

# **Helsingin ja Uudenmaan alueen herkkyystilastoja 2003**



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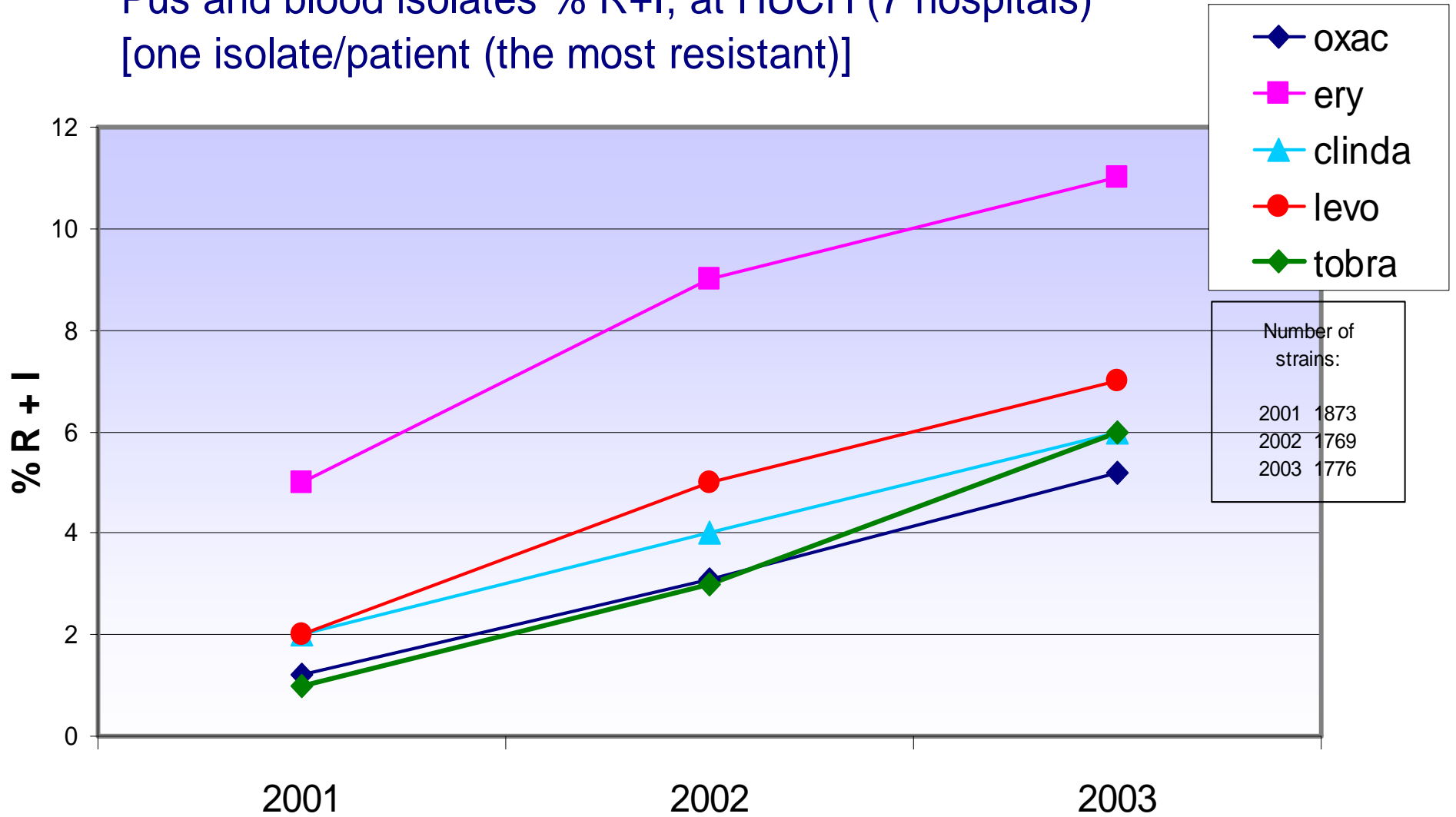
**[www.huslab.fi](http://www.huslab.fi)**

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# Staph. aureus

Pus and blood isolates % R+I, at HUCH (7 hospitals)  
[one isolate/patient (the most resistant)]



# Staph. aureus 2003 (%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)

Material	n	Oxa	Ery	Cli	Lev	Rif	Fus	Tob	Net	SxT	Van
HUCH (7 hosp)	1776	5	11	6	7	0	5	6	0	1	0
Outpatients	3852	4	8	4	7	nd	nd	nd	nd	nd	0
All sources	5853	4	8	4	6	1	6	7	0	1	0

