateerde Schade 2008



Dossieronderzoek
in Nederlandse ziekenhuizen

Record review

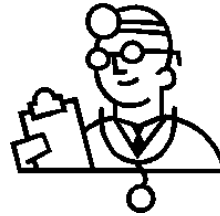


Patient harm?

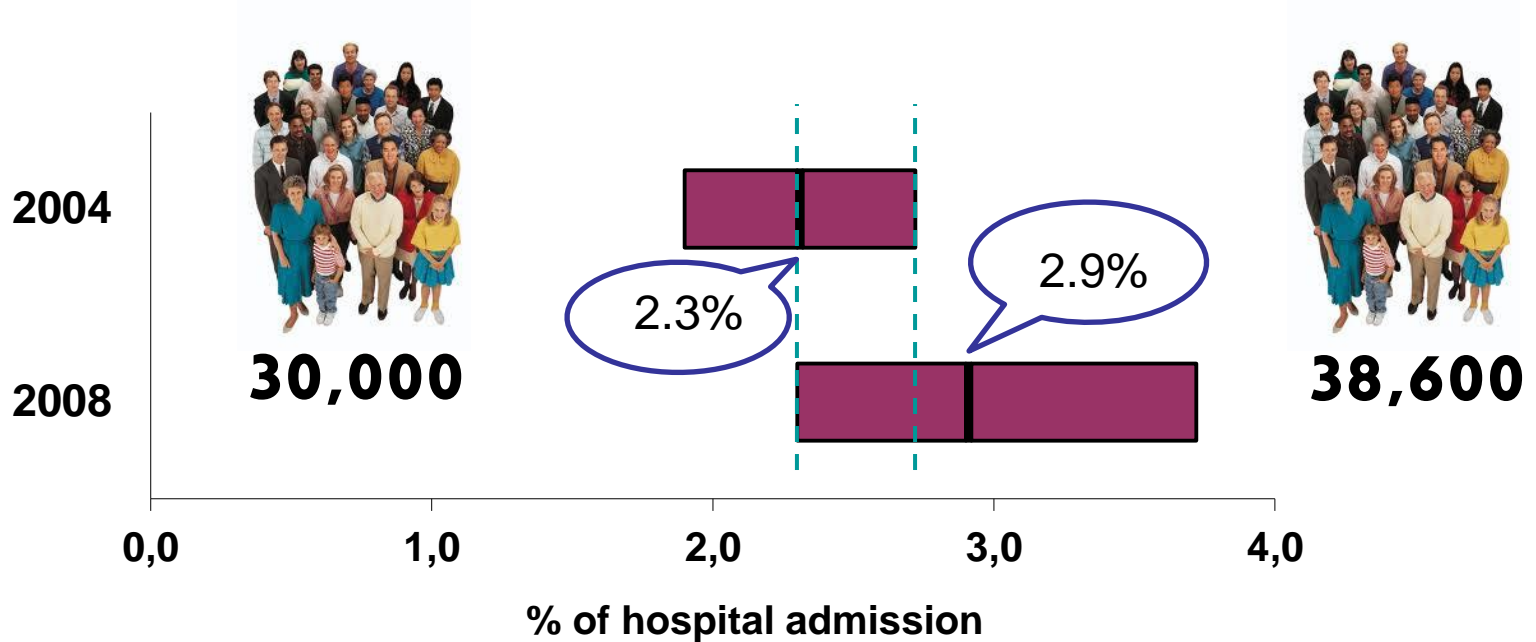
Health limitation?

Related to health care?

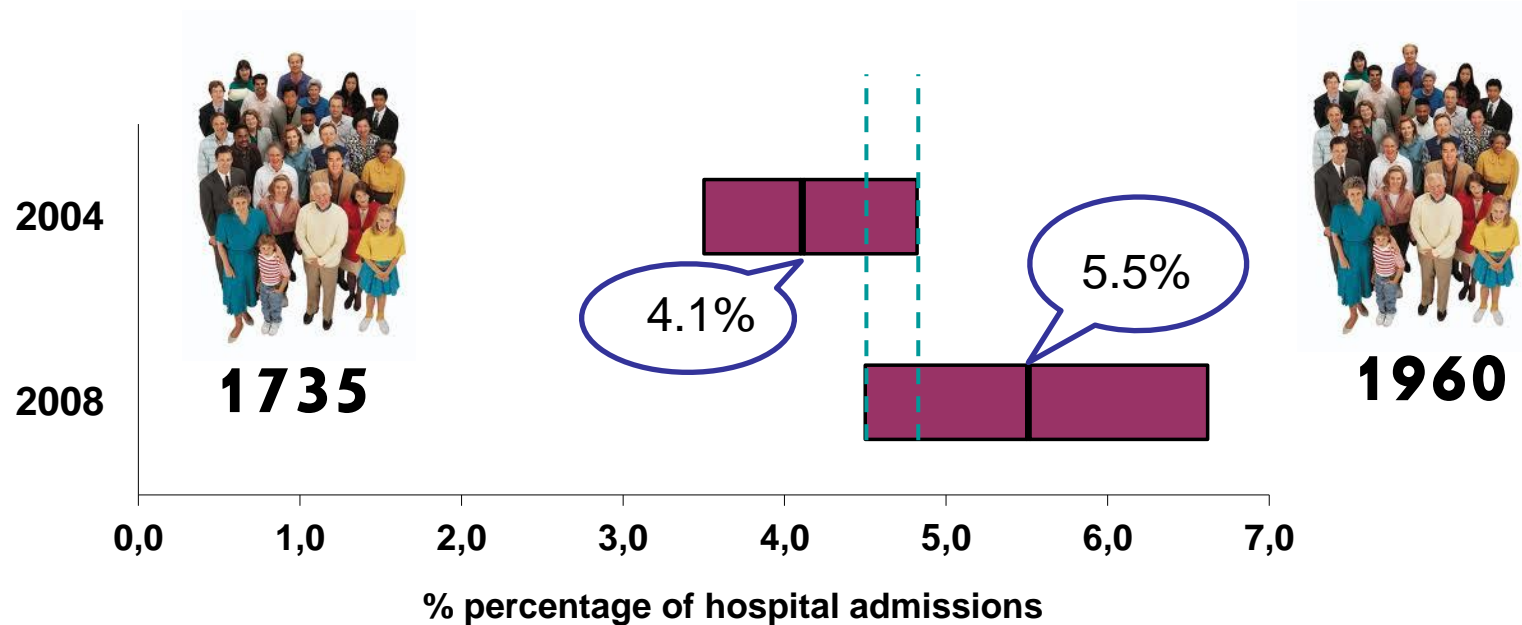
Preventable?



