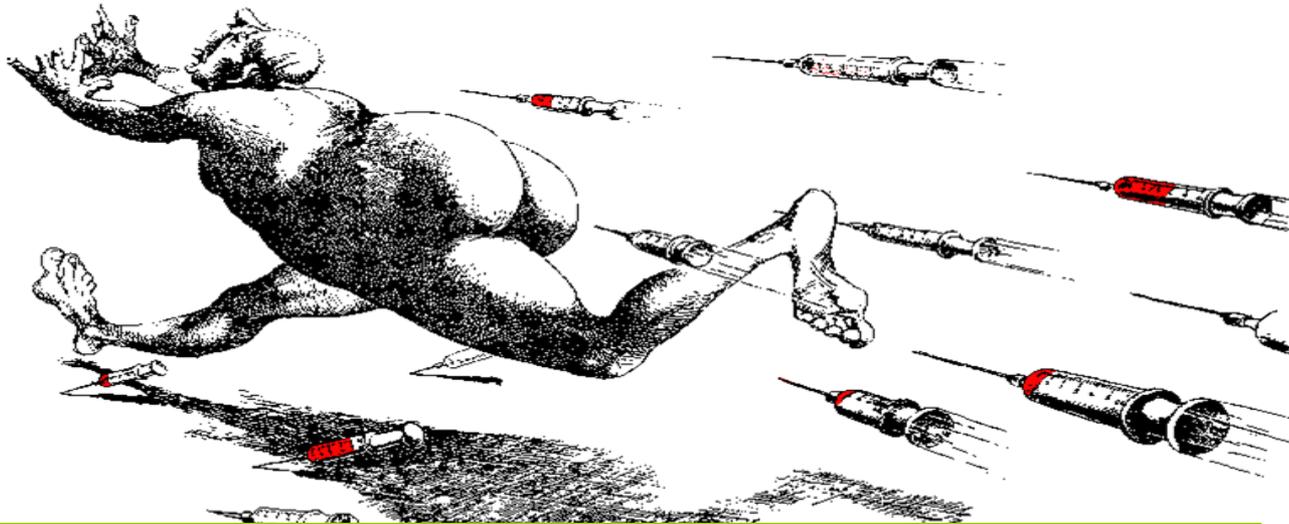
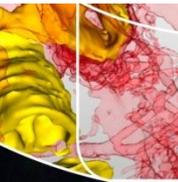
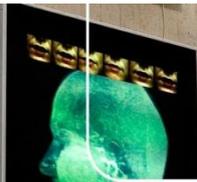


Introduction of safe needles, does it care ?



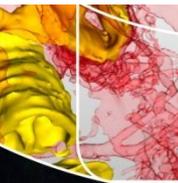
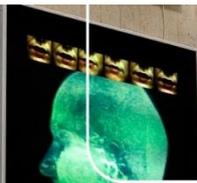
Effect of Directive 2010/32/EC, its impact at workplace level. How does it decrease the number of NSI's in Dutch hospitals?

Gerard Frijstein, MD occupational health



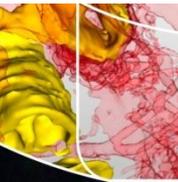
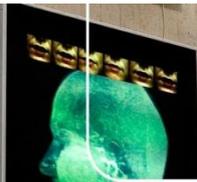
Development directive 2010/32/EU in the Netherlands

- The EU directive is already in force from 1/1/2012 “Dutch arbolaw”, a general Law to ensure safe en good working conditions
- StAZ initiatives to support this Directive; Dutch employers counsel together with Unions
- Grants are available and a lot of effort is undertaken bij both parties to strenghten a succesfull implementation
- Examples;
 - General hospitals consider a joint purchase of safe needles
 - In october 2013 a European meeting healthy workplaces will be supported by TNO (Dutch focal point) in coöperation with StAZ and EU –OHSA
 - Support best practices in the field

