

Original citation:

Crea, Giuseppe, Baiocco, Roberto, Ioverno, Salvatore, Buzzi, Gabriele and Francis, Leslie J.. (2014) The psychometric properties of the Italian translation of the Francis Scale of Attitude toward Christianity : a study among Catholic adolescents. Journal of Beliefs & Values, Volume 35 (Number 1). pp. 118-122.

Permanent WRAP url:

http://wrap.warwick.ac.uk/58788

Copyright and reuse:

The Warwick Research Archive Portal (WRAP) makes this work of researchers of the University of Warwick available open access under the following conditions. Copyright © and all moral rights to the version of the paper presented here belong to the individual author(s) and/or other copyright owners. To the extent reasonable and practicable the material made available in WRAP has been checked for eligibility before being made available.

Copies of full items can be used for personal research or study, educational, or not-forprofit purposes without prior permission or charge. Provided that the authors, title and full bibliographic details are credited, a hyperlink and/or URL is given for the original metadata page and the content is not changed in any way.

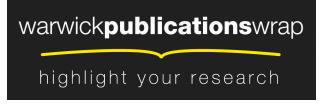
Publisher's statement:

This is an Author's Original Manuscript of an article published by Taylor & Francis Group in Journal of Beliefs & Values on 28/05/2014, available online: http://www.tandfonline.com/10.1080/13617672.2014.884860

A note on versions:

The version presented here may differ from the published version or, version of record, if you wish to cite this item you are advised to consult the publisher's version. Please see the 'permanent WRAP url' above for details on accessing the published version and note that access may require a subscription.

For more information, please contact the WRAP Team at: publications@warwick.ac.uk



http://wrap.warwick.ac.uk/

The Psychometric Properties of the Italian Translation of the Francis Scale of Attitude toward Christianity: A Study among Catholic Adolescents

Giuseppe Crea

Department of Psychology, Salesian Pontifical University, Rome, Italy

Roberto Baiocco

Department of Developmental and Social Psychology, Sapienza University of Rome, Rome, Italy

Salvatore Ioverno

Department of Clinical Psychology, Sapienza University of Rome, Rome, Italy

Gabriele Buzzi

Department of Developmental and Social Psychology, Sapienza University of Rome, Rome, Italy

Leslie J. Francis

Warwick Religions & Education Research Unit, Institute of Education, University of Warwick, Coventry, United Kingdom

Corresponding author

Roberto Baiocco, PhD. Associate Professor

Faculty of Medicine and Psychology, Sapienza University of Rome

Via dei Marsi, 78 - 00185 Rome, Italy

E-mail: roberto.baiocco@uniroma1.it

RESEARCH REPORT

The Psychometric Properties of the Italian Translation of the Francis Scale of Attitude toward Christianity: A Study among Catholic Adolescents

The Italian translation of the Francis Scale of Attitude toward Christianity was developed and tested among a sample of 575 young people between the age of 16 and 17 years attending secular secondary schools in Rome, Italy. The data supported the unidimensionality, internal consistency reliability and construct validity of this instrument and commend it for further use in contributing to comparative empirical research within the psychology of religion.

Keywords: psychology of religion; attitude toward Christianity; religiosity; adolescents; students.

Introduction

The integration of psychological research across diverse populations worldwide requires cross-culturally validated research instruments. Within the psychology of religion the 24-item Francis Scale of Attitude toward Christianity, originally published by Francis (1978a, 1978b), has already demonstrated good psychometric properties in a range of contexts. The original English-language version of this instrument has become widely available in a number of languages, including Arabic (Munayer 2000), Czech (Francis, Quesnell, and Lewis 2010), Chinese (Tiliopulous and Francis 2013), Dutch (Francis and Hermans 2000), French (Lewis and Francis 2003), German (Francis and Kwiran 1999), Greek (Youtika, Joseph, and Diduca 1999), Norwegian (Francis and Enger 2002), Portugese (Ferreira and Neto 2002), Romanian (Francis et al. 2009), Serbian (Flere, Francis, and Robbins 2011), Slovenian (Flere et al. 2008), Spanish (Campo-Arias et al. 2006), Swedish (Eek 2001), and Welsh (Evans and Francis 1996). By the mid-1990s Kay and Francis (1996) identified around 100 independent studies that had employed the Francis Scale of Attitude toward Christianity and began to draw together the cumulative contribution to knowledge that develops from disparate studies being united by a common instrument. In a more recent review, Francis (2009) discussed the advantages of organising and integrating empirical research in the psychology of religion around the attitudinal dimension on the grounds that the attitudinal dimension gets closest to the heart of an individual's religion.

