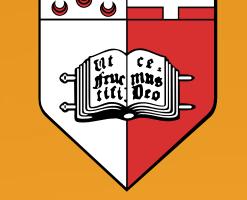
PERCEPTIONS OF POTENTIAL ANTIBIOTIC PRESCRIBING BY PHARMACISTS

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INTRODUCTION

Antibiotics have been a breakthrough in medicine, however their use is also associated with risks, one of which is the emergence of antimicrobial resistance.¹ The misuse of antibiotics is affecting not just the individual patient but the community at large.² Antibiotic use driven by a multidisciplinary team, including pharmacists, achieves a better clinical outcome by reducing harm to patients and decreasing potential for the emergence of antibiotic resistance.³

ΔΙΝ

To evaluate pharmacist's perception of potential antibiotic prescribing by pharmacists

METHOD

A self-administered questionnaire to assess potential antibiotic prescribing by pharmacists in Malta was developed, psychometrically evaluated adopting a two-round Delphi process and disseminated to all practising pharmacists (N=930) during a 3-month period. This tool was based on the results of a questionnaire intended for medical practitioners developed by the authors.⁴

RESULTS

Two hundred and nine pharmacists answered the questionnaire; 42% are employed in community pharmacies, 16% are locum pharmacists and 14% work in their own private pharmacy.

Pharmacists were provided with a list of possible risks to patients related to pharmacist prescribing (Table 1). The majority of pharmacists (77%) are in agreement with pharmacists prescribing a selected number of antibiotics. Reasons given are that pharmacist prescribing would increase recognition of the intervention of pharmacists within the healthcare team. Protocol-based prescribing was the preferred model for prescribing by 60% of pharmacists. Half of the respondents (50%) feel competent to prescribe, 34% have no opinion and 16% do not feel competent at all. Respondents (58%) claimed that attending a post-graduate specialised course to develop advanced skills in prescribing makes pharmacists more competent to prescribe.

Co-amoxiclav for an uncomplicated upper respiratory tract infection is the antibiotic that most pharmacists (51%) feel confident prescribing. When pharmacists were asked whether they feel comfortable prescribing other prescription medications rather than antibiotics, 93% answered positively, with 83% feeling mostly comfortable prescribing lactulose solution.

Table 1 Risks to patients with potential pharmacist prescribing (N=209)

Risks	Percentage of Pharmacists (%)
Misdiagnosis	57
Increased bacterial resistance	53
Possible therapeutic failure	50
Under/over treatment	39
Undesired consequences in co-morbidities	38
Increased interactions	37
Increased allergic reactions	35
Increased side-effects	32
Patients not taking medications	30

CONCLUSION

Pharmacists feel competent prescribing specific antibiotics within a protocol-based prescribing model. Postgraduate courses which develop pharmacists' clinical skills to support prescribing within a multidisciplinary team would make pharmacists feel more comfortable to do so.

References

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