

Surveillance des Infections du Site Opérateur

Questions méthodologiques et résultats préliminaires

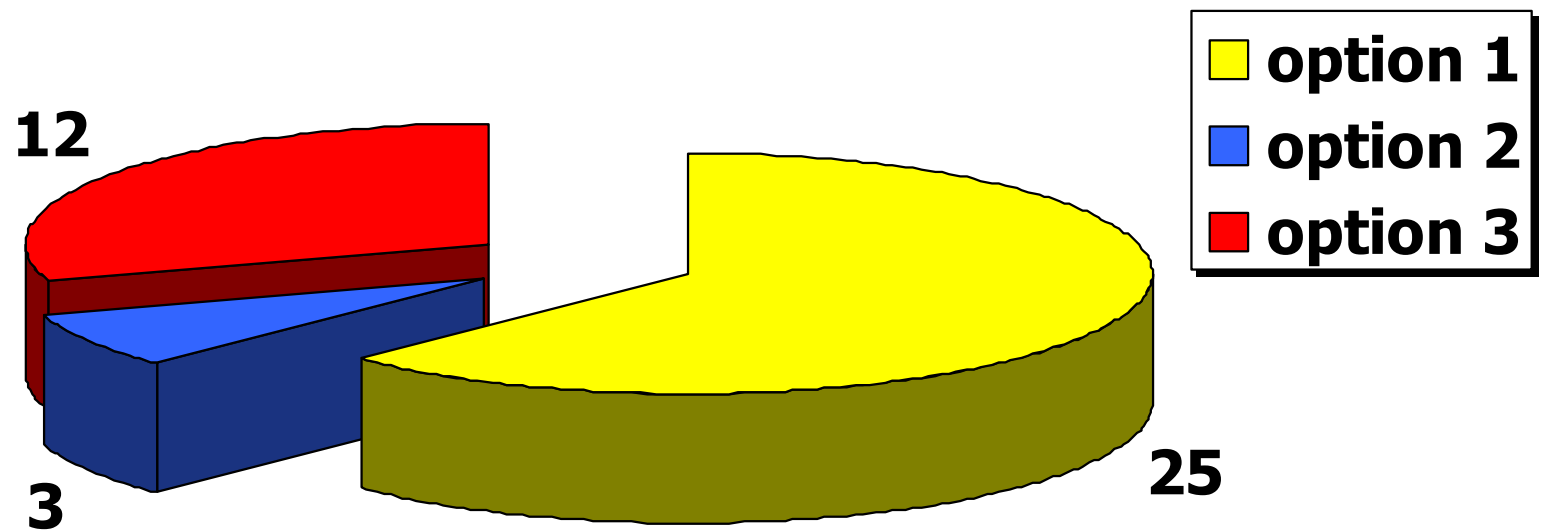
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Participation à la surveillance ISO

- 07/2001-02/2003: données de 42 hôpitaux
- Interventions: majorité = catégories du Décret de Qualité de la comm. flamande (DQ)
- données CABG: 3 H
- prophylaxie AB: 10 H (parfois incomplet)

Choix de l'option du protocole



Décret de Qualité - ISO

- 6 mois tous les 3 ans
- Pour le DQ la surveillance ISO peut être répartie sur 2 ans si les indicateurs PAV & SEP ont été combinés:

OU

année 1 et 2: TOUTES les catégories d'intervention x 3 mois

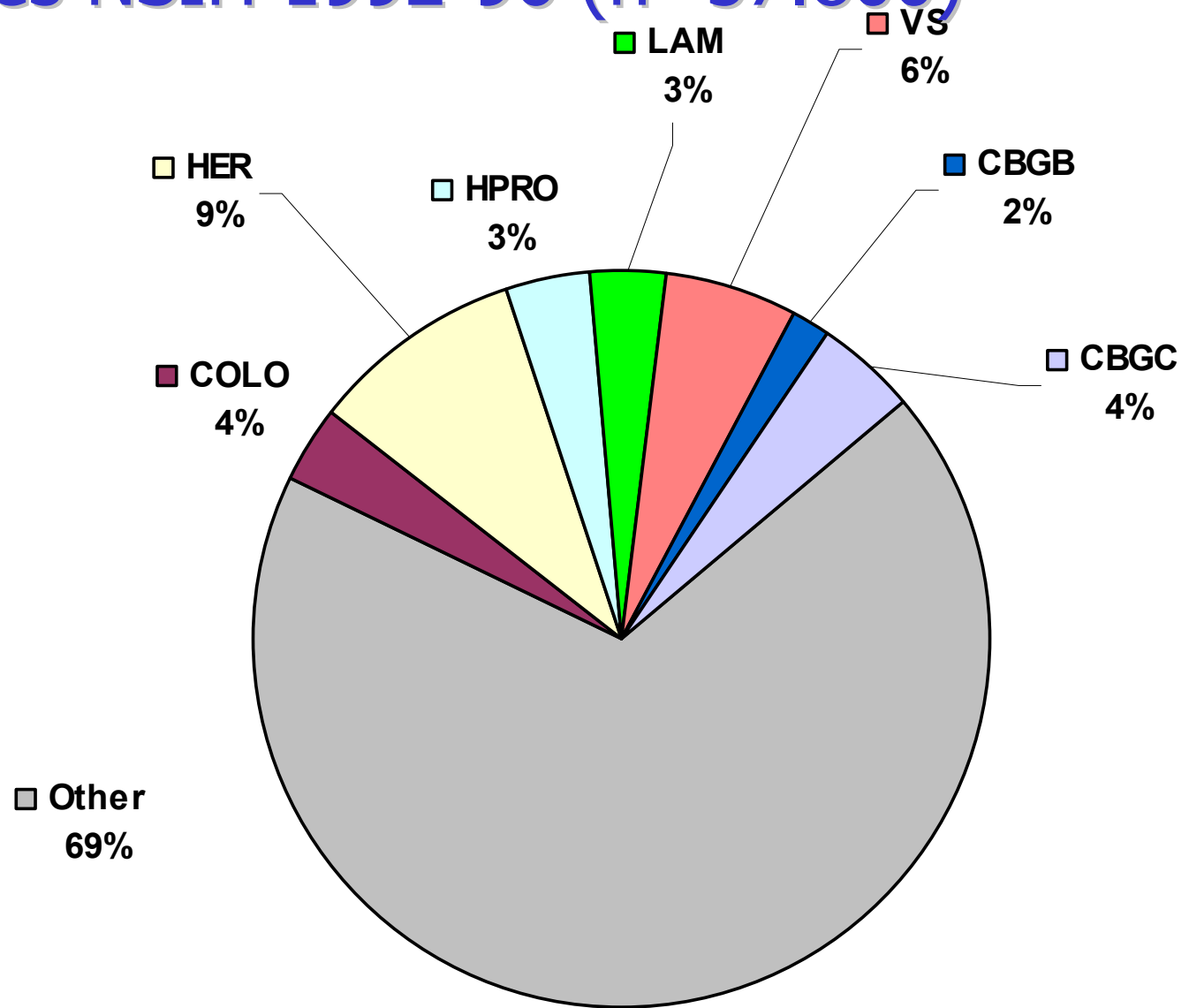
OU

année 1: premier groupe de catégories x 6 m
année 2: 2ième groupe de catégories x 6 m

Quality Decree: 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)

Catégories d'intervention du DQ dans la base de données NSIH 1992-96 (n=57.800)



Stratification: indice de risque

- Facteurs de risque des ISO:
 - Catégorie de la plaie (chirurgien)
 - Score ASA (anesthésist)
 - Durée de l'intervention
 - (Laparoscopie) pour COLO, CHOL, APPY, GAST

