

Helsingin ja Uudenmaan alueen herkkyystilastoja 2004



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Staph. aureus 2004 (%R+I)

Pus and blood isolates at six hospitals (M,T,L,K,N,Ma) in Helsinki University Central Hospital, from out-patients and from other sources. The material does not include MRSA-strains isolated from MRSA screening cultures. One isolate per patient (the most resistant)

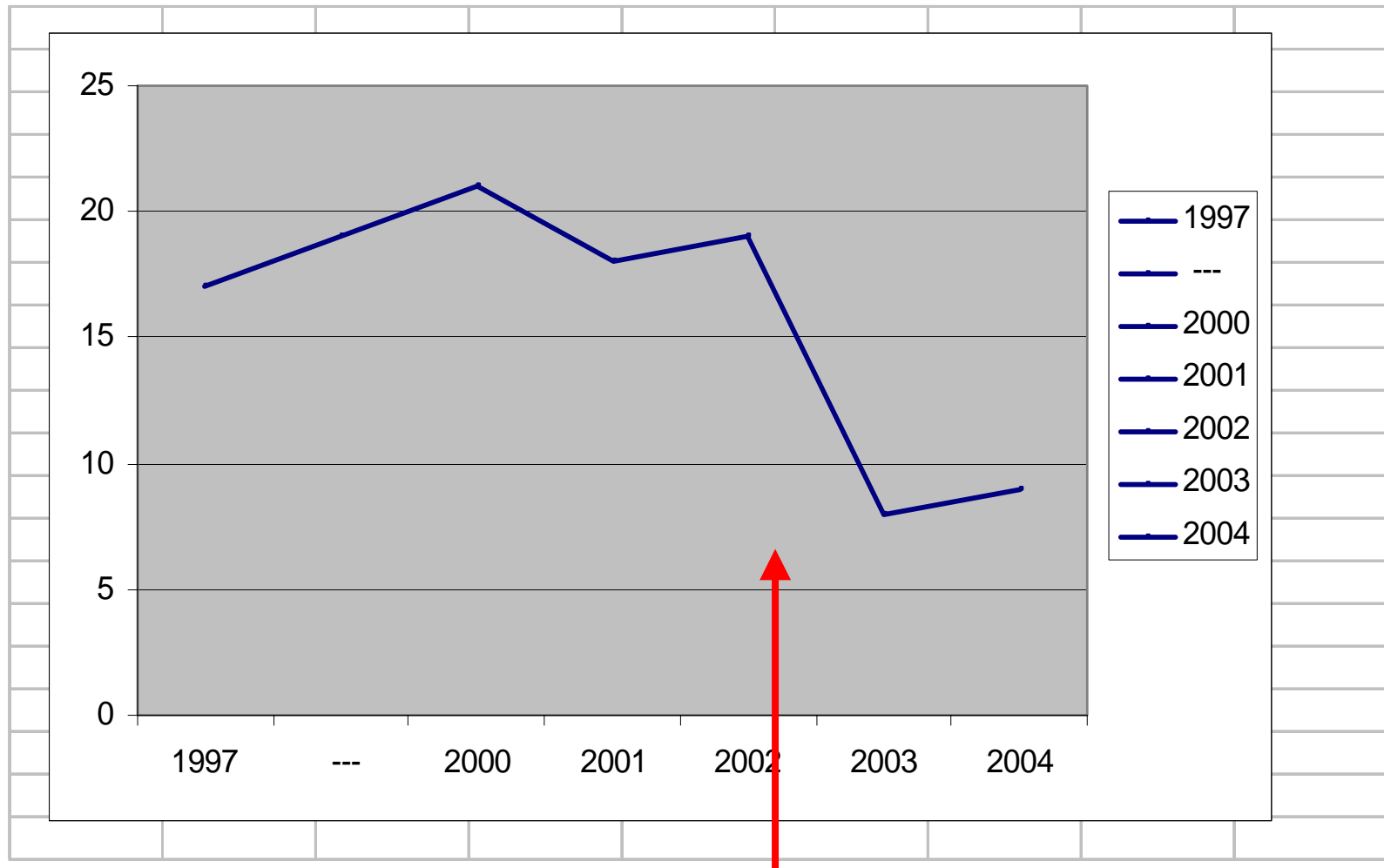
Material	n	Oxa	Ery	Cli	Lev	Rif	Fus	Tob	Net	SxT	Van
HUCH (6 hosp)	2166	13	17	13	14	1	4	13	0	2	0
Blood isolates	270	5	10	6	6	0	6	6	0	1	0
Outpatients	2092	4	9	4	6	nd	nd	nd	nd	nd	0
All sources	6569	7	12	7	8	nd	nd	nd	nd	nd	0

