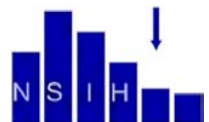


Surveillance van Postoperatieve Wondinfecties

Methodologische vragen en eerste resultaten

Carl Suetens, Hedwig Carsauw

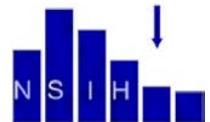
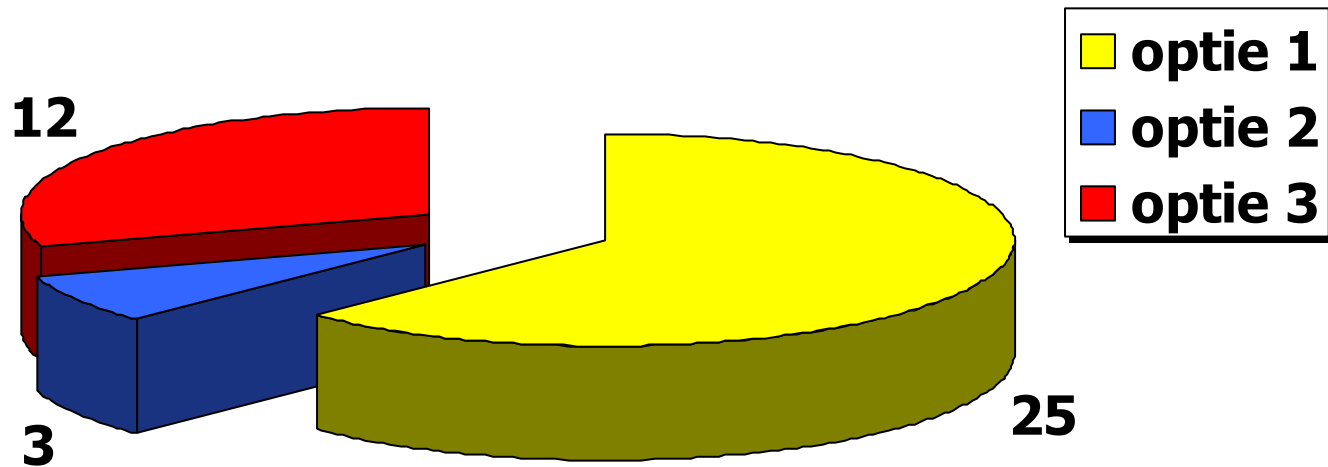


Deelname NSIH-PWI surveillance

- 02/2003: data ontvangen van 42 ziekenhuizen
- Operatiecategorieën: minstens alle voor KD verplichte categorieën
- CABG data: 3 ZH
- AB-profylaxis: 10 ZH (niet altijd systematisch!)



Keuze Registratie-optie



Kwaliteitsdecreet - PWI

- Registratie 6 maand om de drie jaar
- Voor KD mag SSI-registratie gespreid worden over 2 jaar indien VAP & SEP in 1 jaar, dwz:

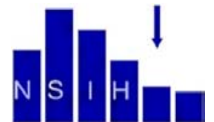
ofwel

jaar 1 en jaar 2: ALLE operatiecateg. x 3 mnd

ofwel

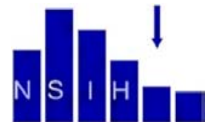
jaar 1: een deel v/d operatiecateg. x 6 mnd

