

Birgitta Lytsy, M.D., Ph.D.

Department of Clinical Microbiology and Infection Control,
Uppsala University Hospital, Sweden
birgitta.lytsy@akademiska.se



History:

BARN was an extension of activities initiated in the networks of BALTICCARE in the 1990:ies

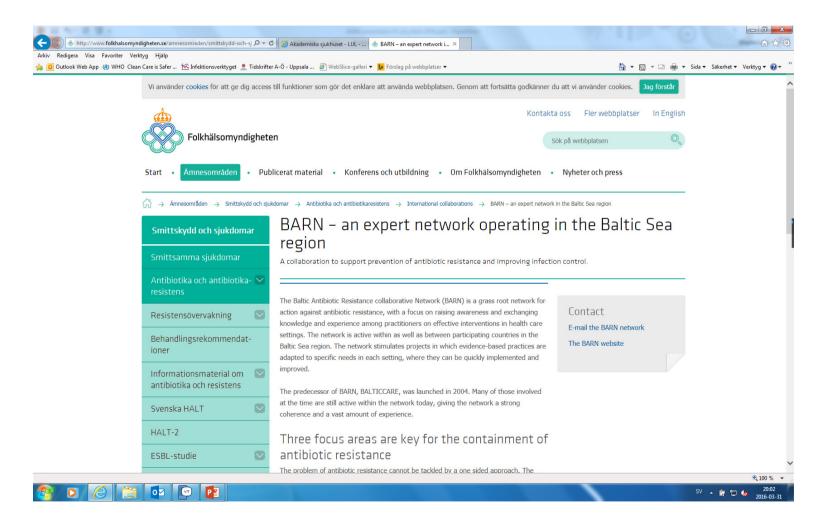
The Baltic Network for Infection Control and Containment of Antibiotic Resistance and Forum Balticum

Anna Hambraeus, MD, PhD and others

October 13, 2011



Public Health Agency of Sweden coordinator





Members

Doctors, nurses, health-care staff

Epidemiologists, stake holders,

University academy professionals

Currently 200 professionals

October 13, 2011 4



Members

Sweden, Norway, Denmark, Estonia, Latvia, Lithuania, Poland, Russia (St Petersburg), Georgia, Ukraine, Belarus, Moldova and WHO (Copenhagen and Geneva)

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October 13, 2011



- ▼ BARN has three legs to combat antimicrobial resistance
- Build laboratory capacity to detect resistance and for surveillance
- 2. Antibiotic stewardship
- 3. Infection prevention and control



- ▼ Collaboration in infection control to combat antimicrobial resistance and hospital infections
- Expansion of network and improvement of lab capacity for better AMR surveillance (enilabAMR)
- ▼ The Hand Hygiene Project (completed)
- ▼ The Happy Audit Project (completed)
- ▼ The Baltic ESBL Epidemiology Project (completed)
- ▼ The Perioperative Antibiotic Prophylaxis Project (completed)

April 28, 2016



"From declarations to actions"

All countries have guidelines Compliance to guidelines is not always perfect

October 13, 2011



There is a gap between

what we DOand what we KNOW

Some existing knowledge is not applied sufficiently

2016-04-28



The traditional approaches

Memo

February 2012 Date: All Staff

From: Management

Starting next Monday, all staff will be expected to implement the new procedure we just tested in the 3 West med/surg unit.

It worked there so in order to save time, everyone will now start doing the new procedure like 3 West.

Thank you for your cooperation.





"From declarations to actions"

All countries have guidelines

Compliance to guidelines is not always perfect

Grass-root level

Funding is spent on workshops to bring professionals together and exchange experience

October 13, 2011 12



It is the people in the system that are the best to know how to change it!