Staph. epidermidis 2004 (%R+I)

Pus and blood isolates. HUSLAB material from hospitals in Helsinki and Uusimaa districts.
One isolate per patient (the most resistant)

Material	n	Oxa	Ery	Cli	Lev	Rif	Fus	Tob	Net	SxT	Van
Meilahti hosp.	845	88	74	67	71	26	60	65	6	62	0
Childrens' hosp	185	81	62	46	26	17	54	62	9	47	0
All sources	3062	77	65	52	52	20	53	55	4	54	0

St. epidermidis, resistance to netilmycin at the Childrens´hospital



Discontinuation of netilmycin use

M. Vaara, Jan 25 2005

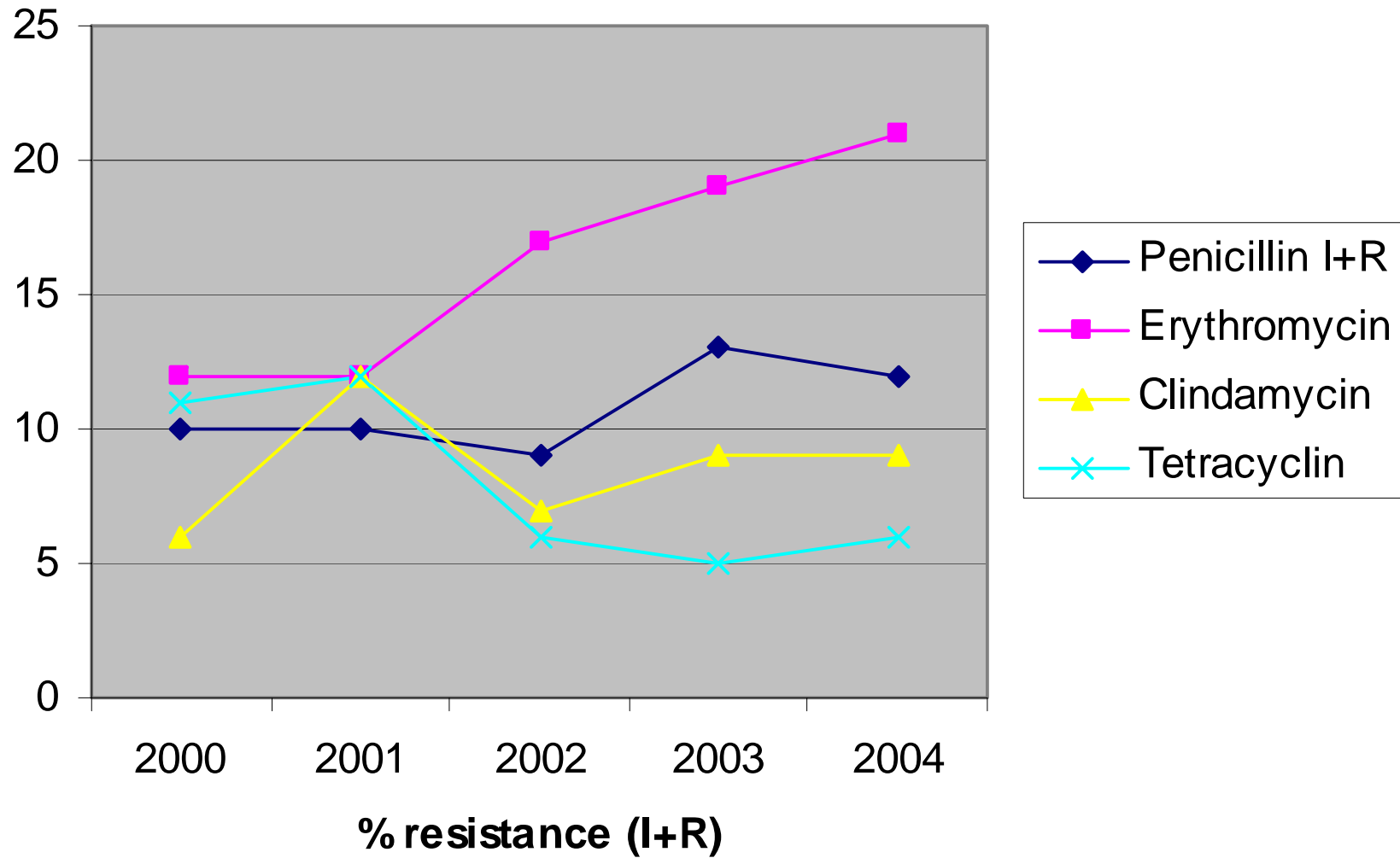
Streptococcus pneumoniae 2004 (%R+I)

