

The Aneurysm Treatment Satisfaction Questionnaire (AneurysmTSQ) Summary

Background

The Aneurysm Treatment Satisfaction Questionnaire (AneurysmTSQ) is a self-completion measure designed specifically to measure satisfaction with treatment for patients who have been diagnosed with an abdominal aortic aneurysm (AAA). The AneurysmTSQ was developed in 2013 (Peach, Romaine, Thompson, Hinchliffe & Bradley, 2014; Peach, Wilson, Plowright, Romaine, Thompson, Hinchliffe, & Bradley, 2015) and validated in 2014 (Romaine, Peach, Thompson, Hinchliffe, & Bradley, 2015) and is based on the Diabetes Treatment Satisfaction Questionnaire (DTSQ) (Bradley and Lewis, 1990; Bradley 1994), used extensively with people with Type 1 and Type 2 diabetes (e.g. Bradley and Speight, 2002; DAFNE Study Group, 2002; Witthaus et al., 2001, Ashwell et al., 2008; Bretzel et al., 2008, Reaney et al., 2015). The specific aspects of treatment to be included in the AneurysmTSQ were determined during focus group discussions and in-depth interviews with individual patients as described by Peach et al. (2015) followed by psychometric development as described by Romaine et al. (2015).

The AneurysmTSQ has a total of 12 items. The first seven items focus on monitoring/pre-intervention aspects of treatment and are therefore suitable for pre and post-intervention patients. Items 8-11 focus on post-intervention treatment and therefore are only suitable for patients following aneurysm repair. See Figure 1 below for an item example. Several items have additional questions (4, 4a, 8b, and 10b). These are for added information and are not included in any scales. Finally, the questionnaire also includes a free-text item (Item 12). This allows patients to comment on any other aspect of their aneurysm treatment causing either satisfaction or dissatisfaction not covered in the questionnaire.

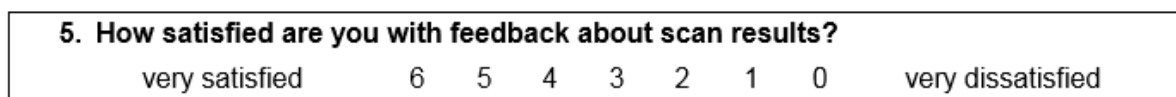


Figure 1: AneurysmTSQ Item example

The AneurysmTSQ is designed for use with adults and includes patients who are being monitored prior to aneurysm repair as well as those who have undergone aneurysm repair. The questionnaire may be administered by mail or in clinic for a range of purposes including:

- i. an assessment tool with individuals;
- ii. an assessment tool with groups of patients;
- iii. a broad cross-sectional survey instrument;
- iv. a routine part of clinical audit cycles;
- v. an outcome measure for clinical research trials evaluating new treatments.

The Aneurysm-TSQ items are each scored on a scale of 6 (e.g. 'very satisfied') to 0 ('very dissatisfied'). Item scores can be used individually or they can be summed to give a maximum of 42 for the monitoring/pre-intervention subscale (which can be completed by all patients) and a maximum of 66 for a total treatment satisfaction score (Items x 11) for use with post-intervention patients only.

Conditions of use of the AneurysmTSQ

The AneurysmTSQ is made available to users by formal arrangement with the copyright holder, Professor Clare Bradley, via Health Psychology Research Ltd, which licences her questionnaires. Requests should be made to Jonathan Gilbride at Health Psychology Research Ltd [see below]. A user agreement is necessary to avoid breach of copyright and to ensure that the latest and most appropriate version of the questionnaire is used.

