

# STUDIES USING THE DEMQOL

This document is meant to highlight the available literature surrounding the DEMQOL and DEMQOL-Proxy. This should not be seen as a comprehensive list. Please note, the studies listed in this document only reflect those that have utilised the DEMQOL or DEMQOL-Proxy measure. The use of the measure, and the presence in this document, does not necessarily mean that measures were utilised in accordance with original guidelines.

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## ENGLISH LANGUAGE:

Aguirre, E., Hoare, Z., Streater, A., Spector, A., Woods, B., Hoe, J., & Orrell, M. (2013). Cognitive stimulation therapy (CST) for people with dementia—who benefits most? *International Journal of Geriatric Psychiatry*, 28(3), 284–290. doi:10.1002/gps.3823

- **Version:** DEMQOL & DEMQOL-Proxy.
- **Procedure:** Measured DEMQOL pre and post 7 week CST intervention.
- **Population:** 272 participants; individuals with dementia and their carer, 50% community dwelling and 50% care home residents.

Aguirre, E., Kang, S., Hoare, Z., Edwards, R. T., & Orrell, M. (2016). How does the EQ-5D perform when measuring quality of life in dementia against two other dementia-specific outcome measures? *Quality of Life Research*, 25(1), 45-49. doi:10.1007/s11136-015-1065-9

- **Versions:** DEMQOL and DEMQOL-Proxy
- **Procedure:** Compared the EQ-5D with the DEMQOL and both proxies with each other
- **Population:** 272 participants with mild to moderate dementia.

Banerjee, S., Hellier, J., Romeo, R., Dewey, M., Knapp, M., Ballard, C., ... Burns, A. (2013). Study of the use of antidepressants for depression in dementia: the HTA-SADD trial--a multicentre, randomised, double-blind, placebo-controlled trial of the clinical effectiveness and cost-effectiveness of sertraline and mirtazapine. *Health Technology Assessment (Winchester, England)*, 17(7), 1–166. doi:10.3310/hta17070

- **Version:** DEMQOL & DEMQOL-Proxy
- **Procedure:** Measured DEMQOL at baseline, 13 weeks and 39 weeks in three groups; placebo, sertraline and mirtazapine.
- **Population:** 326 individuals diagnosed with probable Alzheimer's disease and depression.

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Banerjee, S., Smith, S. C., Lamping, D. L., Harwood, R. H., Foley, B., Smith, P., ... Knapp, M. (2006). Quality of life in dementia: more than just cognition. An analysis of associations with quality of life in dementia. *Journal of Neurology, Neurosurgery, and Psychiatry*, 77(2), 146–148. doi:10.1136/jnnp.2005.072983

- **Version:** DEMQOL-Proxy
- **Procedure:** Measured DEMQOL and other measures in a cross-sectional study (e.g. NPI, MMSE) to calculate their associations with DEMQOL.
- **Population:** 200 participants; individuals with a diagnosis of dementia and their carer.

Banerjee, S., Willis, R., Matthews, D., Contell, F., Chan, J., & Murray, J. (2007). Improving the quality of care for mild to moderate dementia: an evaluation of the Croydon Memory Service Model. *International Journal of Geriatric Psychiatry*, 22(8), 782–788. doi:10.1002/gps.1741

- **Version:** DEMQOL and DEMQOL-Proxy
- **Procedure:** Measured DEMQOL at baseline and at 6 month follow up.
- **Population:** 247 service users of the memory service over an 18-month period.

Borbasi, S., Emmanuel, E., Farrelly, B., & Ashcroft, J. (2011). Report of an evaluation of a Nurse-led Dementia Outreach Service for people with the behavioural and psychological symptoms of dementia living in residential aged care facilities. *Perspectives in Public Health*, 131(3), 124–130. doi:10.1177/1757913911400143

- **Version:** Amended version of the DEMQOL system
- **Procedure:** Measured DEMQOL at baseline, immediately following the intervention and at 3-6 months following baseline.
- **Population:** 320 participants; residential aged care facilities staff.

