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Supplement of

Osteosynthesis-associated infection of the lower limbs by multidrug-resistant and extensively drug-resistant Gram-negative bacteria: a multicentre cohort study

Efthymia Giannitsioti et al.

Correspondence to: Efthymia Giannitsioti (gianiemi@hotmail.com)

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1 **Supplementary table S1. Clinical characteristics and antimicrobial**
 2 **treatment in patients with OAI according to the type of surgery**

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Variables, n (%)	Implant removal n= 27	Implant retention with debridement, n= 30	All procedures n=57	p
Age (+/-SD) years	56.59 (21.05)	56.03(22.54)	56.30(21.65)	0.923
Male	10(37)	13(43.3)	23(40.4)	0.788
Female	17(63)	17(56.7)	34(59.6)	
Comorbidities ¹	8(29.6)	9(30)	17(29.8)	>0.999
History of trauma	24(88.9)	26(86.7)	50(87.7)	>0.999
Prior surgery for implant infection	9(33.3)	10(33.3)	19(33.3)	>0.999
Early	8(29.6)	20(66.7)	28(49.1)	0.008
Late infection ²	19(70.4)	10(33.3)	29(50.9)	
Fever	5(18.5)	6(20)	11(19.3)	>0.999
Soft tissue infection	16(59.3)	18(60)	34(59.6)	>0.999
Sinus tract	9(33.3)	15(50)	24(42.1)	0.284
Location				
-hip, femur	13(48.1)	15(50)	28(49.9)	>0.999
-knee, tibia, foot	14(51.9)	15(50)	29(50.1)	
MDR GNB	21(77.8)	23(76.7)	44(77.2)	>0.999
XDR GNB ³	6(22.2)	7(23.3)	13(22.8)	
<i>Pseudomonas aeruginosa</i>	6(22.2)	8(26.7)	14(24.6)	0.765
Use of fluoroquinolones	5(18.5)	3(10)	8(14)	0.457
Use of carbapenems	17(63)	15(50)	32(56.1)	0.425
Use of colistin	5(18.5)	6(20)	11(19.3)	>0.999
Combined antibiotics	15(55.6)	22(73.3)	37(64.9)	0.178
Antibiotics > 42 days	13(48.1)	20(66.7)	33(57.9)	0.187
More than one surgical procedure during follow-up	6(22.2)	8 (26.7)	14(24.6)	0.765
Remission of infection	16(59.2)	13(43.3)	29(50.9)	0.292

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5 Footnotes

6 ¹ Comorbidities: Diabetes mellitus, Chronic renal failure, Cardiovascular Diseases
 7 (heart disease, stroke), COPD (Chronic Obstructive Pulmonary Disease), Malignancy,
 8 Rheumatologic diseases

9 ² infection onset within the first 4 weeks (early) or beyond 4 weeks (late)

10 following index osteosynthesis of any bone of the lower extremities.

11 ³ MDR = Multi Drug Resistant, XDR= Extensively Drug Resistant, GNB=Gram Negative
 12 Bacteria

13 ⁴ Remission of infection: no sign of infection during a 24-month follow up