People with coexisting diabetes, chronic kidney disease and hypertension report the psychosocial effects of being prescribed multiple medications

10.1136/eb-2014-101829

Alan J Zillich
Department of Pharmacy Practice, Purdue University College of Pharmacy, Indianapolis, Indiana, USA

Correspondence to: Dr Alan J Zillich, Department of Pharmacy Practice, Purdue Pharmacy Programs, Purdue University College of Pharmacy, 5th/3rd Bank Faculty Office Building, 640 Eskenazi Avenue, Indianapolis, IN 46202, USA; azillich@purdue.edu


Implications for practice and research

- Patients’ health and medication beliefs contribute to intentional medication non-adherence.
- Interventions to improve intentional medication non-adherence must be patient-centred. Strategies such as team-based care and motivational interviewing should be considered.

Context

Adherence to prescribed medication is estimated to occur in only 50% of patients. As the numbers of comorbid conditions and medications increase, the risk of medication non-adherence also increases. Interventions to improve medication adherence are often complex, multifactorial and individualised. Rooted in this individualised approach is a need to understand the behavioural motivations and challenges that influence patient adherence to medicines. One proposed intervention strategy utilises motivational interviewing (MI) to explore and resolve resistance to medication adherence. In this study, Williams and Manias examined patients’ responses during an MI intervention designed to improve medication adherence.

Methods

The purpose of the study was to explore the motivation and confidence of patients with coexisting diabetes, hypertension and chronic kidney disease to take their medication as prescribed. As part of a randomised controlled trial investigating a programme to improve adherence, patients in the intervention group (n=39) received a series of MI phone calls every 2 weeks during a 12-week period. During the calls, an intervention nurse, trained in MI, took handwritten notes to capture the patients’ responses. The handwritten notes for all patients’ calls (n=164) were transcribed and used for the qualitative analyses. The thematic analyses incorporated the Health Belief Model. Transcripts were independently reviewed by two investigators until saturation of themes and subthemes occurred.

Findings

 Patients were an average of 68 years old and taking an average 7.6 medications daily. Transcribed data of 749 free nodes were organised into themes that mapped to motivational categories of the modified Health Belief Model, including: the importance of health, the perceived seriousness of disease, psychosocial and interpersonal aspects, perceived benefits, and barriers to action. Patients’ motivation to take medication as prescribed was hindered by their chronic and sometimes asymptomatic disease, the complexity of their medication regimen, and the interpersonal relationship with healthcare providers.

Commentary

Often, patients’ diseases and disease beliefs can hinder medication adherence, particularly when a disease is largely asymptomatic. In a cross-sectional study of 24 017 patients, 8% of respondents took less medication than prescribed because they felt better, while 34.3% took less medication due to a variety of health and medication beliefs. This type of medication non-adherence is often described as intentional non-adherence, reflecting active, rational decision-making on the part of the patient to not take their medication as prescribed.

Herein lays a challenge for healthcare providers to improve medication adherence by reducing intentional non-adherence. Interventions for intentional non-adherence must compliment the health beliefs of the patient with empathy, empowerment and knowledge. Interpersonal communication and relationship building between healthcare providers and patients must occur.

Williams and Manias described patient motivation in relation to medication adherence as being reliant on a partnership between the patient and healthcare providers. Lack of sensitive communication and trust between patients and healthcare providers led to non-adherence. These findings support the use of strategies such as MI and interprofessional, team-based care to improve patient adherence. Indeed, systematic reviews of practitioners such as nurses and pharmacists have demonstrated that when these clinicians are part of the healthcare team, patient adherence and outcomes improve. Our healthcare systems must strive to collaborate across healthcare disciplines to address the complex problems associated with non-adherence to medication.

Competing interests None.

References

People with coexisting diabetes, chronic kidney disease and hypertension report the psychosocial effects of being prescribed multiple medications
Alan J Zillich

Evid Based Nurs 2015 18 originally published online April 30, 2014
doi: 10.1136/eb-2014-101829

Updated information and services can be found at:
http://ebn.bmj.com/content/18/1/18

These include:

References
This article cites 5 articles, 0 of which you can access for free at:
http://ebn.bmj.com/content/18/1/18#BIBL

Email alerting service
Receive free email alerts when new articles cite this article. Sign up in the box at the top right corner of the online article.

Topic Collections
Articles on similar topics can be found in the following collections

Adult nursing (59)
Hypertension (220)

Notes

To request permissions go to:
http://group.bmj.com/group/rights-licensing/permissions

To order reprints go to:
http://journals.bmj.com/cgi/reprintform

To subscribe to BMJ go to:
http://group.bmj.com/subscribe/