HUSLAB material from Helsinki and Uusimaa districts. One isolate per patient (the first isolate)

	All	Blood	ENT	Age <15 y	Age >65 y
Penicillin - R	1,9	0,6	3,4	2,1	0
Penicillin - I	9,6	8,6	6,9	12,5	7,4
Ceftriaxone - R	0	0	0	0	0
Ceftriaxone - I	0	0	0	0	0
Erythromycin	21	18	22	24	15
Clindamycin	9	3	11	13	5
Doxycycline	6	nd	6	5	2
Sulphamet-Trim.	22	nd	16	23	7
Levofloxacin	nd	1	nd	nd	nd
Moxifloxacin	nd	1	nd	nd	nd
Telithromycin	nd	0	nd	nd	nd
n	687	151	145	287	95

Martti Vaara Jan 24, 2005

Str. pneumoniae, resistance 2000-2004



HUSLAB material, M. Vaara Jan 2, 2005

Beta-hemolytic streptococci 2004 (%R+I)

HUSLAB material from Helsinki and Uusimaa Districts.
One isolate per patient (the first isolate).

	S. pyogenes	S. agalact.	Group G
Penicillin	0	0	0
Erythromycin	4	8	10
Clindamycin	2	5	2
n	2990	3354	2042

Group G: S. dysgalactiae spp. equisimilis group G strains

Streptococcus viridans and anginosus [milleri] groups, blood isolates 2004

**HUSLAB material from Helsinki and Uusimaa Districts.
One isolate per patient (the first isolate).**

Penicillin -I	15
Penicillin -R	1
Ceftriaxone -I	0
Ceftriaxone -R	0
Erythromycin I+R	24
Clindamycin	12
Gentamycin -high res.	12
Vancomycin	0

n = 104

Streptococcus anginosus [milleri] group 2004

Pus and blood isolates, HUSLAB material from Helsinki and Uusimaa Districts.
One isolate per patient (the first isolate).

n = 401

Penicillin -I	0
Penicillin -R	0,3
Ceftriaxone -I	0
Ceftriaxone -R	0
Erythromycin I+R	9
Clindamycin	7
Vancomycin	0

Enterococci 2004 (%R+I)

Pus and blood isolates. HUSLAB material from Helsinki and Uusimaa districts. One isolate per patient (the most resistant)

	E. faecalis	E. faecium
Ampicillin	0,4	73
Imipenem	0,4	73
Vancomycin	0	0,6
(n)	1867	599
Gentamycin (high)	47	21
(n)	71	57

Enterococci, urine isolates 2004 (%R)

HUSLAB material from Helsinki and Uusimaa districts. One isolate per patient (the most resistant)

	E. faecalis	E. faecium
Ampicillin	0,1	88
Nitrofurantoin	0,5	7
Norfloxacin	37	89
Sulphameth-trimet.	23	51
Vancomycin	0	0
n	5173	1055

Pseudomonas aeruginosa 2004 (%R+I), Meilahti hosp.