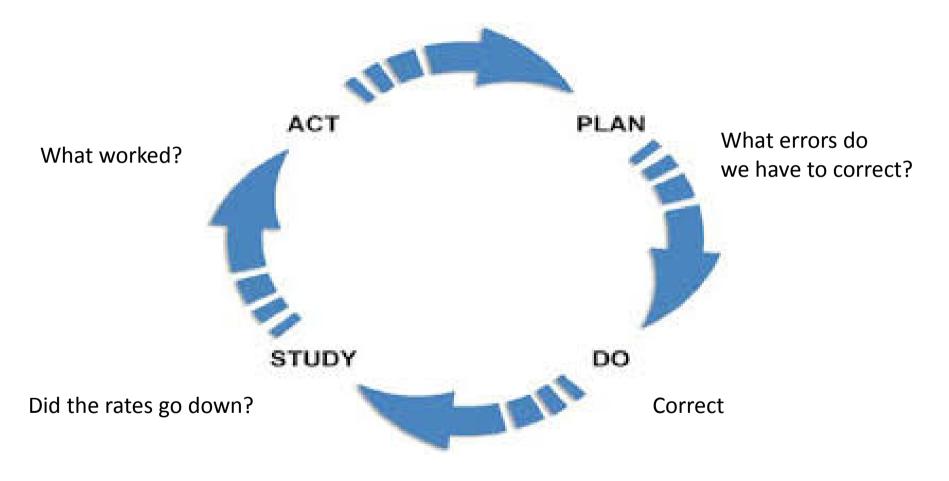


If you want anothter results, you have to do something in another way....

...and that way can be quite different depending on the variation in context!



Test small changes and evalute



2016-04-28



Hand Hygiene 2011-2014

Implementing the WHO guidelines for improving hand hygiene in health care

Latvia-Lithuania-St Petersburg -Sweden

WHO-Clean Care is Safer Care



Guide to Implementation

A Guide to the Implementation of the WHO Multimodal Hand Hygiene Improvement Strategy







Patient Safety

A World Alliance for Safer Health Care

WHO Guidelines on Hand Hygiene in Health Care

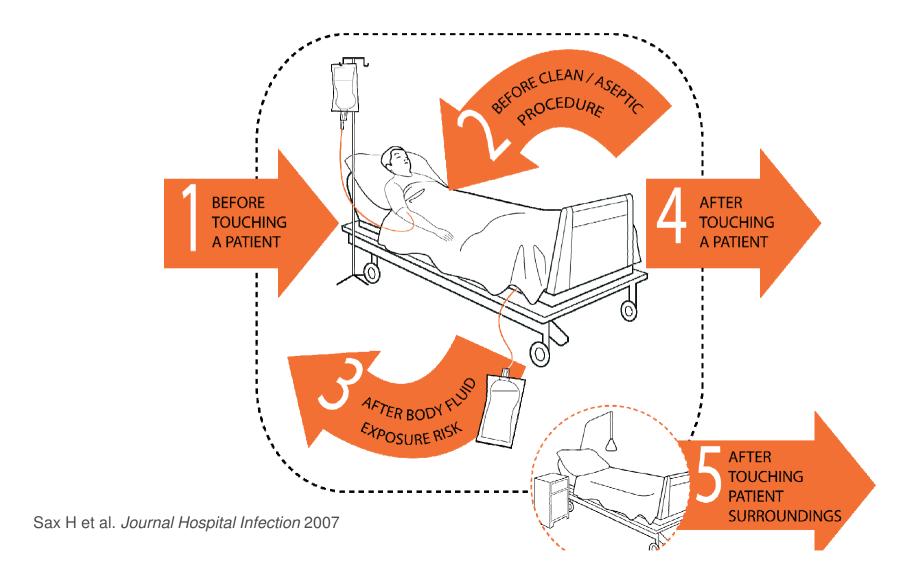
First Global Patient Safety Challenge Clean Care is Safer Care



28 april 2016 16

	1WHOhandhyg2009aug.pdf						
	2WHO_IER_PSP_2009.02_eng_Implementation_guide.pdf						
	3hhsa_framework_October_2010.pdf						
	4Sustaining_Improvement.doc						
	5Hand_Hygiene_Why_How_and_When_Brochure.pdf						
WHO	6Glove_Use_Information_Leaflet.pdf						
	7Guidance_Organizations_patients.doc						
Key	8Hand Hygiene Technical Reference Manual.pdf						
documents	9Ward_Infrastructure_Survey.doc						
	10Soap_Handrub_Consumption_Survey.doc						
	11How_To_HandRub_Poster.pdf						
	12How_To_HandWash_Poster.pdf						
	13Your_5_Moments_For_Hand_Hygiene_Poster_Chair.pdf						
	14Your_5_Moments_For_Hand_Hygiene_Poster.pdf						
	15Save_Lives_Screensaver.zip						
	16slides_for_education_session_low_res.ppt						
	17slides_for_hand_hygiene_coordinator.ppt						
	WHOhandHygieneDocuments.zip						