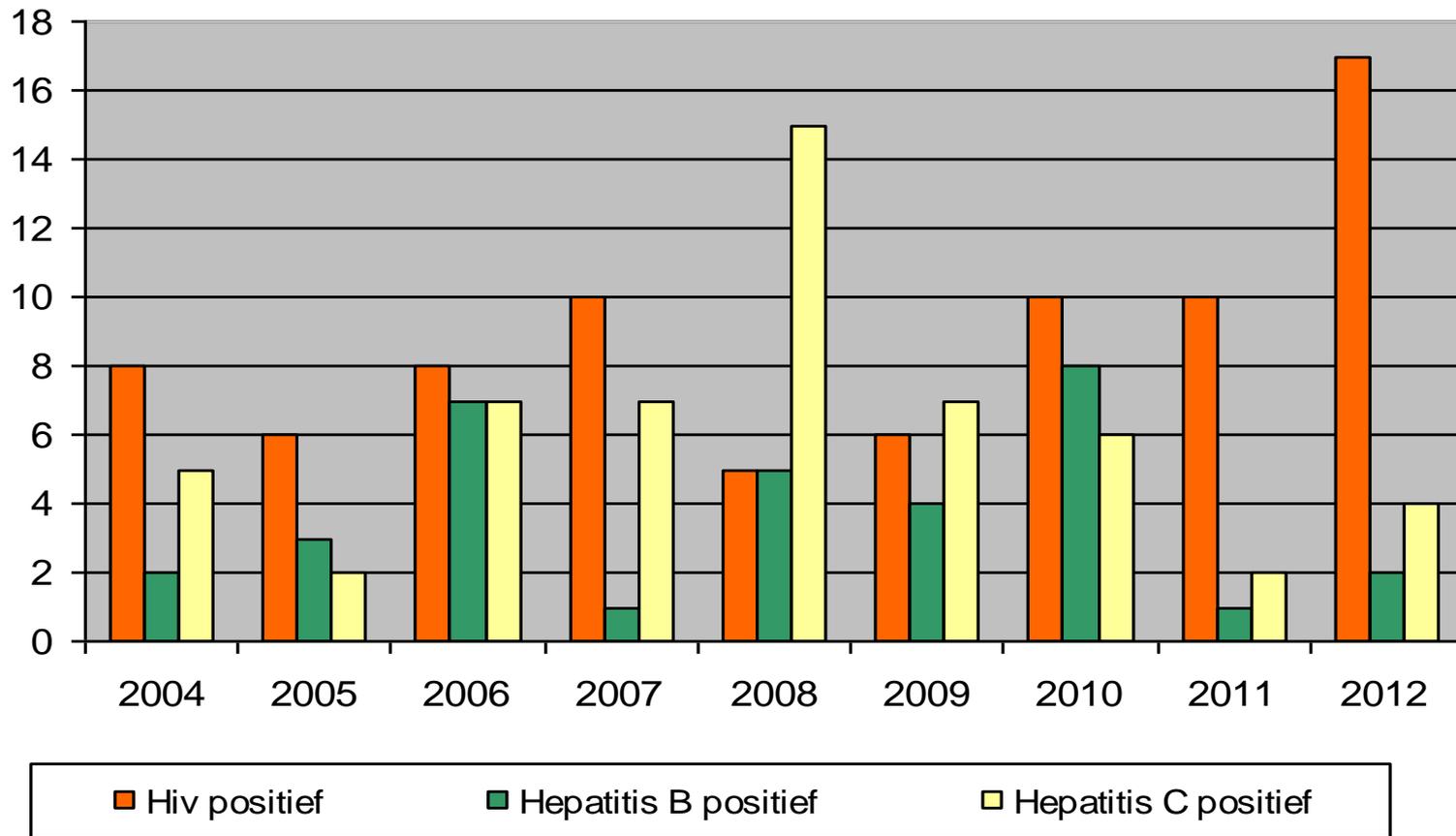


Presentation topics

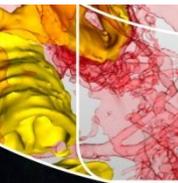
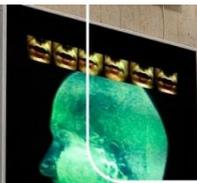
- The business case in the Academic Medical Centre (AMC) ,University of Amsterdam
- Best practice based on analyses 2000 registred needle stick injuries (NSI's)
- Implementation safety needle devices project
- Lessons learnt



Rationale for Safety devices from a HCW perspective!

