

MULTIDISCIPLINARY MANAGEMENT OF PROSTHETIC JOINT INFECTION: SINGLE CENTRE RETROSPECTIVE AUDIT

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Introduction

- Prosthetic joint infection (PJI) is a complex complication of arthroplasty associated with significant morbidity and mortality.
- Management requires coordinated multidisciplinary (MDT) input.
- This study evaluated the impact of an ortho-infection MDT at Cork University Hospital (CUH) on treatment decisions and patient outcomes.

Methods

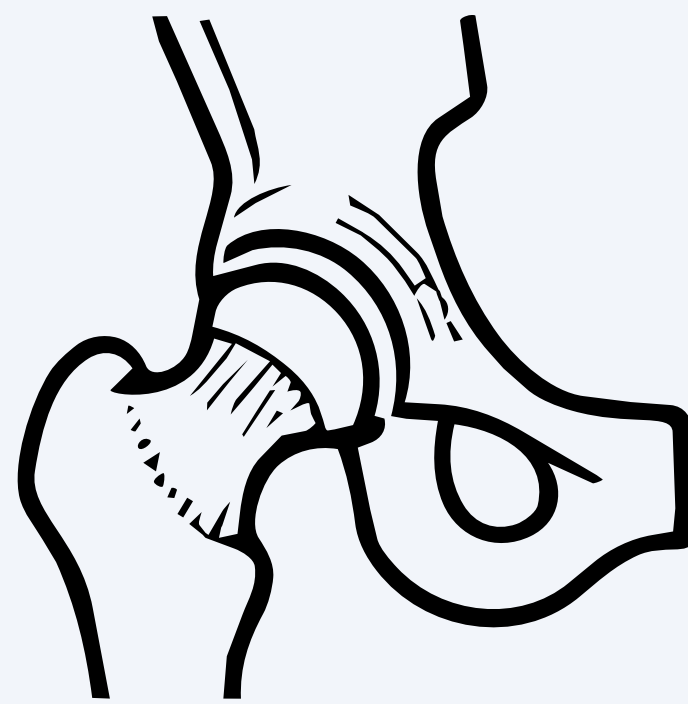
- Retrospective audit of all PJI cases discussed at the CUH ortho-infection MDT.
- Study period: December 2023 – September 2025.
- Diagnosis based on EBJIS principles.
- Data collected: demographics, microbiology, surgical/antimicrobial management and treatment intent.
- Outcomes assessed using predefined clinical endpoints aligned with contemporary consensus frameworks.

MDT Structure



Baseline Characteristics and Results

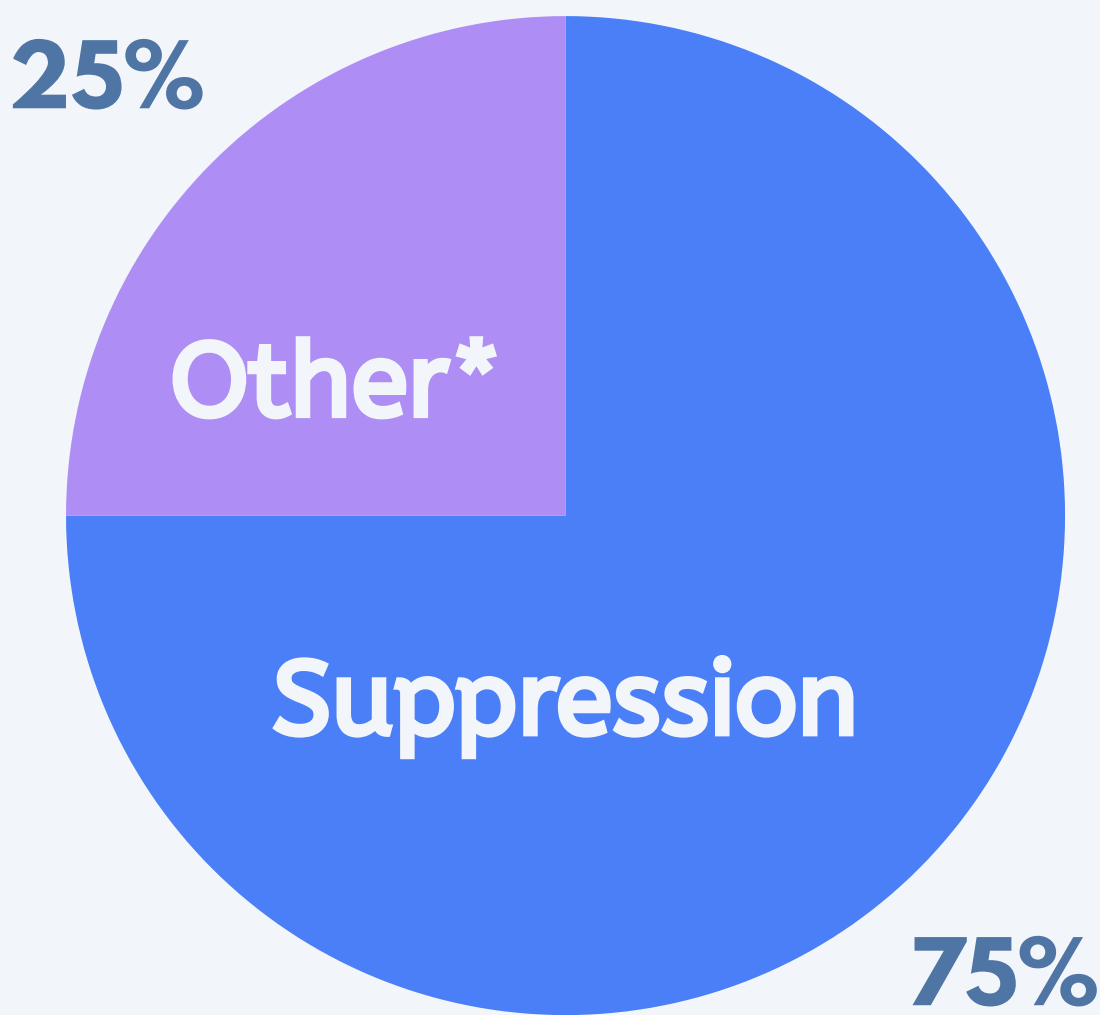
Characteristic	Value (n)
Total patients	20
Mean Age	75.9
Infectious agent	
Candida	3
S. pyogenes	2
S. auerus	4