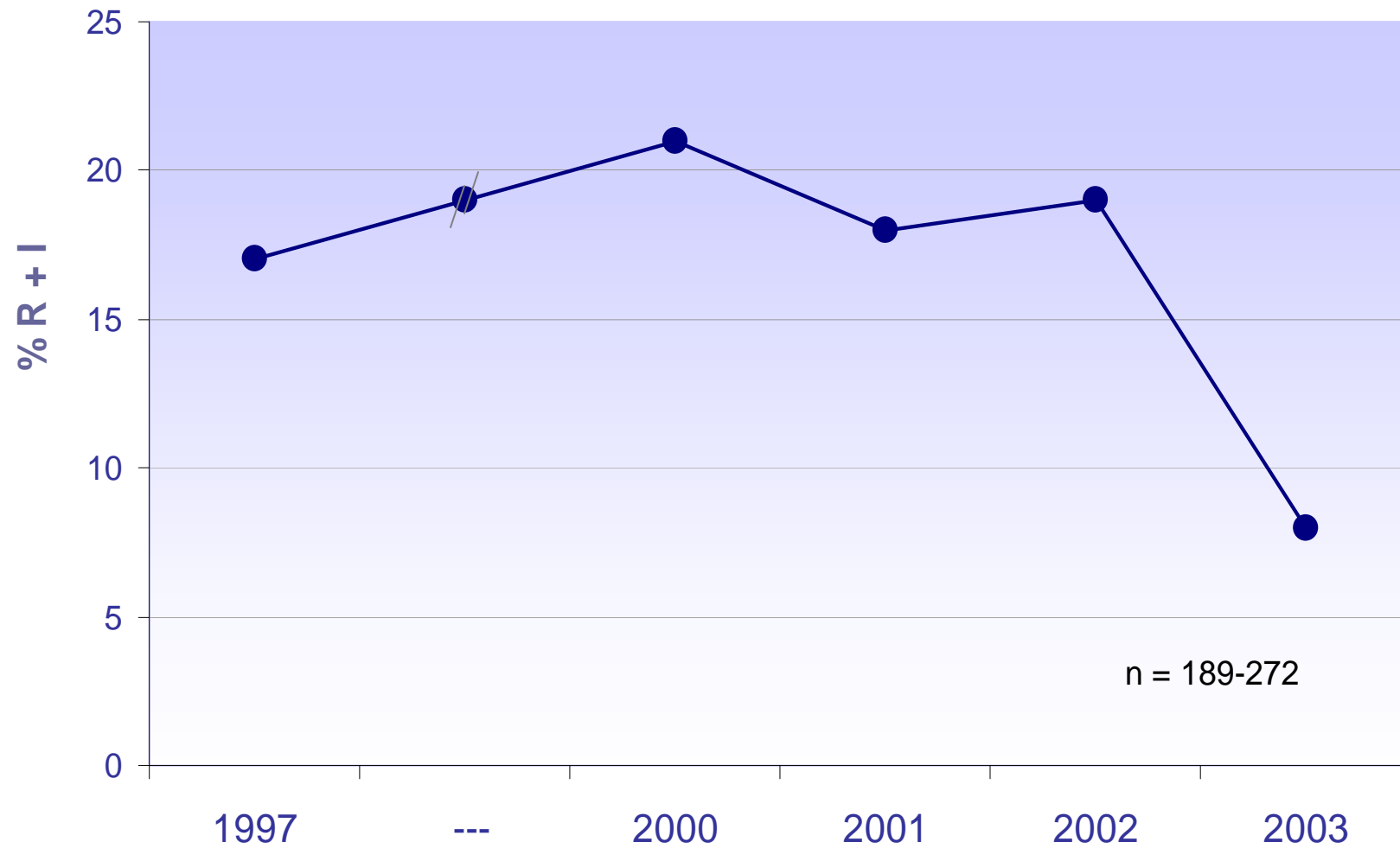
## MRSA 2003, resistenssi profiileja (HUSLAB)

Profile	Num Isol.	Num Pat.
OECLT	437	114
O	139	59
O LT	44	23
O L	37	15
O T	27	9
OE L	19	5
OECLTR	17	8
OECL	16	7
OEC T	16	8
OE	10	6
OE LTR	7	1
OE LT	4	2
OE T	2	1
O R	2	1
OECL R	1	1
OEC	1	1
O C	1	1

