

835 Views | 92 CrossRef citations to date | 3 Altmetric

Original Article

Generic substitution: additional challenge for adherence in hypertensive patients?

Helle Håkonsen , Marlene Eilertsen, Hilde Borge & Else-Lydia Toverud

Pages 2515-2521 | Accepted 20 Jul 2009, Published online: 26 Aug 2009

 Cite this article  <https://doi.org/10.1185/03007990903192223>

Sample our
Medicine, Dentistry, Nursing
& Allied Health Journals
>> [Sign in here](#) to start your access
to the latest two volumes for 14 days

 Full Article

 Figures & data

 References

 Citations

 Metrics

 Reprints & Permissions

[Read this article](#)

 Share

Abstract

Objective:

This study aims to investigate whether, and in what way, generic substitution affects drug adherence in hypertensive patients.

Methods:

Personal interviews with 174 Norwegian patients (50–80 years) who had had their brand-name antihypertensive drug generically substituted were conducted using a semi-structured questionnaire.

Results:

On average, 4.4 (1-14) prescription drugs were used by the participants. Of these, 2.0 (1-4) drugs were antihypertensives. More than 50% of the patients had been using antihypertensive drugs for more than 10 years. One in four found it difficult to remember to take their medication every day. One in three said generic substitution made keeping track of their medications more demanding. Twenty-nine percent were anxious when they started to use a generically substituted drug. Eight percent felt that the effect of the drug had changed, and 15% reported having new or more side-effects. A negative attitude towards generics was significantly associated with low educational attainment, increasing number of drugs, having general concerns about medicine use, and having received insufficient information regarding generic substitution. Five percent of the patients had been using more than one equivalent generic drug at the same time. These were among those who used several different drugs and also among those who got their medications from more than one pharmacy. Five percent is a too small number to draw general conclusions; however, there is no reason to suspect that these mistakes do not occur from time to time.

Conclusions:

This study shows that generic substitution can be an additional factor in poor drug adherence in hypertensive patients and contributes to concerns and confusion among the patients. Although generic substitution is an important measure of cost containment, health personnel should approach each patient individually. Clearly, many patients feel insecure about substituting their medication and demand more information.

Keywords: :

Adherence Compliance Cost containment Generic drugs Generic substitution Hypertension Patient safety

Transparency

Declaration of funding

The authors would like to thank the Foundation for the Promotion of Pharmacy Practice (Norway) for financial support.

Declaration of financial/other relationships

All of the authors have disclosed that they have no relevant financial relationships.

Peer reviewers may receive funding from CMRO for their review work. Both peer reviewers on this article have disclosed that they have no relevant financial relationships.

Acknowledgements

The authors have disclosed that they had no outside editorial assistance in preparing this manuscript.

Descriptive results from this study were presented at the 15th International Social Pharmacy Workshop in New Zealand (8–11 July 2008) and the 12th European Symposium on Patient Adherence, Compliance and Persistence in Switzerland (5 September 2008). Abstracts have been published nationally in the Norwegian Pharmaceutical Journal (September 2008).

Notes

*The 90% confidence interval for the ratios of the test:reference log-transformed mean AUC and C_{\max} values is within the range from 0.8 to 1.25. The guidelines also enable a bibliographic application procedure for pharmaceuticals that have been in clinical use for more than 10 years based on data on absorption and effect from international publications.

Related Research Data

[Effects of user charges on the use of prescription medicines in different socio-economic groups](#)

Source: Health Policy

Consumer Perceptions of Risk and Required Cost Savings for Generic Prescription Drugs

Source: Journal of the American Pharmaceutical Association (1996)

Determinants of discontinuation of new courses of antihypertensive medications

Source: Journal of Clinical Epidemiology

How well do patients report noncompliance with antihypertensive medications?: a comparison of self-report versus filled prescriptions

Source: Pharmacoepidemiology and Drug Safety

Prevalence and determinants of pharmacy shopping behaviour

Source: Journal of Clinical Pharmacy and Therapeutics

Patient compliance-an overview

Related research

People also read

Recommended articles

Cited by
92

Information for

[Authors](#)

[R&D professionals](#)

[Editors](#)

[Librarians](#)

[Societies](#)

Opportunities

[Reprints and e-prints](#)

[Advertising solutions](#)

[Accelerated publication](#)

[Corporate access solutions](#)

Open access

[Overview](#)

[Open journals](#)

[Open Select](#)

[Dove Medical Press](#)

[F1000Research](#)

Help and information

[Help and contact](#)

[Newsroom](#)

[All journals](#)

[Books](#)

Keep up to date

Register to receive personalised research and resources by email



Sign me up



Copyright © 2026 Informa UK Limited [Privacy policy](#)

[Cookies](#) [Terms & conditions](#) [Accessibility](#)

Registered in England & Wales No. 01072954
5 Howick Place | London | SW1P 1WG

 Taylor and Francis
Group