Pus and blood isolates from Meilahti hospital (part of Helsinki University Central Hospital).

WHONET analysis mode	n	Ctaz	Mero	Pi-Tz	Tob	Ami	Cip
All isolates	694	17	34	22	17	8	49
One/patient, first isolate	294	9	15	14	10	5	34
One/patient, most resistant	294	13	22	18	15	7	38

Pseudomonas aeruginosa 2004 (%R+I)

Pus and blood isolates. One isolate per patient (the most resistant isolate).

HUSLAB material from selected hospitals in Helsinki and Uusimaa Districts.

Hospital	n	Ctaz	Mero	Pi-Tz	Tob	Ami	Cip
Meilahti	294	13	22	18	15	7	38
Töölö	198	6	16	10	10	4	41
Helsinki City hospitals	194	5	10	11	13	6	42
Maria	50	2	6	6	9	4	30
Childrens´	42	0	0	0	0	0	5
Uusimaa regional hospitals	370	4	10	10	7	4	28
ENT clinic	198	7	1	2	2	2	5
Outpat. in Health Cntrs	429	0	4	3	5	2	18

Acinetobacter spp. 2004 (%R+I)

**Pus and blood isolates from selected hospitals in Helsinki University Central Hospital.
One isolate per patient (the most resistant)**

Hospital	n	Ctaz	Mero	Pi-Tz	Tob	Cip	SuTri
Meilahti	103	16	9	19	15	22	24
Töölö	101	12	2	8	13	13	16
All material	540	12	5	11	6	15	13

Stenotrophomonas maltophilia 2004 (%R+I)

Pus and blood isolates. One isolate per patient (the most resistant isolate).

HUSLAB material from hospitals in Helsinki and Uusimaa Districts.

Hospital	n	SxT	Levo	Tic-clav	Pip-Taz	Ceftaz	Mero	Tobra
Meilahti	143	4	26	61	99	94	99	98
Töölö	59	3	27	69	98	78	97	95
Childrens´	12	17	9	50	91	90	100	93
All units	376	5	20	64	96	93	99	97

Enterobacteriaceae 2004 (%R+I)

Pus and blood isolates at six hospitals (M,T,L,K,N,Ma) in Helsinki University Central Hospital. One isolate per patient (the most resistant)

	n	Cfur	Ctax	Pi-Tz	Tob	Levo	Mero
E. coli	927	6	5,0	1	6	10	0
Kl. pneumoniae	208	9	4,4	5	5	6	0
Kl. oxytoca	130	7	0,8	7	0	0	0
Proteus mirabilis	87	0	0	0	1	2	0
Ent. cloacae	333	44	32	21	2	2	1,2
Enterobact. spp.	255	34	19	15	3	3	0,9
Citrob. freundii	38	24	13	5	5	5	0
Serratia marc.	101	98	5	6	7	6	1
Proteus vulgaris	67	96	0	0	0	0	0
Morganella morg	67	90	12	5	5	5	0
Total	2213	25	10	6	4	5	0,3

Martti Vaara Jan 26, 2005

E. coli 2004, ESBL frequency in blood, pus and urine

	Age group	% ESBL	n
blood	all ages	4,4	547
	< 40	3,1	65
	≥ 65	3,9	334
pus	all ages	4,3	1425
	< 40	1	496
	≥ 65	9,4	468
urine	all ages	2,8	16933
	< 40	0,6	4769
	≥ 65	4,3	8888
all materials		2,8	18365
all materials (first isolate/pt)		[2,1]	[18365]

HUSLAB, one isolate (the most resistant)/pt (if not otherwise stated)

M. Vaara, Jan 26, 2005

Kl. pneumoniae 2004, ESBL % in blood, pus and urine

	% ESBL	n
blood	1,2	82
pus	3,6	385
urine	1,4	2406
all materials	1,6	2805
[all materials, first isolate/pt]	1,3	2805