In consideration of these findings, the aim of the present study is to extend this field of research by developing and testing the Italian translation of the Francis Scale of Attitude toward Christianity. Extending research employing the Francis Scale of Attitude toward Christianity to the Italian context may be of particular interest, given the religious background of this country (Pallini, Bove, and Laghi, 2011).

Method

Sample

Participants consisted of 575 adolescents (286 female, 289 male) from two secular secondary schools located in Rome, Italy ($M_{age} = 15.63$; SD = 1.16; range: 14 – 17). Participation was obtained through an informed procedure that required their active consent. For all the test administrations, the study procedures were explained and participants filled in written versions of the questionnaires. Participation in the study was voluntary and anonymous. This survey was reviewed and approved by the Ethics Commission of Sapienza University of Rome. A total of 97.9 % of the questionnaires were returned.

Measures

The Francis Scale of Attitude toward Christianity is a 24-item Likert instrument concerned with affective response toward God, Jesus, bible, prayer and church. The items were translated into Italian and then back-translated into English in order to test for inaccuracies and ambiguities. The items are assessed on a five-point scale: *agree strongly, agree, not certain, disagree* and *disagree strongly*. Eight questions are reversed for scoring purposes such that, when summed, higher scores indicate more positive attitudes. Participants were also asked to indicate how often they prayed and attended church on a five-point scale: *never, occasionally, at least once a month, at least once a week*, and *almost every day*.

Results

Table 1 presents the item rest-of-test correlation coefficients in respect to all 24 items, together with the alpha coefficient (first column) and the loadings on the first factor of the unrotated solution proposed by principal component analysis, together with the percentage of variance explained (second column). The alpha coefficient is established as 0.97, while the proportion of variance accounted for by the first factor is established as 62.6 %. Data support the conclusion that the scale is characterised by homogeneity, unidimensionality, and internal consistency reliability within the sample.

Insert table 1 about here

Construct validity of the instrument was assessed in terms of its correlation with other measures of personal religiosity. In the present study, attitude toward Christianity scores correlated with personal prayer (r = .67, p <.001) and with church attendance (r = .56, p <.001).

The ANOVA analyses showed significant differences between females (M = 87.91; SD = 22.11) and males (M = 82.55; SD = 24.62), F(1, 575) = 7.09, p < .01, but no significant differences between the mean score of younger (14-15 years of age) and older adolescents (16-17 years of age), F(1, 575) = 1.66, p = .19. The two-way interaction between sex and age was not significant, F(1, 575) = 0.54, p = .46. These data are consistent with the general consensus in the psychology of religion that females report a more positive attitude toward religion than males (Flere et al. 2008; Flere, Francis, and Robbins 2011; Francis, Quesnell, and Lewis 2010).

Conclusion

The data support the psychometric properties of the Italian version of the Francis Scale of Attitude toward Christianity among a sample of adolescents between the age of 14 to 17 years attending secular secondary schools. The instruments can be recommended for further use within Italian context and should contribute to comparative empirical research within the psychology of religion across linguistic communities.

References

Campo-Arias, A., H.C. Oviedo, C.F. Dtaz, and Z. Cogollo. 2006. Internal consistency of a Spanish translation of the Francis Scale of Attitude toward Christianity short form. *Psychological Reports* 99: 1008–1010.

- Eek, J. 2001. Religious facilitation through intense liturgical participation: A quasiexperimental study of Swedish pilgrims to Taizé. Lund: University of Lund Studies in Psychology of Religion.
- Evans, T. E., and L.J. Francis. 1996. Measuring attitude toward Christianity through the medium of Welsh. In *Research in religious education*, ed. L. J. Francis, W. K. Kay, and W. S. Campbell, 279–294. Leominster, UK: Fowler Wright Books.
- Ferreira, V., and F. Neto. 2002. Psychometric properties of the Francis Scale of Attitude toward Christianity among Portuguese university students. *Psychological Reports* 91: 995–998.
- Flere, S., R. Klanjsek, L.J. Francis, and M. Robbins. 2008. The psychometric properties of the Slovenian translation of the Francis Scale of Attitude toward Christianity: A study among Roman Catholic undergraduate students. *Journal of Beliefs and Values* 29: 313–319.
- Flere, S., L.J. Francis, and M. Robbins. 2011. The psychometric properties of the Serbian translation of the Francis Scale of Attitude toward Christianity: A study among Easter Orthodox Christians. *Pastoral Psychology* 60: 217–222.
- Francis, L.J. 1978a. Attitude and longitude: A study in measurement. *Character Potential* 8: 119–130.
- Francis, L.J. 1978b. Measurement reapplied: Research into the child's attitude towards religion. *British Journal of Religious Education* 1: 45–51.
- Francis, L.J. 2009. Understanding the attitudinal dimensions of religion and spirituality.
 In *International Handbook of education for spirituality, care and wellbeing,* ed.
 M. De Souza, L. J. Francis, J. O'Higgins-Norman, & D. G. Scott, 147-167.
 Dordrecht: Springer.