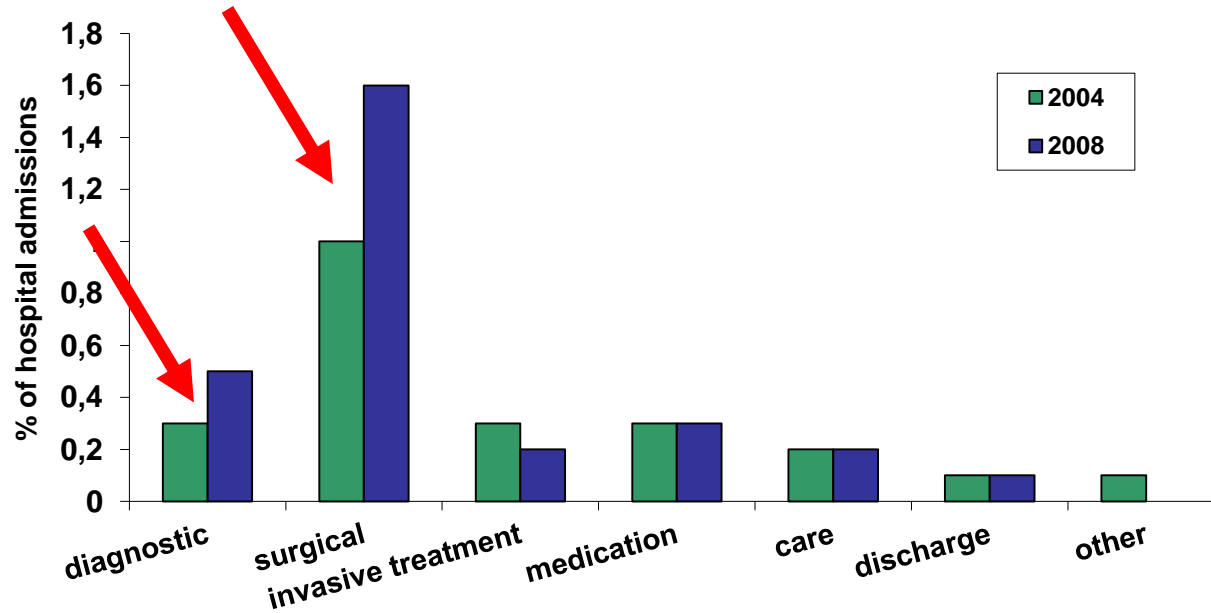
Potentially preventable adverse events



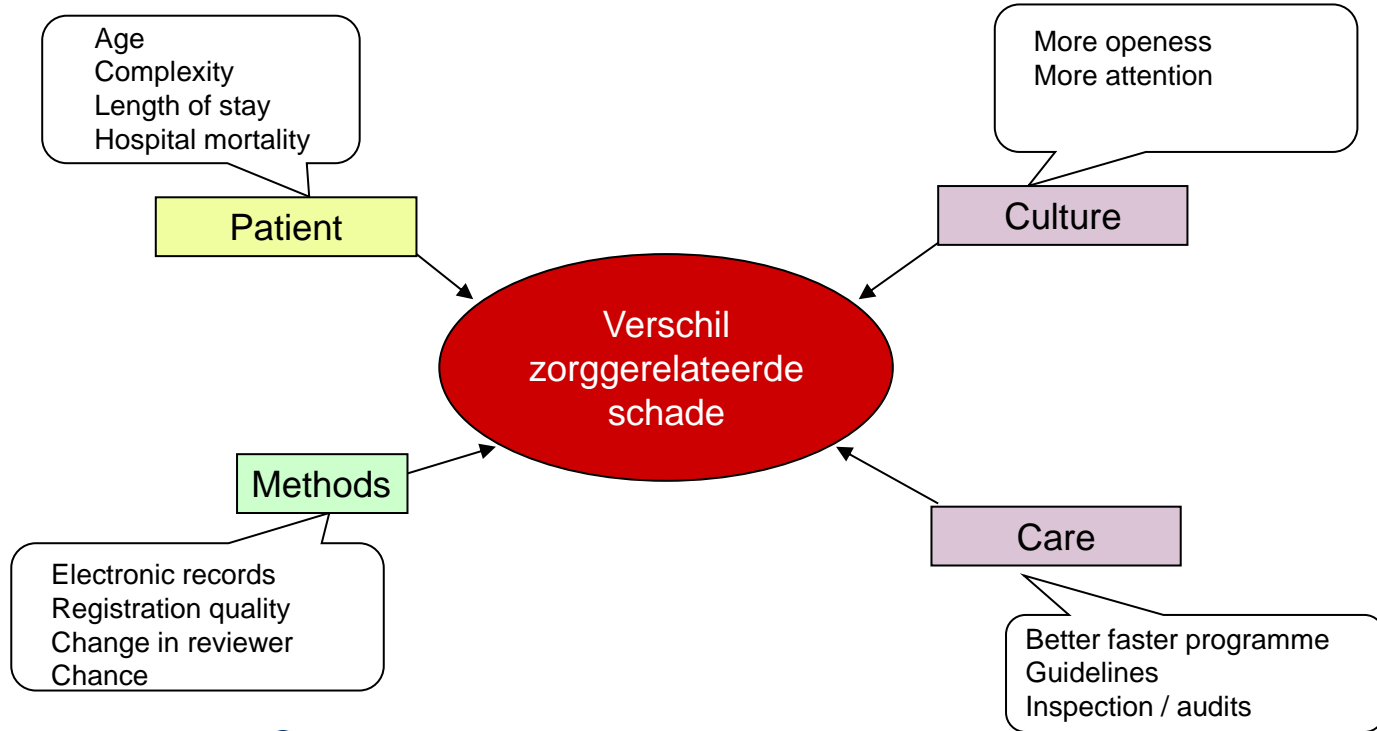
Potentially preventable hospital deaths



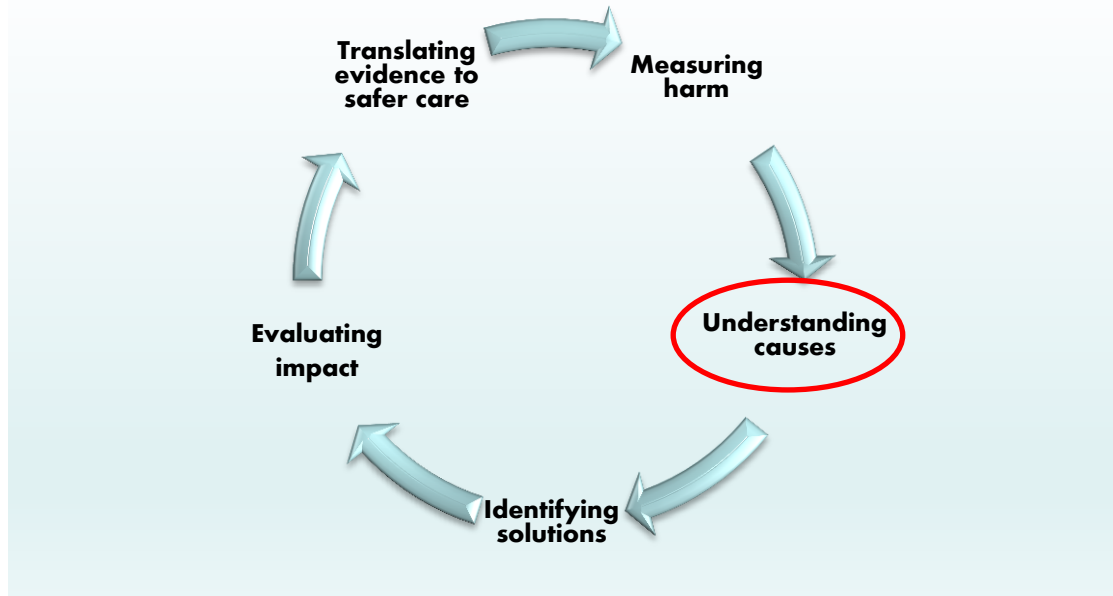
Type of preventable AEs



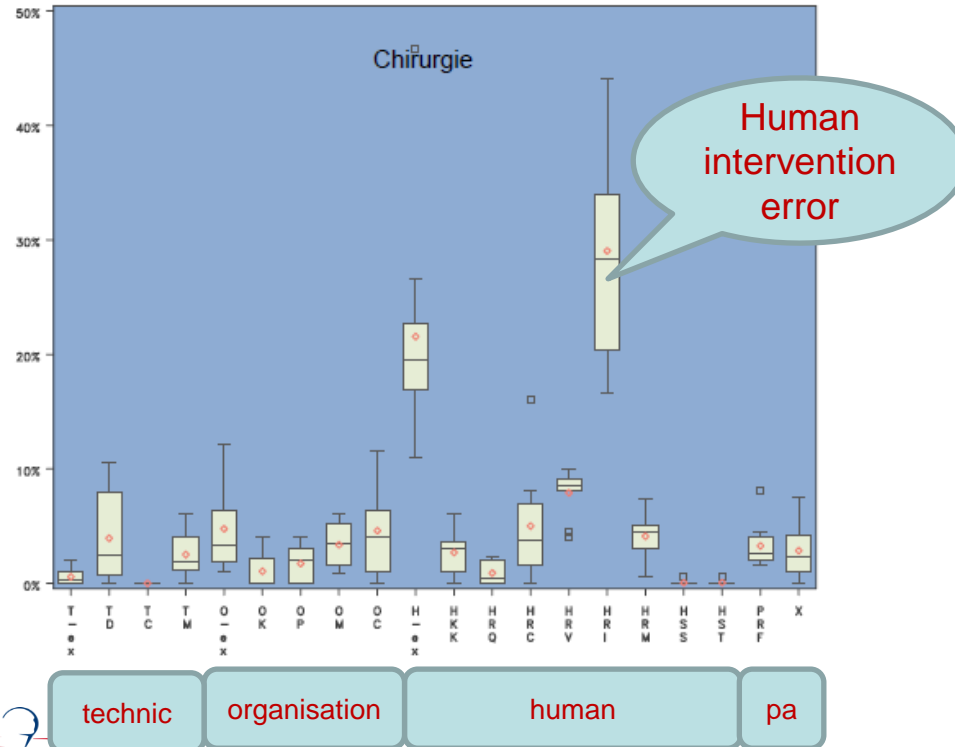
Causes



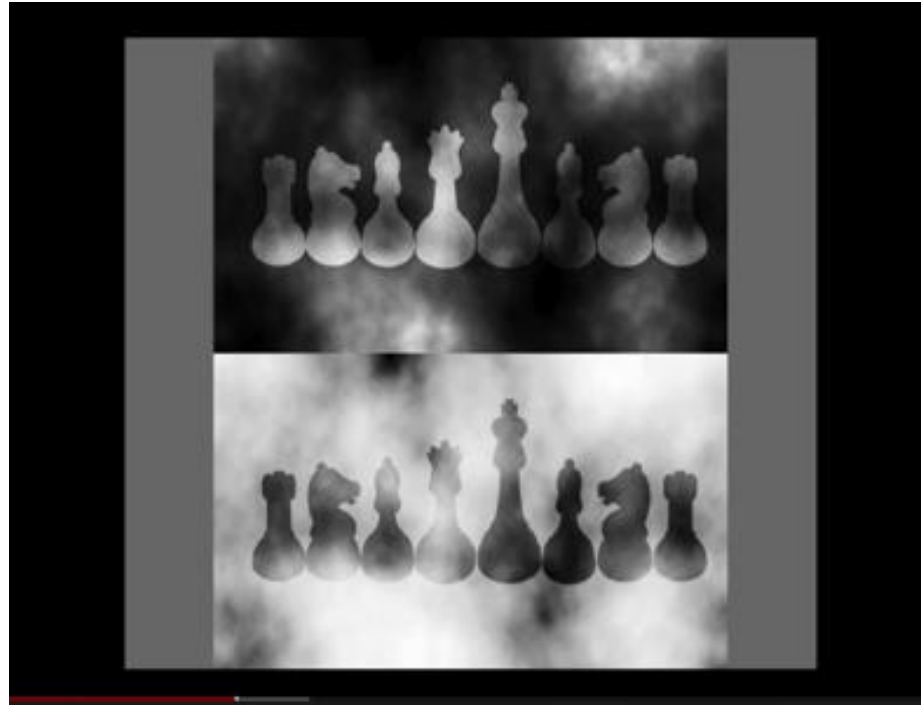
Patient safety research NL



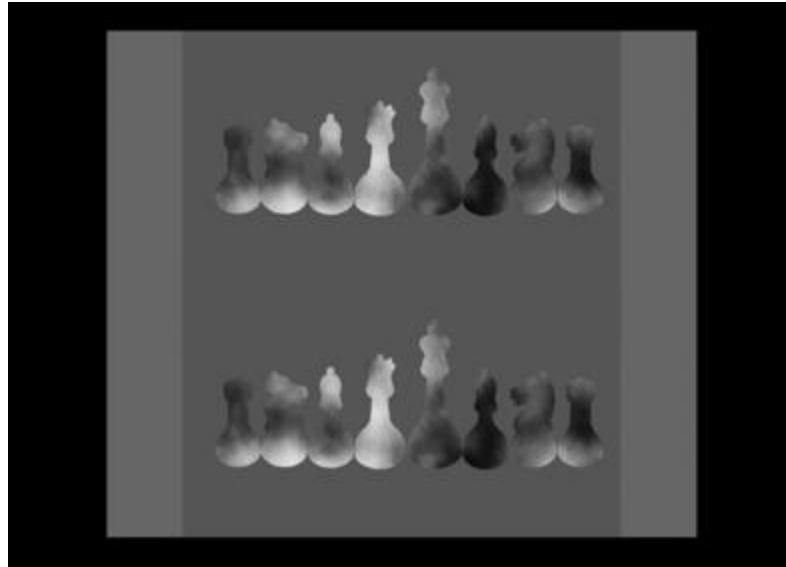
Root causes of 881 surgical incidents



Human factors

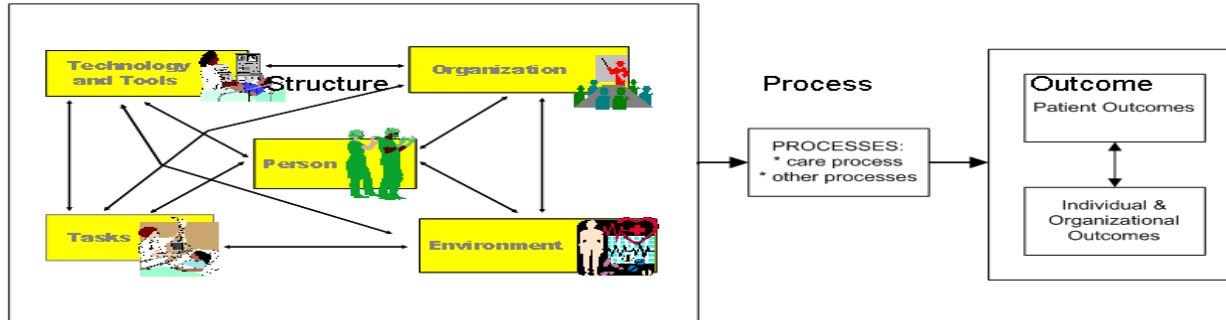


Human factors