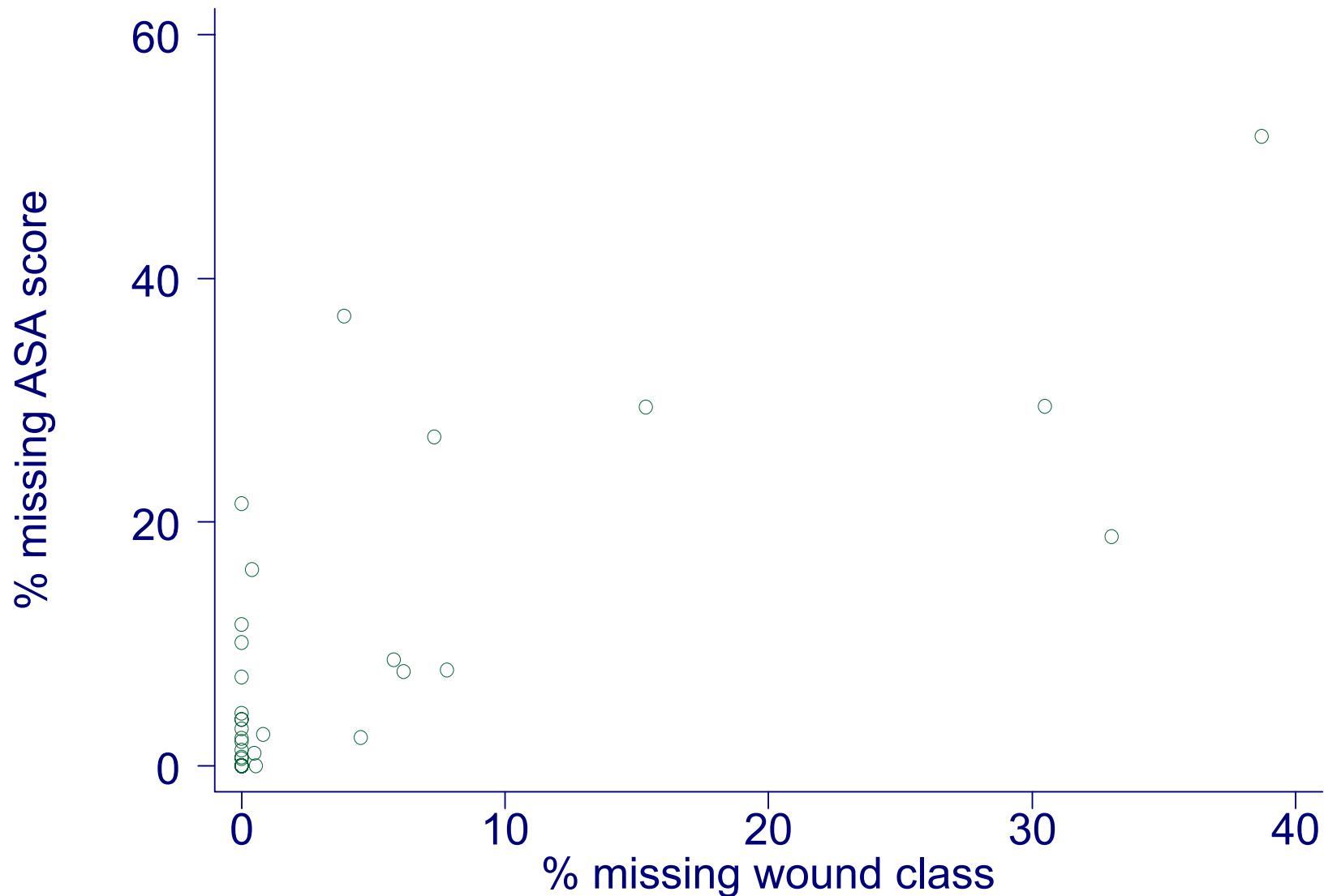
=> indice de risque NNIS
- Si un des facteurs de risque manquant: stratification impossible