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# St. epidermidis

## Netilmysiiniresistenssi Lastenkllinikalla



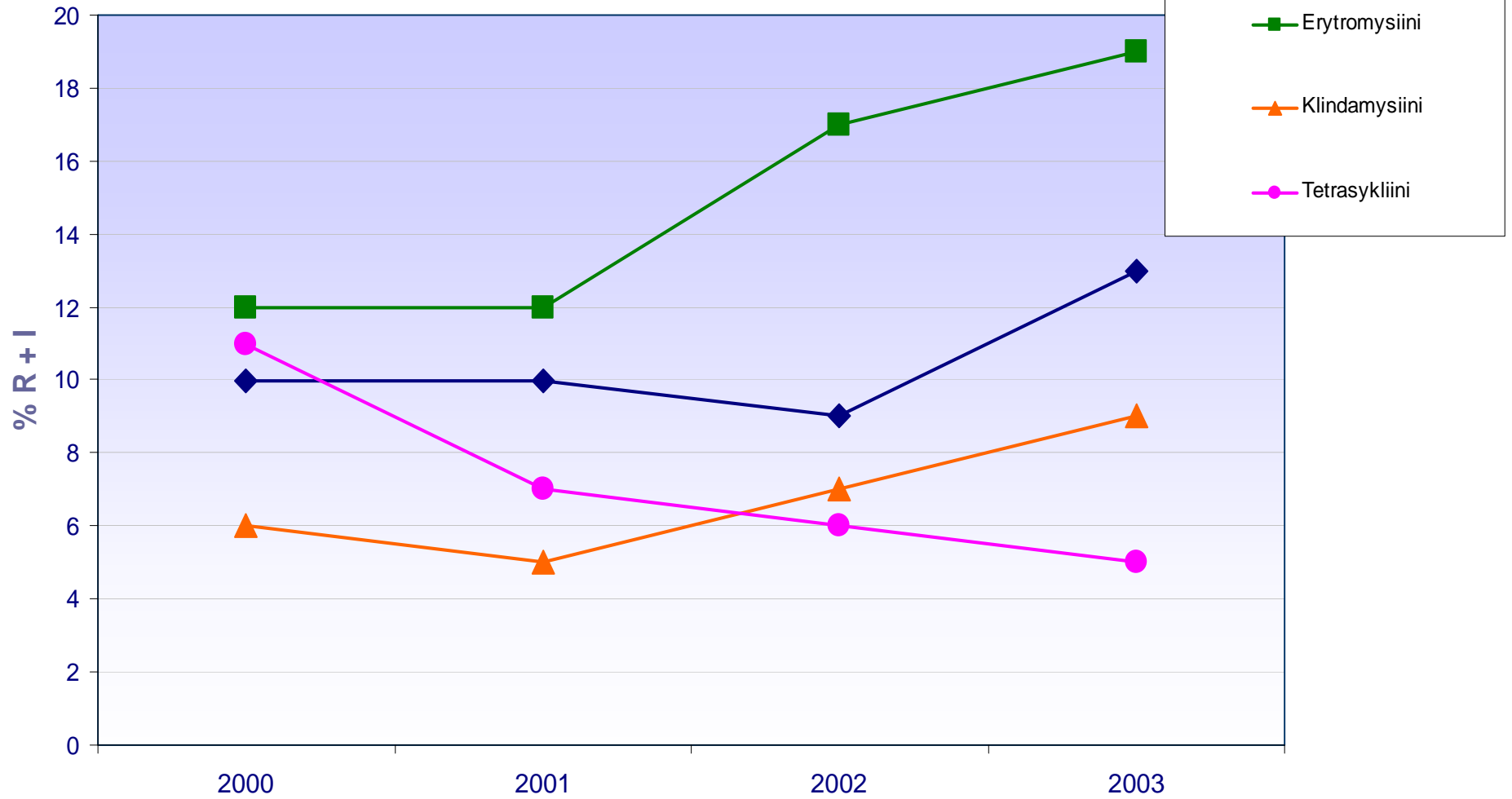
# Staph. epidermidis 2003 (%R+I)

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.	843	89	76	68	72	24	62	68	4	66	0
Childrens' hosp	200	82	61	50	29	23	57	58	8	52	0
All sources	3258	77	59	52	54	19	58	57	3	59	0

# Pneumokokin resistenssi (% R + I)

HUSLAB



# Streptococcus pneumoniae 2003 (%R+I)

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

	All isolates	Blood isolates
Penisilliini - R	2,6	2,4
Penisilliini - I	10,4	7,8
Ceftriaxone - R	0,3	0
Ceftriaxone - I	0	0
Erythromycin	19	16
Clindamycin	9	8
Doxycycline	5	nd
Sulphamet-Trim.	21	nd
Levofloxacin	nd	0
Moxifloxacin	nd	0
Telithromycin	nd	1
n	742	166