jaar 2: overige operatiecateg. x 6 mnd

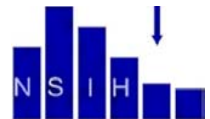
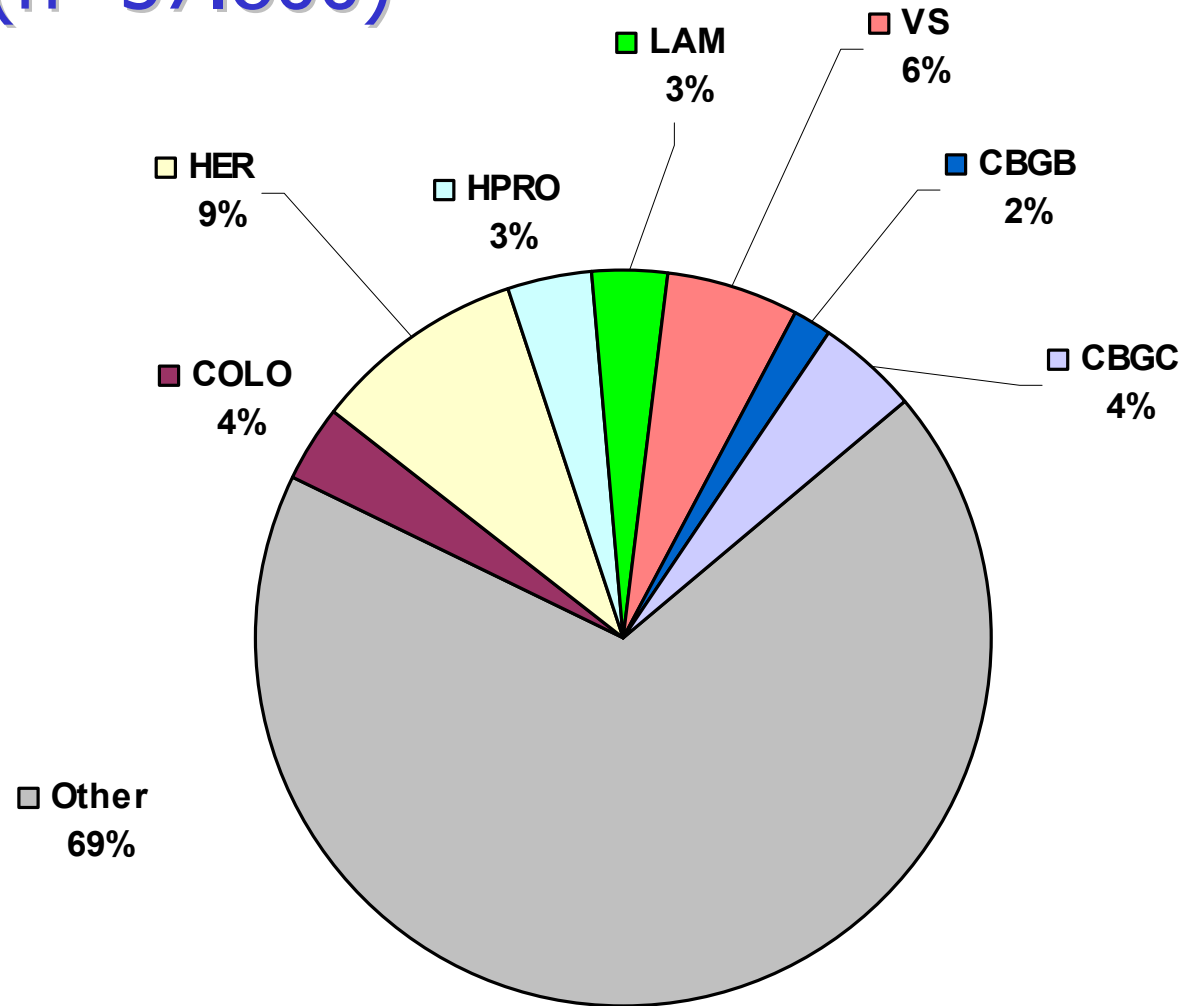


Kwaliteitsdecreet : Selected NNIS-categories

1. Colon surgery (COLO)
2. Herniorrhaphy (HER)
3. Hip prosthesis (HPRO)
4. Laminectomy (LAM)
5. Vascular surgery (VS)
6. Coronary bypass (CBGB & CBGC)



KD-operatiecategorieën in NSIH 1992-96 database (n=57.800)



Risico stratificatie

- Risicofactoren voor postop. wondinfectie, o.m.:
 - Wondklasse (chirurg)
 - ASA score (anesthesist)
 - Duur ingreep
 - (Laparoscopie) voor COLO, CHOL, APPY, GAST
- => **NNIS risico index**
- Bij ontbreken van één van deze factoren:
geen risicostratificatie mogelijk