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%

Correlation missing values by hospital: ASA & wound class



Date end follow-up IN HOSPITAL: scherm patient data

NSIHwin Patient Data

ICU SEP SSI

Hopidn: 1118 AZERTY987
Hopname: olvrouw

NSIH

Patient Input | Patient List | Patients ICU | Patients SEP | Patients SSI

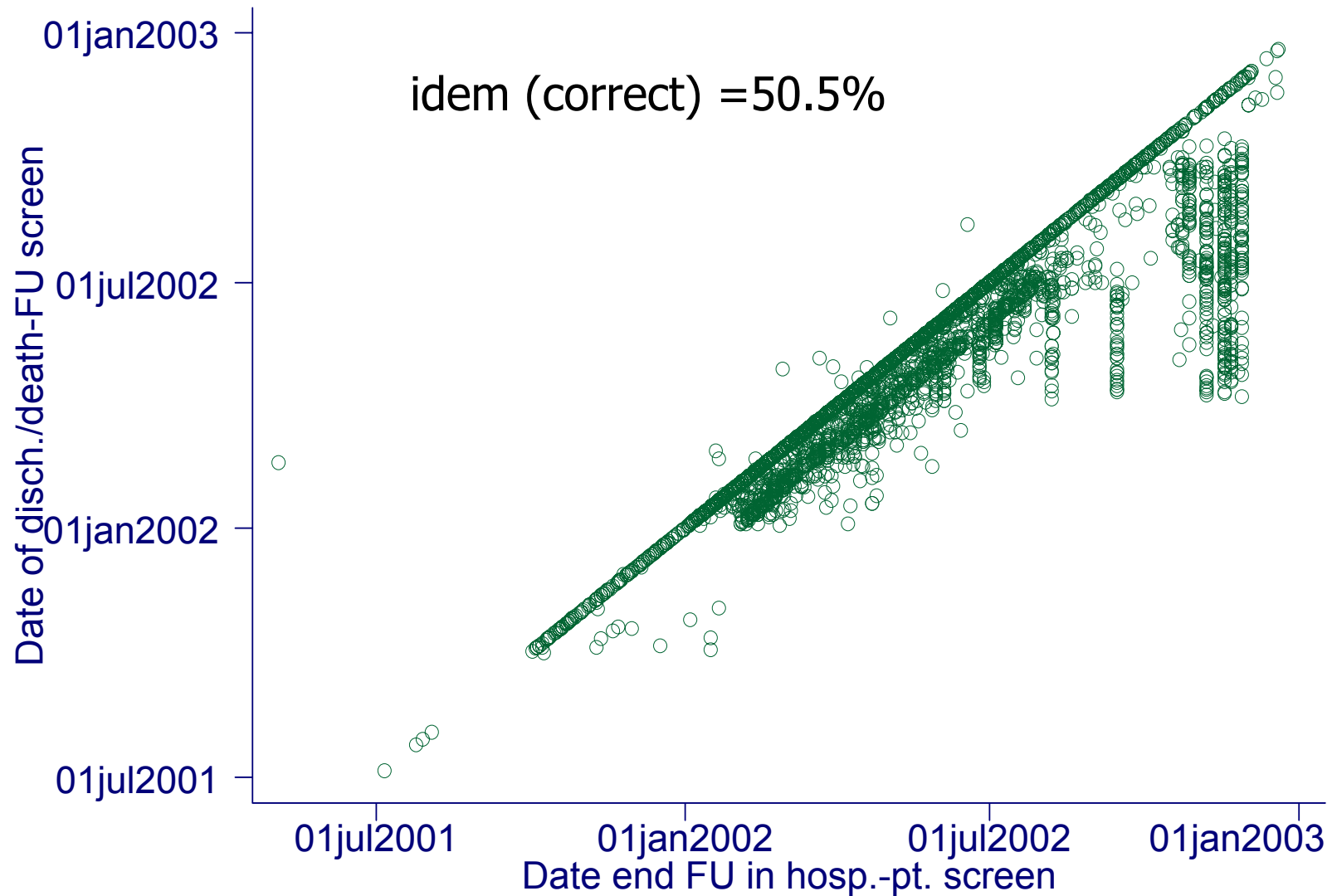
Last Name: Jala	Admission number: AZERTY987	▶*
First Name: Abbu	Admission date: 12/01/2003	✕
Birth date: 21/06/1965	Service: BR/	📄
Gender: M	Ward:	
SIS-number (o):	Date end follow-up in hospital: 29/01/2003	←
Patient origin: Community	<input checked="" type="checkbox"/> Discharged/death ?	
	Status at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

Record: 4 of 4

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

The screenshot shows the 'NSIHwin Surveillance of Surgical Site Infections' software interface. The title bar indicates the version is 'NSIHwin V3.03'. The main header area contains input fields for 'Adm. date' (12/01/2003), 'Patient name' (JaJa Abbu), and 'Admission number'. A toolbar with icons for print, search, delete, and other functions is visible. Below the header, there are four tabs: 'Surgical data', 'Patient Follow-up', 'Surgical Site Infection', and 'Antibiotic prophylaxis'. The 'Patient Follow-up' tab is active. A red arrow points to the 'Date of discharge/ death (in hospital)' field, which is currently empty. To its right is a 'Status at discharge' dropdown menu. Below this, there are two sections for post-discharge data. The first section, 'Post Discharge data available', has a checked checkbox and includes fields for 'Date of last data' and 'Data provider'. The second section, 'Patient seen post-discharge', also has a checked checkbox and includes fields for 'Date of last contact' and 'Type of last contact'. There are two radio button options for the date of last contact: '< 30 d' and '>= 30 d after surgery'.

