1176-62-256   **Andre K Waschka*** (`waschka_ak@mercer.edu`), Mercer University. *Detecting Positivity Assumption Violations in Longitudinal Studies.*

We consider a problem of positivity assumption violations in high dimensional complex longitudinal observational studies. Our parameter of interest is the intervention specific mean under static treatment rules. Using the *ltmle* package, which combines longitudinal targeted maximum likelihood estimation and Superlearner machine learning, we conduct the simulation analysis of different variance estimators. Based on those results we state a positivity assumption violation detection test that can easily be conducted through *ltmle*. (Received January 24, 2022)