Missing variables NNIS risk index

	Total (%) n=7938	p10	p25	p50	p75	p90
ASA score	9.3%	0.0%	0.0%	0.0%	4.0%	20.2%
Wound class	4.8%	0.0%	0.0%	0.0%	0.0%	6.7%
Duration of intervention	1.1%	0.0%	0.0%	0.0%	0.5%	3.6%

>=1 missing = 12.9%



Date end follow-up IN HOSPITAL: scherm patient data

NSIHwin Patient Data

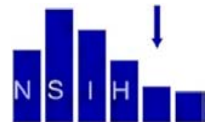
ICU SEP SSI

Hopidn: 1118 AZERTY987
Hopname: olvrouw

Patient Input Patient List Patients ICU Patients SEP Patients SSI

Last Name: JJJJ	Admission number: AZERTY987	▶*
First Name: Abbu	Admission date: 12/01/2003	✕
Birth date: 21/06/1965	Service: BR/	📄
Gender: M	Ward:	
SIS-number (o):	Date end follow-up in hospital: 29/01/2003	←
Patient origin: Community	<input checked="" type="checkbox"/> Discharged/death ?	
	Status at end follow-up: Unknown	

Record: 4 of 4



Date end follow-up IN HOSPITAL : scherm SSI-Patient Follow-up

NSIHwin Surveillance of Surgical Site Infections

Adm. date: 12/01/2003 Patient name: JaJa Abbu NSIHwin V3.03

Admission number: []

Surgical data Patient Follow-up Surgical Site Infection Antibiotic prophylaxis

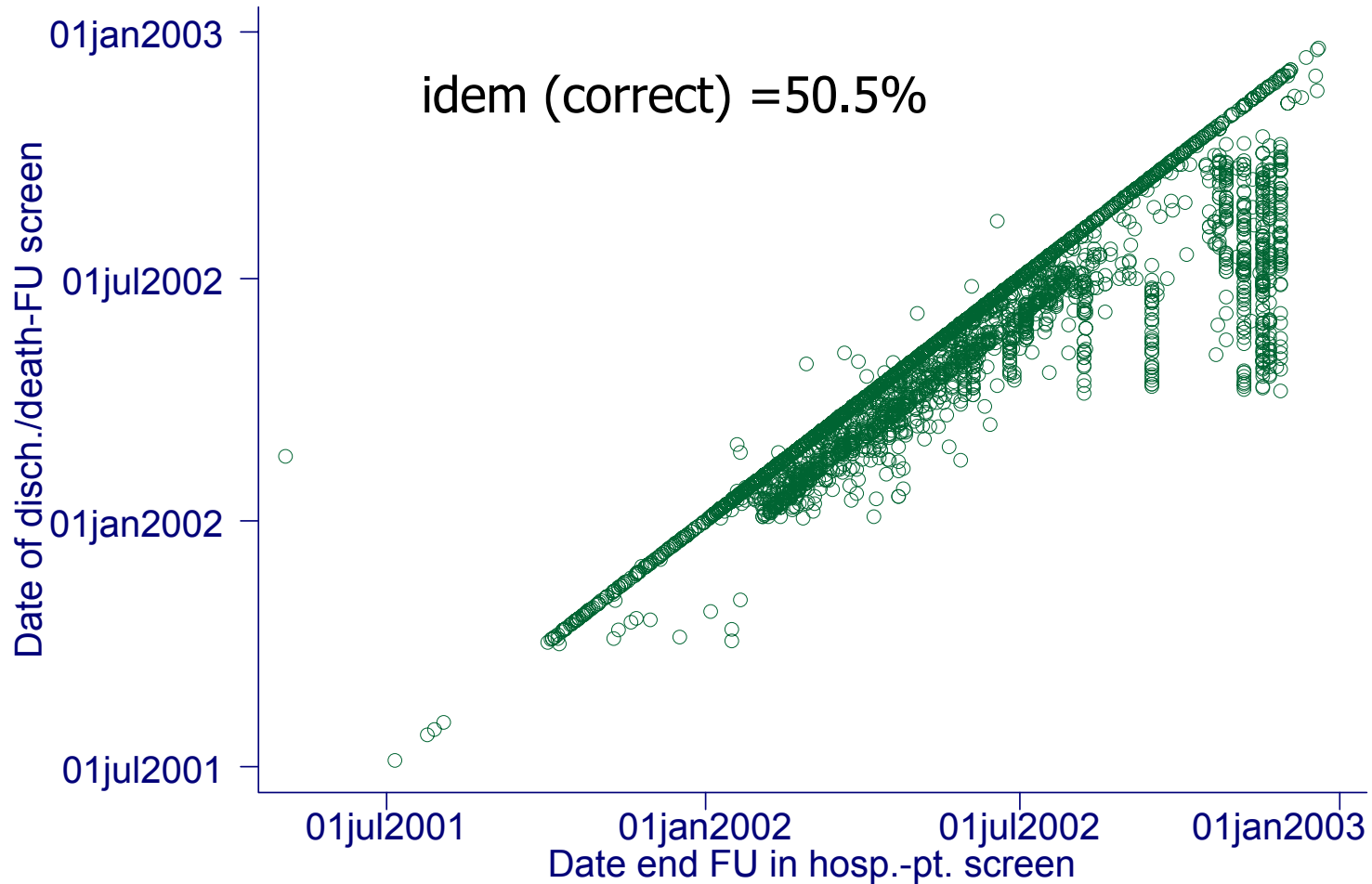
Date of discharge/ death (in hospital) : [] Status at discharge: []

