Materials and Methods of the Single Injection Count Total Regression Model

Regression modeling was calculated using the **R** interface (R Development Core Team, 2014). Environmental factors relating to clinical adoption were gathered from video annotations, survey results, and demographic information collected throughout the study period. The data was transformed to remove longitudinal effects to create a model that reflects the clinical impact over the entire time period. The **MASS** package stepAIC algorithm performed bidirectional model selection using AIC (Akaike information criterion) as the selection measure. Related variables of interest were visualized by scattermatrix supplied by the **car** package.

Six Factors investigated:

* Prior regional block performance (count)
* Participant age (years)
* Participant experience (years)
* Participant gender
* Teaching affiliation
* Total of Scores received during AssessmentTime2 [0-30]

R stat package

R Development Core Team (2014). R: A language and environment for statistical computing. R Foundation for Statistical Computing, Vienna, Austria. ISBN 3-900051-07-0, URL <http://www.R-project.org/>.

‘MASS’ package

Venables, W. N. & Ripley, B. D. (2002) Modern Applied Statistics with S. Fourth Edition. Springer, New York. ISBN 0-387-95457-0

‘car’ package

John Fox and Sanford Weisberg (2011). An {R} Companion to Applied Regression, Second Edition. Thousand Oaks CA: Sage. <URL:http://socserv.socsci.mcmaster.ca/jfox/Books/Companion>

Posting of R source code if required by the publication

https://github.com/ajkou/FAER\_Study/blob/master/FAER%20stats.R