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Prevalence and patterns of antimicrobial resistance of respiratory pathogens isolated from patients attending the cystic fibrosis clinic at Charlotte Maxeke Johannesburg academic hospital, 2006-2010

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Supplementary Information

Prevalence of Bacterial Pathogens according to age category

Age specific prevalence of *Pseudomonas aeruginosa*

	2006	2007	2008	2009	2010
Total number of patients who cultured *Pseudomonas aeruginosa* isolates per year	71	78	70	72	80
0-1 year	0/71	0/78	1/70	2/72	0/80
% prevalence for 0-1 year olds	0%	0%	1%	3%	0%
1-4 years	3/71	0/78	6/70	2/72	1/80
% prevalence for 1-4 year olds	4%	0%	9%	3%	1%
5-9 years	13/71	8/78	7/70	8/72	11/80
% prevalence for 5-9 year olds	18%	10%	10%	11%	14%
10-14 years	14/71	10/78	12/70	11/72	80
% prevalence for 10-14 year olds	20%	13%	17%	15%	10%
15-20 years	10/71	16/78	70	18/72	16/80
% prevalence for 15-20 year olds	14%	21%	31%	25%	20%
≥21 years	19/71	20/78	22/70	16/72	23/80
% prevalence for ≥21 year olds	27%	26%	31%	22%	29%

Age specific prevalence of *Staphylococcus aureus*

	2006	2007	2008	2009	2010
Total number of patients who cultured *Staphylococcus aureus* isolates per year	61	61	61	42	47
0-1 year	1/61	0/61	2/61	0/42	0/47
% prevalence for 0-1 year olds	2%	0%	3%	0%	0%
1-4 years	3/61	0/61	3/61	2/42	1/47
% prevalence for 1-4 year olds	5%	0%	5%	5%	2%
5-9 years	14/61	5/61	9/61	7/42	13/47
% prevalence for 5-9 year olds	23%	8%	15%	17%	28%
10-14 years	14/61	15/61	14/61	11/42	8/47
% prevalence for 10-14 year olds	23%	25%	23%	26%	17%
15-20 years	13/61	17/61	20/61	10/42	8/47
% prevalence for 15-20 year olds	21%	28%	33%	24%	17%
≥21 years	15/61	17/61	13/61	12/42	17/47
% prevalence for ≥21 year olds	25%	28%	21%	29%	36%

Age specific prevalence for *Haemophilus influenza*

	2006	2007	2008	2009	2010
Total number of patients who cultured *Haemophilus influenzae* isolates per year					
0-1 year	0/12	0/14	0/10	0/4	0/3
% prevalence for 0-1 year olds	0%	0%	0%	0%	0%
1-4 years	1/12	4/14	1/10	1/4	2/3
% prevalence for 1-4 year olds	8%	29%	10%	25%	67%
5-9 years	4/12	5/14	3/10	1/4	3/3
% prevalence for 5-9 year olds	33%	36%	30%	25%	100%
10-14 years	4/12	2/14	1/10	0/4	0/3
% prevalence for 10-14 year olds	33%	14%	10%	0%	0%
15-20 years	3/12	3/14	5/10	2/4	0/3
% prevalence for 15-20 year olds	25%	21%	50%	50%	0%
≥21 years	0/12	0/14	0/10	0/4	0/3
% prevalence for ≥21 year olds	0%	0%	0%	0%	0%

Age specific prevalence for *Burkholderia cepacia* complex

	2006	2007	2008	2009	2010
Total number of patients who cultured *Burkholderia cepacia* complex isolates per year	6	4	7	7	10
0-1 year	0/6	0/4	0/7	0/7	0/10
% prevalence for 0-1 year olds	0%	0%	0%	0%	0%
1-4 years	0/6	0/4	0/7	0/7	0/10
% prevalence for 1-4 year olds	0%	0%	0%	0%	0%
5-9 years	0/6	0/4	0/7	0/7	1/10
% prevalence for 5-9 year olds	0%	0%	0%	0%	10%
10-14 years	1/6	0/4	1/7	0/7	1/10
% prevalence for 10-14 year olds	17%	0%	14%	0%	10%
15-20 years	0/6	1/4	3/7	4/7	1/10
% prevalence for 15-20 year olds	0%	25%	43%	57%	10%
≥21 years	5/6	3/4	3/7	3/7	7/10
% prevalence for ≥21 year olds	83%	75%	43%	43%	70%

Age specific prevalence of *Stenotrophomonas maltophilia*

	2006	2007	2008	2009	2010
Total number of patients who cultured *Stenotrophomons maltophilia* isolates per year	2	0	2	1	4
0-1 year	0/2	0/0	0/2	0/1	0/4
% prevalence for 0-1 year olds	0%	0%	0%	0%	0%
1-4 years	0/2	0/0	1/2	0/1	0/4
% prevalence for 1-4 year olds	0%	0%	50%	0%	0%
5-9 years	1/2	0/0	0/2	0/1	1/14
% prevalence for 5-9 year olds	50%	0%	0%	0%	25%
10-14 years	1/2	0/0	0/2	1/1	1/4
% prevalence for 10-14 year olds	50%	0%	0%	100%	25%
15-20 years	0/2	0/0	1/2	0/1	1/4
% prevalence for 15-20 year olds	0%	0%	50%	0%	25%
≥21 years	0/2	0/0	0/2	0/1	1/4
% prevalence for ≥21 year olds	0%	0%	0%	0%	25%

Age specific prevalence for *Alcaligenes xylosoxidans*

	2006	2007	2008	2009	2010
Total number of patients who cultured *Alcaligenes xylosoxidans* isolates per year	2	1	1	0	0
0-1 year	0	0	0	0	0
% prevalence for 0-1 year olds	0%	0%	0%	0%	0%
1-4 years	0	0	0	0	0
% prevalence for 1-4 year olds	0%	0%	0%	0%	0%
5-9 years	1	0	0	0	0
% prevalence for 5-9 year olds	50%	0%	0%	0%	0%
10-14 years	1	0	1	0	0
% prevalence for 10-14 year olds	50%	0%	100%	0%	0%
15-20 years	0	1	0	0	0
% prevalence for 15-20 year olds	0%	100%	0%	0%	0%
≥21 years	0	0	0	0	0
% prevalence for ≥21 year olds	0%	0%	0%	0%	0%