Post Discharge data available : If Yes : Date of last data : []
Data provider : []

Patient seen post-discharge : Date of last contact : [] < 30 d
 >= 30 d after surgery
Type of last contact : []



Date end follow-up in hospital



SSI denominator data (option 3)

Surgical Site Infections Aggregated Denominator Data

Hospital code: 1118

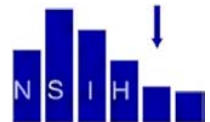
Start date: 01/01/2003 End date: 31/01/2003

NNIS Op. proc. category: COLO

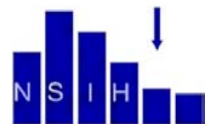
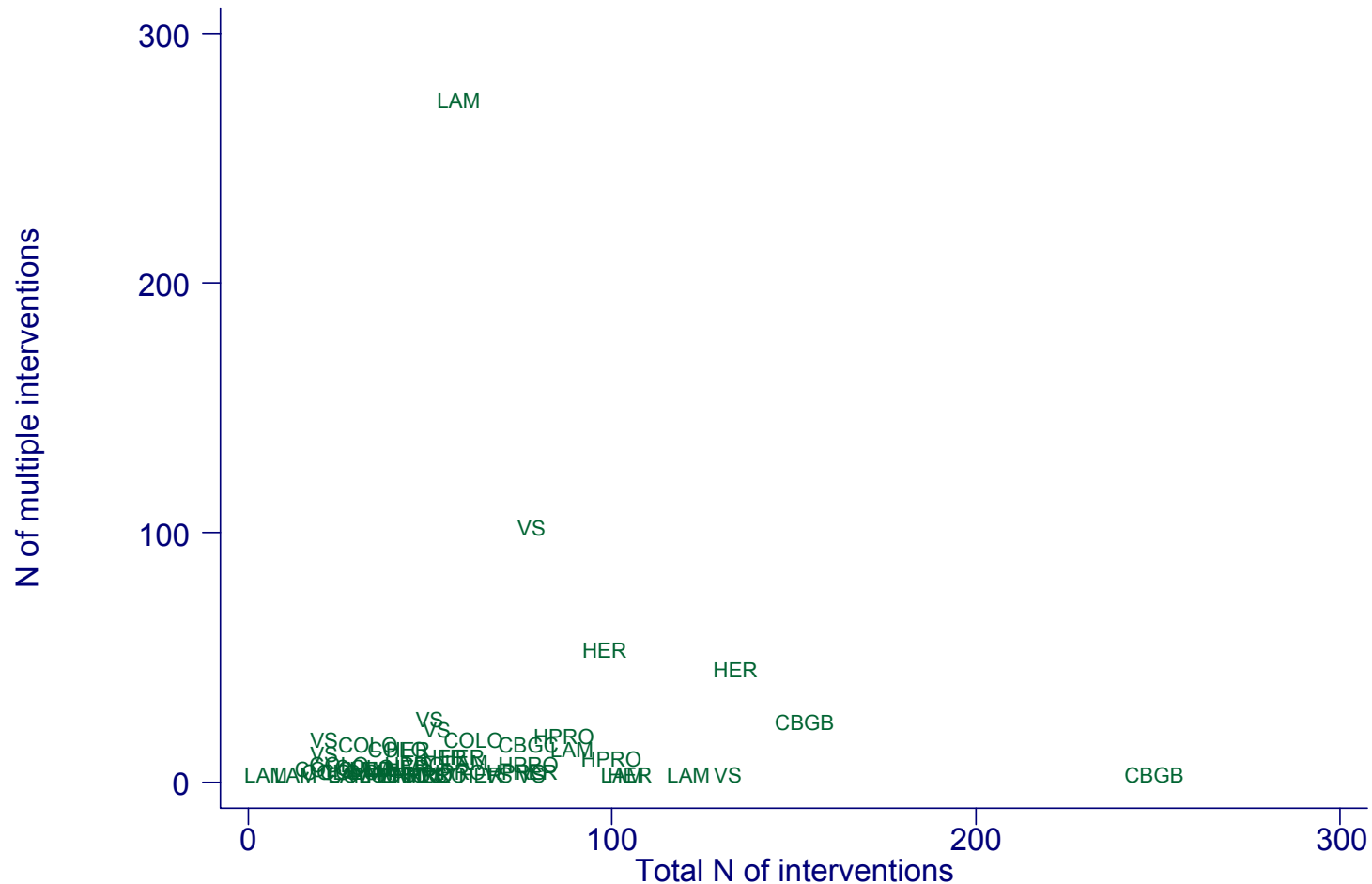
Surgeon: 015