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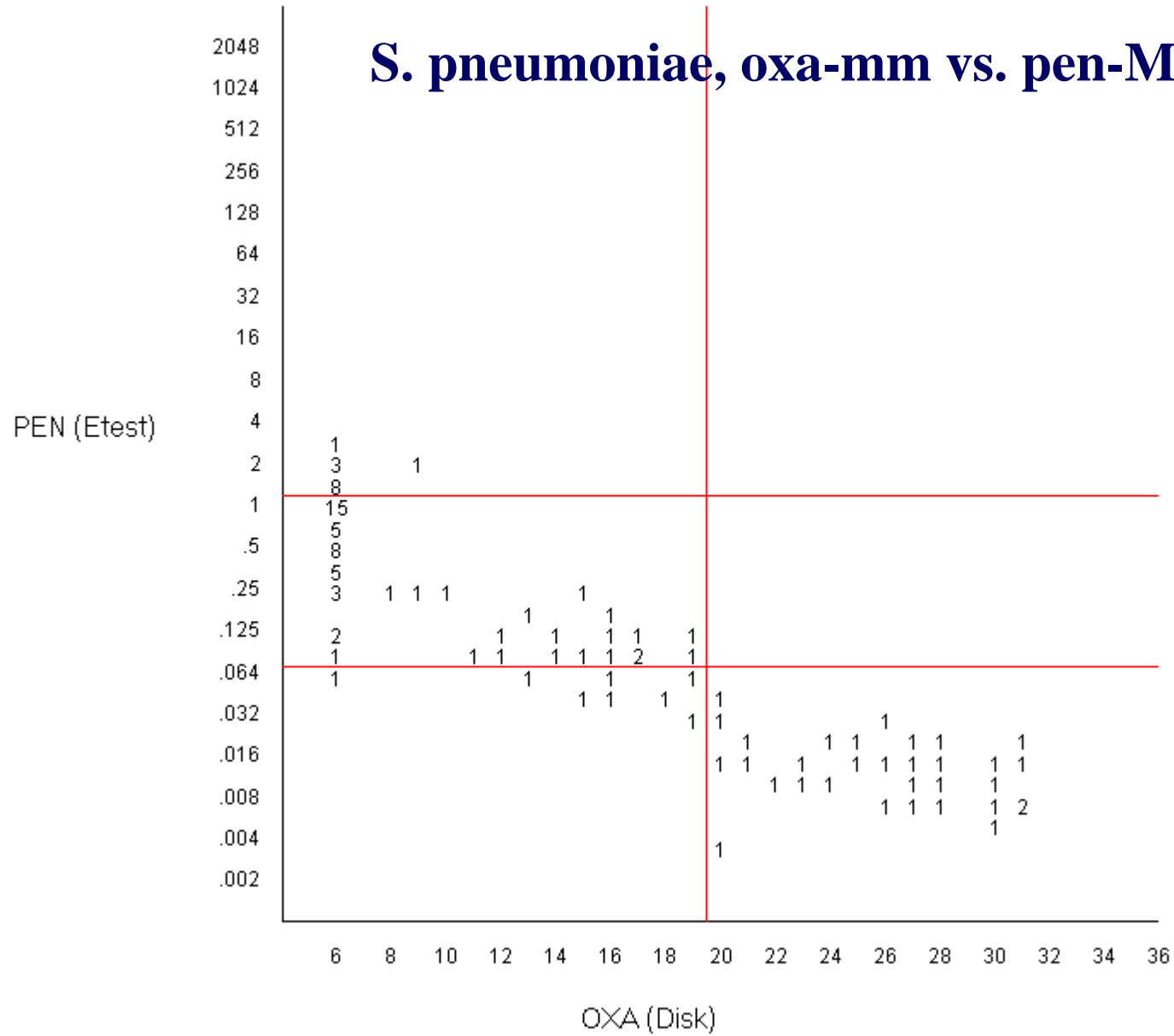


## PNSP 2003, resistenssiprofiileja (HUSLAB)

Profile	Num Isol.	Num Pat.
PECDT	23	20
PECD	4	4
PEC - -	11	10
PEC T	13	11
PEC	5	5
PE - T	1	1
PE DT	1	1
PE - -	1	1
PE T	20	18
P DT	1	1
P - -	6	5
P T	23	23
P -	1	1
P	3	3

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# S. pneumoniae, oxa-mm vs. pen-MIC



# Beta-hemolytic streptococci 2003 (%R+I)

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

	<b>S. pyogenes</b>	<b>S. agalact.</b>	<b>Group G</b>
<b>Penicillin</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Erythromycin</b>	<b>4</b>	<b>9</b>	<b>10</b>
<b>Clindamycin</b>	<b>1</b>	<b>6</b>	<b>1</b>
<b>n</b>	<b>3525</b>	<b>3102</b>	<b>2185</b>

