



Supplement of

**Prevalence, microbiological features, and risk factors
for periprosthetic joint infections in oncologic
patients following tumor resection and
megaprosthesis reconstruction**

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Table S1. Location of the tumors.

Location of endoprosthetic reconstruction	No infection (n=237)	Infection (n=36)	p-value
Proximal femur	111 (46.8)	16 (44.4)	0.85
Distal femur	61 (25.7)	12 (33.3)	0.41
Knee	4 (1.7)	0 (0.0)	0.99
Proximal tibia	12 (5.1)	5 (13.9)	0.057
Proximal humerus	49 (20.7)	3 (8.3)	0.10

Data are presented as frequency (percentage).

Table S2. Type of tumors.

Tumor	No infection (n=237)	Infection (n=36)	p-value
Osteosarcoma	49 (20.7)	12 (33.3)	0.38
Chondrosarcoma	55 (23.2)	6 (16.7)	0.52
Ewing	20 (8.4)	2 (5.6)	0.74
Giant cell tumor	6 (2.5)	1 (2.8)	0.99
Other	11 (4.6)	2 (5.6)	0.68
Metastatic tumor	87 (36.7)	10 (27.8)	0.35
Soft tissue sarcoma	9 (3.8)	3 (8.3)	0.20

Data are presented as frequency values (percentage).

Table S3. Microbiology of periprosthetic joint infections.

Pathogens	Patients (n=36)
Methicillin-Resistant <i>Staphylococcus epidermidis</i>	7 (19.4%)
Methicillin-Sensitive <i>Staphylococcus epidermidis</i>	3 (8.3%)
<i>Staphylococcus hominis</i>	1 (2.8%)
<i>Staphylococcus capitis</i>	1 (2.8%)
Methicillin-Resistant <i>Staphylococcus aureus</i>	6 (16.7%)
Methicillin-Sensitive <i>Staphylococcus aureus</i>	1 (2.8%)
Methicillin-Resistant <i>Staphylococcus epidermidis</i> + <i>Pseudomonas aeruginosa</i> , <i>Acinetobacter baumannii</i> , <i>Candida</i> spp. + Methicillin-Resistant <i>Staphylococcus aureus</i> + <i>Enterobacter cloacae</i> + <i>Klebsiella pneumoniae</i> + <i>Klebsiella pneumoniae</i> , <i>Pseudomonas aeruginosa</i> + <i>Candida</i> spp., Methicillin-Resistant <i>Staphylococcus aureus</i>	1 (2.8%) 1 (2.8%) 1 (2.8%) 1 (2.8%) 1 (2.8%) 1 (2.8%)
Methicillin-Sensitive <i>Staphylococcus epidermidis</i> + <i>Candida</i> spp.	1 (2.8%)
<i>Staphylococcus capitis</i> + <i>Aspergillus</i> spp.	1 (2.8%)
<i>Acinetobacter baumannii</i> + <i>Enterococcus faecium</i> + <i>Proteus mirabilis</i> + <i>Klebsiella pneumoniae</i> + <i>Pseudomonas aeruginosa</i> + <i>Enterococcus faecalis</i> , <i>Klebsiella Pneumoniae</i> , <i>Candida</i> spp,	1 (2.8%) 2 (5.6%) 1 (2.8%) 1 (2.8%) 1 (2.8%)
<i>Aspergillus</i> spp.	1 (2.8%)
<i>Streptococcus oralis</i>	1 (2.8%)
<i>Achromobacter</i> spp.	1 (2.8%)
Infections including Gram negative pathogens	11 (30.6%)
Fungal infections	6 (16.7%)
Polymicrobial infections	14 (38.9%)

Data are presented with frequency (percentage).