- Francis, L.J., and T. Enger. 2002. The Norwegian translation of the Francis Scale of Attitude toward Christianity. *Scandinavian Journal of Psychology* 43: 363–367.
- Francis, L.J., and C.A.M. Hermans, C. A. M. 2000. Internal consistency reliability and construct validity of the Dutch translation of the Francis Scale of Attitude toward Christianity among adolescents. *Psychological Reports* 86: 301–307.
- Francis, L.J., and M. Kwiran. 1999. Werthaltungen (einstellungen) gegenüber dem christentum bei deutschen heranwachsenden: Die francis-skala. *Braunschweiger Beiträge* 89: 50–54.
- Francis, L.J., D. Ispas, M. Robbins, A. Ilie, and D. Iliescu. 2009. The Romanian translation of the Francis Scale of Attitude toward Christianity: Internal consistency reliability, re-test reliability, and construct validity among undergraduate students within a Greek Orthodox culture. *Pastoral Psychology* 58: 49–54.
- Francis, L.J., M. Quesnell, and C.A. Lewis. 2010. Assessing attitude toward Christianity among adolescents in the Czech Republic: The Francis Scale. *Irish Journal of Psychology* 31: 125–134.
- Kay, W. K., and L. J. Francis. 1996. Drift from the Churches: Attitude toward Christianity during childhood and adolescence. Cardiff: University of Wales Press.
- Lewis, C. A., and L.J. Francis. 2003. Evaluer l'attitude d'étudiantes universitaires françaises à l'égard du Christianisme: L'Echelle de Francis. *Sciences Pastorals* 22: 179–190.
- Munayer, S.J. 2000. *The ethic identity of Palestinian Arab Christian adolescents in Israel.* Unpublished PhD diss., University of Wales, Oxford Center for Mission Studies.

- Pallini, S., G. Bove, and F. Laghi. 2011. Classification of professional values based on motivational content: an exploratory study on Italian Adolescents. *Measurement* and Evaluation in Counseling and Development 44: 16–31.
- Tiliopulous, N., and L.J. Francis. 2013. The Chinese translation of the Francis Scale of Attitude toward Christianity: Factor structure, internal consistency reliability, and construct validity among protestant Christians in Shanghai. *Pastoral Psychology* 62: 75–79.
- Youtika, A., S. Joseph, and D. Diduca. 1999. Personality and religiosity in a Greek Christian Orthodox sample. Mental Health, *Religion and Culture* 2: 71–74.

Table 1. Item rest-of-test correlations and factor loading

Item	r	factor loading
I find it boring to listen to the bible*	.65	.67
I know that Jesus helps me	.86	.88
Saying my prayers helps me a lot	.83	.86
The church is very important to me	.80	.83
I think going to church is a waste of my time*	.75	.76
I want to love Jesus	.82	.84
I think church services are boring*	.61	.63
I think people who pray are stupid*	.53	.54
God helps me to lead a better life	.86	.88
I like to learn about God very much	.81	.84
God means a lot to me	.89	.91
I believe that God helps people	.83	.86
Prayer helps me a lot	.87	.89
I know that Jesus is very close to me	.87	.89
I think praying is a good thing	.82	.84
I think the bible is out of date*	.42	.43
I believe that God listens to prayers	.78	.81
Jesus doesn't mean anything to me*	.65	.67
God is very real to me	.80	.83
I think saying prayers does no good*	.49	.51
The idea of God means much to me	.82	.84
I believe that Jesus still helps people	.85	.87
I know that God helps me	.88	.90
I find it hard to believe in God*	.75	.77
alpha coefficient / % of variance	.97	62.6%

* these negative items were reverse scored