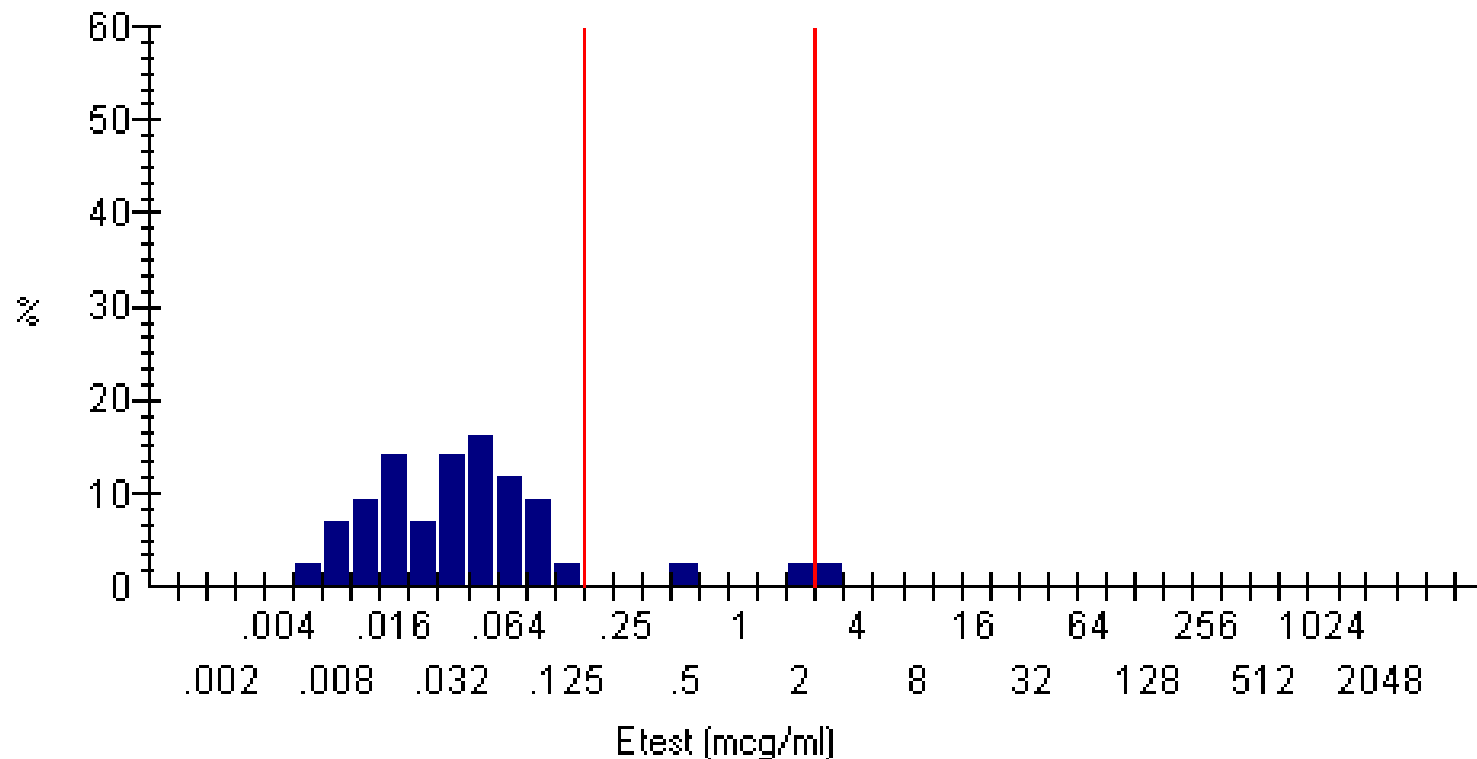
**Group G: S. dysgalactiae spp. equisimilis group G strains**

# Streptococcus viridans and anginosus [milleri] groups, MIC distributions, blood isolates

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

## Penicillin G

n = 43



# Enterococci 2003 (%R+I)

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

	<b>E. faecalis</b>	<b>E. faecium</b>
<b>Ampicillin</b>	<b>0.2</b>	<b>75</b>
<b>Imipenem</b>	<b>0.4</b>	<b>76</b>
<b>Vancomycin</b>	<b>0.1</b>	<b>0.3</b>
<b>n</b>	<b>2007</b>	<b>590</b>

