

A retrospective audit: Antimicrobial resistance in Diabetic Foot in 2021

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INTRODUCTION

This retrospective analysis summarizes common bugs in Hospital Sungai Petani and tests any resistance against antibiotics.

METHODS:

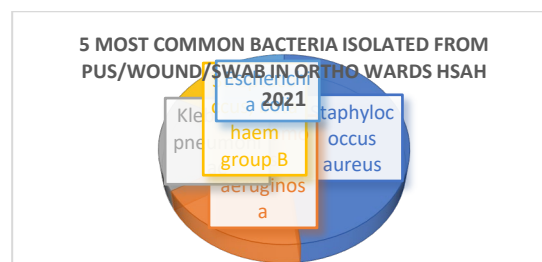
We sampled all the bone, swab and pus culture and sensitivity test taken from DFU admissions from the both male and female ortho ward. Positive cultures then tested with any antibiotic resistance

RESULTS

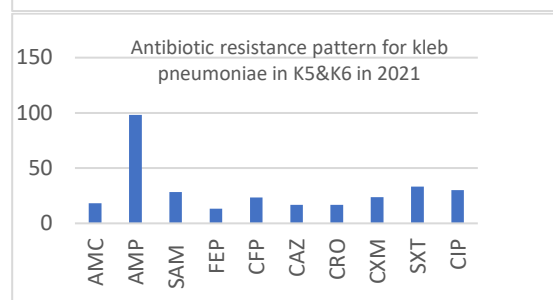
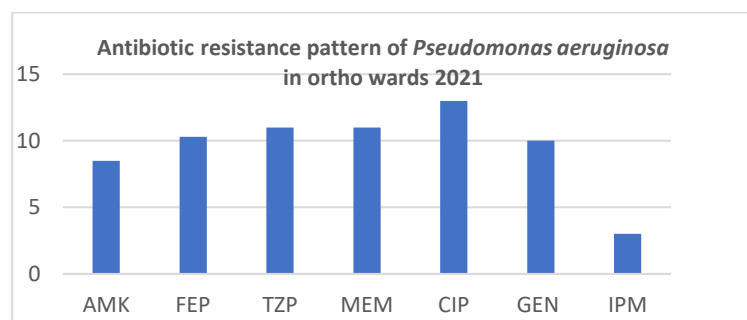
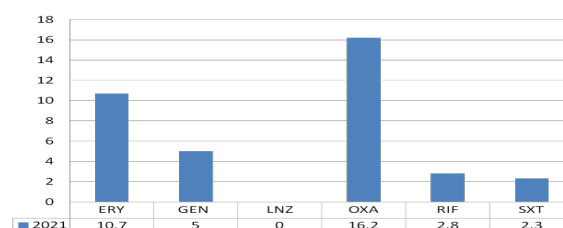
Staphylococcus aureus followed by pseudomonas aeruginosa and Klebsiella pneumoniae majors DFU cases. The usage of broad-spectrum antibiotic such IV Unasyn in DFU cases are established during patient's first presentation. After culture result released only then a review is being made and antibiotics is changed accordingly. Despite increasing resistance of staph aureus by using cloxacillin but it only accounts to 16% of the sample, hence cloxacillin remains relevant as primary antibiotic.

GUIDE

	Antibiotic		Antibiotic
GEN	Gentamicin	CAZ	Ceftazidime
LNZ	Linezolid	CR O	Ceftriaxone
OX A	Cloxacillin	CX M	Cefuroxime
RIF	Rifampicin	CIP	Ciprofloxacin
SXT	Sulfamethoxazole/trimethoprim	IP M	Imipenem
AMC	Amoxicillin-clavulanic	ME M	Meropenem
AMP	Ampicillin/ Sulbactam	TZ P	Piperacillin/tazobactam



Antibiotic resistance pattern of *Staphylococcus aureus* in ward K5 & K6 from Jan to Dec 2021



CONCLUSION

Wide spectrum antibiotic as primary antibiotic should be used at discretion as it might develop resistance in the near future as how Tazocin had become towards P aeruginosa and Kleb pneumonia developed resistance against Unasyn.

REFERENCES

1. Diabetic foot infections: what have we learned in the last 30 years? Ilker Uçkay et al, Nature; Science Direct, <https://www.sciencedirect.com/science/article/pii/S1201971215002337>