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Volume 36, Issue 8, 2017, Pages 1524-1532

Validation of patients' satisfaction regarding medications' information questionnaire (Psmiq) in karachi, pakistan (Article)

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Abstract

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The aim of present study was to develop a validated patient satisfaction regarding medications' information questionnaire (PSMIQ). It was an extra cultural adaptation of previous questionnaires used in other part of the world. The PSMIQ was premeditated by an expert group of 15 physicians and 15 pharmacists from a formerly validated questionnaire. A preliminary draft of PSMIQ comprised of seventeen items, with responses recorded on a five Likert scale. The internal validation of PSMIQ was approved by conducting a cross-sectional and analytical study. Around one thousand and fifty patients participated in present study. The validity of PSMIQ items was determined through factor analysis, and the reliability was evaluated with Cronbach's alpha coefficient (α). Cronbach alpha value for transformed 13-item questionnaire was found to be 0.738. These items were assigned four sub scales. When compared it was observed that these subscales were significantly correlated with one another ($p < 0.01$). Patient satisfaction level for items regarding general information and usage instructions was above 70% however their satisfaction regarding potential problems and cost issues was less than 40%. Their satisfaction was positively associated with females for subscale 1 and 4 ($p < 0.01$). Responders who were stable had better total satisfaction scores compared with unstable ones in response to subscale 1, 2 and 3. In response to item regarding potential problematic issue, hypertension patients were 1.687 times more satisfied than patients suffering from other diseases (OR = 1.687; 95% CI = 1.247-2.283). Patient satisfaction survey used in the present study was found to be reliable and valid. Respondents were more satisfied regarding medications' general information and usage instructions, however not satisfied with information regarding potential problems and cost issues. © 2017, Colegio de Farmaceuticos de la Provincia de Buenos Aires. All rights reserved.

Author keywords

[Medications' information questionnaire](#) [Pakistan](#) [Patients satisfaction](#) [Validation](#)

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-
- 1 Donabedian, A.
(1966) *Milbank Q.*, 36 (8), pp. 166-206. Cited 43 times.
-
- 2 Mira, J.J., Aranaz, J.
Patient satisfaction as an outcome measure in health care

(2000) *Medicina Clinica*, 114 (SUPPL. 3), pp. 26-33. Cited 115 times.
-
- 3 Sitzia, J.
How valid and reliable are patient satisfaction data? An analysis of 195 studies

(1999) *International Journal for Quality in Health Care*, 11 (4), pp. 319-328. Cited 327 times.
doi: 10.1093/intqhc/11.4.319

[View at Publisher](#)
-
- 4 Farris, K.B., Cox, C.E., Cave, A.
(2000) *J. Am. Pharm. Assoc.*, 41, pp. 411-420.
-
- 5 Barrasa Villar, J.I., Aibar, C.
Systematic review of satisfaction studies performed in Spain between 1986 and 2001

(2003) *Revista de Calidad Asistencial*, 18 (7), pp. 580-590. Cited 24 times.
<http://www.doyma.es/calasis/>

[View at Publisher](#)
-
- 6 Grogan, S., Conner, M., Norman, P., Willits, D., Porter, I.
Validation of a questionnaire measuring patient satisfaction with general practitioner services

(2000) *Quality in Health Care*, 9 (4), pp. 210-215. Cited 92 times.
doi: 10.1136/qhc.9.4.210

[View at Publisher](#)
-
- 7 Morris, L.A., Halperin, J.A.
Effects of written drug information on patient knowledge and compliance: A literature review

(1979) *American Journal of Public Health*, 69 (1), pp. 47-52. Cited 161 times.
doi: 10.2105/AJPH.69.1.47

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-
- 8 Gibbs, S., Waters, W., George, C.
The benefits of prescription information leaflets (1).

(1989) *British Journal of Clinical Pharmacology*, 27 (6), pp. 723-739. Cited 123 times.
doi: 10.1111/j.1365-2125.1989.tb03434.x

[View at Publisher](#)
-

9 Baker, D., Roberts, D., Newcombe, R., Fox, K.
Evaluation of drug information for cardiology patients.

(1991) *British Journal of Clinical Pharmacology*, 31 (5), pp. 525-531. Cited 27 times.
doi: 10.1111/j.1365-2125.1991.tb05574.x

View at Publisher

10 (1988) *Patient Information: Advice on Drafting of Leaflets*.
London

11 Peveler, R., George, C., Kinmonth, A.-L., Campbell, M., Thompson, C.
Effect of antidepressant drug counselling and information leaflets on adherence to drug treatment in primary care: Randomised controlled trial

(1999) *British Medical Journal*, 319 (7210), pp. 612-615. Cited 212 times.

View at Publisher

12 Horne, R., Hankins, M., Jenkins, R.
The Satisfaction with Information about Medicines Scale (SIMS): A new measurement tool for audit and research

(2001) *Quality in Health Care*, 10 (3), pp. 135-140. Cited 147 times.
doi: 10.1136/qhc.0100135..

View at Publisher

13 Weinman, J.
Providing written information for patients: Psychological consideration

(1990) *Journal of the Royal Society of Medicine*, 83 (5), pp. 303-305. Cited 118 times.

View at Publisher

14 Enlund, H., Vainio, K., Wallenius, S., Poston, J.W.
Adverse drug effects and the need for drug information

(1991) *Medical Care*, 29 (6), pp. 558-564. Cited 34 times.

