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Supplement of

Proteus-species-associated periprosthetic hip and knee joint infections – a 15-year cohort analysis

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Pat.	Joint	Surgical procedure	Microorganisms	Prior infections	Initial antibiotic therapy	Targeted antibiotic therapy	Targeted therapy initiation (PoD)	Mixed infection – targeted AB ****	Duration (weeks)	Tier class.	success /failure
2	rTHA	Two-stage	P. mirabilis+S. epidermidis	P. mirabilis	Teicoplanin**+Moxifloxacin**	Ceftriaxone+Ciprofloxacin	4	TRS+Ciprofloxacin	7	4A	failure
3	rTHA	One-stage	P. mirabilis+P. aeruginosa	Culture negative	Cefuroxime*	Meropenem	4	Meropenem Ciprofloxacin	8	1	success
5	rTHA	DAIR	P. mirabilis+ S. lugdunensis+S. epidermidis	-	Teicoplanin**	Rifampicin Doxycyline Ciprofloxacin	3 3 7	Rifampicin Doxycyline Ciprofloxacin Fusidic acid+Ciprofloxacin	9	3B	failure
6	rTHA	Two-stage	P. mirabilis+P. aeruginosa	S. aureus	Teicoplanin***+Meropenem***	Meropenem	0	Meropenem Ciprofloxacin	6	1	success
7	rTHA	DAIR	P. mirabilis+S. lugdunensis	-	Doxycycline*+Moxifloxacin***	Rifampicin Clindamycin TRS	1 1 8	Rifampicin Clindamycin TRS	6	1	success
9	rTHA	Two-stage	P. mirabilis+ S. epidermidis+C. avidum	-	Cefuroxime***+Doxycycline*	Aztreonam Daptomycin	5 5	Aztreonam Daptomycin Moxifloxacin	8	3D	failure
16	rTHA	Two stage	P. mirabilis+E. faecalis	unknown	Cefuroxime***+Moxifloxacin***	Moxifloxacin+ Rifampicin	0 3	Moxifloxacin Rifampicin AMC	12	3F	failure
17	rTHA	DAIR	P. mirabilis+S. aureus	-	Clindamycin***	Meropenem	6	Meropene+Moxifloxacin Ciprofloxacin+Clindamycin	12	3D	failure
18	rTKA	One-stage	P. mirabilis+S. epidermidis	-	Cefuroxime**+Doxycycline*	Cefalexin	11	Cefalexin TRS+ Rifampicin TRS+ Fusidic acid	12	4A	failure
19	rTHA	One-stage	P. mirabilis+E. faecalis+ E. coli	-	Cefazolin***	Cefotaxime+ Daptomycin	7 9	Cefotaxime Aztreonam+Daptomycin Meropenem Ceftazidime/Avibactam+Fosfomycin Ceftazidime/Avibactam+Levofloxacin	30	3D	failure
20	rTHA	Two stage	P. mirabilis+E. faecalis	-	PIT***	Meropenem	unknown	Meropenem Ciprofloxacin Dalbavancin	24	1	success
22	rTHA	DAIR	P. vulgaris+E. faecalis	Culture negative	Cefazolin**	PIT	7	PIT, Moxifloxacin, AMC, TRS, Levofloxacin, Teicoplanin	17	4A	failure
23	rTHA	Two-stage	P. mirabilis+E. coli	S. epidermidis	Doxycycline**+Teicoplanin**	Trimethoprim	4	Trimethoprim Meropenem	12	4A	failure
25	rTKA	Two-stage	P. mirabilis+E. faecalis, K. pneumoniae, C. koseri	unknown	PIT***+Cefazolin*	PIT+ Teicoplanin	0 4	PIT Aztreonam Ceftazidime Ciprofloxacin Dalbavancin	12	3D	failure
26	rTKA	DAIR	P. mirabilis+P. aeruginosa, C. koseri, E. coli	C. glabrata+ S. epidermidis	Cefuroxime*	Meropenem	0	Meropenem	8	3E	

Table S1: Detailed microbial profiles, surgical details, antibiotic therapy, and success/failure rate as per the Tier classification in patients with mixed infections. Antibiotics targeted for *Proteus* spp. are indicated in bold, while those targeting co-pathogens are written in regular fonts. Every line represents one patient. Patients 23 and 24 refer to the same patient but are mentioned separately because they underwent different surgeries and treatments. Antibiotic agents targeting co-pathogens are not mentioned in this table. Please see the supplementary material for additional details on antibiotic therapies in polymicrobial infections.

*Antibiotic therapy was given as perioperative prophylaxis; **antibiotic therapy was started before surgery and continued during surgery; ***Empirical antibiotic therapy, which was started during surgery and changed accordingly to antibiogram; ****AB changes classified as continued, switched, de-/escalated, or salvage therapy. Pat., patient number; PoD postoperative day; rTKA, revision total hip arthroplasty; DAIR, debridement antibiotic and implant retention; UPIC Unexpected, positive intraoperative culture; PIT Piperacillin-tazobactam, TRS trimethoprim-sulfametrol, AMC amoxicillin/clavulanic acid; Tier classification: 1 successful without suppressive antibiotic therapy, 3B septic revision > 1 year after PJI diagnosis; 3D septic revision > 1 year after PJI treatment; 3E amputation, resection, arthroplasty, arthrodesis; 3F retained spacer; 4A death within 1 year of PJI treatment.