	Interventions		No. of pat. days post-op	No. with follow-up < 30 days
	Total num.	Multiple		
NNIS risk index cat. -1 (M)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
NNIS risk index cat. 0	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
NNIS risk index cat. 1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
NNIS risk index cat. 2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
NNIS risk index cat. 3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
NNIS risk index unidentified	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Total	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

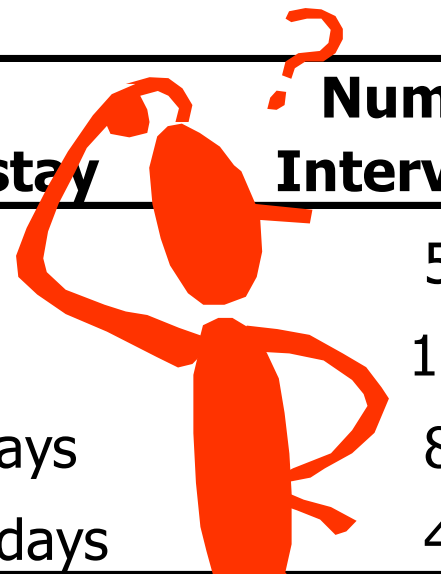
Record: 8 of 8 (Filtered)



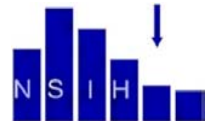
Option 3 : Total N of interventions > ?? N of multiple interventions



N of post-operative patient-days in hospital (option 3)

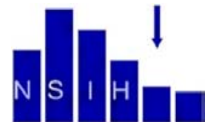


Length of stay	Number of Interventions	N with follow-up of <30 days
0 days	569	73
1-29 days	1556	180
exactly 30 days	802	676
exactly 365 days	467	360

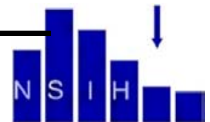


Preliminary results

- option 1-2: 7880 interventions, KD 92.6%
- M:F 1.37
- Age: incomplete... new export?