WORKSYSTEM

SEIPS System Model



Carayon, P., Hundt, A. S., Karsh, B., Gurses, A. P., Alvarado, C. J., Smith, M., and Brennan, P. F. (2006). Work system design for patient safety: the SEIPS model. *Quality and Safety in Healthcare*, 15(Suppl 1), i50-i58.



Presented by Ben-Tzion Karsh, PhD

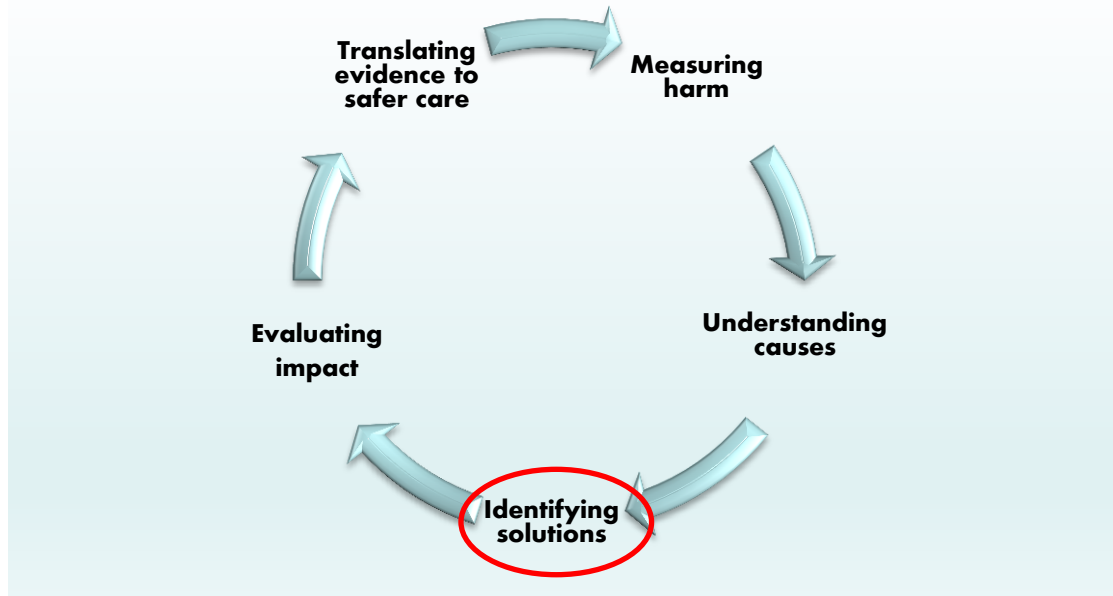
22



Communication errors



Patient safety research NL



“Safety campaign 2007-2012”

Safety management system

Topics:

1. Postoperative infections
2. Sepsis
3. Rapid response team
4. Medication errors
5. Elderly patients
6. Acute coronary syndromes
7. Pain
8. High risk medication
9. Wrong site/patient
10. Contrast nephropathy



www.vmszorg.nl

How?

Crew resource management

- Training
- Instruments



TeamSTEPS	
S	SITUATION
B	BACKGROUND
A	ASSESSMENT
R	REQUEST/ RECOMMENDATION

TeamSTEPS	
<u>SITUATION</u>	What is the situation?
<u>BACKGROUND</u>	What is the clinical background?
<u>ASSESSMENT</u>	What is the problem?
<u>REQUEST/ RECOMMENDATION</u>	What do I recommend / request to be done?