Date end follow-up in hospital



Aggregated denominator data (option 3)

Surgical Site Infections Aggregated Denominator Data

Hospital code: 1118

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

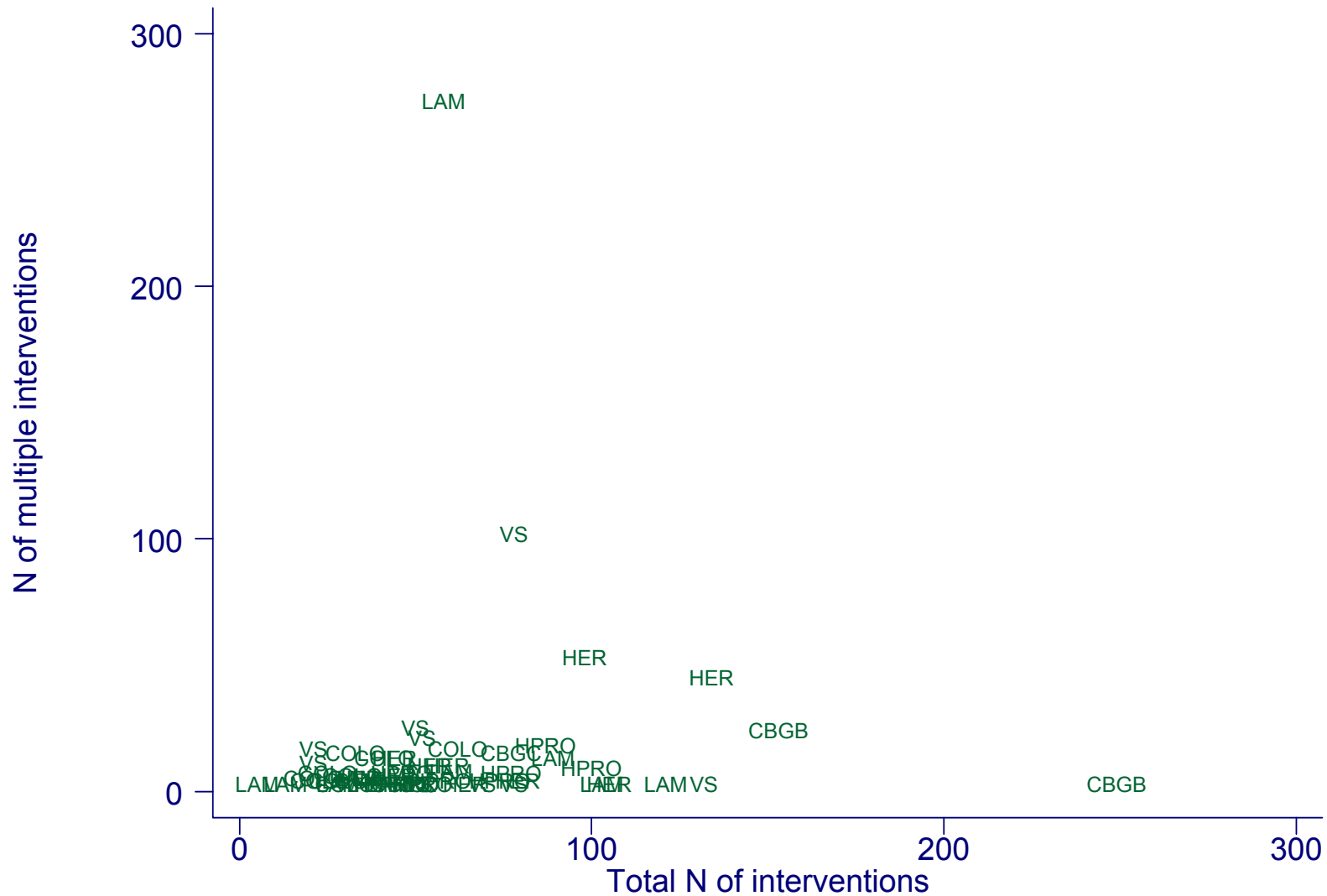
NNIS Op. proc. category: COLO

Surgeon: 015

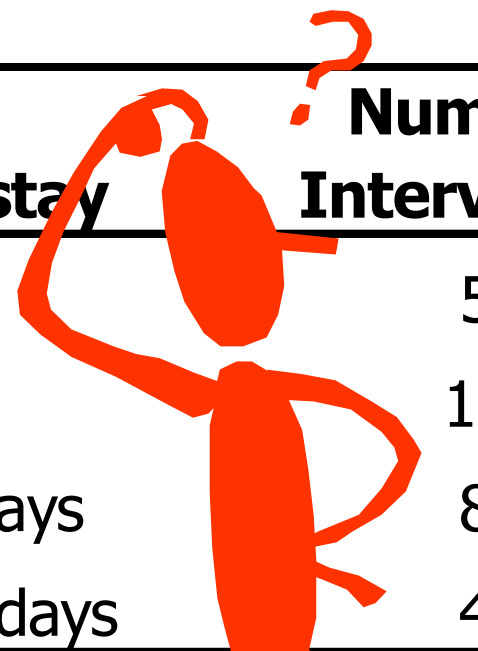
	Interventions		No. of pat. days post-op	No. with follow-up < 30 days
	Total num.	Multiple		
NNIS risk index cat. -1 (M)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
NNIS risk index cat. 0	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>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

