

Online Resource 1

The Role of Methicillin Resistance and Panton-Valentine Leukocidin in Driving Antimicrobial Resistance Profiles of Pediatric *Staphylococcus aureus* Infections

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Edoardo Timitilli; Carlotta Montagnani; Silvia Campana; Caterina Bacci; Daniela Dolce; Elisabetta Venturini; Elena Chiappini; Luisa Galli

Corresponding author: Carlotta Montagnani, Infectious Diseases Unit, Meyer Children's Hospital IRCCS, Viale Gaetano Pieraccini 24, 50139 Florence, Italy; carlotta.montagnani@meyer.it

Treatment, surgical management, decolonization, and outcomes by study period

Notes: Values are n/N (%) unless otherwise indicated. Percentages for individual antibiotics are not mutually exclusive. Denominators reflect available data. P values were calculated using the Mann-Whitney U test, Pearson chi-square test, or Fisher exact test, as appropriate. IQR, interquartile range; TMP-SMX, trimethoprim-sulfamethoxazole.

Characteristic	2013–2016	2019–2024	Total	P value
Antibiotic treatment	119/124 (96.0)	359/400 (89.8)	478/524 (91.2)	.050
Treatment duration, days, median (IQR)	14 (10–19)	10 (9–18)	11 (10–18)	.020
Antibiotics used				
Clindamycin	40/124 (32.3)	103/400 (25.8)	143/524 (27.3)	.192
TMP-SMX	27/124 (21.8)	77/400 (19.3)	104/524 (19.8)	.626
Rifampicin	26/124 (21.0)	66/400 (16.5)	92/524 (17.6)	.314
TMP-SMX plus rifampicin	14/124 (11.3)	57/400 (14.3)	71/524 (13.5)	.489
Amoxicillin/clavulanate	67/124 (54.0)	131/400 (32.8)	198/524 (37.8)	<.001
Other β -lactams	63/124 (50.8)	171/400 (42.8)	234/524 (44.7)	.141
Fusidic acid	4/124 (3.2)	37/400 (9.3)	41/524 (7.8)	.046
Mupirocin	2/114 (1.8)	19/400 (4.8)	21/514 (4.1)	.188
Glycopeptides	12/124 (9.7)	44/400 (11.0)	56/524 (10.7)	.803
Macrolides	1/124 (0.8)	13/400 (3.3)	14/524 (2.7)	.205
Topical fluoroquinolone	0/124 (0)	12/400 (3.0)	12/524 (2.3)	.078
Metronidazole	3/124 (2.4)	7/400 (1.8)	10/524 (1.9)	.707
Topical gentamicin	4/124 (3.2)	19/400 (4.8)	23/524 (4.4)	.636
Gentamicin	23/124 (18.5)	15/400 (3.8)	38/524 (7.3)	<.001
Linezolid	1/124 (0.8)	13/400 (3.3)	14/524 (2.7)	.205
Tetracycline	0/124 (0)	2/400 (0.5)	2/524 (0.4)	1.000
Outcomes				
Surgical management	28/124 (22.6)	119/398 (29.9)	147/522 (28.2)	.142
Decolonization	24/124 (19.4)	77/400 (19.3)	101/524 (19.3)	1.000
Relapsing infection	11/124 (8.9)	34/395 (8.6)	45/519 (8.7)	1.000