HUSLAB, one isolate (the most resistant)/pt (if not otherwise stated)

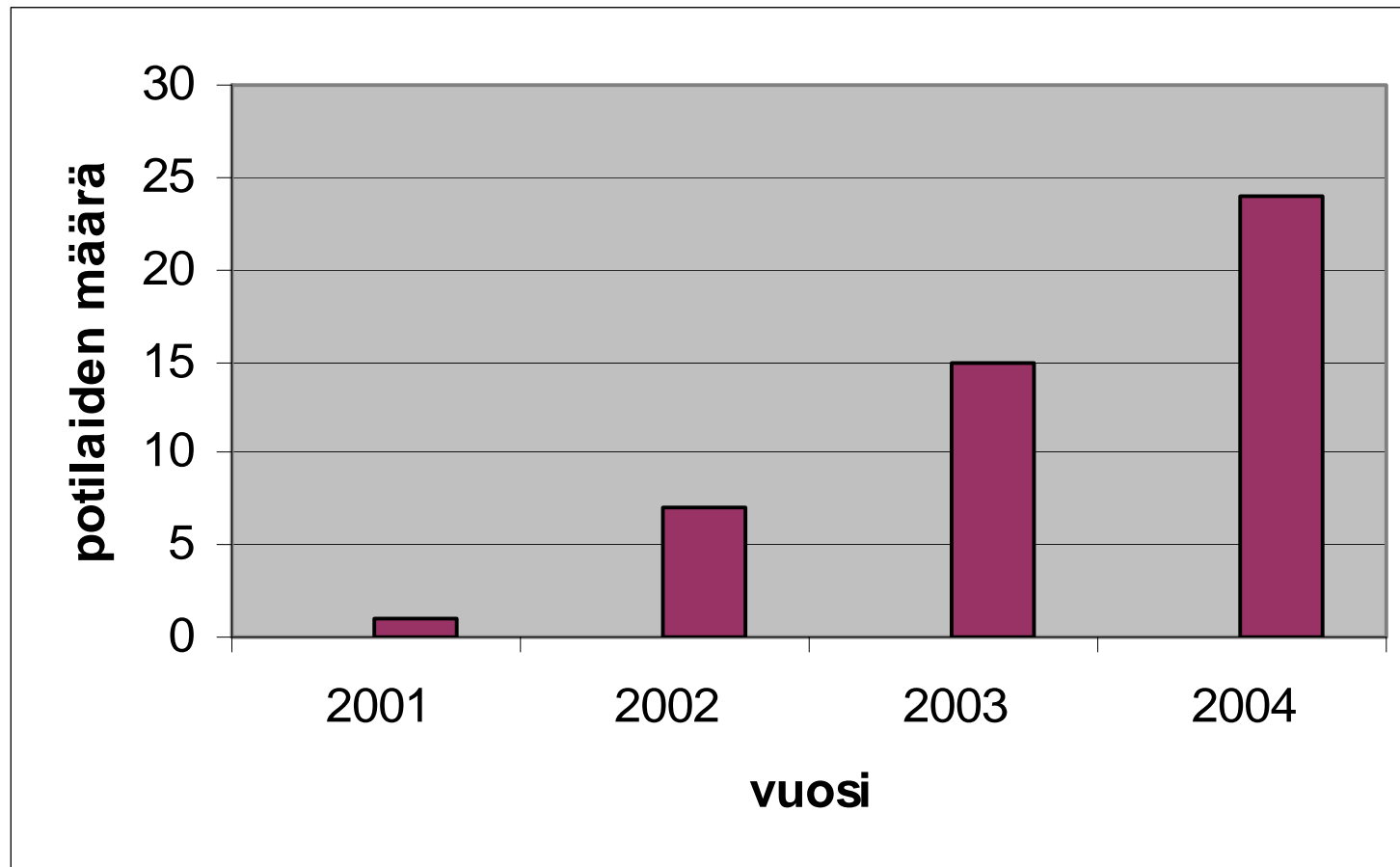
M. Vaara, Jan 26, 2005

ESBL 2004 (% frequency) at different locations

HUSLAB material from Helsinki and Uusimaa districts. One isolate per patient (the most resistant)