The "My 5 Moments for Hand Hygiene" approach



How to handrub



Apply a palmful of the product in a cupped hand, covering all surfaces;



Rub hands palm to palm;



Right palm over left dorsum with interlaced fingers and vice versa;



Palm to palm with fingers interlaced;



Backs of fingers to opposing palms with fingers interlocked;



Rotational rubbing of left thumb clasped in right palm and vice versa;



Rotational rubbing, backwards and forwards with clasped fingers of right hand in left palm and vice versa;



Once dry, your hands are safe.

To effectively reduce the growth of germs on hands,

handrubbing must be performed by following all of the illustrated steps.

This takes only 20–30 seconds!



- Accepted manuscript in the American Journal of Infection Control 2016
- ▼ Latvia Agita Melbarde
- ▼ Lithuania − Rolanda Valentiene
- ▼ Sweden- Olov Aspevall, Anna Hambraeus
- ▼ St Petersburg (Russia) Anna Liubimova

13 hospitals, 38 wards, 998 beds



To implement WHO SAVE LIVES: Clean Your Hands to reduce HCAI and ABR.

- abbreviate
- **▽** simplify
- adapt



Phases

- I. Preparation
- II. Baseline
- III. Intervention
- IV. Evaluation
- V. Reporting



Outcomes

- Wards infra strustructure
- Hand rub consumption
- Hand hygiene observation
- Assessment knowledge, attitudes and skills