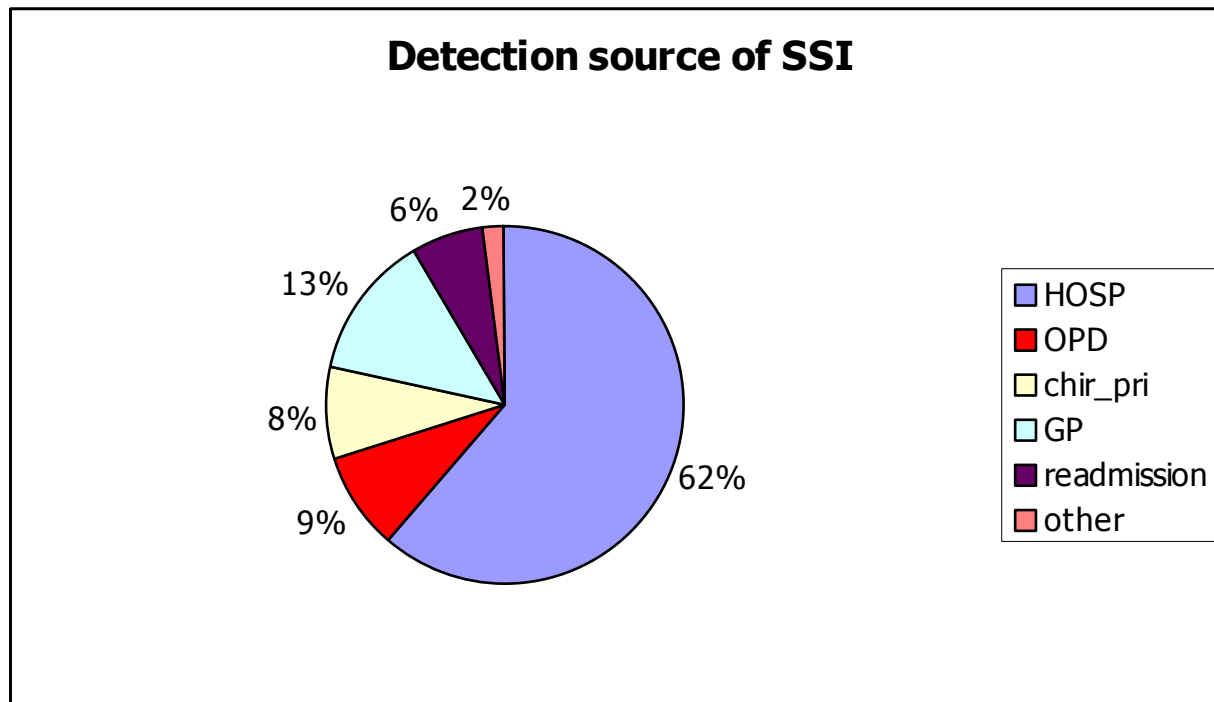


Intervention category	NNIS risk index	N	N infections <30D	% SSI '01-02	% SSI '92-96
HER	0	1668	20	1.2%	0.5%
	1	307	4	1.3%	0.9%
	2,3	29	4	13.8%	10.8%
	Unkown	249	2	0.8%	
COLO	M	29	1	3.4%	
	0	231	19	8.2%	2.5%
	1	307	24	7.8%	6.2%
	2,3	140	10	7.1%	29.7%
	Unkown	90	3	3.3%	
HPRO	0	606	11	1.8%	0.9%
	1,2	582	13	2.2%	1.3%
	Unkown	130	1	0.8%	
LAM	0	512	6	1.2%	0.5%
	1,2	226	5	2.2%	1.4%
	Unkown	145	1	0.7%	
VS	0	822	9	1.1%	1.2%
	1	760	14	1.8%	2.6%
	2,3	122	11	9.0%	4.8%
	Unkown	282	4	1.4%	

