## BACTERIOLOGY OF DIABETIC FOOT INFECTION IN HOSPITAL TELUK INTAN

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**Introduction:** Foot infections are a major complication of diabetes and may subsequently develop gangrene and lower extremity amputation1. This cross-sectional study was done to  $\neg$  nd out the common bacteriology of diabetic foot infection in Hospital Teluk Intan .

**Methodology:** This cross-sectional study was carried out by reviewing the records of patients who presented with diabetic foot infection requiring debridement and admission to Hospital Teluk Intan for a 31-month period from January 2017 till July 2019. The exclusion criteria are patients who underwent wound debridement as outpatient.

**Results:** 167 data was collected and noted the most common organism is Proteus mirabilis 26% (43 cases) followed by Streptococcus Agalactiae grp B 14% (23 cases), Staphylococcus Auereus and Pseudomonas Aeruginosa 12% (20 cases each), Klebsiella Pneumonia 11% (18 cases) and Escherichia Coli 10% (17 cases). 84% of Proteus mirabilis isolated cases were sensitive to Ampicillin+Sulbactam (36 cases).

**Conclusion:** The National Health and Morbidity Survey 2015 reported diabetes prevalence for adults above age of 18 are 17.5% in Malaysia2. Foot infections are responsible for most of the diabetes associated hospital admissions. In Hospital Teluk Intan, patients with diabetic foot infections are empirically covered with Ampicillin+Sulbactam (Unasyn). Antibiotic is then changed based on C+S results taken during debridement. As per this study 84% of cases with Proteus miraabilis are sensitive to Ampicillin+Sulbactam. Increasing diabetes mellitus prevalence and its related complications especially diabetic foot infections are alarming. Early treatment and initiation of appropriate antibiotics targeting common organisms is crucial in preventing major amputations.