- Education of all staff
- Posters and reminders
- ▼ Feed-back results of

Observations of compliance to hand hygiene

Hand-rub consumption

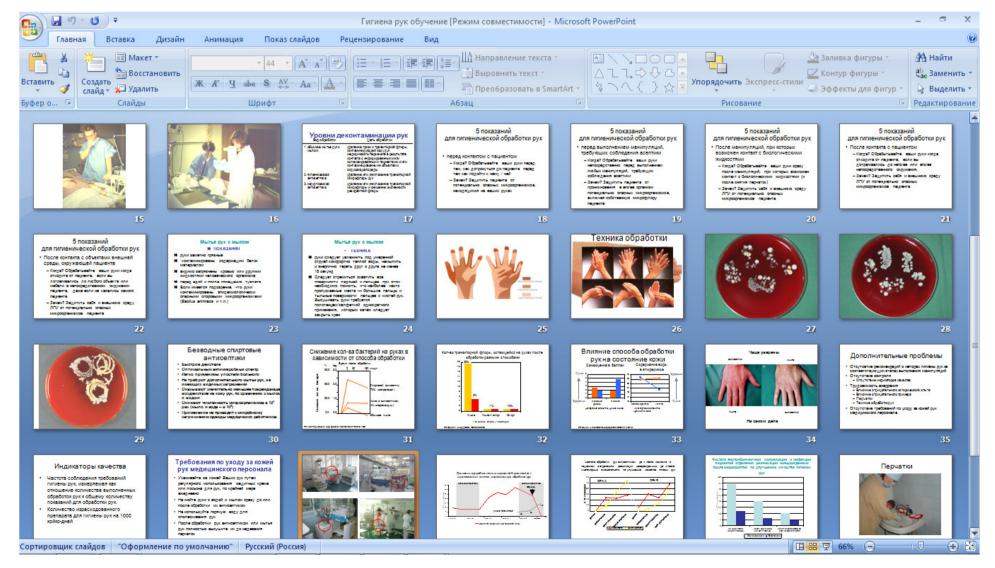
Attitudes and knowledge

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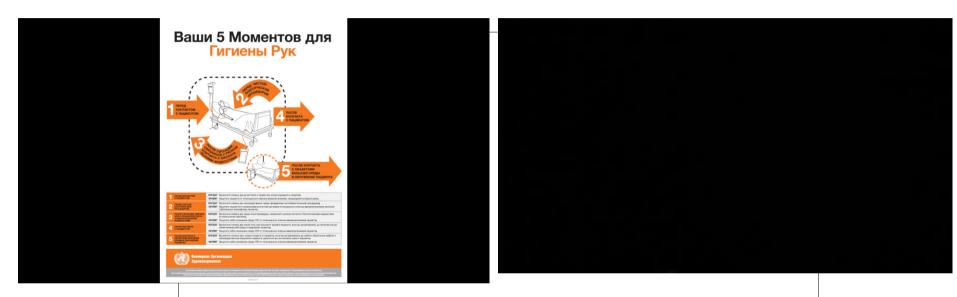
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Educational slides











Hand hygiene observation

Observed person/ procedure*	Profession	Before touching a patient	Before clean/ aseptic proced- ure	After body fluid risk	After touching patient	After touching patient surroundings	Rings watches and bracelets removed	Are gloves used correct ly?	Bare fore- arms	Correct in all aspects
1.										
2.										
3.										
4.										
5.										
6.										
7.										
8.										
9.										
10.										
Rate = >	No of correct/No of observed									

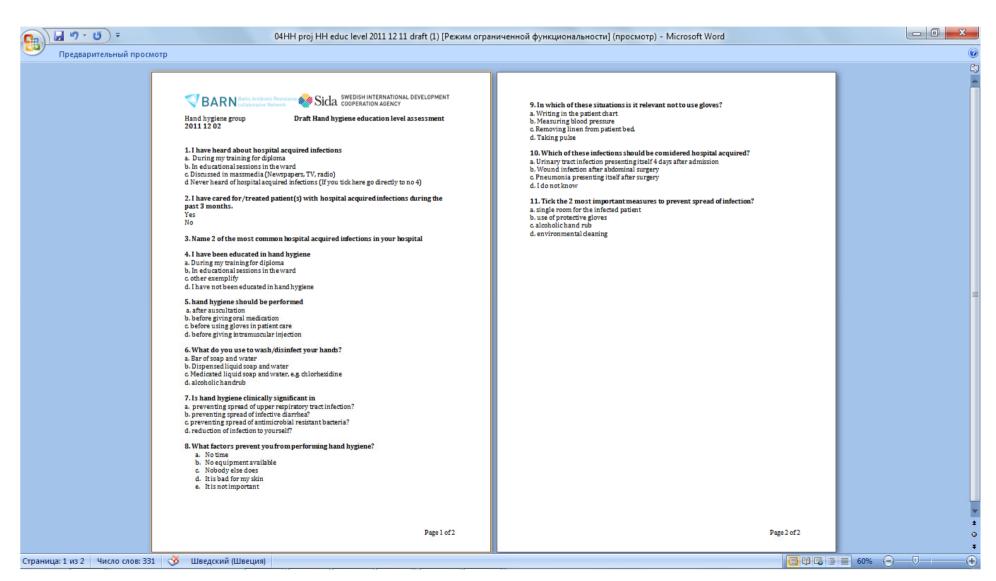


- ▼ During 2 weeks
- Calculated bottles used in the ward
- ▼ Volume in millilitres
- Calculated patent-days in order to compare wards
- ▼ Time consuming

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Hand hygiene education level assessment





- ✓ Interventions led to improvement of the hand hygiene
- Feeding back results is excellent educational tool for improvement
- ▼ Hand-rub consumption is a better outcome than observations of compliance



