

PROSTHETIC JOINT INFECTION AFTER TOTAL KNEE ARTHROPLASTY: A 10 YEAR REVIEW IN A TERTIARY CENTRE

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INTRODUCTION:

Prosthetic joint infections (PJIs) is a severe complication of total knee arthroplasty. There is a paucity of local data regarding PJIs after TKAs in Malaysia

OBJECTIVE:

To study the incidence rate of PJIs, types of PJIs according to Tsukayama classification, common organism involved and final outcomes in patients undergone TKAs in Hospital Canselor Tuanku Muhriz.

METHODS:

A retrospective study was performed to review all TKAs done within a 10-year period (Jan 2008- Dec 2017). The diagnosis of PJIs was made according to Musculoskeletal Infection Society Criteria.

RESULTS:

A total of 990 patients undergoing TKAs with mean age of 73.7 years Analysis revealed that only 13 patients (1.3%) developed PJIs with 38.4% early postoperative infection (Type II), 30.8% acute hematogenous infection (Type III) and 30.8% were late chronic infections (Type IV). The isolated organisms were Methicillin-Sensitive *S. aureus* (MSSSA) (30.8%), Methicillin-Resistant *Staphylococcus aureus* (MRSA) (23.1%), Coagulase Negative *Staphylococci* (7.7%), *Bacillus* species (7.7%), *Pseudomonas Aeurogenosa* (15.4%) and *Escherichia coli* 7.7%. At final follow up (mean 44 months) revealed that only 23.1% underwent two stage revision arthroplasty, 53.8% underwent resection arthroplasty with antibiotic spacer and 23.1% underwent debridement and implant retention.

CONCLUSION:

The incidence of PJIs in Hospital Canselor Tuanku Muhriz is low (1.3%) and comparable to other established arthroplasty centres and

there were Type II, III and IV PJIs. The MSSA and MRSA is still the most common organism implicated in PJIs.

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