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Camic, P. M., Williams, C. M., & Meeten, F. (2013). Does a 'Singing Together Group' improve the quality of life of people with a dementia and their carers? A pilot evaluation study. *Dementia*, 12(2), 157-176. doi:10.1177/1471301211422761

- **Version:** DEMQOL and DEMQOL-Proxy.
- **Procedure:** Measured DEMQOL pre, post and 10-weeks following 'Singing Together Group' intervention.
- **Population:** 10 participants over 65 years with dementia or MCI and their family carers.

Charlesworth, G., Burnell, K., Crellin, N., Hoare, Z., Hoe, J., Knapp, M., . . . Orrell, M. (2016). Peer support and reminiscence therapy for people with dementia and their family carers: a factorial pragmatic randomised trial. *J Neurol Neurosurg Psychiatry*, 87(11), 1218-1228. doi:10.1136/jnnp-2016-313736

- **Version:** DEMQOL and DEMQOL-Proxy. .
- **Procedure:** Measures administered pre-randomisation at baseline, 5 months and 12 months during intervention.
- **Population:** 289 people with dementia and their family carers

Chua, K. C., Brown, A., Little, R., Matthews, D., Morton, L., Loftus, V., . . . Banerjee, S. (2016). Quality-of-life assessment in dementia: the use of DEMQOL and DEMQOL-Proxy total scores. *Qual Life Res*, 25(12), 3107-3118. doi:10.1007/s11136-016-1343-1

- **Version:** DEMQOL and DEMQOL-Proxy
- **Procedure:** Measures completed at memory assessment service
- **Population:** 868 community-dwelling people with dementia and 909 informants

Evans, N., Carey-Smith, B., & Orpwood, R. (2011). Using smart technology in an enabling way: a review of using technology to support daily life for a tenant with moderate dementia. *The British Journal of Occupational Therapy*, 74(5), 249–253. doi:10.4276/030802211X13046730116614

- **Version:** DEMQOL.

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- **Procedure:** Measured DEMQOL 4 times throughout the 12 months of the study.
- **Population:** 1 participant with mild-moderate dementia living in sheltered housing.

Goldberg, S. E., Bradshaw, L. E., Kearney, F. C., Russell, C., Whittamore, K. H., Foster, P. E. R., ... Harwood, R. H.. (2013). Care in specialist medical and mental health unit compared with standard care for older people with cognitive impairment admitted to general hospital: randomised controlled trial (NIHR TEAM trial). *BMJ*, 347, f4132. doi:10.1136/bmj.f4132

- **Version:** DEMQOL and DEMQOL-Proxy.
- **Procedure:** Measured DEMQOL at baseline and 90 days following randomisation to either standard care or a specialist unit.
- **Population:** 600 participants over 65 years, identified as being 'confused' on admittance to hospital.

Hendriks, A. A., Smith, S. C., Chrysanthaki, T., & Black, N. (2016). Reliability and validity of a self-administration version of DEMQOL-Proxy. *Int J Geriatr Psychiatry*. doi:10.1002/gps.4515

- **Version:** DEMQOL-Proxy
- **Procedure:** DEMQOL-Proxy was self-administered to establish the reliability and validity of self-administering this measure
- **Population:** 173 informal carers of memory assessment service users.

Hodgson, N., Gitlin, L. N., & Huang, J. (2014). The influence of sleep disruption and pain perception on indicators of quality of life in individuals living with dementia at home. *Geriatric Nursing*, 35(5), 394-398.

- **Version:** DEMQOL-Proxy
- **Procedure:** Cross-sectional study investigating the relationship between perception of pain, sleep quality and DEMQOL-Proxy.
- **Population:** 88 participants with dementia and their family caregivers.

Howard, R., McShane, R., Lindesay, J., Ritchie, C., Baldwin, A., Barber, R., ... Phillips, P. (2012). Donepezil and Memantine for Moderate-to-Severe Alzheimer's Disease. *New England Journal of Medicine*, 366(10), 893–903. doi:10.1056/NEJMoa1106668

- **Version:** DEMQOL-Proxy.
- **Procedure:** Measured DEMQOL 52 weeks after randomisation to one of four treatment groups; (1) continue donepezil, (2) stop donepezil, (3) stop donepezil and take memantine and (4) continue donepezil and take memantine.
- **Population:** 295 community-dwelling participants with moderate-severe dementia, receiving donepezil for at least 3 months and their caregivers.