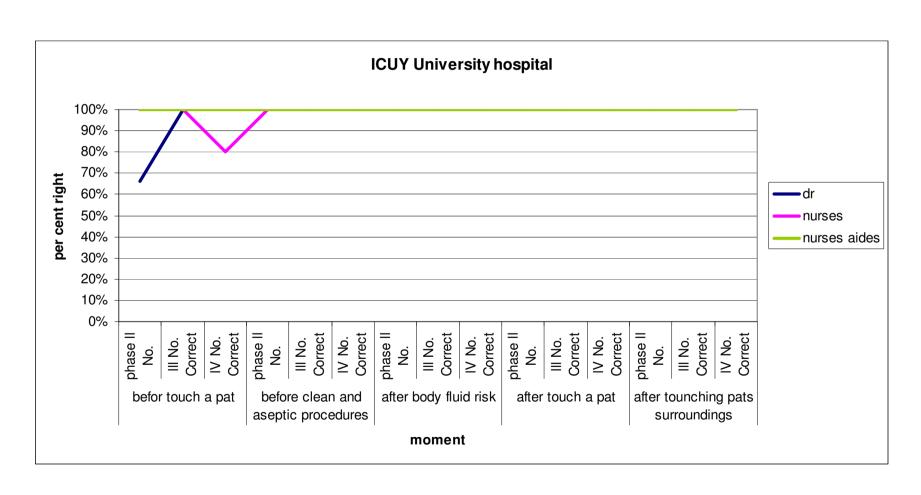
Hand hygiene observation

Number healthcare professionals were surveyed for hand hygiene compliance

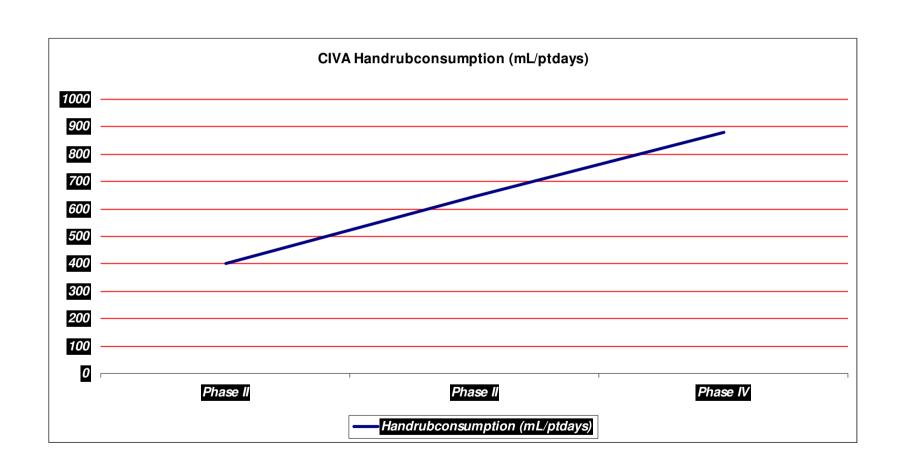
	Before interaction	After interaction
country		
Latvia	190	169
Lithuania	41	46
Russia	195	95
Sweden	30	30
Total	456	340



ICU Uppsala University Hospital



ICU Uppsala Univ Hospital





Intensive care unit St Petersburg Hospital named after Eykhvald

V Hand rub consumption

Project phase	No days	amount hand rub in liter	No patient days	mL handrub/pat ient day
2	14	2,2	84	26,1
3	14	10,5	70	150

Observation of compliance to hand hygiene practice (% correct)

Project phase	Before touching a patient	Before clean/ aseptic proced- ure	After body fluid risk	After touching patient	After touching patient surroun- dings	Rings watches and bracelets removed	Are gloves used correctly ?	Bare fore-arms	Correct in all aspects
2	60	100	75	80	40	56	60	70	10
3	95	100	100	83	85	80	100	100	80



Intensive care unit St Petersburg Hospital of Peter the Great

V Hand rub consumption

Project phase	No days	amount hand rub in liter	No patient days	mL handrub/pat ient day
2	14	1,2	70	17,1
3	14	1,4	42	33,3

Observation of compliance to hand hygiene practice (% correct)

Project phase	Before touching a patient	Before clean/ aseptic proced- ure	After body fluid risk	After touching patient	After touching patient surroun- dings	Rings watches and bracelets removed	Are gloves used correctly ?	Bare fore-arms	Correct in all aspects
2	60	56	82	78	51	63	72	100	29
3	96	96	96.0	01 2	72 2	91 3	70 2	100	62,5

Conclusion

Lessons learnt

- Hand hygiene compliance rates increased, especially among physicians
- Compliance with hand hygiene is higher among nurses before and after intervention



