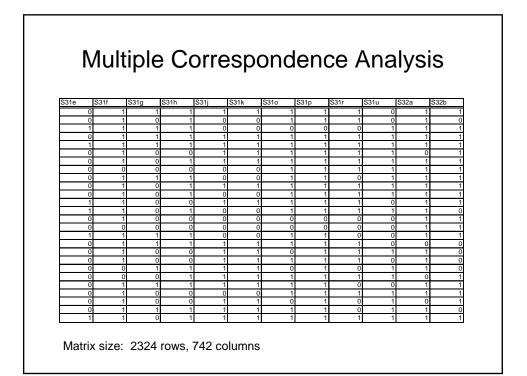
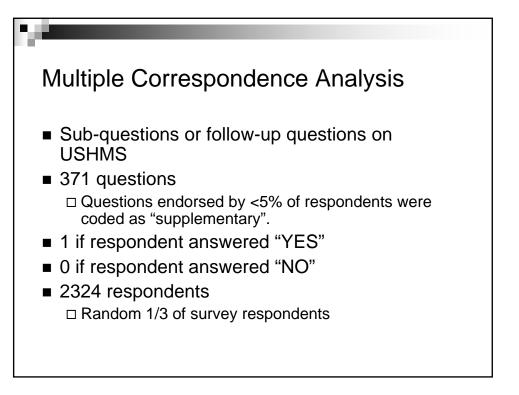
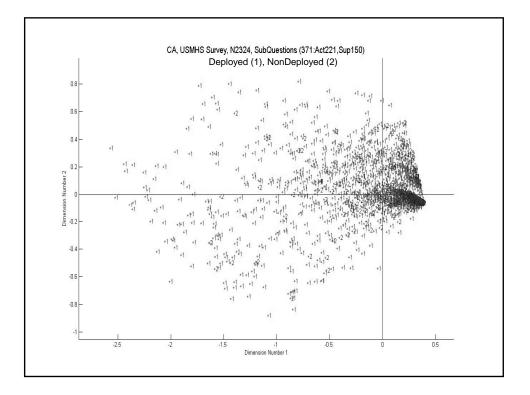


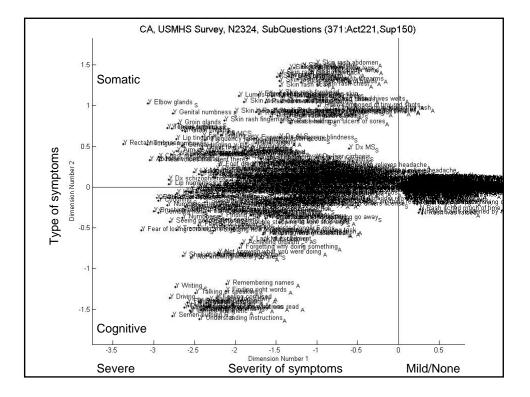
Correspondence Analyses

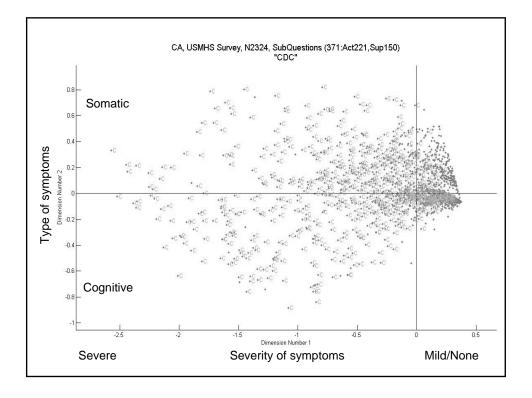
- Another important feature is the graphical display of row and column points in biplots, which can help in detecting structural relationships among the variable categories and objects (*i.e.*, cases). Finally, correspondence analysis has highly flexible data requirements. The only strict data requirement is a rectangular data matrix with nonnegative entries.
- A distinct advantage of correspondence analysis over other methods yielding joint graphical displays is that it produces two dual displays whose row and column geometries have similar interpretations, facilitating analysis and detection of relationships. In other multivariate approaches to graphical data representation, this duality is not present.
- In a nutshell, correspondence analysis (CA) may be defined as a special case of principal components analysis (PCA) of the rows and columns of a table, especially applicable to a cross-tabulation. However CA and PCA are used under different circumstances. Principal components analysis is used for tables consisting of continuous measurement, whereas correspondence analysis is applied to contingency tables (*i.e.* cross-tabulations). Its primary goal is to transform a table of numerical information into a graphical display, in which each row and each column is depicted as a point.
- Correspondence analysis shows how the variables are related, not just that a relationship exists.
- Extension: Discriminant Correspondence Analyses developed by Dr. Abdi.