Structured Communication Tool

Time Out!

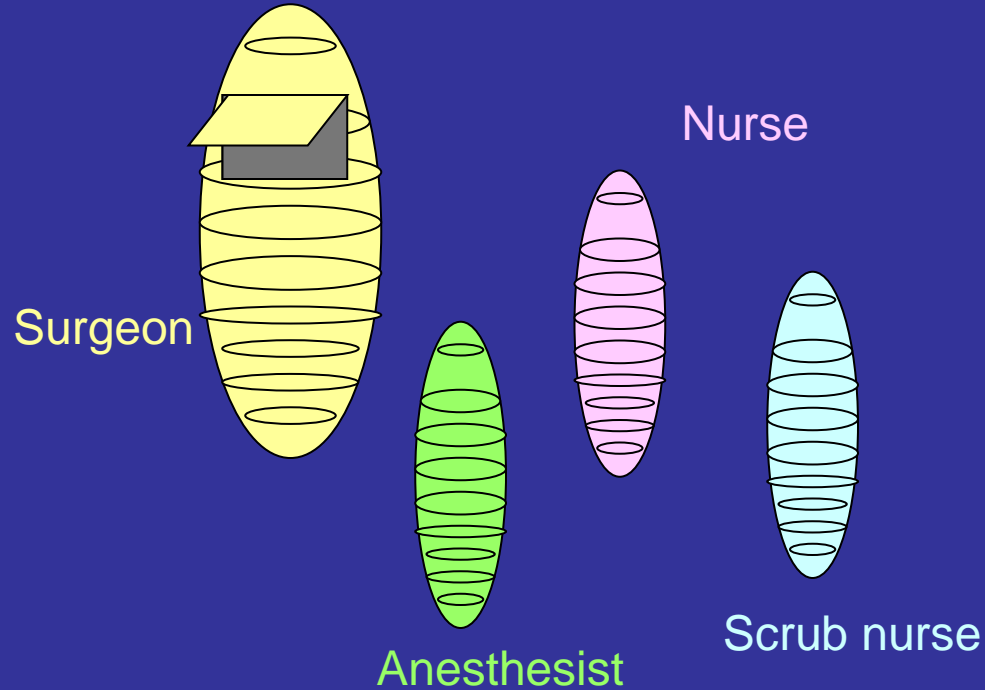


SURPASS

Eerst checken, dan veilig verder!



Functioning like cocoons'



CRM

Team

- Leadership
- Teamwork
- Communication
- Situational Awareness
- Shared aims
- Standardisation



Surgeon



Nurse

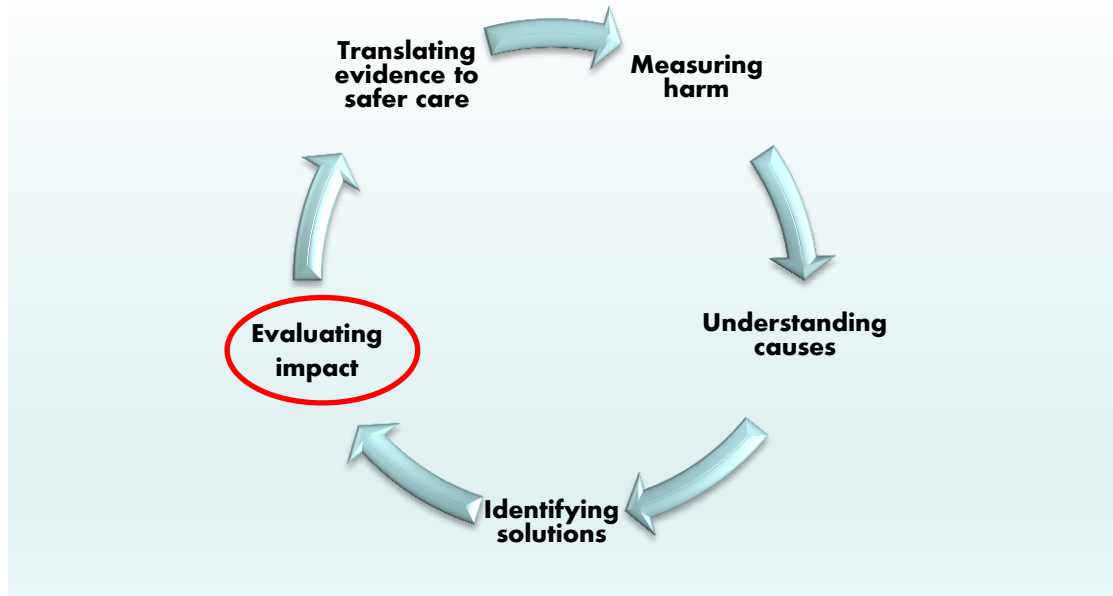


Scrub nurse



Anesthesiologist

Patient safety research NL



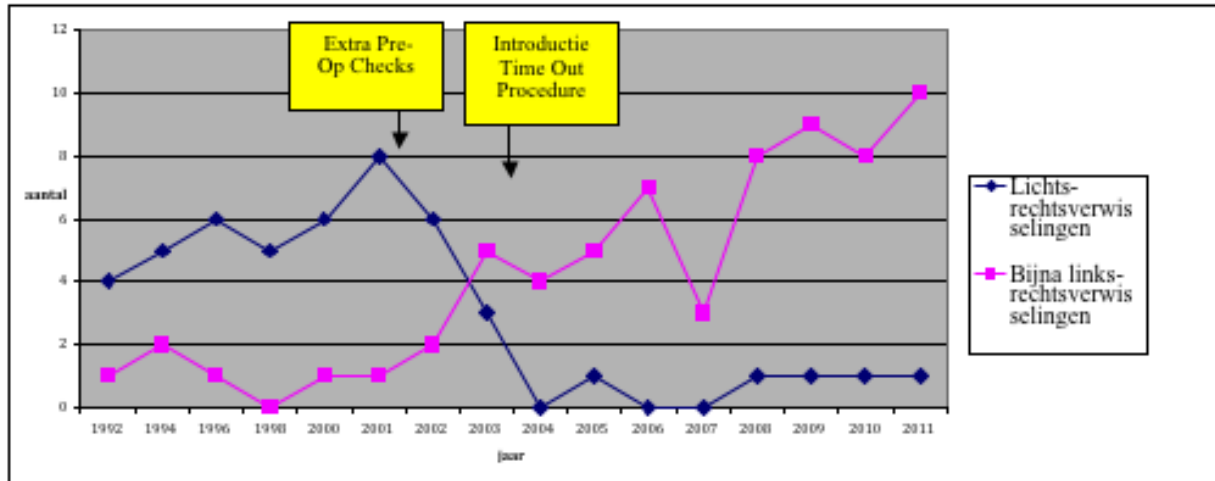
Effects of CRM team training

Both simulation training and classroom based training improve ..