Latvian experience re doctors

- Educational sessions for doctors not applicable, because they think that they know all problems.
- Only 3 wards from all BARN wards has educational sessions with doctors
- They do not think it is a doctors problem



✓ Problems: doctors belong to clinic not ward doctors not easy to assemble doctors function diagnose and treat pats and not to care

▼ Success factor: Present cases
 Evidence
 Epidemiology



- Latvia
- ▼ Lithuania

Reported skin problems from alcoholic hand rub
Cheep brands with no emolient
Disappeared after education in how to hand rub

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Next project

Started in autumn of 2015



- Reduce CAUTI
- Reduce urinary catheter-days
- Reduce number of urinary catheters

By implementing evidence into practice
Starting in small scale
Implement in whole hospital

Evidence based guidelines



Prevention of hospital-acquired infections A practical guide





GUIDELINE FOR PREVENTION OF CATHETER-ASSOCIATED URINARY TRACT INFECTIONS 2009

Carolyn V. Gould, MD, MSCR ¹; Craig A. Umscheid, MD, MSCE ²; Rajender K. Agarwal, MD, MPH ²; Gretchen Kuntz, MSW, MSLIS ²; David A. Pegues, MD ³ and the Healthcare infection Control Practices Advisory Committee (HICPAC) ⁴

² Center for Evidence-based Practice University of Pennsylvania Health System Philadelphia, PA

³ Division of Infectious Diseases David Geffen School of Medicine at UCLA Los Angeles, CA





Journal of Hospital Infection 86S1 (2014) \$1-\$70



Available online at www.sciencedirect.com

Journal of Hospital Infection

[ournal homepage: www.elsevierhealth.com/journals/jhin



epic3: National Evidence-Based Guidelines for Preventing Healthcare-Associated Infections in NHS Hospitals in England

H.P. Loveday**, J.A. Wilson*, R.J. Pratt*, M. Golsorkhi*, A. Tingle*, A. Bak*, J. Browne^a, J. Prieto^b, M. Wilcox^c

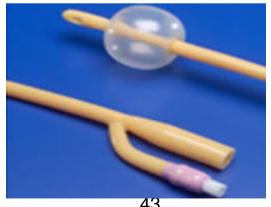
- a Richard Wells Research Centre, College of Nursing, Midwifery and Healthcare, University of West London (London).
- ^b Faculty of Health Sciences, University of Southampton (Southampton).
- 6 Microbiology and Infection Control, Leeds Teaching Hospitals and University of Leeds (Leeds).







- I. Alternatives
- II. Material and size
- III. Instertient et et la FOCUS!
- IV. Maintainance routines
- V. Daily review of removal





- Estonia 3 hospitals and 13 departments
- Latvia 1 hospital and 1 department
- Sweden 1 hospital and 5 departments
- Moldova 1 hospital and 3 departments
- Ukraine 1 hospital and 2 departments

Total: 10 hospitals and 27 departments



- Reduce CAUTI
- Reduce urinary catheter-days
- Reduce number of urinary catheters

By implementing evidence into practice
Starting in small scale
Implement in whole hospital

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Main conclusions



- Everybody have access to the knoweledge tha main issue is about implementation
- ▼ Post-soviet countries have another tradition of reporting HAI
- ▼ Baltic countries have been there and moved on Speak Russian after some time Exchange experience Provide "road-map" for improvements
- Swedish people do not have the same experience and can't speak the language
- Sweden provide the platform for meetings

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Infection prevention and control leg

Improvement work is not research to develop new medical knowledge

.... it's a way to put evidence and research into practice!



- Few doctors and nurses work with infection control
- ▼ International perspective
- Comparison between countries
- Learn from others
- Educational package consisting of practical tools
- ▼ Include physiscians in workshop

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▼ Tack för er uppmärksamhet
 Paldies par uzmanību
 Dėkojame už Jūsų dėmesį
 Tänan teid tähelepanu eest
 Dziękuję za uwagę
 Спасибі за увагу
 Vă mulţumesc pentru atenţie
 Спасибо за внимание

Thank you for attention