Practicing evidence-based pharmacy

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Pharmacists and all other healthcare professionals need to identify and optimally use their most important and trusted sources for improving health outcome for patients and customers. This means using different information sources based on the type of question; that is, does it concern selection of medication, route or dose individualisation based on physiological or medication-dependent factors, preparation of medication, or follow-up of effects. This requires navigating local, national and international information sources from local or regional healthcare providers, authorities, professional associations and commercial sources, written publications, support systems, databases, internet and smartphone applications (Apps).

In this issue of EJHP, Maria Rosa Cantudo Cuenca and coworkers present a study on the ‘availability and medical professional involvement in mobile healthcare applications related to pathophysiology and pharmacology of HIV/AIDS’.1 Of course, this is important to assess but it is only a very small part when practicing evidence-based medicine (EBM) and pharmacy. According to David Sackett, practicing EBM is about integrating individual clinical expertise and the best external evidence.2 It also concerns ‘the responsible provision of drug therapy for the purpose of achieving definite outcomes that improve a patient’s quality of life, according to the Hepler and Strand definition of Pharmaceutical care’.3

The study1 is about looking for the best external evidence and the conclusion was that the current availability of HIV/AIDS applications is limited, the number of downloads is low and more than half of them have no scientific backing from healthcare professionals. This is not surprising and a previous study has shown that the number of Apps for health-related information is rapidly growing, as is the number of users, including healthcare professionals.4 It is important to state that these studies do not assess in detail whether the Apps are reliable and usable. So, can we use Apps to improve patient care?

For all EBM sources we first need to know whether we can trust the source; that is, is it up to date, is the content based on best available evidence, is the preparation process fully described and transparent, are important experts, users and customers involved, are conflicts of interest declared and taken into account? The second step is to assess whether we can use the source; that is, is it easy to find, read, understand and apply, and does it give us information to improve patient care? An App or any other source is useless or even dangerous unless these questions are assessed with a positive result.

Although some functions in some Apps might be of value, the general assumption from the studies and from my own experience and research is that Apps cannot be trusted and are of no value for practicing EBM and pharmacy. Instead pharmacists and others need to identify and assess their own EBM sources and learn to use them wisely.

In the previous issue,5 in this issue6 and in several forthcoming issues of EJHP we will try to help you as a pharmacist to improve your general and specific knowledge of EBM and to give you the tools to practice it.

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