- .. Knowledge
- .. Attitude
- .. Behaviour

However limited effects on patient outcomes within 6 to 12 months

Time-out Eye hospital Rotterdam



Korne DF de. Divergent sight: studies on the application of industrial quality and safety improvement methods in eye hospitals. Proefschrift, Academisch Medisch Centrum, Universiteit van Amsterdam, 2011

SPECIAL ARTICLE

Effect of a Comprehensive Surgical Safety System on Patient Outcomes

Eefje N. de Vries, M.D., Ph.D.
Rogier M.P.H. Crolla, M.D.
George van Andel, M.D., Ph.D.
Wolfgang S. Schlack, M.D., F.R.C.S.
Dirk J. Gouma, M.D., Ph.D.
Susanne M. Smorenburg, M.D., Ph.D.
for the SURPASS Investigators

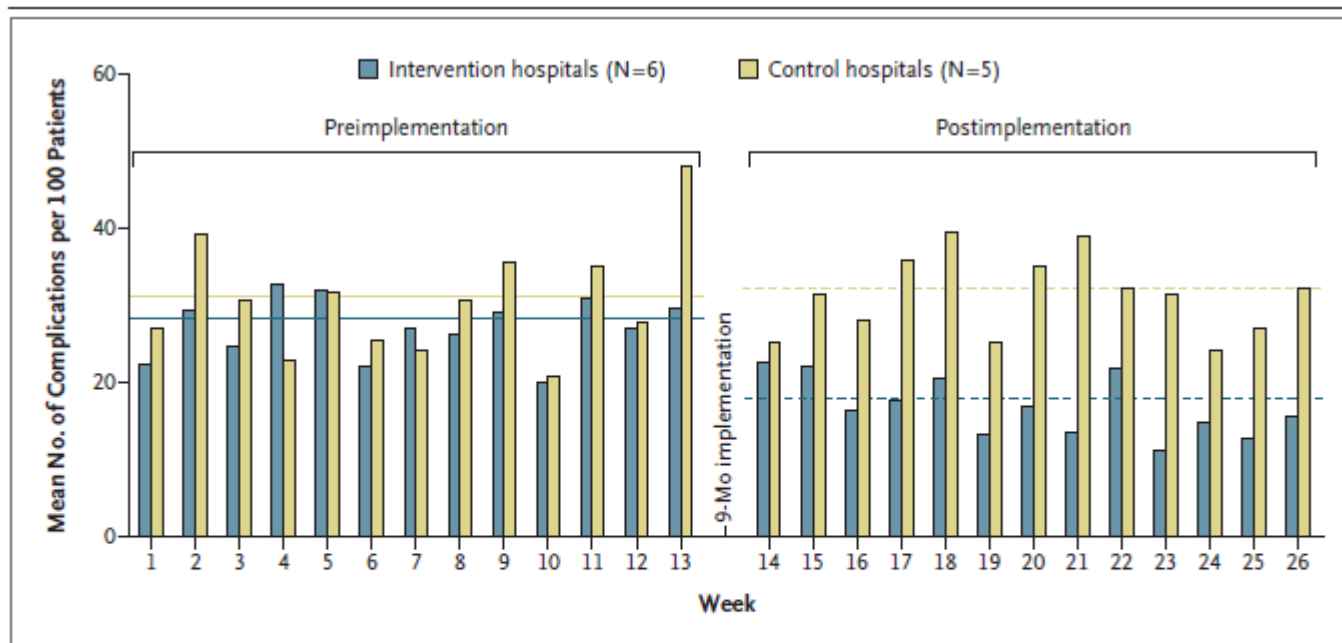
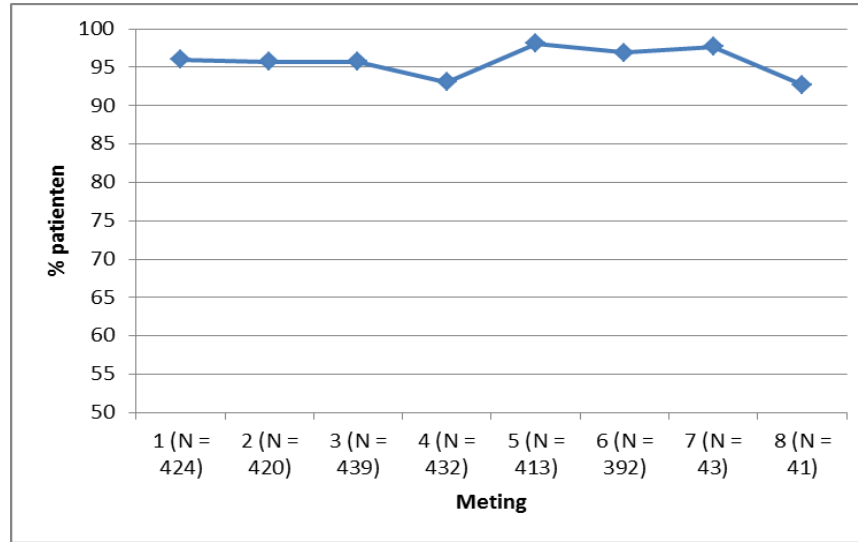


Figure 1. Mean Number of Complications in Intervention Hospitals and Control Hospitals before and after Implementation of the Surgical Safety Checklist.