Hurt, C. S., Banerjee, S., Tunnard, C., Whitehead, D. L., Tsolaki, M., Mecocci, P., ... Lovestone, S. (2010). Insight, cognition and quality of life in Alzheimer's disease. *Journal of Neurology, Neurosurgery & Psychiatry*, 81(3), 331–336. doi:10.1136/jnnp.2009.184598

- **Version:** DEMQOL and DEMQOL-Proxy.
- **Procedure:** Measured DEMQOL to investigate the relationship between insight and HRQL in dementia.
- **Population:** 256 participants with Alzheimer's disease recruited and their carers.

Jones, R. W., Romeo, R., Trigg, R., Knapp, M., Sato, A., King, D., . . . Lacey, L. (2015). Dependence in Alzheimer's disease and service use costs, quality of life, and caregiver burden: The DADE study. *Alzheimer's & Dementia*, 11(3), 280-290. doi:http://dx.doi.org/10.1016/j.jalz.2014.03.001

- **Version:** DEMQOL and DEMQOL-Proxy
- **Procedure:** Cross-sectional study which utilised the DEMQOL and DEMQOL-Proxy to investigate the relationship between HRQL and dependency.
- **Population:** 249 participants, both community-dwelling and institutionalised, with Alzheimer's disease and a knowledgeable informant.

Longden, E., Davis, P., Carroll, J., Billington, J., & Kinderman, P. (2016). An evaluation of shared reading groups for adults living with dementia: preliminary findings. *Journal of Public Mental Health, 15*(2), 75-82. doi:10.1108/JPMH-06-2015-0023

- **Version:** DEMQOL-Proxy
- **Procedure:** 6 month interventional study, whereby measures were completed monthly
- **Population:** 31 care home residents with mild to moderate dementia

Low, L.-F., Brodaty, H., Goodenough, B., Spitzer, P., Bell, J.-P., Fleming, R., ... Chenoweth, L. (2013). The Sydney Multisite Intervention of LaughterBosses and ElderClowns (SMILE) study: cluster randomised trial of humour therapy in nursing homes. *BMJ Open, 3*(1), e002072. doi:10.1136/bmjopen-2012-002072

- **Version:** DEMQOL and DEMQOL-Proxy.
- **Procedure:** Measured DEMQOL pre, post and 13 weeks following a humour therapy intervention in two groups; (1) treatment and (2) control group.
- **Population:** 398 participants; residents of nursing homes that cater for dementia.

Mhaoláin, A. M. N., Gallagher, D., Crosby, L., Ryan, D., Lacey, L., Coen, R. F., ... Lawlor, B. (2012). Frailty and Quality of Life for People With Alzheimer's Dementia and Mild Cognitive Impairment. *American Journal of Alzheimer's Disease and Other Dementias, 27*(1), 48–54. doi:10.1177/1533317511435661

- **Version:** DEMQOL-Proxy.
- **Procedure:** Measured DEMQOL and frailty in two groups; (1) milder cognitive impairment and (2) moderate-severe cognitive impairment, to investigate relationship between frailty and HRQL.
- **Population:** 115 participants; community dwelling individuals with Alzheimer's disease or MCI and their carers.



Mulhern, B., Rowen, D., Brazier, J., Smith, S., Romeo, R., Tait, R., ... Banerjee, S. (2013). Development of DEMQOL-U and DEMQOL-PROXY-U: generation of preference-based indices from DEMQOL and DEMQOL-PROXY for use in economic evaluation. *Health Technology Assessment (Winchester, England)*, 17(5), 1–140. doi:10.3310/hta17050

- **Version:** DEMQOL-U and DEMQOL-Proxy-U.
- **Procedure:** Produced two dementia-specific preference-based measures for use in economic evaluation; DEMQOL-U and DEMQOL-Proxy-U.
- **Population:** 1327 participants in stage 1; individuals with mild-moderate dementia and their carers, 742 participants in stage 2; general population, individuals with mild dementia and their carers.

