

Web of Science



Search Search Results

Tools Searches and alerts Search History Marked List



Save to EndNote online

Add to Marked List

◀ 1 of 1 ▶

Reliability and Construct Validity of Knowledge, Attitude, and Practice of Medical Doctors on Smoking Cessation Guidelines.

By: [Bin Shalihin, MSE](#) (Bin Shalihin, Mohd Shaiful Ehsan)^[1]; [Aris, MAM](#) (Aris, Mohd Aznan Md)^[1]; [Mohamed, MHN](#) (Mohamed, Mohamad Haniki Nik)^[2]; [Rus, RM](#) (Rus, Razman Mad)^[1]; [Jamani, NJA](#) (Jamani, Nur Jasmine Aida)^[3]
[View ResearcherID and ORCID](#)

INTERNATIONAL MEDICAL JOURNAL MALAYSIA

Volume: 17 Pages: 199-206 Special Issue: 1

Published: 2018

Document Type: Article

Abstract

Introduction: Islam forbids any forms of tobacco smoking. Prevalence of active smokers in Malaysia is increasing despite availability of stop-smoking clinics. Thus, the practice of healthcare professionals involved in providing smoking cessation intervention needs to be assessed using validated assessment tool. Objective: This study aimed to develop and validate a questionnaire that assesses the knowledge, attitude, and practice of medical doctors based on the national smoking cessation guideline. In addition, we aimed to evaluate factors that contribute to the score. Methods: The 26 items consists of mixture of true/false choice questions and Likert scaling response based on domain of 5A's (ask, assess, advice, assist, arrange) and 5R's (relevant, risks, rewards, roadblocks, repetitions) of the national stop-smoking guideline. The questionnaire was distributed to 141 medical doctors. Reliability was determined using Cronbach's alpha for internal consistency while construct validity was assessed using factor analysis. Results: A high degree of internal consistency was observed for this 26 items (Cronbach's alpha= 0.824) and for practice subscale (Cronbach's alpha 0.83). Subsequently, three items were removed due to poor inter item correlation. Factor analysis extracted seven meaningful components from this remaining 23 items, in which three components with least items were deleted due to overlapping subscale with other components, leaving four meaningful components which consist of (1) practice of ask, advice and assess components and practice of 5R's (total of 10 items); (2) practice of assist components for those willing to quit (two items); (3) knowledge (two items) and (4) attitude (three items). These final 17 items still demonstrate high internal consistency with Cronbach's alpha of 0.832. Conclusion: This study indicates that this questionnaire is a reliable and valid tool to assess the knowledge, attitude, and practice of healthcare professionals on stop smoking guidelines.

Keywords

Author Keywords: [smoking](#); [tobacco](#); [reliability and validity](#); [questionnaire](#)

KeyWords Plus: [TOBACCO USE](#); [DENTISTS](#)

Author Information

Reprint Address: Bin Shalihin, MSE (reprint author)

+ Int Islamic Univ Malaysia, Kulliyyah Med, Kuantan Campus, Kuantan, Malaysia.

Addresses:

+ [1] Int Islamic Univ Malaysia, Kulliyyah Med, Kuantan Campus, Kuantan, Malaysia

+ [2] Int Islamic Univ Malaysia, Kulliyyah Pharm, Kuantan Campus, Kuantan, Malaysia

+ [3] Int Islamic Univ Malaysia, Kulliyyah Med, Dept Family Med, Kuantan Campus, Kuantan, Malaysia

E-mail Addresses: aznan@iium.edu.my

Publisher

INT ISLAMIC UNIV MALAYSIA, KULLIYAH MEDICINE, JALAN SULTAN AHMAD SHAH, KUANTAN PAHAN, 25200, MALAYSIA

Categories / Classification

Research Areas: General & Internal Medicine

Web of Science Categories: Medicine, General & Internal

[See more data fields](#)

Citation Network

In Web of Science Core Collection

0

Times Cited

[Create Citation Alert](#)

39

Cited References

[View Related Records](#)

Use in Web of Science

Web of Science Usage Count

0

Last 180 Days

0

Since 2013

[Learn more](#)

This record is from:

Web of Science Core Collection
- Emerging Sources Citation Index

[Suggest a correction](#)

If you would like to improve the quality of the data in this record, please suggest a correction.

