

# Simulation Summary

Winnie Wing-Yee Tse

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Table 1: Bias of intercept ( $r_{ni} = 0$ )

misspecify	kappa2	n	PI	AwG	TSPAA	TSAPB
FALSE	0.00	100	0.001	0.001	-0.001	0.000
		250	0.000	0.000	-0.002	0.000
		1000	-0.001	-0.001	0.000	-0.001
	0.25	100	0.001	0.000	-0.003	0.000
		250	0.000	0.000	-0.002	0.000
		1000	-0.001	-0.001	0.000	-0.001
TRUE	0.00	100	-0.012	-0.015	0.008	-0.013
		250	-0.013	-0.016	0.008	-0.013
		1000	-0.014	-0.017	0.010	-0.014
	0.25	100	-0.013	-0.016	0.007	-0.008
		250	-0.014	-0.016	0.007	-0.008
		1000	-0.015	-0.017	0.010	-0.009

Table 2: Bias of intercept ( $r_{ni} = .25$ )

misspecify	kappa2	n	PI	AwG	TSPAA	TSAPB
FALSE	0.00	100	-0.004	0.001	0.007	-0.004
		250	-0.002	0.001	0.005	-0.003
		1000	0.000	0.001	0.002	0.000
	0.25	100	-0.004	-0.003	0.001	-0.004
		250	-0.002	-0.001	0.002	-0.003
		1000	0.000	0.000	0.000	0.000
TRUE	0.00	100	-0.019	-0.016	0.017	-0.017
		250	-0.017	-0.016	0.015	-0.015
		1000	-0.015	-0.015	0.013	-0.013
	0.25	100	-0.019	-0.020	0.010	-0.013
		250	-0.017	-0.018	0.012	-0.011
		1000	-0.015	-0.016	0.011	-0.009

Table 3: Bias of intercept ( $r_{ni} = .55$ )

misspecify	kappa2	n	PI	AwG	TSPAA	TSAPB
FALSE	0.00	100	0.212	0.041	0.056	0.352
		250	0.213	0.048	0.067	0.354
		1000	0.215	0.055	0.079	0.357
	0.25	100	0.212	0.036	0.049	0.352
		250	0.213	0.043	0.060	0.354
		1000	0.215	0.050	0.072	0.357
TRUE	0.00	100	0.205	0.025	0.068	0.331
		250	0.207	0.032	0.078	0.333
		1000	0.209	0.039	0.087	0.335
	0.25	100	0.205	0.020	0.062	0.331
		250	0.207	0.027	0.072	0.333
		1000	0.209	0.035	0.082	0.335