Contrastnephropathy

Preliminary results (nov '12)



% patients with
registered eGFR
before contrast
administering

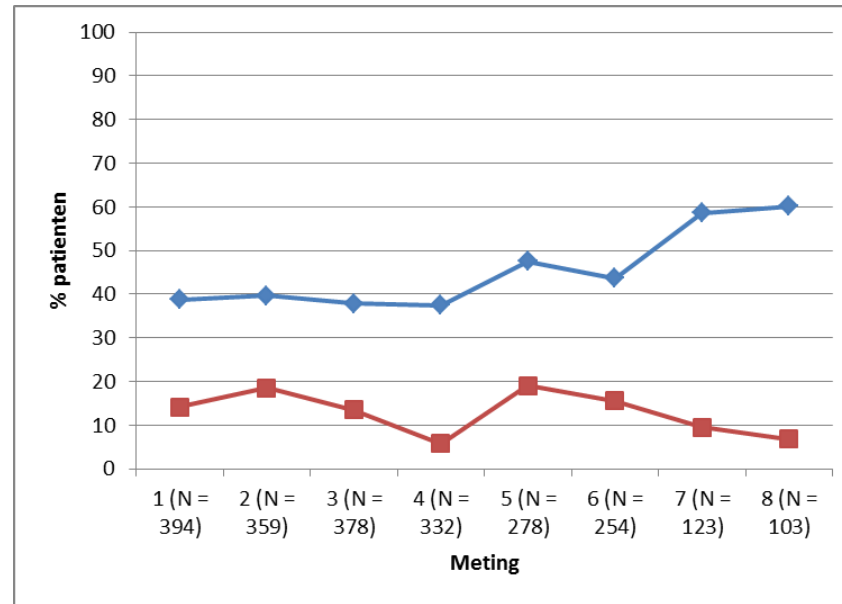


Medication verification



% Patients treated with complete bundle

Preliminary results (nov '12)



— admissions
— discharge

Expected reports

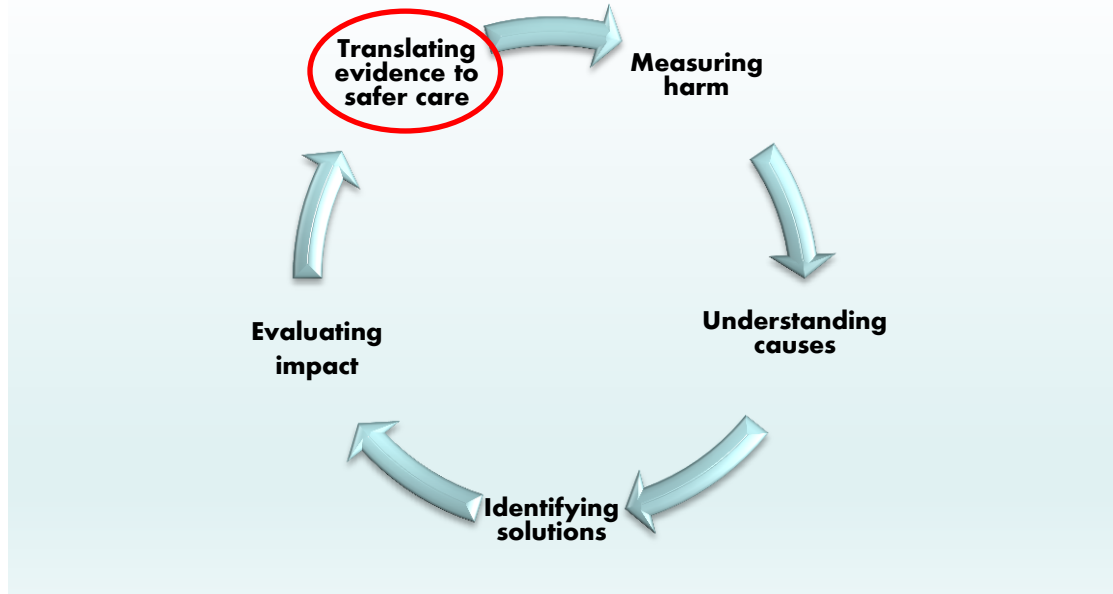
April 2013:

Results implementation 10 topics safety campaign

November 2013:

Report III: Adverse events in Dutch hospitals

Patient safety research NL



Trends in adverse events over time: why are we not improving?

