



Theme: Patient security-
a quality improvement programme

- **Studies performed:**
- Pressure ulcers xx2
- Eating difficulties, nutrition xx2
- Basic hygiene/ MRSA in wounds x1

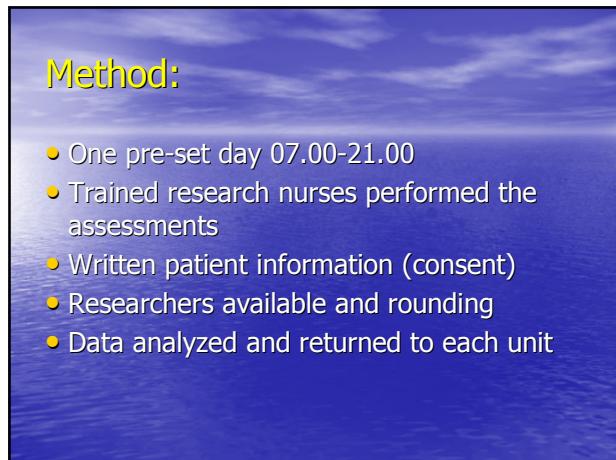
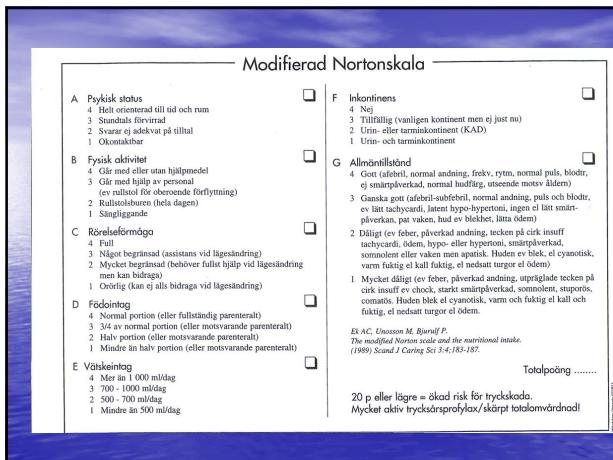
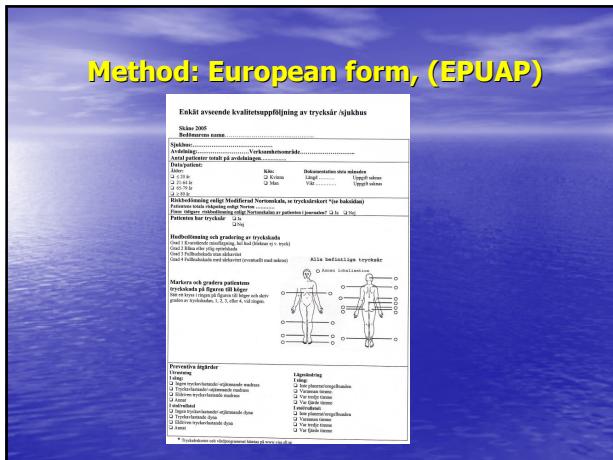
"We do not have any pressure ulcers at our ward"

Prevalence or incidence?

- *Prevalence:* Snap-shot picture (one day)
- *Incidence:* How many p.u. develop during a care period?

Pressure ulcers, point prevalence studies, Fjordungssjukradhusid, 2005 + 2007

- **How common?**
- **What grades and locations?**
- **Patients at risk?**
- **Prevention?**



Results 2005 and 2007

- Total pat 119
- Particip. 107
- External loss 13%
- Pressure ulcers N= 16
- Prevalence 16%
- Grade 1 88%
- Grade 2 n=4
- Grade 3 0
- Grade 4 0
- Total pat 118
- Particip 110
- External loss 7%
- Pressure ulcers N=22
- Prevalence 20%
- Grade 1 96%
- Grade 2 n=2
- Grade 3 0
- Grade 4 0