Mulhern, B., Smith, S. C., Rowen, D., Brazier, J. E., Knapp, M., Lamping, D. L., ... Banerjee, S. (2012). Improving the measurement of QALYs in dementia: developing patient- and carer-reported health state classification systems using Rasch analysis. *Value in Health: The Journal of the International Society for Pharmacoeconomics and Outcomes Research*, 15(2), 323–333. doi:10.1016/j.jval.2011.09.006

- **Version:** DEMQOL and DEMQOL-Proxy
- **Procedure:** Developed a health state classification system based on DEMQOL system.
- **Population:** 1327 participants; individuals with mild to moderate dementia and their carers.

Orgeta V., Leung P., Yates L., Kang S., Hoare Z., Henderson C.,... Orrell M. (2015). Individual cognitive stimulation therapy for dementia: a clinical effectiveness and cost-effectiveness pragmatic, multicentre, randomised controlled trial. *Health Technology Assessment* 25(1). doi:10.3310/hta19640

- **Version:** DEMQOL and DEMQOL-Proxy.
- **Procedure:** Measured DEMQOL and DEMQOL-Proxy at baseline, 13 weeks and 26 weeks
- **Population:** 356 dyads of individuals with dementia and their family carers

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Orrell, M., Aguirre, E., Spector, A., Hoare, Z., Woods, R. T., Streater, A., ... Russell, I. (2014). Maintenance cognitive stimulation therapy for dementia: single-blind, multicentre, pragmatic randomised controlled trial. *The British Journal of Psychiatry*, Advance online publication. doi:10.1192/bjp.bp.113.137414

- **Version:** *DEMQOL and DEMQOL-Proxy.*
- **Procedure:** *Measured DEMQOL at baseline, immediately before, 3 months following and 6 months following randomisation into either the (1) maintenance CST group (24 weeks) or (2) treatment as usual group.*
- **Population:** *236 participants; individuals with mild-moderate dementia who had completed 7 weeks of CST (14 sessions).*

Park, M. H., Black, N., Ritchie, C. W., Hendriks, A. A., & Smith, S. C. (2017). Is the effectiveness of memory assessment services associated with their structural and process characteristics? *Int J Geriatr Psychiatry*. doi:10.1002/gps.4675

- **Versions:** *DEMQOL and DEMQOL-Proxy*
- **Procedure:** *Both measures were used at baseline and 6 month follow up to assess change in quality of life*
- **Population:** *785 memory assessment service users and 511 informal carers*

Perales, J., Cosco, T. D., Stephan, B. C., Fleming, J., Martin, S., Haro, J. M., ...The CC75C Study. (2014). Health-related quality of life in the Cambridge City over-75s Cohort (CC75C): development of a dementia-specific scale and descriptive analyses. *BMC Geriatrics*, 14(1), 18. doi:10.1186/1471-2318-14-18

- **Version:** *DEMQOL domains mapped onto retrospective data to produce amended version.*
- **Procedure:** *Measured DEMQOL and other constructs to investigate associations with HRQL.*
- **Population:** *110 participants; individuals with mild-moderate dementia, over 80 years, living in the community or a care home.*

Ratcliffe, J., Flint, T., Easton, T., Killington, M., Cameron, I., Davies, O., . . . Crotty, M. (2016). An Empirical Comparison of the EQ-5D-5L, DEMQOL-U and DEMQOL-Proxy-U in a Post-Hospitalisation Population of Frail Older People Living in Residential Aged Care. *Appl Health Econ Health Policy*. doi:10.1007/s40258-016-0293-7

- **Versions:** DEMQOL-U and DEMQOL Proxy-U
- **Procedure:** Measures were administered at baseline and 4 weeks and compared to the EQ-5D to establish suitability of the measures with elderly people, regardless of cognitive ability
- **Population:** 240 elderly participants in residential care, recovering from hip fracture surgery.