Bias

Mean Intercept

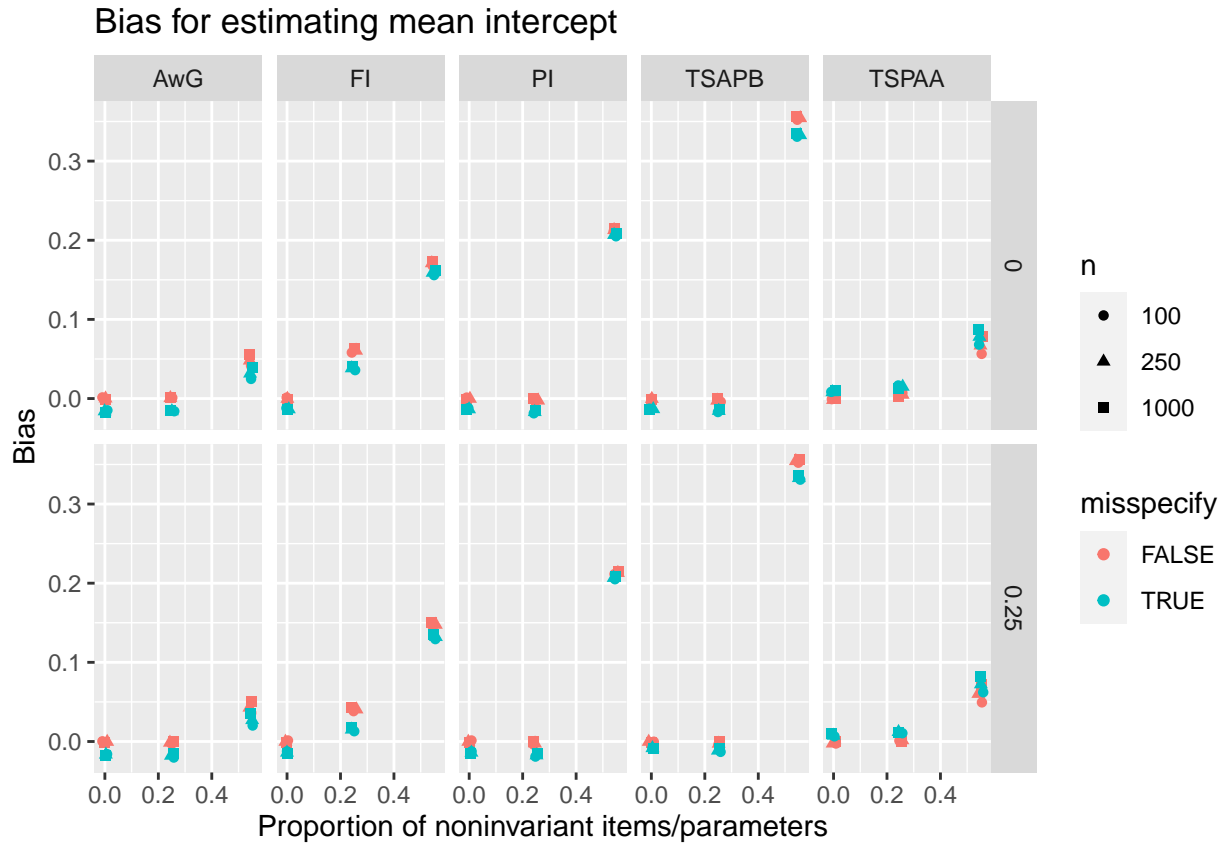


Table 4: Bias of slope ( $r_{ni} = 0$ )

misspecify	kappa2	n	PI	AwG	TSPAA	TSAPB
FALSE	0.00	100	0.001	0.001	0.001	0.001
		250	0.000	0.000	0.000	0.000
		1000	0.000	0.000	0.000	0.000
	0.25	100	0.001	0.002	0.007	0.001
		250	0.000	0.001	0.003	0.000
		1000	0.000	0.000	0.001	0.000
TRUE	0.00	100	0.001	0.002	0.002	0.001
		250	0.001	0.001	0.001	0.001
		1000	0.001	0.001	0.001	0.001
	0.25	100	0.001	0.007	0.010	-0.002
		250	0.001	0.005	0.004	-0.003
		1000	0.001	0.004	0.002	-0.003