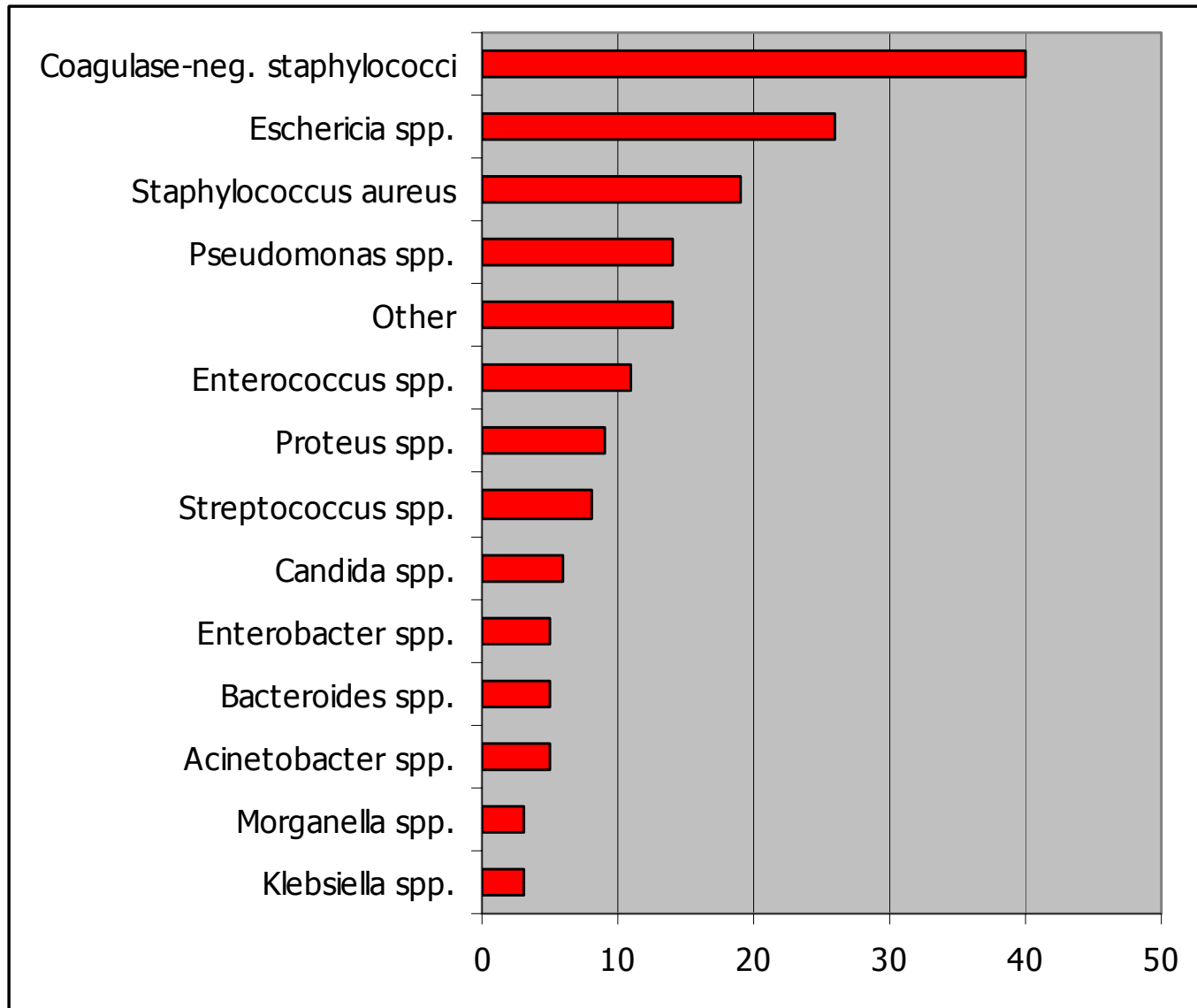


Post-discharge infections

- 1992-1996: 12.6%
- 2001-2002: 34.5% of SSI \leq 30D detected after discharge from the hospital

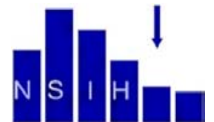


Micro-organisms isolated in SSI



Discussion

- Participation: all hospitals but 1 Flemish ~ KD
- Option 3: data check necessary before analysis
- Methodological problems seem to be concentrated in same hospitals
- Overall SSI rates mostly higher in 2001-2002 than in 1992-1996 ~ enhanced post-discharge surveillance



Conclusions

- Good participation in Flandres, more « sensitizing & information » necessary in Walloon region
- Training in methods
- assistance in electronic surveillance
- Further simplification of protocol (option 3) ~ HELICS ? (July 2003)