<b>Gentamycin (high)</b>	<b>33</b>	<b>8</b>
<b>n</b>	<b>54</b>	<b>38</b>

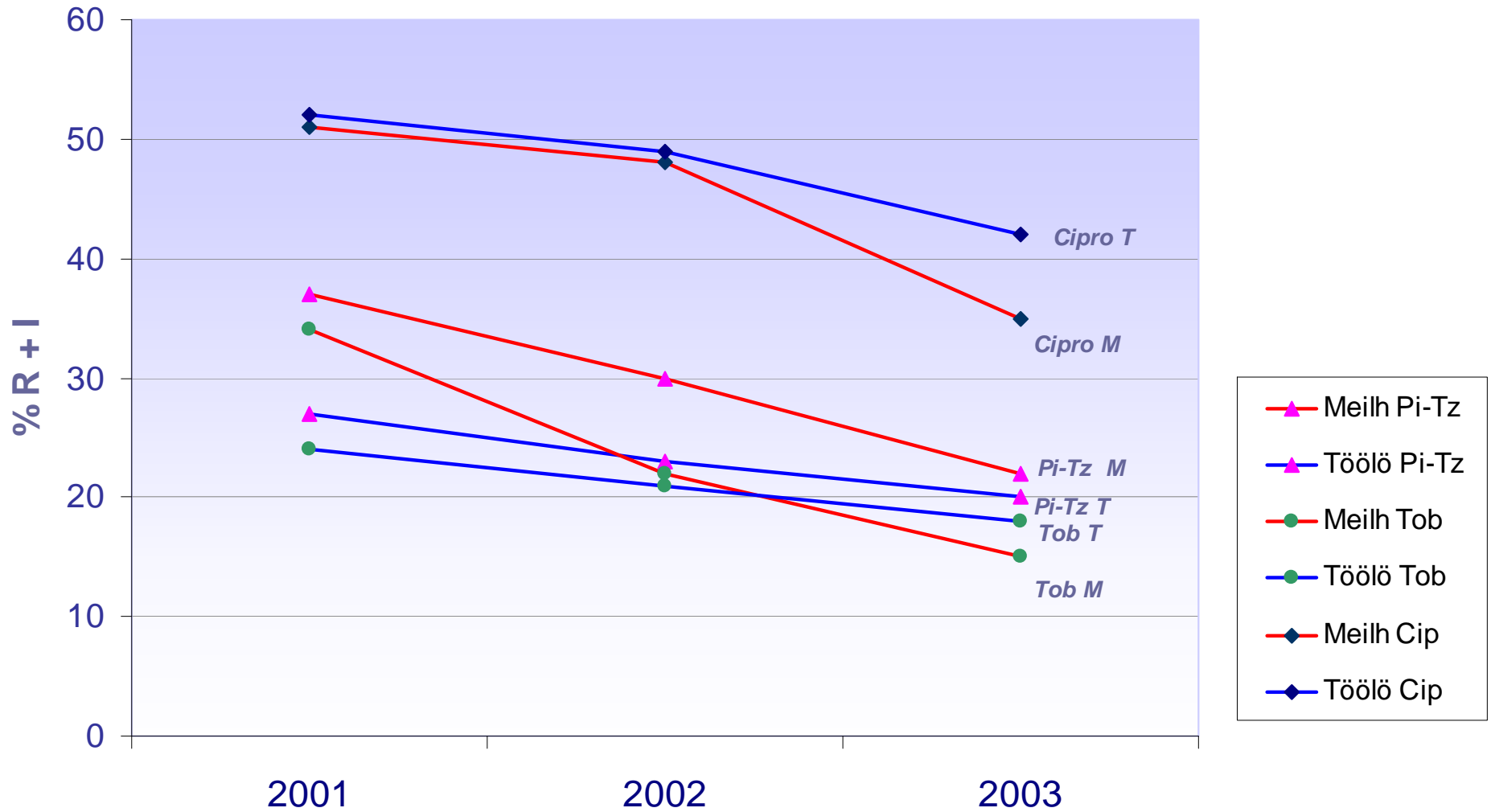
# Enterococci, urine isolates 2003 (%R)

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

	<b>E. faecalis</b>	<b>E. faecium</b>
<b>Ampicillin</b>	<b>0.2</b>	<b>86</b>
<b>Nitrofurantoin</b>	<b>0.5</b>	<b>3</b>
<b>Norfloxacin</b>	<b>40</b>	<b>88</b>
<b>Sulphameth-trimet.</b>	<b>24</b>	<b>51</b>
<b>Vancomycin</b>	<b>0</b>	<b>0</b>
<b>n</b>	<b>5328</b>	<b>939</b>

# Pseudomonas aeruginosa

Resistenssi tobramysiinille, siprofloksasiinille ja piperatsobaktaamille  
Meilahden sairaala & Töölön sairaala