View at Publisher

15 Horne, R., Sumner, S., Jubraj, B., Weinman, J., Frost, S.
Haemodialysis patients' beliefs about treatment: Implications for adherence to medication and fluid-diet restrictions

(2001) *International Journal of Pharmacy Practice*, 9 (3), pp. 169-175. Cited 28 times.
doi: 10.1111/j.2042-7174.2001.tb01045.x

View at Publisher

16 Berry, D.C., Michas, I.C., Gillie, T., Forster, M.
What do patients want to know about their medicines, and what do doctors want to tell them?: A comparative study

(1997) *Psychology and Health*, 12 (4), pp. 467-480. Cited 75 times.
<http://www.tandf.co.uk/journals/titles/08870446.asp>
doi: 10.1080/08870449708406723

View at Publisher

- 17 Berry, D.C., Knapp, P., Raynor, D.K.
Provision of information about drug side-effects to patients

(2002) *Lancet*, 359 (9309), pp. 853-854. Cited 107 times.
<http://www.journals.elsevier.com/the-lancet/>
doi: 10.1016/S0140-6736(02)07923-0

[View at Publisher](#)

- 18 Ali, A., Horne, R.
(1996) *Pharm. Prac.*, 6, pp. 333-338. Cited 9 times.

- 19 Gellaitry, G., Cooper, V., Davis, C., Fisher, M., Date, H.L., Horne, R.
Patients' perception of information about HAART: Impact on treatment decisions

(2005) *AIDS Care - Psychological and Socio-Medical Aspects of AIDS/HIV*, 17 (3), pp. 367-376. Cited 37 times.
doi: 10.1080/09540120512331314367

[View at Publisher](#)

- 20 Bowskill, R., Clatworthy, J., Parham, R., Rank, T., Horne, R.
Patients' perceptions of information received about medication prescribed for bipolar disorder: Implications for informed choice

(2007) *Journal of Affective Disorders*, 100 (1-3), pp. 253-257. Cited 52 times.
doi: 10.1016/j.jad.2006.10.018

[View at Publisher](#)

- 21 Qidwai, W., Dhanani, R.H., Khan, F.M.
Implications for the practice of a patient expectation and satisfaction survey, at a teaching hospital in Karachi, Pakistan.

(2003) *JPMA. The Journal of the Pakistan Medical Association*, 53 (3), pp. 122-125. Cited 11 times.

- 22 Qidwai, W., Ali, S.S., Baqir, M., Ayub, S.
Patient expectations from an emergency medical service.

(2005) *Journal of Ayub Medical College, Abbottabad : JAMC*, 17 (3), pp. 3-6. Cited 9 times.

- 23 Imam, S.Z., Syed, K.S., Ali, S.A., Ali, S.U., Fatima, K., Gill, M., Hassan, M.O., (...), Jameel, O.F.
Patients' satisfaction and opinions of their experiences during admission in a tertiary care hospital in Pakistan - A cross sectional study

(2007) *BMC Health Services Research*, 7, art. no. 161. Cited 14 times.
doi: 10.1186/1472-6963-7-161

[View at Publisher](#)

- 24 Streiner, D.L., Norman, G.R.
Health Measurement Scales: A practical guide to their development and use

(2008) *Health Measurement Scales: A Practical Guide to their Development and Use*, pp. 1-452. Cited 880 times.

<http://www.oxfordscholarship.com/view/10.1093/acprof:oso/9780199231881.001.0001/acprof-9780199231881>

ISBN: 978-019172401-5; 978-019923188-1

doi: 10.1093/acprof:oso/9780199231881.001.0001

[View at Publisher](#)

□ 25 Nunally, J.
(1978) *Psychometric Theory*, 2nd Ed. New York. Cited 110 times.
NY: McGraw-Hill

□ 26 Ormandy, P., Hulme, C.T., Caress, A., Macdonald, J., Crane, D.
(2007) *Patient Educ. Couns.*, 18 (3).

□ 27 Hunot, V.M., Horne, R., Leese, M.N., Churchill, R.C.
A cohort study of adherence to antidepressants in primary care: The influence of antidepressant concerns and treatment preferences
(2007) *Primary Care Companion to the Journal of Clinical Psychiatry*, 9 (2), pp. 91-99. Cited 107 times.
<http://www.psychiatrist.com/pcc/pccpdf/v09n02/v09n0202.pdf>
View at Publisher

□ 28 Menckeberg, T.T., Belitser, S.V., Bouvy, M.L., Bracke, M., Lammers, J.-W.J., Raaijmakers, J.A.M., Leufkens, H.G.M.
Distinguishing patterns in the dynamics of long-term medication use by Markov analysis: Beyond persistence
(2007) *BMC Health Services Research*, 7, art. no. 106. Cited 12 times.
doi: 10.1186/1472-6963-7-106
View at Publisher

□ 29 Rahim, N., Rafiq, K., Iffat, W., Nesar, S., Shakeel, S.
Patients comprehension of pharmaceutical package inserts information in Karachi, Pakistan
(2015) *Tropical Journal of Pharmaceutical Research*, 14 (12), pp. 2307-2311.
http://www.tjpr.org/admin/12389900798187/2015_14_12_22.pdf
doi: 10.4314/tjpr.v14i12.22
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