Multivariate Screening and Feature Engineering for Statistical Decision Making in Disease Severity Diagnostics

FEATURE ENGINEERING **Feature Space Formulation Feature Ranking Feature Simulation** Use statistical tests to identify Ranking the tests according to **Bootstraping attributes presenting** significance level significant statistical differences sample differences **Screened Features Unscreened Features** Statistically significant disease indicators Complete set of measurements Hierarchical K-Means **Applied to Screened and Tree-based merging approach Centroid-based iterative partition** & **Unscreened Features EVALUATION** & **Cluster Quality Evaluation Screened vs. Unscreened Features**