

Table 4. Microorganisms isolated and device removal during infection in pediatric patients with solid tumors using a TIVAP

	Patients affected	Device removal
	n=16	n=9
Gram-positive microorganisms	6 (37.5%)	1 (11.1%)
<i>Staphylococcus epidermidis</i>	2	0
<i>Staphylococcus hominis</i>	1	0
<i>Staphylococcus haemolyticus</i>	2	0
<i>Pseudomonas aeruginosa</i>	1	1
Gram-negative microorganisms	9 (56.25%)	6 (66.7%)
<i>Escherichia coli</i>	3	2
<i>Klebsiella pneumoniae</i>	2	2
<i>Acinetobacter junii</i>	1	1
<i>Acinetobacter baumannii</i>	1	1
<i>Enterobacter cloacae</i>	1	0
Fungi	1 (6.25%)	1 (11.1%)
<i>Candida albicans</i>	1	1
Multi-infection	1 (6.25%)	1 (11.1%)
<i>Staphylococcus capitis</i> and <i>Sphingomonas paucimobilis</i>	1	1

TIVAP=totally implantable venous access port