Age, Sex

- | | |
|---------------|---------------|
| • <u>2005</u> | • <u>2007</u> |
| • 21-64 n=27 | • 21-64 n=45 |
| • 65-79 n=31 | • 65-79 n=30 |
| • ≥80 n=35 | • ≥80 n=30 |
| • Female 52% | • Female 59% |
| • Male 45% | • Male 39% |

Risk assessment

- 2005
- 0%
- 2007
- 46% (p=.000)

Mean Norton Score (cut off point= 20) 2005 and 2007

- | | | |
|---------------------------|------|------|
| • With pressure ulcers | 22,2 | 21,1 |
| • Without pressure ulcers | 24,3 | 24,4 |
| • Mean total score | 23,9 | 23,7 |

Location of pressure ulcers

- | | |
|------------------|------------------|
| • <u>2005</u> | • <u>2007</u> |
| • Sacrum 18 % | • Sacrum 6,3% |
| • Heels 35,1% | • Heels 37,6% |
| • Feet total 41% | • Feet total 77% |
| • Troch 0% | • Troch. 0% |
| • Tuber 10,8% | • Tuber. 6,3% |
| • Elbows 5,4% | • Elbows 6,3% |
| • Scapulae 5,4% | • Scapulae 0% |
| • Occiput 0% | • Occiput 0% |

Feet total 77%

- | | |
|-----------------|------------------|
| • <u>2005</u> | • <u>2007</u> |
| • Toes 5,4% | • Toes 27,1% |
| • Malleoli 2,7% | • Malleoli 10,5% |
| • Heels 35,1% | • Heels 37,6% |

Prevention ?

Prevention

- **2005**
 - Equipment in bed 76%
 - Equipment chair 34%
 - Turning chair 2%
- **2007**
 - Equipment in bed 75%
 - Equipment chair 5%*
 - Turning chair 5%**
 - *P.023
 - **P=003

Comparison, PREVALENCE

- **Akureyri**
- Prevalence 18%/20%
- 23,9% (Uppsala),
• 13,2% (Enköping),
• 27% Ängelholm,
• 25% Simrishamn
• 15% Kristianstad
• 17% Hässleholm
• 8,6% Karolinska
• Approximately 22% Continental Europe

All hospitals, Skåne, prevalence, grades (Akureyri 18/20%, Grade 3-4 0%)

CSK	15 %	13% grade 3-4
41/276		
Ängelholm	27%	2% grade 3-4
41 /151		
Hässleholm	17%	15% grade 3-4
15/89		
Simrishamn	25%	19% grade 3-4
17/70		

Comparison, South Atlantic islands (Azores, Madeira, Canary Islands)

- N=169
- Prevalence: 14,2%
- Grade 1 15,4%
- Grade 2 14,8%
- Grade 3 29%
- Grade 4 40,8%

Locations, hospitals only

- **Akureyri 2007**
 - Sacrum 6%
 - Heels 38%
 - Troch. 0%
 - Tuber 11%
- **Skåne 2007**
 - Sacrum 15%
 - Heels 31%
 - Trochanter 7%
 - Tuber 10%
- **Azores 2007**
 - Sacrum 35,5%
 - Heels 16,0%
 - Trochanter 18,9%
 - Other 29,6%

Structured risk assessment

- 2005: 0%
- 2007: 46% ($p=.000$)

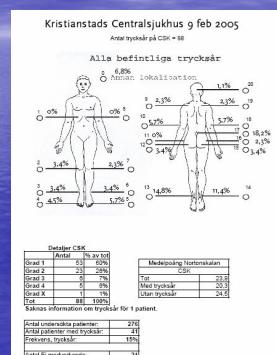
Norton Score

- **Akureyri**
- Patients with pressure ulcers:
($M=21,1$)
- Without pressure ulcers
($M=24,4$)
- Total score $M= 23,8$
- **Skåne**
- Patients with pressure ulcers:
($M=20,4$)
- Without pressure ulcers
($M= 25$)
- Total score $M=24,1$