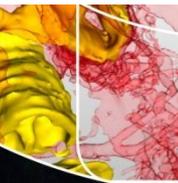


8-10 % of the source patients over the years were infected with HBV ,HCV or HIV.



Arguments to convince policymakers and the Board to implement safe needle devices?

- Register the NSI's in a proper way
- Perform an analysis of the database
- We performed an EB study; show the evidence
- Adapt a 24 hours service after a NSI
- Transition of old vs new safety devices, replacement preferably instantly



Main results

NSI's background profession

	2006	2007	2008	2009	2010	2011	2012	
Profession								
Nurse						42	41	25 %
Medical student							28	20 %
Junior physician, in training	32	27	51	35	25	24	36	16 %
Senior physician (specialist)	17	21	22	19	12	22	8	8 %

Educational/less experience

Activity	NSI's most common activities							
Cleaning up after medical procedure	52	48	40	40	41	30	31	20 %
Operation, Sticking							30	19 %
Blood sampling	29	31	29	32	24	29	31	14 %
Recapping				13	8	9	8	5 %

Safety issue up to 40 % reduction easy to manage

Still happens !



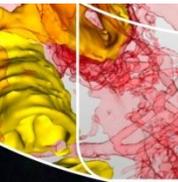
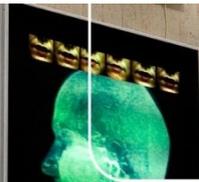
Implementation safety project AMC , main conditions

Increase awareness for preventive measures

- Training and promote safe behavior
- Research on scientific evidence to show efficacy of safe needle stick devices

How

- Effectstudy of safety needle device & workshops on Needle Stick Injuries AMC, Coronel institute/OHS department
- Workshops how to perform safe needle handling
- Seminar safety at the working place



Study design, measurements and participants

Voluntary participation of **23 nursing wards** of 4 divisions (**n=796**)

Baseline measurements (n=796) T0, December 2006

Randomisation on wards' level

Intervention group I
(N= 7 wards, n=267)
Response T0: 168
(63%)

Safety Needle & Workshop

February-May 2007

T1 after 6 months
Response T1: 70
(26%)

T2 after 12 months
Response T2: 47 (18%)

T0+T2: 80 (30%)

Intervention group II
(N= 8 wards, n=263)
Response T0: 161
(61%)

Workshop

Februari - May 2007

T1 after 6 months
Response T1: 84 (32%)

T2 after 12 months
Response T2: 67 (25%)

T0+T2: 103 (39%)

Control group
(N= 8 wards, n=266)
Response T0: 166
(62%)

T1 after 6 months
Response T1: 86
(32%)

T2 after 12 months
Response T2: 46 (17%)

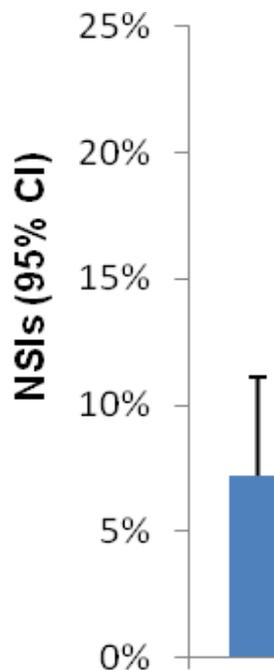
T0+T2: 68 (26%)