### Mean Slope

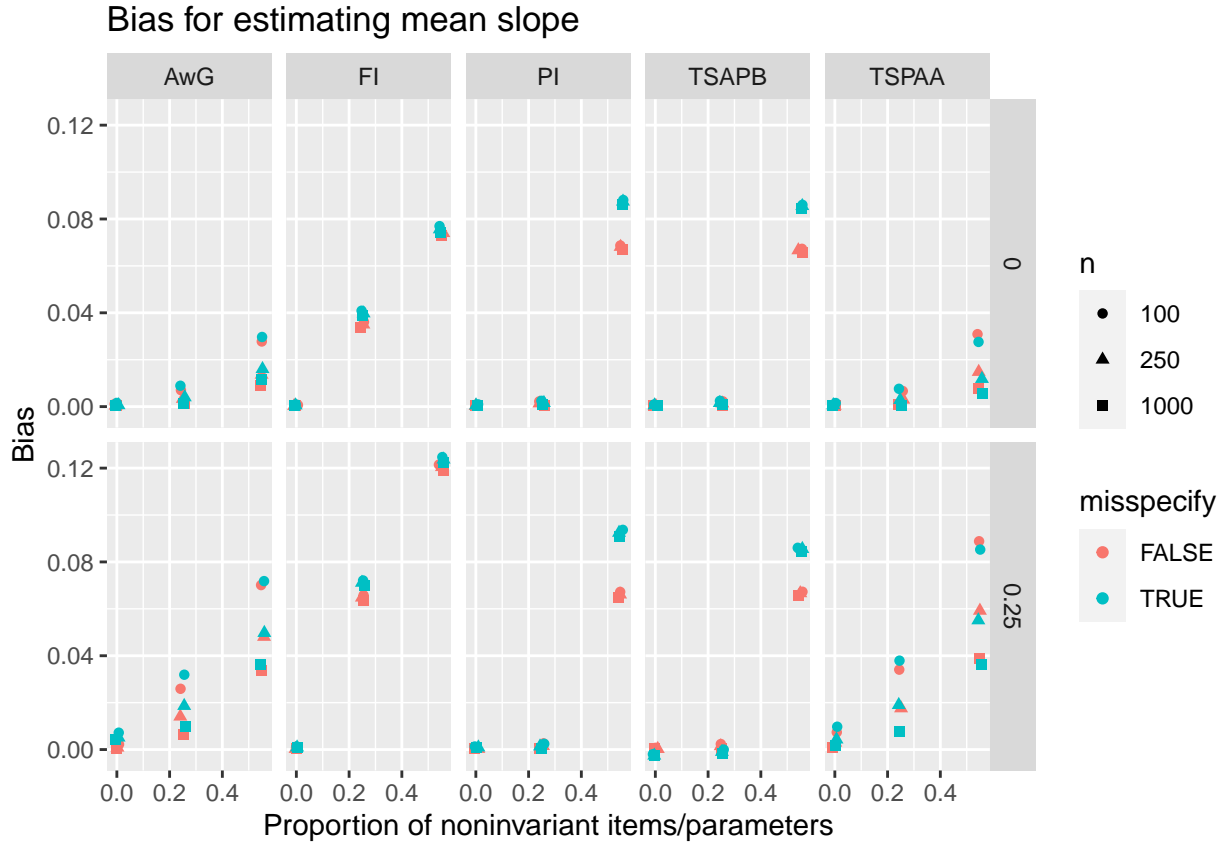


Table 5: Bias of slope ( $r_{ni} = .25$ )

misspecify	kappa2	n	PI	AwG	TSPAA	TSAPB
FALSE	0.00	100	0.002	0.007	0.007	0.002
		250	0.001	0.003	0.003	0.001
		1000	0.000	0.001	0.001	0.000
	0.25	100	0.003	0.026	0.034	0.002
		250	0.002	0.014	0.018	0.001
		1000	0.001	0.006	0.008	0.000
	0.00	100	0.002	0.009	0.008	0.002
		250	0.002	0.004	0.003	0.002
		1000	0.001	0.001	0.001	0.001
TRUE	0.25	100	0.002	0.032	0.038	0.000
		250	0.001	0.019	0.019	-0.001
		1000	0.000	0.010	0.007	-0.002

Table 6: Bias of slope ( $r_{ni} = .55$ )

misspecify	kappa2	n	PI	AwG	TSPAA	TSAPB
FALSE	0.00	100	0.069	0.028	0.031	0.067
		250	0.068	0.014	0.015	0.067
		1000	0.067	0.009	0.008	0.066
	0.25	100	0.067	0.070	0.089	0.067
		250	0.066	0.048	0.059	0.067
		1000	0.065	0.034	0.039	0.066
	0.00	100	0.088	0.030	0.028	0.086
		250	0.087	0.016	0.012	0.086
		1000	0.086	0.011	0.006	0.084
TRUE	0.25	100	0.094	0.072	0.085	0.086
		250	0.092	0.050	0.055	0.086
		1000	0.091	0.036	0.036	0.084

Table 7: Standardized Bias of intercept ( $r_{ni} = 0$ )

misspecify	kappa2	n	PI	AwG	TSPAA	TSAPB
FALSE	0.00	100	0.012	0.014	-0.016	-0.001
		250	-0.004	0.002	-0.059	-0.006
		1000	-0.035	-0.034	-0.011	-0.033
	0.25	100	0.012	0.002	-0.057	-0.002
		250	-0.004	-0.006	-0.089	-0.005
		1000	-0.035	-0.037	-0.021	-0.032
TRUE	0.00	100	-0.117	-0.141	0.182	-0.120
		250	-0.214	-0.250	0.279	-0.202
		1000	-0.447	-0.527	0.653	-0.415
	0.25	100	-0.122	-0.152	0.140	-0.077
		250	-0.221	-0.257	0.253	-0.126
		1000	-0.462	-0.527	0.652	-0.269