60% PJIs Involved the Hip

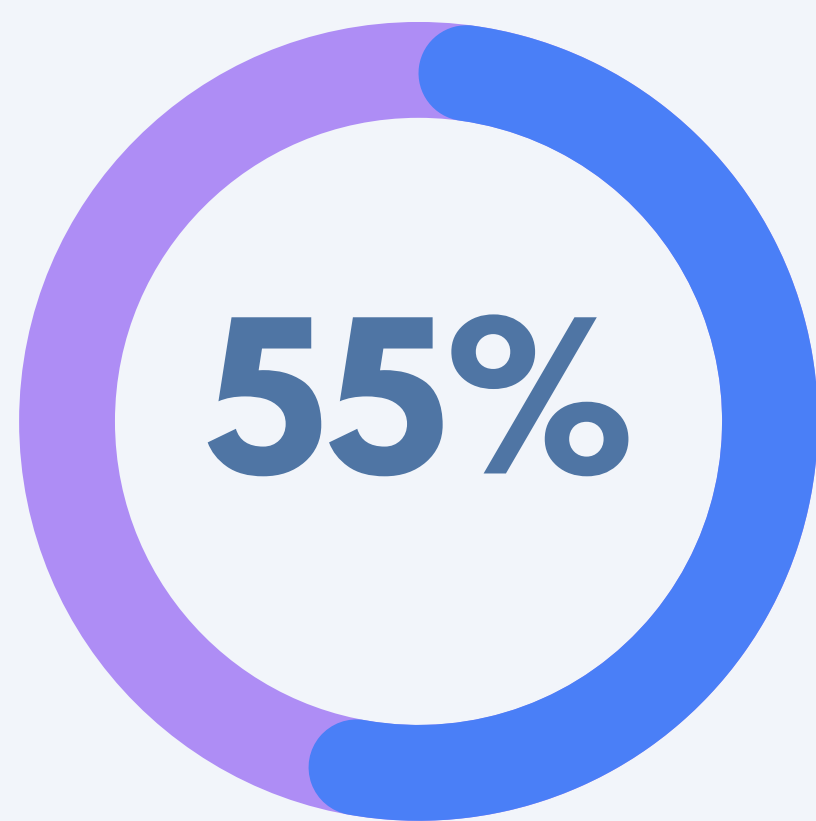


40% PJIs Involved the Knee



- Fifteen (75%) of Patients were managed with suppressive antimicrobials
- *Five (25%) were managed via a curative antimicrobial and/or surgical strategy

Outcomes



Over half of cases achieved clinical resolution

Possible treatment failure occurred in one fifth of cases



Conclusion

- MDT-guided care facilitated structured, individualised management of complex PJI.
- Findings support an integrated approach aligned with EBJIS and international consensus principles.
- Further optimisation of MDT structure, including review frequency and broader specialty integration, is warranted.
- Prospective studies with larger cohorts are needed to define the clinical impact of MDT-guided PJI management.

References

Ha nssen JIJ, van der Linden HMJ, van de Beek MT, van der Wal RJP, Termaat MF, de Boer MGJ, et al. Implementation of multidisciplinary team decisions on the managementof complex bone and joint infections: an observational study. BMC Musculoskelet Disord. 2025;26(1):64. doi:10.1186/s12891-025-08329-0.