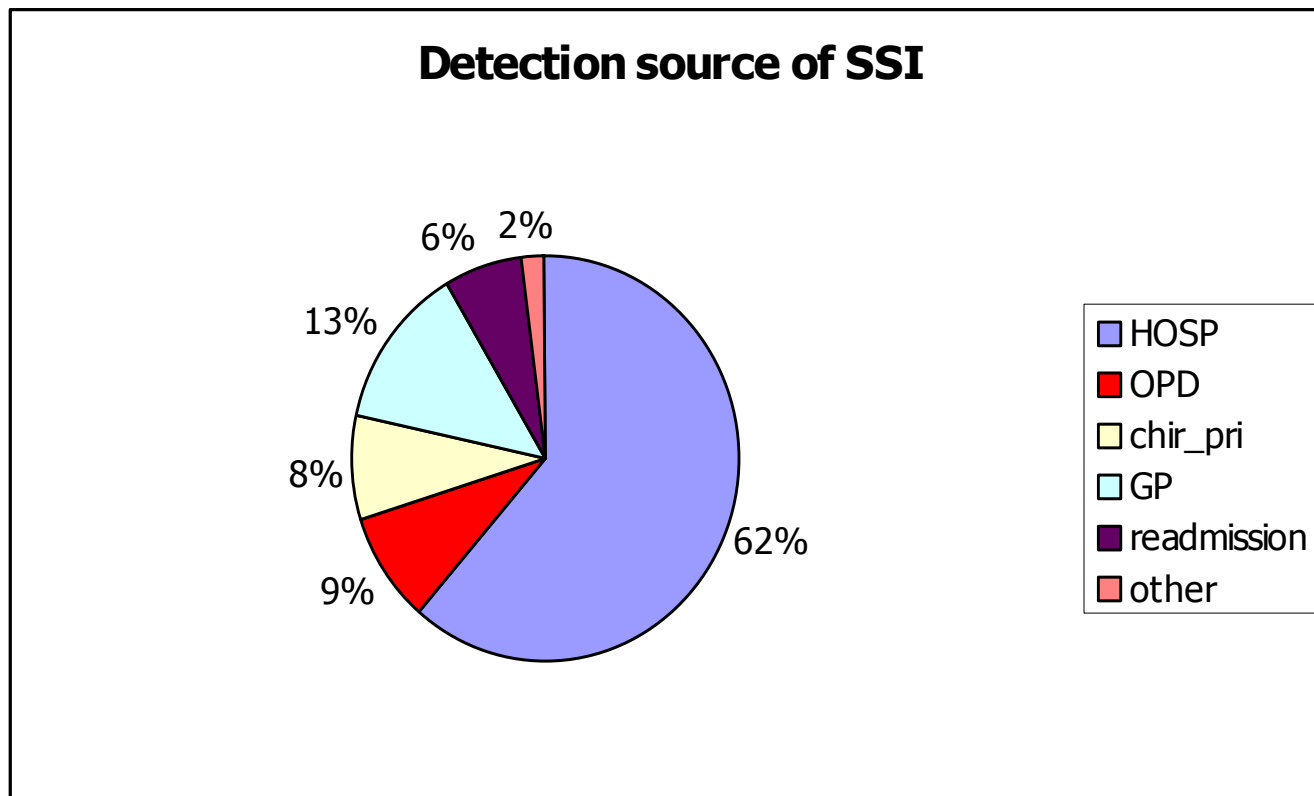
Preliminary results

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

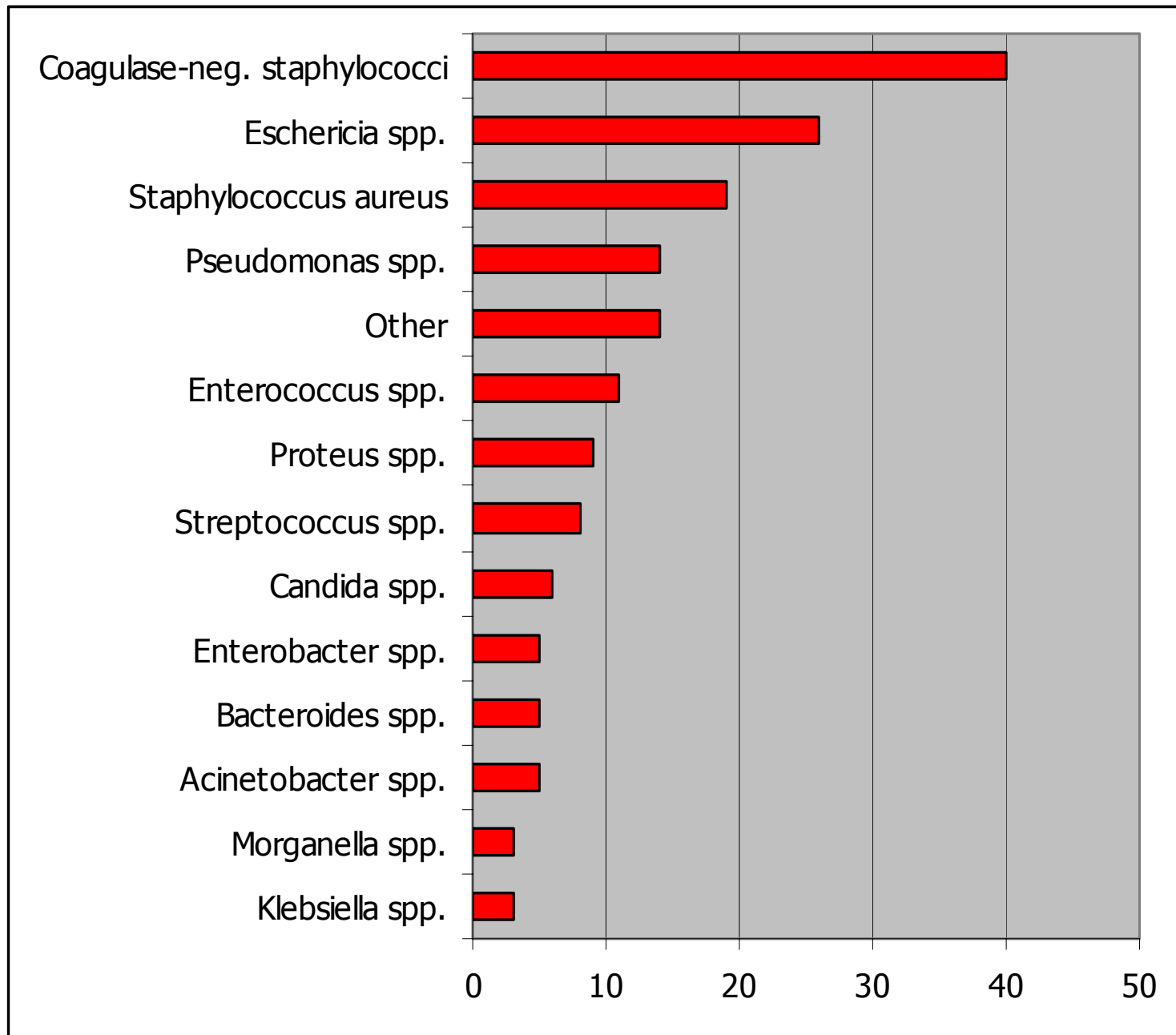
Intervention category	NNIS risk index	N	N infections <30D	% SSI '01-02	% SSI '92-96
HER	0	1668	20	1.2%	0.5%
	1	307	4	1.3%	0.9%
	2,3	29	4	13.8%	10.8%
	Unkown	249	2	0.8%	
COLO	M	29	1	3.4%	
	0	231	19	8.2%	2.5%
	1	307	24	7.8%	6.2%
	2,3	140	10	7.1%	29.7%
	Unkown	90	3	3.3%	
HPRO	0	606	11	1.8%	0.9%
	1,2	582	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)