The Swedish model of Infection Control – so far a successful story but…..
IFIC Buenos Aires 2013
Eva Skyman PhD Infection Control and Hospital Hygiene, ICN
World Air Traffic

Bild: www.openflights.org
Sweden is a kingdom

9.5 million inhabitants
Sweden is divided into 2 Regions and 19 Counties

From north to south it is 1 572 km and the largest width is about 500 km
Sahlgrenska University Hospital
founded by Pehr Dubb
1782
by donation from
Niklas Sahlgren
16,400 employees

including

- 5,500 nurses
- 4,000 assistant nurses
- 2,200 physicians
- 1,200 physiotherapists, occupational therapists, dieticians, speech therapists, social workers, etc.
- 1,100 hospital technicians and biomedical analysts
- 1,200 administrators
The Swedish organization

National Board of Health and Welfare  SoS

Swedish Institute for Communicable Disease Control  SMI

Local Institutes (region/county)  SME

Control County Medical Officer  Smittskyddsläkare
(regional authority)

Department for Infection Control  Vårdhygien
and Hospital Hygiene (region/county)
National Board of Health and Welfare

Government agency under Ministry of Health and Social Affairs
Central authority for health care and social services

- Support, expert influence
- Regulation and supervision
- Infection Control
Legislation support on Infection Control

1982 The Swedish Health and Medical Services Act
2005 Patient safety and guarantee of quality

2006 Additional paragraph:
The caregiver should plan and organize the premises and equipment, the staffs competence and assure assessment to IC experts to provide care of good hygienic standard.

2007 Additional regulation on Basic hygiene: All staff shall during examination, care and treatment or other direct contact with patients observe this regulation

SU direktiv: basic hygiene routines, disinfection, working clothes
It is the mission of SMI to be a government expert agency, to monitor the epidemiological situation for communicable diseases in humans.

SMI is also responsible for promoting protection against such diseases.
Three close participants

The Department of Infectious diseases:
Responsible for infectious patients

Local dept for the Swedish Institute for Communicable Disease Control:
Public authority

Dept for Infection Control and Hospital Hygiene:
Advisory Hospital Epidemiology

Dept for Infection Control And Hospital Hygiene:

SME
Infection control expertise

- Physician and nurse form a team and have close cooperation with microbiological labs
- Qualified by several years of experience, learning by doing and attending given courses
- Multiprofessional Bachelor of Science in Infection Control or Diploma in Infection Control.
- Master in Public Health
Infection control – a team working as experts on matters for safe care for patients and safety of the staff

- Form and implement guidelines and memos
- Train and educate hospital staff (all categories)
- Measure compliance to basic hygiene practices monthly

In addition we handle outbreaks, advise on construction, purchasing issues and control disinfection and sterilisation methods and equipment
Vårdhygien
Vår information vandrar sig första hand till personal inom Sahlgrenska Universitetssjukhuset. Kungliga sjukhus, Fortuna sjukhus, Göteborgs stadssjukhus och Café Lundby närsvårdscenter.

Rena händer spelar roll

Handhygien för patienter och besökande - till information och beskrivning av informationsmaterial.

Aktuellt

Handlingsplan för ESBL-carry och MRGS
27 juni 2012
DirektivHandlingsplan för ESBL-carry och multiresistenta gramnegativa stäv (MRGS) är publicerat.

Klinisk mikrobiologi söker läkare på Vårdhygien och Bakteriologiska laboratorium
20 juni 2012
Vi söker en specialistlärare för Vårdhygien (tillsvidare ansökning) och en läkare till Bakteriolologiska laboratorium (till att börja med ett förarbetasäte).

Vem på Vårdhygien ska vi vända oss till?
10 maj 2012
För att konsultera rätt kontaktperson på Vårdhygien finns en förteckning över sjukhus, områden/verksamheter och respektive kontaktlinje på Vårdhygien.
Resident flora
Door handle

Floor

Elevator button

Transient flora
Basic hygiene practices

• The most important measure to avoid spread and transmission in caring for patients
• Protects patients and health care professionals
• Shall be performed by all professionals
Hand wash

Time consuming
Damaging the hands
Hand disinfection

Rings after hand disinfection
Consider your work!

Pay attention to the fact that wearing gloves could be a risk!

Don’t forget – hand disinfection after glove use
### Compliance to Basic Hygiene Routines per month

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**Diagram:**

- Basala hygienrutiner
- Klädrégler

**Source:** Eva Skyman, Dept Hospital Infection Control 2013
Infection Control – a team working as experts on matters for safe care for patients and safety of the staff

- fighting antibiotic resistance
- monitoring the hospital level of health care associated infections and use of antibiotics
- monitoring micro organisms of infection control interest
- participating in investigation and epidemiology of health care associated infections
Resistant bacteria

MRSA
VRE
ESBL
Pseudomonas
Acinetobacter
Cases of resistant bacteria in Sweden 2001 – 2012 (8 Nov)
Swedish Institute for Communicable Disease Control
Health Care associated infection

Any infectious disease the patient contracts due to hospital care, examination or treatment within 48h.

Health Care associated infection also includes an infection affecting the staff as a consequence of their duty.

- 5 - 10% of all patients are affected
- 1/3 can be avoided by compliance to ”Basic Hygiene Routines”
Prevalence of Hospital Associated Infections in Sweden Spring 2013
Communicable diseases via

- Contact
- Blood
- Air
- Food
Consider all blood as potentially infectious!!!

Apply the same routine to all patients without exception.
Airborne transmission
Foodborne transmission
Swedish Association for Infection Control (SAIC)

A forum for persons interested in:
• prevention of infections in healthcare, hospital and dental areas
• infection epidemiology
• disinfection and sterilisation
• medical devices which are at potential risk of infection

600 members, working groups, national documents, education, registration of hospital infections. Collaboration in Sweden, the Nordic countries and IFIC
Always moving forwards
Thank you for your attention!
MRSA Notification card

The aim was to evaluate if and how the patients used the card and additionally get their own experiences of showing the Notification card.