Material	E. coli		K. pneumoniae	
	pus & blood	urine	pus & blood	urine
HUCH (6 hosp.)	5,0	2,7	4,4	1,9
Helsinki City hospitals	16,2	11,5	4,8	4,3
Other sources	2,6	1,7	2,7	0,6
Total %	4,3	2,8	3,5	1,4
Total n	1943	16933	457	2406

E. colin ESBL-kantojen aiheuttamat bakteremiat HUSLAB:in materiaalissa 2001-2004



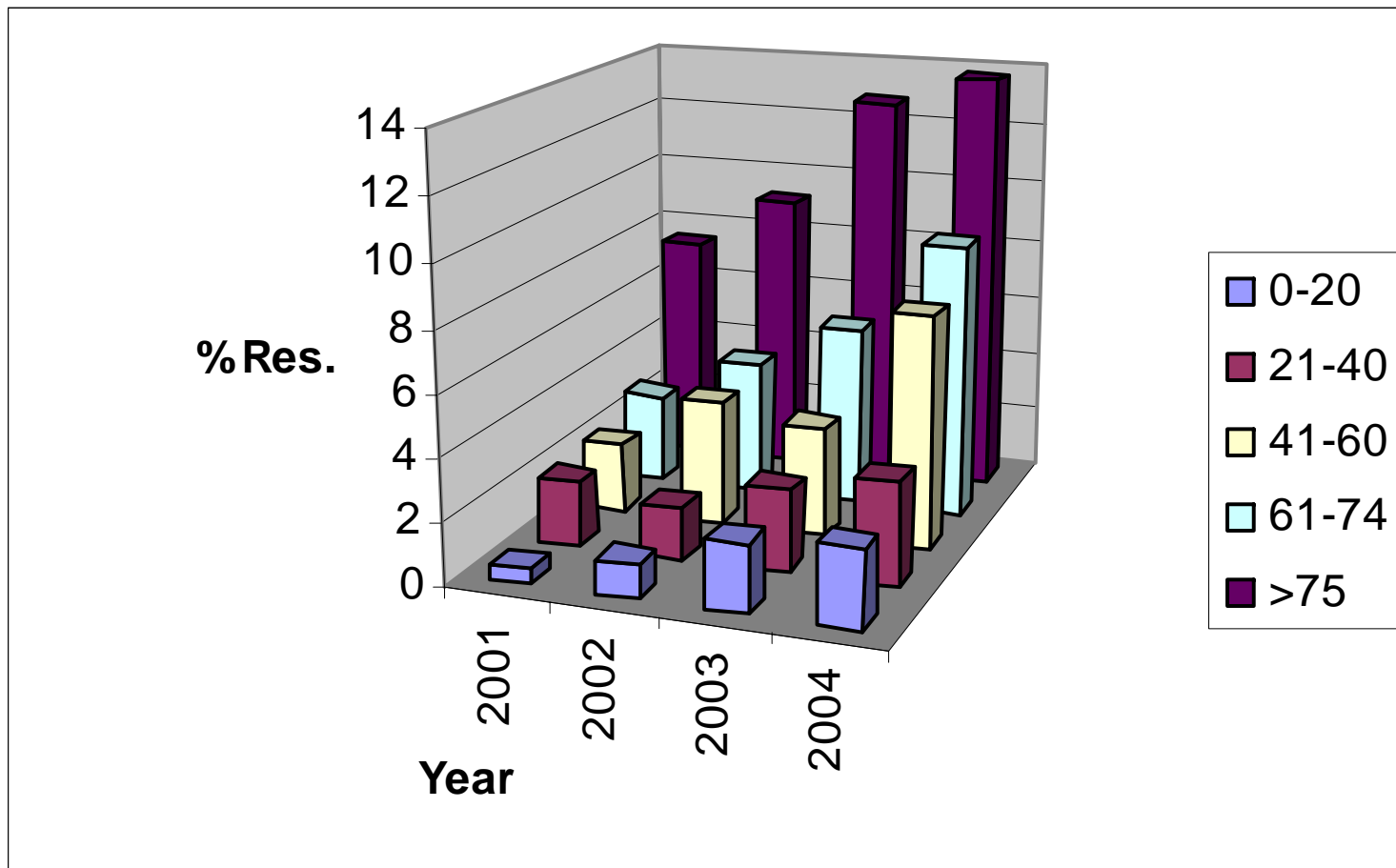
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E. coli, urine isolates 2004 (%R)