Romeo, R., Knapp, M., Salverda, S., Orrell, M., Fossey, J., & Ballard, C. (2016). The cost of care homes for people with dementia in England: a modelling approach. *Int J Geriatr Psychiatry*. doi:10.1002/gps.4637

- **Versions:** DEMQOL and DEMQOL-Proxy
- **Procedure:** The measures were utilised to see if QOL was associated with cost of care, among many other explanatory variables
- **Population:** 277 care or nursing home residents with dementia

Rowen, D., Mulhern, B., Banerjee, S., Hout, B. van, Young, T. A., Knapp, M., ... Brazier, J. E. (2012). Estimating preference-based single index measures for dementia using DEMQOL and DEMQOL-Proxy. *Value in Health: The Journal of the International Society for Pharmacoeconomics and Outcomes Research*, 15(2), 346–356. doi:10.1016/j.jval.2011.10.016

- **Version:** DEMQOL and DEMQOL-Proxy.
- **Procedure:** Produced preference-based single index measures; DEMQOL-U and DEMQOL-Proxy-U.
- **Population:** 593 participants; members of the general population.

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Rowen, D., Mulhern, B., Banerjee, S., Tait, R., Watchurst, C., Smith, S. C., ... & Brazier, J. E. (2014). Comparison of general population, patient, and carer utility values for dementia health states. *Medical Decision Making*, 35, 68-80. doi: 10.1177/0272989X14557178.

- **Version:** DEMQOL-U and DEMQOL-Proxy-U.
- **Population:** 155 general population, 71 patients with mild dementia and 71 carers.

Schulz, R., Cook, T. B., Beach, S. R., Lingler, J. H., Martire, L. M., Monin, J. K., & Czaja, S. J. (2013). Magnitude and Causes of Bias Among Family Caregivers Rating Alzheimer Disease Patients. *The American Journal of Geriatric Psychiatry*, 21(1), 14–25. doi:10.1016/j.jagp.2012.10.002

- **Version:** DEMQOL and DEMQOL-Proxy.
- **Procedure:** Measured DEMQOL at baseline and at 12 month follow up in two groups; (1) individuals with dementia or (2) carers to investigate caregiver-patient discrepancies.
- **Population:** 105 participants with probable Alzheimer's disease and their carers.

Schulz, R., Monin, J. K., Czaja, S. J., Lingler, J. H., Beach, S. R., Martire, L. M., ... Cook, T. B. (2010). Measuring the Experience and Perception of Suffering. *The Gerontologist*, 50(6), 774–784. doi:10.1093/geront/gnq033

- **Version:** DEMQOL.
- **Procedure:** Measured DEMQOL in three different patient-carer groups to explore the perception of suffering; (1) Dementia, (2) Osteoarthritis and (3) Dementia in African American/Hispanic individuals.
- **Population:** 279 participants and their carers.

Shi, G., Liu, C., Li, Q., Zhu, H., & Wang, L. (2012). Influence of acupuncture on cognitive function and markers of oxidative DNA damage in patients with vascular dementia. *Journal of Traditional Chinese Medicine = Chung I Tsa Chih Ying Wen Pan / Sponsored by All-China*

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*Association of Traditional Chinese Medicine, Academy of Traditional Chinese Medicine, 32(2), 199–202.*

- **Version:** DEMQOL.
- **Procedure:** Measured DEMQOL pre-, post- and 4 weeks following a 6 week acupuncture intervention.
- **Population:** 16 participants aged 50-80 years with a diagnosis of Vascular dementia.

Tanajewski, L., Franklin, M., Gkountouras, G., Berdunov, V., Harwood, R. H., Goldberg, S. E., . . . Elliott, R. A. (2015). Economic Evaluation of a General Hospital Unit for Older People with Delirium and Dementia (TEAM Randomised Controlled Trial). *PLoS One, 10(12)*, e0140662. doi:10.1371/journal.pone.0140662

- **Version:** DEMQOL-Proxy
- **Procedure:** DEMQOL-Proxy completed at follow-up for participants lacking an EQ-5D score
- **Population:** 600 'confused' patients admitted for acute hospital health care.