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References

- Arbuckle, J.L. (2012). *Amos (Version 21) [Computer Program]*. Chicago: SPSS.
- Ashwell, S.G., Bradley, C., Stephens, J.W., Witthaus, E. & Home, P.D. (2008). Treatment satisfaction and quality of life with insulin glargine plus insulin lispro compared with NPH insulin plus unmodified human insulin in individuals with type 1 diabetes. *Diabetes Care* 31 (6) 1112-7. doi: 10.2337/dc07-1183. <http://www.ncbi.nlm.nih.gov/pubmed/18339977>
- Bentler, P.M. (1990). "Comparative Fit Indexes in Structural Models. *Psychological Bulletin*, 107(2), 238-46.
- Blunch, N.J. (2008). *Introduction to structural equation modelling using SPSS and AMOS*. London: Sage.
- Bradley, C. (1994). The Diabetes Treatment Satisfaction Questionnaire: DTSQ. In Bradley C (Ed) (1994) *Handbook of Psychology and Diabetes: a guide to psychological measurement in diabetes research and practice*. Abingdon: Routledge ISBN 9783718655625, formerly published by Harwood Academic Publishers ISBN 3-7186-5562-4: p. 111-132.
- Bradley, C. & Lewis, K.S. (1990). Measures of psychological well-being and treatment satisfaction developed from the responses of people with tablet-treated diabetes. *Diabetic Medicine* 7, 445-451.
- Bradley, C., & Speight, B. (2002). Patient perceptions of diabetes and diabetes therapy: assessing quality of life [Electronic version]. *Diabetes/Metabolism Research and Reviews*, 18(S3), S64-S69.
- Bretzel, R.G., Nuber, U., Landgraf, W., Owens, D.R., Bradley, C. & Linn, T. (2008). Once-daily basal insulin glargine versus thrice-daily prandial insulin lispro in people with type 2 diabetes on oral hypoglycaemic agents (APOLLO): an open randomized controlled trial. *The Lancet*, 371 (9618) 1073-1084. doi:10.1016/S0140-6736(08)60485-7. <http://www.thelancet.com/journals/lancet/article/PIIS0140673608604857/abstract> <http://digirep.rhul.ac.uk/items/dd2a797e-9f6c-02ed-3dfe-5d016ccf9d99/1/>
- Byrne, B.M. (2010) *Structural Equation Modeling with AMOS - Basic Concepts, Applications, and Programming*. New York: Lawrence Erlbaum Associates.
- DAFNE Study Group (2002). Training in flexible, intensive insulin management to enable dietary freedom in people with type 1 diabetes: the dose adjustment for normal eating (DAFNE) randomised controlled trial. *British Medical Journal*, 325, 746-749 (full 6 page version: <http://bmj.com/cgi/content/full/325/7367/746>).
- Hu, L.-T. & Bentler, P.M. (1995). Evaluating model fit. In R. H. Hoyle (Ed.). *Structural equation modelling: Concepts, issues and applications* (pp.76-99). Thousand Oaks: CA: Sage.
- Hu, L.-T. & Bentler, P.M. (1999). Cutoff criteria for fit indexes in covariance structure analysis: Conventional criteria versus new alternatives. *Structural Equation Modelling*, 6, 1-55.
- Jackson, D.L., Gillaspay, J.A. & Purc-Stephenson, R. (2009). Reporting practices in confirmatory factor analysis: An overview and some recommendations. *Psychological Methods*, 14(1), 6-23.
- Kenny, D. (2011). Measuring Model Fit [online] Available: <http://davidakenny.net/cm/fit.htm>. Accessed: 18.08.2015.

- Mitchell, J. & Bradley, C. (2001). Psychometric evaluation of the 12-item Well-Being Questionnaire for use with people with Macular Disease. *Quality of Life Research* 10, 465-473.
<http://www.springerlink.com/content/xj7l4444p36q78j2/>
- Muthén, L.K. & Muthén, B. O. (1998-2011). *Mplus User's Guide. Sixth Edition*. Los Angeles, CA: Muthén & Muthén.
- Peach, G., Romaine, J., Thompson, M.M., Hinchliffe, R.J. & Bradley, C. (2014). Development and validation of condition-specific patient-reported outcome measures (PROMS) of quality of life, symptoms and treatment satisfaction for patients with aortic aneurysms. *British Journal of Surgery* 101 (S4) 37, O129. doi: 10.1002/bjs.9508
<http://onlinelibrary.wiley.com/doi/10.1002/bjs.9508/pdf>
- Peach, G., Wilson, A., Plowright, R., Romaine, J., Thompson, M., Hinchliffe, R.J., & Bradley, C. (2015). Design of three new condition-specific questionnaires to assess quality of life, symptoms and treatment satisfaction of patients with abdominal aortic aneurysms: The Aneurysm-DQoL, Aneurysm-SRQ and Aneurysm-TSQ. *Value in Health*, 18 (7) A398, Abstract #PCV138. DOI: <http://dx.doi.org/10.1016/j.jval.2015.09.908>
- Romaine, J., Peach, G., Thompson, M.M., Hinchliffe, R.J., & Bradley, C. (2015). Psychometric development of three new condition-specific questionnaires to measure quality of life (Aneurysm-DQoL), symptoms (Aneurysm-SRQ) and treatment satisfaction (Aneurysm-TSQ) of individuals with abdominal aortic aneurysms. *Quality of Life Research* 24 (suppl 1), 41-42, Abstract #202.3 doi: 10.1007/s11136-015-1078-4
- Schumacker, R.E. & Lomax, R.G. (2004). *A beginner's guide to structural equation modelling* (2nd Edn.). Mahwah, NJ: Lawrence Erlbaum Associates.
- Reaney, M., Yu, M., Lakshmanan, M., Pechtner, V., & van Brunt, K. (2015). Treatment satisfaction in people with type 2 diabetes mellitus treated with once-weekly dulaglutide: data from the AWARD-1 and AWARD-3 clinical trials. *Diabetes Obesity & Metabolism*, 17(9), 896-903. doi:10.1111/dom.12527
- Tabachnick, B.G. & Fidell, L.S. (2007). *Using Multivariate Statistics* (5th ed.). New York: Allyn and Bacon.
- Ullman, J.B. (2001). Structural equation modelling. In B.G. Tabachnick & L.S. Fidell, *Using multivariate statistics* (4th ed. pp 653-771). New York: Allyn & Bacon.
- Witthaus, E., Stewart, J. & Bradley, C. (2001). Treatment satisfaction and psychological well-being with insulin glargine compared with NPH in patients with Type 1 diabetes. *Diabetic Medicine* 18, 619-625.

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