Cited References: 39Showing 30 of 39 [View All in Cited References page](#)*(from Web of Science Core Collection)*

1. **Smoking-cessation practice guidelines: awareness and implementation among medical teams.** Times Cited: **6**
 By: Alzoubi, Karem H; Azab, Mohammad; Khabour, Omar F; et al.
 The International journal of pharmacy practice Volume: 18 Issue: 2 Pages: 93-9 Published: 2010-Apr
2. Title: [not available] Times Cited: **1**
 By: [Anonymous].
 Tobacco and Smoking: Tobacco Use, Prevention and Cessation Published: 2015
 Publisher: American Academy of Family Physicians
3. Title: [not available] Times Cited: **1**
 By: Ariffin, Omar Zainal.
 Persidangan Kesihatan Awam Selangor-Roadmap of NCD Prevention and Control Published: 2011
 Publisher: Persidangan Kesihatan Awam Selangor
4. **Using Confirmatory Factor Analysis to Evaluate Construct Validity of the Brief Pain Inventory (BPI)** Times Cited: **60**
 By: Atkinson, Thomas M.; Rosenfeld, Barry D.; Sit, Laura; et al.
 JOURNAL OF PAIN AND SYMPTOM MANAGEMENT Volume: 41 Issue: 3 Pages: 558-565 Published: MAR 2011
5. **Knowledge and attitude of tobacco use and cessation among dental professionals** Times Cited: **1**
 By: Awan, K; Hammam, M; Warnakulasuriya, S.
 The Saudi Dental Journal Published: 2015
6. **Principal-components analysis and exploratory and confirmatory factor analysis** Times Cited: **448**
 By: Bryant, F. B; Yarnold, P. R.
 Reading and understanding multivariate statistics Pages: 99-136 Published: 1995
 Publisher: American Psychological Association, Washington, DC, US
7. Title: [not available] Times Cited: **2**
 Group Author(s): Centre of Disease Control and Prevention
 Smoking and Tobacco Use
 online Accessed 15 February, 2015
 Publisher: Centres for Disease Control and Prevention (CDC)
8. Title: [not available] Times Cited: **77**
 By: Downing, S; Yudkowsky, R.
 Assessment in Health Professions Education Published: 2009
 Publisher: Routledge, New York, NY
9. **Reliability: on the reproducibility of assessment data** Times Cited: **293**
 By: Downing, SM
 MEDICAL EDUCATION Volume: 38 Issue: 9 Pages: 1006-1012 Published: SEP 2004
10. **Assessment of Pharmacists' Knowledge and Competence Regarding Anti-Tobacco Counseling** Times Cited: **1**
 By: Dymek, Justyna; Skowron, Agnieszka
 PHARMACY Volume: 1 Issue: 2 Pages: 248-255 Published: DEC 2013
11. **Knowledge, attitude and practice of family physicians regarding smoking cessation counseling in family practice centers, suuez canal university, egypt.** Times Cited: **12**
 By: Eldein, Hebatallah Nour; Mansour, Nadia M; Mohamed, Samar F
 Journal of family medicine and primary care Volume: 2 Issue: 2 Pages: 159-63 Published: 2013-Apr
12. Title: [not available] Times Cited: **87**

