

BOOK MEASUREMENT IN MEDICINE  
HVC de Vet  
CB Terwee  
LB Mokkink  
DL Knol

CHAPTER 4 ASSIGNMENT 3: FACTOR ANALYSIS GO-QOL QUESTIONNAIRE

PUBLISHED AS: Terwee CB, Gerding MN, Dekker FW, Prummel MF, Wiersinga WM. Development of a disease-specific quality of life questionnaire for patients with Graves' ophthalmopathy. Br J Ophthalmol 1998;82:773-779

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\*ASSIGNMENT 3: FACTOR ANALYSES GO-QOL.

\*3a Step 1: Correlation matrix.

CORRELATIONS

```
/VARIABLES=bicycling driving moving_house walking reading tv hobby  
interference changed_app stared unpeas_react selfconfidence friends  
isolation photos mask_changes  
/PRINT=TWOTAIL SIG  
/MISSING=PAIRWISE .
```

\*3b PCA.

\*Step 2: The number of factors to be extracted.

FACTOR

```
/VARIABLES bicycling driving moving_house walking reading tv hobby  
interference changed_app stared unpeas_react selfconfidence friends  
isolation photos mask_changes  
/MISSING LISTWISE /ANALYSIS bicycling driving moving_house walking  
reading tv hobby interference changed_app stared unpeas_react  
selfconfidence friends isolation photos mask_changes  
/PRINT INITIAL EXTRACTION  
/PLOT EIGEN  
/CRITERIA MINEIGEN(1) ITERATE(25)  
/EXTRACTION PC  
/METHOD=CORRELATION .
```

\*Step 3 Rotation.

FACTOR

```
/VARIABLES bicycling driving moving_house walking reading tv hobby  
interference changed_app stared unpeas_react selfconfidence friends  
isolation photos mask_changes  
/MISSING LISTWISE /ANALYSIS bicycling driving moving_house walking  
reading tv hobby interference changed_app stared unpeas_react  
selfconfidence friends isolation photos mask_changes  
/PRINT INITIAL EXTRACTION ROTATION  
/PLOT EIGEN ROTATION  
/CRITERIA MINEIGEN(1) ITERATE(25)  
/EXTRACTION PC  
/CRITERIA ITERATE(25)
```

```
/ROTATION VARIMAX  
/METHOD=CORRELATION .
```

\*3d. PCA analysis forcing a 2 factor model.

```
FACTOR  
  /VARIABLES bicycling driving moving_house walking reading tv hobby  
interference changed_app stared unpeas_react selfconfidence friends  
isolation photos mask_changes  
/MISSING LISTWISE /ANALYSIS bicycling driving moving_house walking  
reading tv hobby interference changed_app stared unpeas_react  
selfconfidence friends isolation photos mask_changes  
  /PRINT INITIAL CORRELATION EXTRACTION ROTATION  
  /PLOT EIGEN ROTATION  
  /CRITERIA FACTORS(2) ITERATE(25)  
  /EXTRACTION PC  
  /CRITERIA ITERATE(25)  
  /ROTATION VARIMAX  
  /METHOD=CORRELATION .
```