**TPRS Poisson Regression** Samuel Herold, Kayleigh Keller Trial 1 Plots: ## [1] "X created using a spectral density of: 0.1. Confounder created using a spectral density of: 0.25." Root Mean Square Error of Point Estimates by TPRS degrees of freedom 0.24 -Rooot Mean Squared Error 0.12 -12 TPRS degrees of freedom Bias of Point Estimates by TPRS degrees of freedom 0.25 -0.20 -0.15 **-**0.10 -† TPRS degrees of freedom Coverage by TPRS degrees of freedom Times the True b1 was Covered by Confidence Interval 12 tPRS degrees of freedom Point Estimate's of b1 by TPRS degrees of freedom 1.2 -Point estimate of b1 12 TPRS degrees of freedom Standard Deviation and Standard Error by TPRS degrees of freedom 0.07 -SD:Red and SE:Black 0.05 -12 TPRS degrees of freedom Trial 2 Plots: ## [1] "X created using a spectral density of: 0.25. Confounder created using a spectral density of: 0.1." Root Mean Square Error of Point Estimates by TPRS degrees of freedom 0.350 **-**Rooot Mean Squared Error 0.275 **-**12 TPRS degrees of freedom Bias of Point Estimates by TPRS degrees of freedom 0.34 -0.32 **-**0.30 -0.28 -12 TPRS degrees of freedom Coverage by TPRS degrees of freedom 0.050 -Times the True b1 was Covered by Confidence Interval -0.050 **-**12 TPRS degrees of freedom Point Estimate's of b1 by TPRS degrees of freedom 1.3 -Point estimate of b1 1.1 -12 TPRS degrees of freedom Standard Deviation and Standard Error by TPRS degrees of freedom 0.08 -SD:Red and SE:Black 0.05 -12 tPRS degrees of freedom Trial 3 Plots: ## [1] "X created using a spectral density of: 0.1. Confounder created using a spectral density of: 0.1." Root Mean Square Error of Point Estimates by TPRS degrees of freedom 0.1950 **-**Rooot Mean Squared Error 0.1875 **-**12 tPRS degrees of freedom Bias of Point Estimates by TPRS degrees of freedom 0.180 **-**0.176 **-**Bias 0.172 -0.168 tPRS degrees of freedom 12 Coverage by TPRS degrees of freedom 0.250 -Times the True b1 was Covered by Confidence Interval 0.150 tPRS degrees of freedom 12 Point Estimate's of b1 by TPRS degrees of freedom 1.15 **-**Point estimate of b1 1.05 **-**1.00 tPRS degrees of freedom 12 Standard Deviation and Standard Error by TPRS degrees of freedom 0.09 -0.08 -SD:Red and SE:Black # Trial 4 0.06 -12 TPRS degrees of freedom Plots: ## [1] "X created using a spectral density of: 0.25. Confounder created using a spectral density of: 0.25." Root Mean Square Error of Point Estimates by TPRS degrees of freedom 0.29 -0.28 -Error Rooot Mean Squared E 0.25 **-**0.24 -12 tPRS degrees of freedom **Bias of Point Estimates** by TPRS degrees of freedom 0.27 -0.26 -Bias 0.25 -0.24 -0.23 tPRS degrees of freedom 12 Coverage by TPRS degrees of freedom Times the True b1 was Covered by Confidence Interval 12 tPRS degrees of freedom Point Estimate's of b1 by TPRS degrees of freedom 1.2 **-**Point estimate of b1

12

12

TPRS degrees of freedom

tPRS degrees of freedom

Standard Deviation and Standard Error

by TPRS degrees of freedom

0.10 -

SD:Red and SE:Black

0.07 -

0.06 -