# **Pseudomonas aeruginosa 2003 (%R+I), Meilahti hosp.**

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

<b>WHONET mode used</b>	<b>n</b>	<b>Ctaz</b>	<b>Mero</b>	<b>Pi-Tz</b>	<b>Tob</b>	<b>Ami</b>	<b>Cip</b>
<b>All isolates</b>	<b>701</b>	<b>12</b>	<b>21</b>	<b>25</b>	<b>18</b>	<b>6</b>	<b>42</b>
<b>One/patient, first isolate</b>	<b>313</b>	<b>7</b>	<b>13</b>	<b>17</b>	<b>12</b>	<b>3</b>	<b>31</b>
<b>One/patient, most resistant</b>	<b>313</b>	<b>10</b>	<b>18</b>	<b>22</b>	<b>15</b>	<b>5</b>	<b>35</b>

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## Ps. aeruginosa, resistenssiprofiileja 2003 (Meilahden sairaala)

Profile	Num Isol	Num Pat.
PCMRTA	10	6
PCMRT	9	5
PCMR	10	4
PCM	6	4
PC RTA	1	1
PC R	7	3
PC	15	8
P MRTA	1	1
P MRT	15	6
P MR	16	9
P M	1	1
P RT	36	17
P R	1	1
P T	3	1
P	4	3
CMRTA	3	1
C	5	3
MRTA	12	5
MRT	1	1
MR	16	11
M	15	8
RTA	8	3
RT	6	5
R	83	43
T	1	1
ei res	334	202

P = Piperacillin + tazobactam

C = Ceftazidime

M = Meropenem

R = Ciprofloxacin

T = Tobramycin

A = Amikacin

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# **Pseudomonas aeruginosa 2003 (%R+I)**

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

**HUSLAB material from selected hospitals in Helsinki and Uusimaa Districts.**

<b>Hospital</b>	<b>n</b>	<b>Ctaz</b>	<b>Mero</b>	<b>Pi-Tz</b>	<b>Tob</b>	<b>Ami</b>	<b>Cip</b>
<b>Meilahti</b>	<b>313</b>	<b>10</b>	<b>18</b>	<b>22</b>	<b>15</b>	<b>5</b>	<b>35</b>
<b>Töölö</b>	<b>232</b>	<b>9</b>	<b>17</b>	<b>20</b>	<b>18</b>	<b>4</b>	<b>42</b>
<b>Helsinki City hospitals</b>	<b>235</b>	<b>5</b>	<b>10</b>	<b>15</b>	<b>15</b>	<b>5</b>	<b>40</b>
<b>Maria</b>	<b>54</b>	<b>0</b>	<b>6</b>	<b>6</b>	<b>14</b>	<b>10</b>	<b>28</b>
<b>Childrens´</b>	<b>47</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>7</b>
<b>ENT clinic</b>	<b>175</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>4</b>
<b>Outpat. in Helsinki Hlth Cntr</b>	<b>197</b>	<b>1</b>	<b>6</b>	<b>4</b>	<b>7</b>	<b>1</b>	<b>20</b>

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# Acinetobacter spp. 2003 (%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	74	12	4	11	10	18	11
Töölö	112	17	10	20	14	13	17

# Stenotrophomonas maltophilia 2003 (%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	131	7	28	46	100	100	100	100
Töölö	63	5	22	69	100	92	100	87
Childrens´	13	0	23	50	100	77	100	93
All units	415	7	20	55	95	97	100	95

# Enterobacteriaceae 2003 (%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
<b>E. coli</b>	<b>855</b>	<b>7</b>	<b>4,6</b>	<b>2</b>	<b>5</b>	<b>9</b>	<b>0</b>
<b>Kl. pneumoniae</b>	<b>201</b>	<b>10</b>	<b>3,5</b>	<b>5</b>	<b>4</b>	<b>7</b>	<b>0,5</b>
<b>Kl. oxytoca</b>	<b>157</b>	<b>7</b>	<b>1</b>	<b>5</b>	<b>0</b>	<b>3</b>	<b>0</b>
<b>Proteus mirabilis</b>	<b>103</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>
<b>Ent. cloacae</b>	<b>311</b>	<b>46</b>	<b>31</b>	<b>21</b>	<b>3</b>	<b>1</b>	<b>0</b>
<b>Enterobact. spp.</b>	<b>249</b>	<b>50</b>	<b>32</b>	<b>20</b>	<b>4</b>	<b>5</b>	<b>0,9</b>
<b>Citrob. freundii</b>	<b>35</b>	<b>43</b>	<b>37</b>	<b>17</b>	<b>3</b>	<b>6</b>	<b>0</b>
<b>Serratia marc.</b>	<b>76</b>	<b>97</b>	<b>11</b>	<b>8</b>	<b>11</b>	<b>8</b>	<b>1,3</b>
<b>Proteus vulgaris</b>	<b>50</b>	<b>94</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>
<b>Morganella morg</b>	<b>63</b>	<b>94</b>	<b>16</b>	<b>2</b>	<b>0</b>	<b>3</b>	<b>1,6</b>
<b>Total</b>	<b>2100</b>	<b>25</b>	<b>11</b>	<b>7</b>	<b>4</b>	<b>6</b>	<b>0,3</b>

