

Supplementary Material

Title: Anxiety, depression and quality of life in Chronic Obstructive Pulmonary Disease patients and caregivers: an actor-partner interdependence model analysis

Journal: Quality of life research

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Table S4. Fit indices for models with equality constraints for patients and caregivers (dyads n=80).

| Model | $\chi^2(p)$ | df | CFI | TLI | RMSEA(90%CI) | SRMR | Δdf | $\Delta\chi^2(p)$ |
|---|---------------|----|-------|--------|---------------------|-------|-------------|----------------------|
| Mental QoL (SF-12 MCS) | | | | | | | | |
| Saturated model | 0.000 | 0 | 1.000 | 1.000 | 0.000 (0.000-0.000) | 0.000 | | |
| Model 1: equality constraint on actor effects for anxiety and depression | | | | | | | | |
| Fit indices | 2.254 (0.324) | 2 | 0.994 | 0.971 | 0.068 (0.000-0.243) | 0.035 | 2 | 2.254 (0.324) |
| Model 2: equality constraint on partner effects for anxiety and depression | | | | | | | | |
| Fit indices | 1.194 (0.369) | 2 | 1.000 | 1.022 | 0.000 (0.000-0.200) | 0.011 | 2 | 1.194 (0.369) |
| Model 3: equality constraint on actor effects for anxiety | | | | | | | | |
| Fit indices | 1.018 (0.313) | 1 | 1.000 | 0.999 | 0.015 (0.000-0.297) | 0.017 | 1 | 1.018 (0.313) |
| Model 4: equality constraint on actor effects for depression | | | | | | | | |
| Fit indices | 2.744 (0.098) | 1 | 0.985 | 0.865 | 0.148 (0.000-0.369) | 0.033 | 1 | 2.744 (0.098) |
| Model 5: equality constraint on partner effects for anxiety | | | | | | | | |
| Fit indices | 1.009 (0.315) | 1 | 1.000 | 0.999 | 0.010 (0.000-0.296) | 0.011 | 1 | 1.009 (0.315) |
| Model 6: equality constraint on partner effects for depression | | | | | | | | |
| Fit indices | 1.288 (0.256) | 1 | 0.998 | 0.978 | 0.060 (0.000-0.311) | 0.012 | 1 | 1.288 (0.256) |
| Physical QoL (SF-12 PCS) | | | | | | | | |
| Saturated model | 0.000 | 0 | 1.000 | 1.000 | 0.000 (0.000-0.000) | 0.000 | | |
| Model 1: equality constraint on actor effects for anxiety and depression | | | | | | | | |
| Fit indices | 4.462 (0.102) | 2 | 0.868 | 0.407 | 0.124 (0.000-0.282) | 0.031 | 2 | 4.462 (0.102) |
| Model 2: equality constraint on partner effects for anxiety and depression | | | | | | | | |
| Fit indices | 4.886 (0.086) | 2 | 0.846 | 0.305 | 0.134 (0.000-0.291) | 0.044 | 2 | 4.886 (0.086) |
| Model 3: equality constraint on actor effects for anxiety | | | | | | | | |
| Fit indices | 3.249 (0.072) | 1 | 0.880 | -0.083 | 0.168 (0.000-0.385) | 0.028 | 1 | 3.249 (0.072) |
| Model 4: equality constraint on actor effects for depression | | | | | | | | |
| Fit indices | 3.964 (0.047) | 1 | 0.841 | -0.427 | 0.192 (0.020-0.406) | 0.042 | 1 | 3.964 (0.047) |
| Model 5: equality constraint on partner effects for anxiety | | | | | | | | |
| Fit indices | 1.699 (0.192) | 1 | 0.963 | 0.663 | 0.093 (0.000-0.330) | 0.026 | 1 | 1.699 (0.192) |
| Model 6: equality constraint on partner effects for depression | | | | | | | | |
| Fit indices | 4.862 (0.027) | 1 | 0.793 | -0.860 | 0.220 (0.059-0.430) | 0.044 | 1 | 4.862 (0.027) |

QoL= quality of life; PCS= physical component summary; MCS= mental component summary; χ^2 = chi-square; df=degrees of freedom; CFI=comparative fit index; TLI= Tucker-Lewis index; RMSEA= root-mean-square error of approximation; CI= confidence interval; SRMR= standardized root-mean-square residual; Δdf = degrees of freedom difference; $\Delta\chi^2$ =chi-square difference test.

Note: Values of TLI and CFI >0.95, RMSEA and SRMR <0.06 reflect adequate fit of a specified model (Hu & Bentler 1999). To compare models chi-square difference test is used, when $\Delta\chi^2$ results statistically significant (p<0.05) the baseline model must be preferred to the tested model (Cook & Kenny 2005).