Seminar

Veiligheid in het AMC

symposium 8 november 2007



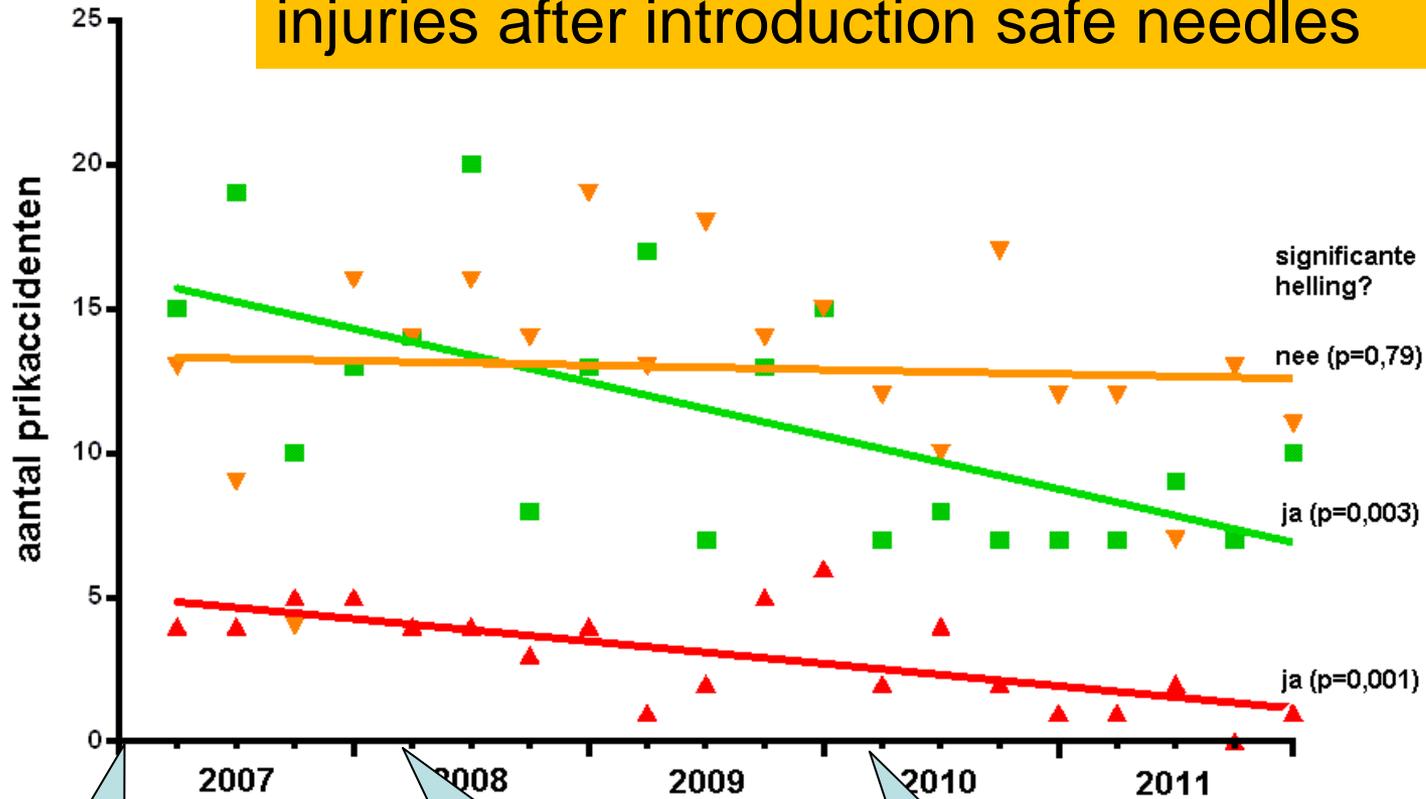
le & Workshop
shop
ol

Molen HFvd, Zwinderman K
'Better effect of the use of a r
injuries'.
Safety Science 49:1180-1186

zie voor meer informatie www.amc.nl/veiligheid 



NSI's; in three years significant less injuries after introduction safe needles



▲ = infuus

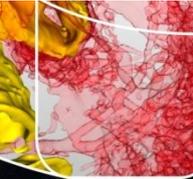
■ = injectie en spuit

Introduction safe injection needles

Introduction Safe IV needles

Start Needle Stick safetyproject

© AMC, 2012



Lessons learnt

- From safety policy to implementation of safe needle devices. It takes time.!
- Trainees , nurces and MD in education at highest risk NSI's
- **Behavioral aspect** (awareness of the occ health risks)and **safe needle stick devices** both contribute to a safer working environment HCW
- 3 years after implementation safety devices show positive results in distinct needle handling Statistical significant!
- StAZ initiatives will contribute for good safe needle handling in all Dutch general Hospitals (n = 100)