- By: Fiore, M; CR, Jaen; Baker, TB.
 Treating tobacco use and dependence: 2008 update US Public Health Service Clinical Practice Guideline
 Publisher: US Department of Health and Human Services, Public Health Service
 URL: <http://www.ncbi.nlm.nih.gov/pubmed/>
13. **Barriers to Implementing Evidence-Based Smoking Cessation Practices in Nine Community Mental Health Sites** Times Cited: 16
 By: Himelhoch, Seth; Riddle, Julia; Goldman, Howard H.
 PSYCHIATRIC SERVICES Volume: 65 Issue: 1 Pages: 75-80 Published: JAN 2014
 14. **Attitudes and practices in smoking cessation counselling among dentists in Kelantan** Times Cited: 7
 By: Ibrahim, H.; Norkhafizah, S.
 ARCHIVES OF OROFACIAL SCIENCE Volume: 3 Issue: 1 Pages: 11-16 Published: 2008
 15. Title: [not available] Times Cited: 6
 Group Author(s): IPH.
 National health and morbidity survey 2015-report on smoking status among Malaysian adults, 2015 Published: 2015
 Publisher: Institute of Public Health, Kuala Lumpur
 16. **Implementation of smoking cessation guidelines in the emergency department: a qualitative study of staff perceptions** Times Cited: 8
 By: Katz, David A.; Paez, Monica W.; Reisinger, Heather S.; et al.
 ADDICTION SCIENCE & CLINICAL PRACTICE Volume: 9 Article Number: 1 Published: JAN 24 2014
 17. **Smoking Cessation Knowledge, Attitudes, and Practice Among Community Health Providers in China** Times Cited: 13
 By: Klink, Kathleen; Lin, Susan; Elkin, Zachary; et al.
 FAMILY MEDICINE Volume: 43 Issue: 3 Pages: 198-200 Published: MAR 2011
 18. **Promoting Smoking Cessation** Times Cited: 20
 By: Larzelere, Michele M.; Williams, Dave E.
 AMERICAN FAMILY PHYSICIAN Volume: 85 Issue: 6 Pages: 591-598 Published: MAR 15 2012
 19. **Smoking habits in a general practice sample** Times Cited: 1
 By: Maniam, T; Muda, JR.
 Med J Malaysia Volume: 51 Pages: 222-6 Published: 1996
 20. **Smoking Prevalence and Cigarette Consumption in 187 Countries, 1980-2012** Times Cited: 560
 By: Marie Ng; Freeman, Michael K.; Fleming, Thomas D.; et al.
 JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION Volume: 311 Issue: 2 Pages: 183-192 Published: JAN 8 2014
 21. **Effectiveness of tobacco use cessation interventions delivered by pharmacy personnel: A systematic review** Times Cited: 13
 By: Mdege, Noreen Dadirai; Chindove, Stanley
 RESEARCH IN SOCIAL & ADMINISTRATIVE PHARMACY Volume: 10 Issue: 1 Pages: 21-44 Published: JAN-FEB 2014
 22. Title: [not available] Times Cited: 6
 Group Author(s): Ministry of Health
 Clinical Practice Guidelines on Treatment of Tobacco Use and Dependence 2003 Published: 2003
 Malaysia
 Publisher: Academy of Medicine of Malaysia
 23. Title: [not available] Times Cited: 1
 Group Author(s): National Health Morbidity Survey IV
 NHMS Fact Sheet Published: 2011
 Publisher: Institute of Public Health
 24. **The Effect of Second-Hand Smoke Exposure during Pregnancy on the Newborn Weight in Malaysia** Times Cited: 11
 By: Norsa'adah, Bachok; Salinah, Omar
 MALAYSIAN JOURNAL OF MEDICAL SCIENCES Volume: 21 Issue: 2 Pages: 44-53 Published: MAR-APR 2014
 25. Title: [not available] Times Cited: 117
 By: O'Rourke, N.; Hatcher, L.
 A Step-by-Step Approach to Using SAS for Factor Analysis and Structural Equation Modelling Published: 2013

Publisher: Sas Institute, Cary, NC, USA

26. **Muslim** Times Cited: 1
Group Author(s): Oxford
Oxford Dictionaries Published: 2015
15 March, 2015
27. **Physician smoking status, attitudes toward smoking, and cessation advice to patients: An international survey** Times Cited: 106
By: Pipe, Andrew; Sorensen, Michelle; Reid, Robert
PATIENT EDUCATION AND COUNSELING Volume: 74 Issue: 1 Pages: 118-123 Published: JAN 2009
28. **Health Care Workers' Knowledge, Attitudes and Practices on Tobacco Use in Economically Disadvantaged Dominican Republic Communities** Times Cited: 3
By: Prucha, Michael G.; Fisher, Susan G.; McIntosh, Scott; et al.
INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH Volume: 12 Issue: 4 Pages: 4060-4075 Published: APR 2015
29. **Cigarette smoking and cardiovascular risk factor among male youth population** Times Cited: 4
By: Raihan, K; Azmawati, M.
Malaysian J Pub Health Med Volume: 13 Issue: 1 Pages: 28-36 Published: 2013
30. **Knowledge, attitude and practice related to tobacco use and its cessation among young medical professionals** Times Cited: 1
By: Singh, S; Sinha, SK; Saha, R.
Indian Journal of Social Psychiatry Volume: 30 Pages: 35-42 Published: 2014

Showing 30 of 39 [View All in Cited References page](#)

Clarivate

Accelerating innovation

© 2019 Clarivate [Copyright notice](#) [Terms of use](#) [Privacy statement](#) [Cookie policy](#)

Sign up for the Web of Science newsletter [Follow us](#)