Trigg, R., Jones, R. W., Knapp, M., King, D., & Lacey, L. A. (2014). The relationship between changes in quality of life outcomes and progression of Alzheimer's disease: results from the Dependence in AD in England 2 longitudinal study. *International journal of geriatric psychiatry.*

- **Version:** DEMQOL and DEMQOL-Proxy.
- **Procedure:** Measured DEMQOL and DEMQOL-Proxy at baseline and at 18 months to assess the relationship between disease severity and changes in quality of life.
- **Population:** 145 participants with possible/probable Alzheimer's disease and their carers.

## **OTHER LANGUAGES:**

### **Chinese**

Shi, G. X., Li, Q. Q., Yang, B. F., Liu, Y., Guan, L. P., Wu, M. M., . . . Liu, C. Z. (2015).

Acupuncture for Vascular Dementia: A Pragmatic Randomized Clinical Trial. *Scientific World Journal*, 2015, 161439. doi:10.1155/2015/161439

- **Version:** DEMQOL and DEMQOL-Proxy
- **Procedure:** DEMQOL and Proxy were administered at baseline, after 6 weeks treatment and 4 weeks post-treatment
- **Population:** 68 participants with Vascular Dementia

### **Russian**

Gavrilova, S. I., Ferri, C. P., Mikhaylova, N., Sokolova, O., Banerjee, S., & Prince, M. (2009).

Helping carers to care—The 10/66 dementia research group’s randomized control trial of a caregiver intervention in Russia. *International Journal of Geriatric Psychiatry*, 24(4), 347–354. doi:10.1002/gps.2126

- **Version:** DEMQOL (Russian version).
- **Procedure:** Measured DEMQOL at baseline and 6 months in two groups; (1) Caregiver education and training intervention group and (2) Treatment as usual group.
- **Population:** 60 participants; family caregivers of individuals over 65, with dementia.

Herrschaft, H., Nacu, A., Likhachev, S., Sholomov, I., Hoerr, R., & Schlaefke, S. (2012).

Ginkgo biloba extract EGb 761® in dementia with neuropsychiatric features: A randomised, placebo-controlled trial to confirm the efficacy and safety of a daily dose of 240 mg. *Journal of Psychiatric Research*, 46(6), 716–723. doi:10.1016/j.jpsychires.2012.03.003

- **Version:** DEMQOL-Proxy (Russian version).
- **Procedure:** Measured DEMQOL at baseline and 24 weeks in a (1) Treatment (Gingko Biloba) group and (2) Placebo group.
- **Population:** 410 participants; outpatients with mild-moderate dementia and their carers.

Ihl, R., Bachinskaya, N., Korczyn, A. D., Vakhapova, V., Tribanek, M., Hoerr, R., & Napryeyenko, O. (2011). Efficacy and safety of a once-daily formulation of Ginkgo biloba extract EGb 761 in dementia with neuropsychiatric features: a randomized controlled trial. *International Journal of Geriatric Psychiatry*, 26(11), 1186–1194. doi:10.1002/gps.2662

- **Version:** DEMQOL-Proxy (Russian version).
- **Procedure:** Measured DEMQOL at baseline, 12 weeks and 24 weeks in a (1) Treatment (Ginkgo Biloba) group and (2) Placebo group.
- **Population:** 404 participants; individuals with Alzheimer's disease, Vascular dementia or Alzheimer's disease with vascular components exhibiting neuropsychiatric symptoms, and their carers.

Ihl, R., Tribanek, M., & Bachinskaya, N. (2010). Baseline neuropsychiatric symptoms are effect modifiers in Ginkgo biloba extract (EGb 761®) treatment of dementia with neuropsychiatric features. Retrospective data analyses of a randomized controlled trial. *Journal of the Neurological Sciences*, 299(1–2), 184–187. doi:10.1016/j.jns.2010.08.033

- **Version:** DEMQOL-Proxy (Russian version).
- **Procedure:** Measured DEMQOL at baseline, 12 weeks and 24 weeks in a (1) Treatment (Ginkgo Biloba) group and (2) Placebo group.
- **Population:** 404 participants; individuals with Alzheimer's disease, Vascular dementia or Alzheimer's disease with vascular components exhibiting neuropsychiatric symptoms, and their carers.