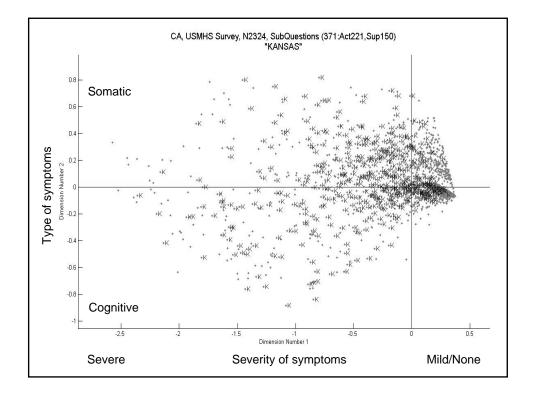


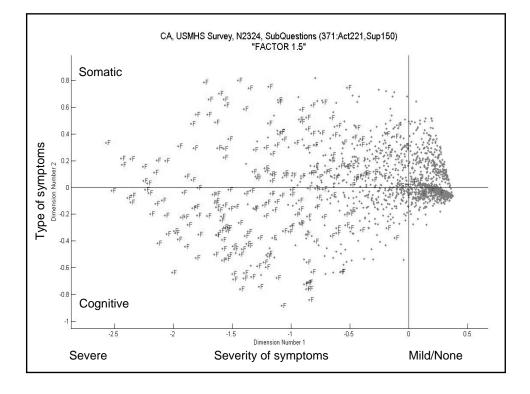


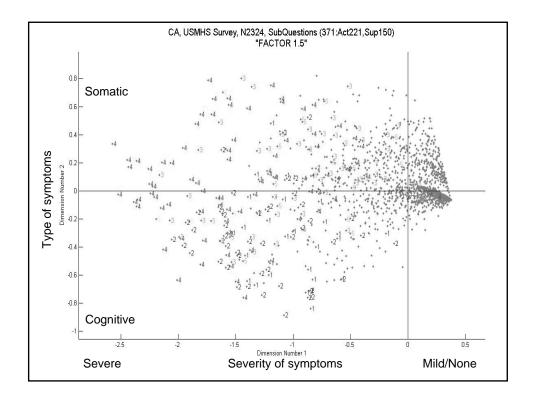


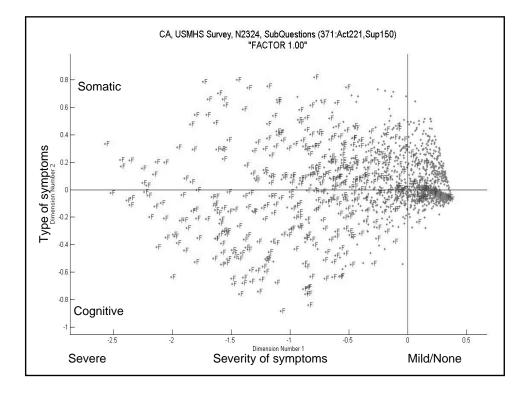


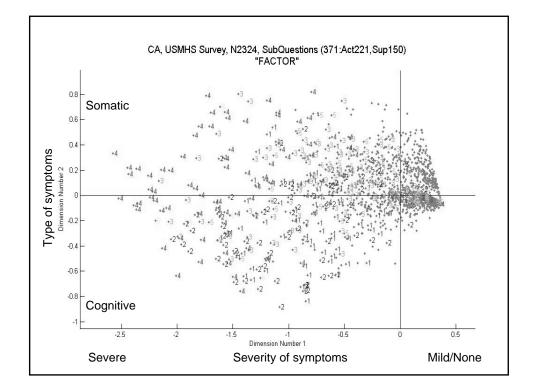


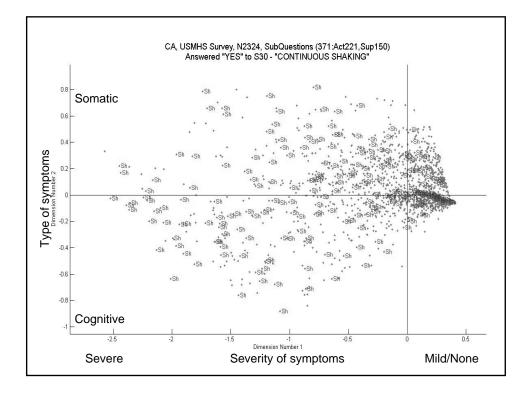












Comparison of Surveys

- Factor (Haley)
- Kansas (Steele)
- CDC (Fukuda)
- Factor & Kansas
- Factor, notKansas
- Kansas, notFactor
- Factor only
- · Kansas only
- CDC only

