



Download PDF



Search ScienceDirect



Advanced search

Article outline

Methods

Results

Conclusions

Research in Social and Administrative
Pharmacy

Volume 10, Issue 5, September–October 2014, Pages e16

Design of an Educational Intervention in Portuguese
Community Pharmacists to Improve Antibiotics UseFátima Roque^{1, 2, 3}, Sara Soares², António Teixeira-Rodrigues², Luiza Breitenfeld¹, Adolfo Figueiras⁴, M.T. Herdeiro^{2, 5, 6}[Show more](#)<http://dx.doi.org/10.1016/j.sapharm.2014.07.047>[Get rights and content](#)

Improve antibiotics use by an educational intervention in community pharmacists towering their attitudes related to microbial resistances and antibiotic misuse.

Methods

The study included four phases: (1) a focus group study with community pharmacists; (2) questionnaire design and reliability assessment; (3) a cross-sectional study with 1197 pharmacists, and (4) design and implementation of educational intervention, a cluster-randomized controlled trial, with 4 cluster in control group and 4 cluster in intervention group. The study was approved by Portuguese Data Protection Authorities (Comissão Nacional de Proteção de Dados/CNPD) (Permit No. 2886/2013).

Results

Situations explored during focus group sessions, were helpful to construct a questionnaire with 17 statements about attitudes and knowledge of pharmacists to microbial resistance and antibiotics misuse, followed in each case by a continuous visual analogue scale (VAS), and 4 statements identifying situations where pharmacists, recognized that sometimes antibiotics could be dispensed without medical prescription, a measure of propensity to dispense antibiotics without medical prescription. Questionnaire internal consistency and reliability was demonstrated. The rate of response during cross-sectional study was 64,8 %. Propensity to dispense antibiotics without prescription among respondents was 48,6 %. It was identified three major attitudes as influencing propensity to dispense antibiotics without medical prescription: complacency with patients, responsibility of others (patients and health-care systems) and fear/precaution. Attending this attitudes, educational outreach visits were made with: (1) interactive educational meeting by PowerPoint presentation (IEM); (2) printed educational materials (pharmacists reminders and a poster to display in pharmacy facilities); (3) selected articles referenced during IEM. A participation pharmacist in the educational interventions was around 55% within the cluster intervention group.

Conclusions

Interventions were well accepted by pharmacists and, all of them demonstrated motivation to promote rational use of antibiotics of their patients.

This work was supported by Foundation for Science & Technology (Fundação para a Ciência e Tecnologia - FCT) grants [PTDC/SAU-ESA/105530/2008] and [Pest-OE/EGE/UI4056/2014] from the Portuguese Ministry of Science & Education.

ADVERTISEMENT ✕

ELSEVIER
WebShop

Elsevier's
Webshop
Supporting
authors around
the world

[Learn more ▶](#)



ELSEVIER

[About ScienceDirect](#) [Remote access](#) [Shopping cart](#) [Contact and support](#)
[Terms and conditions](#) [Privacy policy](#)

Cookies are used by this site. For more information, visit the [cookies page](#).

Copyright © 2016 Elsevier B.V. or its licensors or contributors. ScienceDirect ® is a registered trademark of Elsevier B.V.

 RELX Group™

▼ Recommended articles

[Perspective of community pharmacists on their pra...](#)

2015, Research in Social and Administrative Pharmacy [more](#)

[Synthesis of 3',4'-difluoro-3'-deoxyribonucleosides ...](#)

2014, Bioorganic & Medicinal Chemistry [more](#)

[Pharmacist services provided in general practice cli...](#)

2014, Research in Social and Administrative Pharmacy [more](#)

[View more articles »](#)

► Citing articles (0)

► Related book content