## German

Berwig, M., Leicht, H., & Gertz, H. J. (2009). Critical evaluation of self-rated quality of life in mild cognitive impairment and Alzheimer's disease — Further evidence for the impact of anosognosia and global cognitive impairment. *JNHA - The Journal of Nutrition, Health and Aging*, 13(3), 226–230. doi:10.1007/s12603-009-0063-4

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- **Version:** DEMQOL and DEMQOL-Proxy (German versions).
- **Procedure:** Measured DEMQOL in individuals with (1) MCI or (2) Alzheimer's disease.
- **Population:** 27 participants with Alzheimer's disease or MCI and their caregivers.

Berwig, M., Leicht, H., Hartwig, K., & Gertz, H. J. (2011). Self-rated quality of life in mild cognitive impairment and Alzheimer's disease: The problem of affective distortion. *GeroPsych: The Journal of Gerontopsychology and Geriatric Psychiatry*, 24(1), 45–51. doi:<http://dx.doi.org/10.1024/1662-9647/a000029>

- **Version:** DEMQOL and DEMQOL-Proxy (German amended version).
- **Procedure:** Measured DEMQOL and mood state in individuals with (1) MCI or (2) Alzheimer's disease.
- **Population:** 30 participants with Alzheimer's disease or MCI and their caregivers.

## Spanish

Gomez-Gallego, M., Gomez-Garcia, J., & Ato-Lozano, E. (2015). Addressing the bias problem in the assessment of the quality of life of patients with dementia: Determinants of the accuracy and precision of the proxy ratings. *The Journal of Nutrition, Health & Aging*, 19(3), 365-372. doi:[10.1007/s12603-014-0564-7](https://doi.org/10.1007/s12603-014-0564-7)

- **Version:** DEMQOL and DEMQOL-Proxy (Spanish versions).
- **Procedure:** Utilised DEMQOL and DEMQOL-Proxy to establish the degree of discrepancy between the measures and explored contribution factors.
- **Population:** 138 participants with Alzheimer's disease and their informal carers.

Guerra, M., Ferri, C. P., Fonseca, M., Banerjee, S., & Prince, M. (2011). Helping carers to care: the 10/66 dementia research group's randomized control trial of a caregiver intervention in Peru. *Revista Brasileira de Psiquiatria*, 33(1), 47–54. doi:[10.1590/S1516-44462010005000017](https://doi.org/10.1590/S1516-44462010005000017)

- **Version:** DEMQOL (Spanish version).



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- **Procedure:** Measured DEMQOL at baseline and at 6 months in the (1) caregiver intervention group and (2) control group.
- **Population:** 58 participants; individuals with dementia over 65 and their carers.

Lucas-Carrasco, R., Lamping, D. L., Banerjee, S., Rejas, J., Smith, S. C., & Gómez-Benito, J. (2010). Validation of the Spanish version of the DEMQOL system. *International Psychogeriatrics*, 22(04), 589–597. doi:10.1017/S1041610210000207

- **Version:** DEMQOL and DEMQOL-Proxy (Spanish versions).
- **Procedure:** Psychometric testing and validation of Spanish DEMQOL system.
- **Population:** 119 participants; individuals with dementia and their carers.

Lucas-Carrasco, R., Skevington, S. M., Gómez-Benito, J., Rejas, J., & March, J. (2011). Using the WHOQOL-BREF in persons with dementia: a validation study. *Alzheimer Disease and Associated Disorders*, 25(4), 345–351. doi:10.1097/WAD.0b013e31820bc98b

- **Version:** DEMQOL (Spanish versions).
- **Procedure:** Psychometric testing and validation of Spanish WHOQOL-BREF system.
- **Population:** 104 participants with mild-moderate dementia.