Prevention

- | | |
|-------------------------------------|-------------------------------------|
| • Akureyri | • Skåne |
| • High risk patients | • High risk patients |
| • ($\text{Norton} < 20$) | • ($\text{Norton} < 20$) |
| • 76% some prevention | • 24% some prevention |
| • Patients with pressure ulcers 78% | • Patients with pressure ulcers 61% |

Results back to each ward

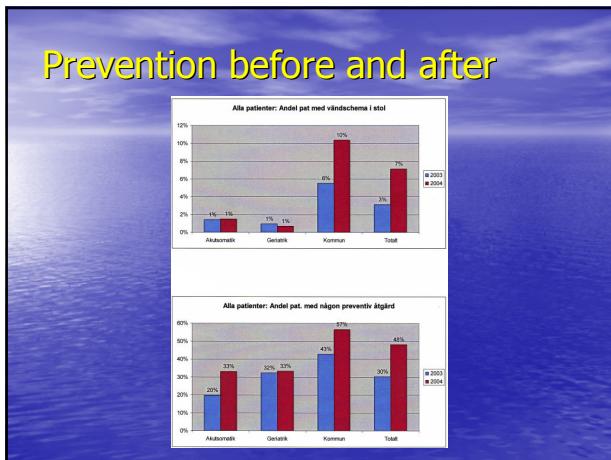
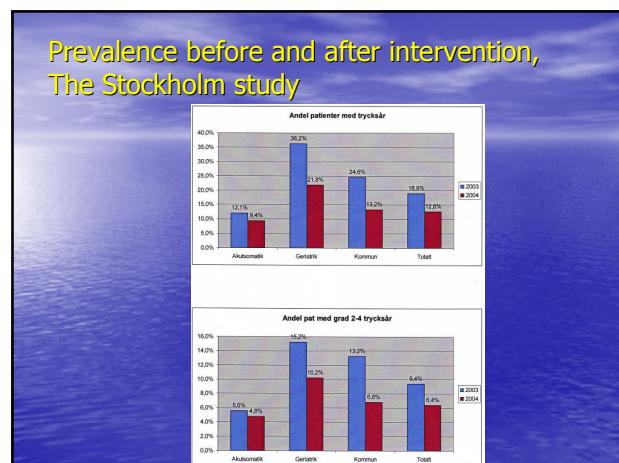


Is that enough?

The Stockholm studies 2003-2004

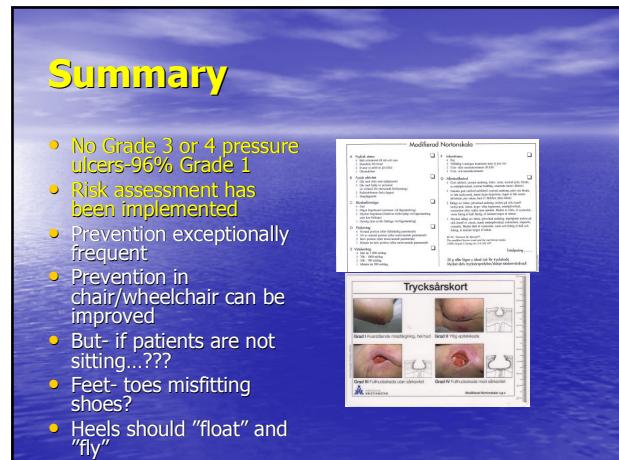


Intervention: Care-programme, p.u.cards, education one afternoon



- Interventions 5-point-programme**
- Modified Norton Scale- all patients in bed/wheelchair. <20= high risk patient-document
 - Inspect skin at pressure locations upon arrival- regularly in bed-and wheelchair-ridden patients-document
 - Prevention both in bed **and chair document**
 - "Floating" and "Flying" heels-document
 - One nurse responsible/ward-responsibilities

- Continued interventions**
- Waiting for updated EPUAP guidelines to be implemented
 - PUCLAS- training



Sincere thanks to

- Management of the hospital
- Olina Torfadottir
- All nurses involved
- All staff and chief nurses
- Secretaries

To Iceland with love, gratitude and humble admiration- thank you for the invitation!



Thank you for your attention!