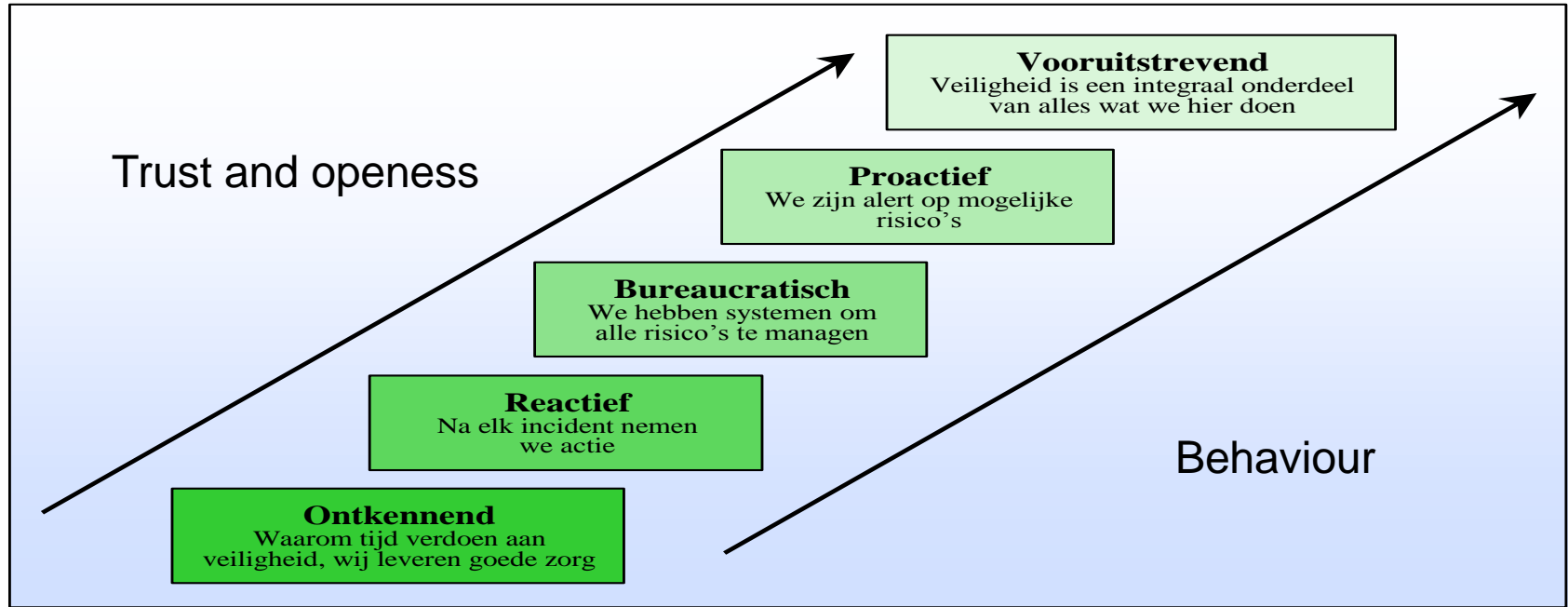
Kaveh G Shojania,¹ Eric J Thomas²

THE PAUCITY OF EFFECTIVE PATIENT SAFETY INTERVENTIONS

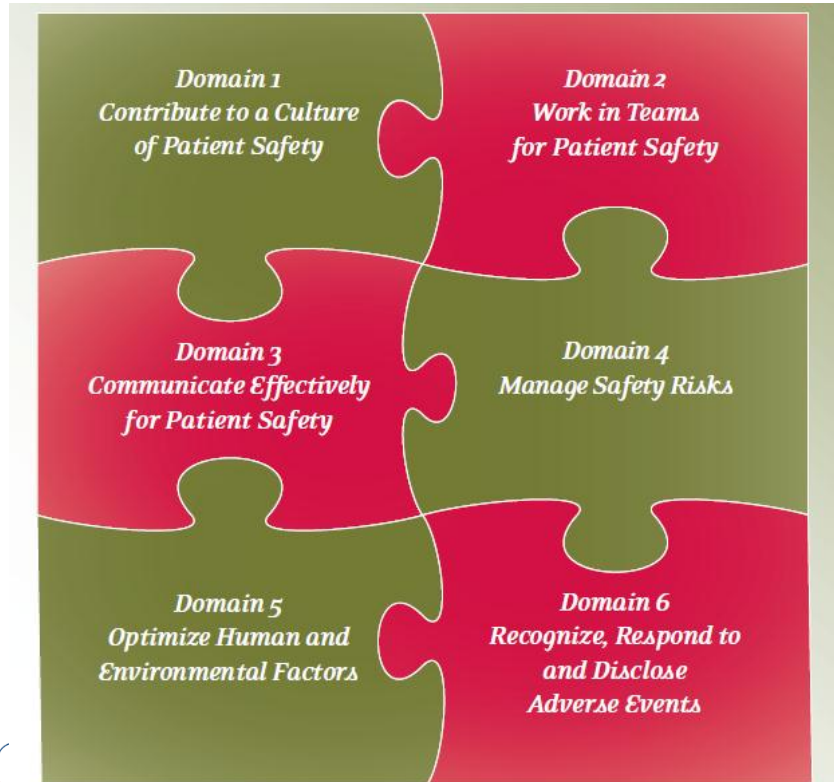
WHAT IS THE SOLUTION?

Detecting the modest improvements associated with most interventions will require targeted surveillance for the events targeted by effective interventions. If an intervention promises to reduce central venous cath

Improve safety culture



Multiprofessional competencies



Basic quality registration

Show results with more ease



Handy patients enterprise edition

David (8 month and 10 day)
John (2 years and 3 month)

Mother: Teacher
Father: Financial advisor
Parents: Married

Last: Anderson P
First: David Boy
Birth: 5 January 2009
Age: 8 month and 10 days Patient nb: 3

Formic Sheets
Meeting (Doctor) O: Neurologic
Full status (Doctor) O: Vascular
Assistant O: Cardiac
Billing O: Respiratory
Reports O: Abdomen
Statistics Exams
SOAP Sum. T
R-V T, P, PC
Admission Agends Patient documents
Laster

Meetings
2 month checkup 5 Mar 09 2m-0d
1 month checkup 5 Feb 09 1m-0d
Respiration problem 22 Jan 09 17d
10 days checkup 13 Jan 09 6d
Control for return at home 9 Jan 09 4d
Birth 5 Jan 09 0d

Diagnosis
General
My Diagnosis
Social

New documents
- Abdomen palpat - 15 Sep 2009
- Cardiac auscul - 15 Sep 2009

To do
Send checkup

Assist: 1 Doc: 8

Notes
Father ask many questions, add 10 minutes to consultation

Digestive

Thursday, 22 Jan 2009

Digestive inspection
Normal

Digestive auscultation
Normal abdomen notes

Digestive palpation
Little pain on the right lower area

Liver
No hepatomegaly.

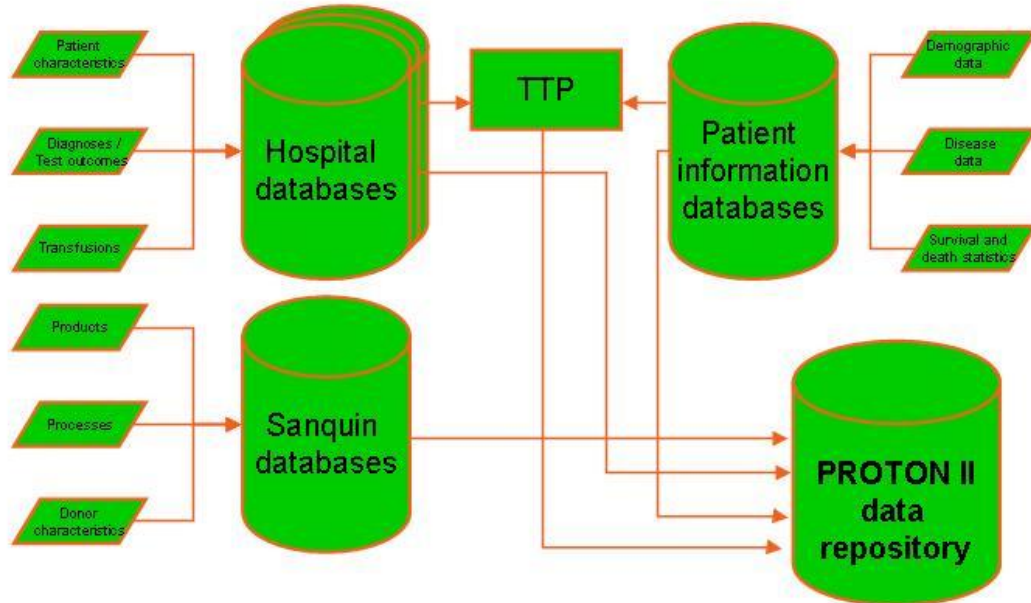
Rectal

Page 1/1
Draw
Mark
Color
Pen
8

PROTON II:

Sanquin & Julius Center & EMGO+

PROTON II Data collection



Benchmark

Risks

Prognoses



Thank you!

