Knowledge, Attitude and Practice of Prescribers on Antibiotic Use



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Introduction

- The increase in antimicrobial resistance (AMR) is a worldwide health issue, which can lead to prolonged illness, increased healthcare cost, morbidity and mortality.
- This fuels the need for new drugs but no new major class of antimicrobial has been found since late 1980s.1
- AMR is also an issue in Sibu Hospital as internal report showed 626 cases of multidrug-resistant organisms between January to November 2018.
- Excessive use and misuse of antibiotics are considered the primary factors that accelerate the AMR process.¹
- This study aims to study the knowledge, attitude and practice (KAP) of prescribers in Sibu Hospital on the rational use of antibiotics and AMR.

Material and methods

- A cross-sectional, observational study was conducted • between September to November 2019 in Sibu Hospital.
- A self-administered online questionnaire adopted and • modified from an earlier study² (α =0.654) was used.
- The link to the online questionnaire (created using • Google Forms) was emailed to the prescribers.



Knowledge



Fig. 4: Proportions of correct and wrong answers in the knowledge section.

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•Median knowledge score was 5. • 3.6% (both were specialists) had full score. • >85% had good knowledge on antibiotic selection (Q1-5). • >70% had **poor** knowledge on local resistance rate (Q7-8). •Prescribers from surgical based departments were more aware of local resistance rate than their non-surgical colleagues (*P*=0.036). •Specialists had better knowledge than their juniors (*P*=0.024).

Attitude

• Most of the prescribers acknowledged that AMR is a problem at the global, national and local levels.

Results

- The levels of position did not affect their confidence on antibiotic use (P=0.678).
- All respondents would review antibiotic prescriptions with a senior colleague.
- Almost all respondents agreed on the importance of knowledge on antibiotics in their career and would like to have educational programmes on antibiotic use.



^{2.} Garcí C, Llamocca L, Garcí K, Jiménez A, Samalvides F, Gotuzzo E et al. Knowledge, attitudes and practice survey about antimicrobial resistance and prescribing among physicians in a hospital setting in Lima, Peru. BMC Clinical Pharmacology. 2011;11(1). 3. Tan WL, Shahfini I, Zuraidah A. Knowledge, attitude and practice of antibiotics prescribing among medical officers of public health care facilities in the state of Kedah, Malaysia. Med J Malaysia. 2015; 70(5)