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## ESBL 2003 (% frequency)

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 (7 hosp.)	4,3	1,4	3,5	1,1
Other sources	3,1	1,8	1,6	1,2
Total	3,4	1,7	2,6	1,1
Total n	1790	16466	385	2127

## **E. coli, urine isolates 2003 (%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	
<b>Nitrofurantoin</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>4</b>	<b>2</b>
<b>Mecillinam</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>7</b>	<b>5</b>
<b>Cephalexin</b>	<b>5</b>	<b>4</b>	<b>5</b>	<b>7</b>	<b>13</b>	<b>8</b>
<b>Norfloxacin</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>10</b>	<b>6</b>
<b>Sulphameth-trimet.</b>	<b>17</b>	<b>16</b>	<b>14</b>	<b>16</b>	<b>23</b>	<b>18</b>
<b>Trimetoprim</b>	<b>19</b>	<b>17</b>	<b>16</b>	<b>20</b>	<b>26</b>	<b>20</b>
<b>n</b>	<b>1397</b>	<b>2349</b>	<b>1839</b>	<b>2538</b>	<b>5382</b>	<b>16466</b>

# Enterobacteriaceae, urine isolates 2003 (%R)

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

	<b>E. coli</b>	<b>Kl. pneum.</b>	<b>Kl. oxytoca</b>	<b>Enterobacter</b>	<b>Prot. mirab.</b>
<b>Nitrofurantoin</b>	<b>2</b>	<b>16</b>	<b>3</b>	<b>21</b>	<b>99</b>
<b>Mecillinam</b>	<b>5</b>	<b>7</b>	<b>7</b>	<b>12</b>	<b>10</b>
<b>Cephalexin</b>	<b>8</b>	<b>7</b>	<b>8</b>	<b>91</b>	<b>3</b>
<b>Norfloxacin</b>	<b>6</b>	<b>4</b>	<b>1</b>	<b>4</b>	<b>6</b>
<b>Sulphameth-trimet.</b>	<b>18</b>	<b>17</b>	<b>12</b>	<b>5</b>	<b>28</b>
<b>Trimetoprim</b>	<b>20</b>	<b>25</b>	<b>16</b>	<b>10</b>	<b>43</b>
<b>n</b>	<b>16466</b>	<b>2127</b>	<b>623</b>	<b>1680</b>	<b>986</b>

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# H. influenzae & M. catarrhalis 2003 (%R+I)

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

	H. influenzae	M. catarrh.
<b>Ampicillin</b>	<b>19</b>	<b>93</b>
<b>Amoxycill-clavul.</b>	<b>0</b>	<b>0</b>
<b>Cefaclor</b>	<b>1</b>	<b>1</b>
<b>Cefuroxime</b>	<b>0</b>	<b>0</b>
<b>Doxicycline</b>	<b>5</b>	<b>0</b>
<b>Ciprofloxacin</b>	<b>0</b>	<b>0</b>
<b>Sulphameth-trim.</b>	<b>12</b>	<b>3</b>
<b>Azithromycin</b>	<b>0</b>	<b>2</b>
<b>n</b>	<b>539</b>	<b>262</b>

# Neisseria gonorrhoeae 2003 (%R+I)

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

n = 79

<b>Ciprofloxacin - R</b>	<b>18</b>
<b>Ciprofloxacin - I</b>	<b>4</b>
<b>Ceftriaxone</b>	<b>0</b>
<b>Azithromycin</b>	<b>0</b>

# Bacteroides fragilis group 2003 (%R+I)

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

n = 985

<b>Metronidazole</b>	<b>0,1</b>
<b>Pipiracillin-tazobactam</b>	<b>0,7</b>
<b>Imipenem</b>	<b>0,4</b>
<b>Clindamycin</b>	<b>46</b>
<b>Doxicycline</b>	<b>7</b>
<b>Penicillin G</b>	<b>100</b>

# Salmonella 2003 (%R+I)

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

<b>Ciprofloxacin - R</b>	<b>0</b>
<b>Ciprofloxacin - I</b>	<b>0</b>
<b>Sulphametox.-Trimetoprim</b>	<b>6</b>
<b>Ampicillin</b>	<b>16</b>
<b>Doxycycline</b>	<b>71</b>

# Campylobacter 2003 (%R+I)

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

	<b>C. jejuni</b>	<b>C. coli</b>
<b>Ciprofloxacin</b>	<b>52</b>	<b>45</b>
<b>Erythromycin</b>	<b>0,4</b>	<b>7</b>
<b>n</b>	<b>418</b>	<b>73</b>