HUSLAB material from Helsinki and Uusimaa districts. One isolate per patient (the most resistant)

	Outpatients, age (in years)					All sources
	0-20	21-40	41-60	61-74	≥ 75	
Nitrofurantoin	0	0	1	1	3	2
Mecillinam	2	2	3	4	7	6
Cephalexin	4	4	5	7	10	8
Norfloxacin	1	3	4	5	10	7
Sulphameth-trimet.	19	18	16	17	22	19
Trimetoprim	19	18	17	18	23	21
n	1233	2177	1726	1953	3910	16933

E. coli, urine isolates, resistance to norfloxacin 2001-2004 in consecutive age groups



HUSLAB, all isolates; n = 98.000

Martti Vaara Jan 26, 2005

Enterobacteriaceae, urine isolates 2004 (%R)

HUSLAB material from Helsinki and Uusimaa districts. One isolate per patient (the most resistant)

	E. coli	Kl. pneum.	Kl. oxytoca	Enterobacter	Prot. mirab.
Nitrofurantoin	2	16	4	21	99
Mecillinam	6	7	10	12	9
Cephalexin	8	7	9	93	3
Norfloxacin	7	4	1	3	6
Sulphameth-trimet.	19	27	12	7	25
Trimetoprim	21	33	15	10	41
n	16933	2406	640	1637	861

H. influenzae & M. catarrhalis 2004 (%R+I)

HUSLAB material from Helsinki and Uusimaa Districts.
One isolate per patient (the first isolate).

	H. influenzae	M. catarrh.
Ampicillin	15	94
Amoxycill-clavul.	2	0
Cefaclor	2	0
Cefuroxime	1	0
Doxicycline	3	0
Ciprofloxacin	0	0
Sulphameth-trim.	16	1
Azithromycin	0	0,3
n	514	288

Neisseria gonorrhoeae 2004 (%R+I)

HUSLAB material from Helsinki and Uusimaa Districts.

One isolate per patient (the first isolate).

n = 88

Ciprofloxacin - R	31
Ciprofloxacin - I	9
Ceftriaxone	0
Azithromycin	0

Bacteroides fragilis group 2004 (%R+I)

HUSLAB material from Helsinki and Uusimaa Districts.
One isolate per patient (the first isolate).

n = 1116

Metronidazole	0,1
Piperacillin-tazobactam	0,7
Imipenem	0,7
Clindamycin	44
Doxicycline	11
Penicillin G	100

Prevotella spp. 2004 (% I+R)

Pus isolates, HUSLAB material from Helsinki and Uusimaa Districts.
One isolate per patient (the first isolate).

n = 304

Penicillin -I	0		
Penicillin -R	48		
Piperacillin-Taz.	0,3		
Doxicyclin	21		
Metronidazole	0,3		
Clindamycin	10		

Salmonella 2004 (%R+I)

HUSLAB material from Helsinki and Uusimaa Districts.
One isolate per patient (the first isolate).

Ciprofloxacin - R	0
Ciprofloxacin - I	0
Sulphametox.-Trimetoprim	7
Ampicillin	19
Doxycycline	55
Ceftriaxone	0

Campylobacter 2004 (%R+I)

HUSLAB material from Helsinki and Uusimaa Districts.
One isolate per patient (the first isolate).

	C. jejuni	C. coli
Ciprofloxacin	47	58
Erythromycin	2	7
n	444	74