

The Biostatistical Core in Aging Research promotes research in aging by bringing together interdisciplinary collaborators interested in issues of aging and offering specialized statistical consultation and support.

The University of Iowa has a wealth of existing data (SEER registry, Iowa 65+ Rural Health Study, clinical data bases, etc.) that can be used in pilot studies to identify efficient and realistic study designs to address important issues in aging. Statistical problems in aging studies are often unique and not handled properly by existing methods. Through the Biostatistics Core, simulation studies can help identify the performance of new testing and estimation procedures. In addition, software may be used to analyze special problems.

Joseph Cavanaugh, PhD, Associate Professor of Biostatistics and Associate Director for Biostatistics for the Center on Aging heads the Biostatistical Core. Dr. Cavanaugh is available to consult with researchers to discuss methodological design, statistical analysis and related research issues. Dr. Cavanaugh has expertise in the following statistical areas:

- Categorical Data Analysis
- Discrimination and Classification *
- Generalized Linear Models
 - Logistic Regression
 - Loglinear Models
- Hypothesis Testing and Estimation
- Linear Models *
 - Regression Analysis
 - Analysis of Variance
 - Experimental Design
- Longitudinal Data Analysis
- Missing Data Applications *
- Model Selection / Modeling Diagnostics *
- Multivariate Data Analysis
- Nonlinear Regression
- Nonparametric Methods
- Sampling Designs
- Time Series Analysis *
 - Time Domain Methodologies
 - Frequency Domain Methodologies

*Denotes a methodological and/or theoretical research interest. Please note that data management services are not available.

Investigators interested in a brief consultation appointment should contact Dr. Cavanaugh at 384-5024, or by e-mail: joe-cavanaugh@uiowa.edu. Biostatistical support for long-term projects or applications may also be arranged.