## Standardized Bias

### Mean Intercept

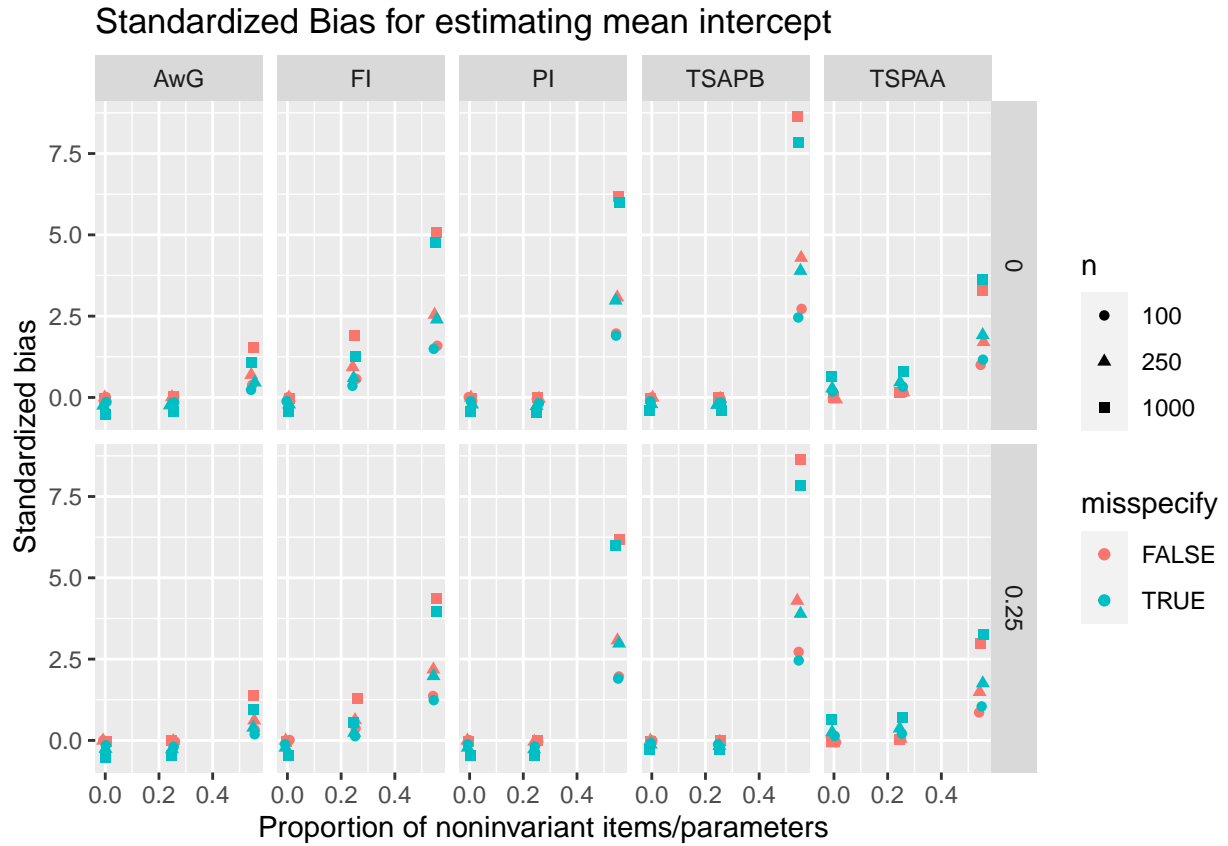


Table 8: Standardized Bias of intercept ( $r_{ni} = .25$ )

misspecify	kappa2	n	PI	AwG	TSPAA	TSAPB
FALSE	0.00	100	-0.039	0.010	0.144	-0.037
		250	-0.038	0.010	0.157	-0.037
		1000	-0.010	0.043	0.139	-0.010
	0.25	100	-0.039	-0.030	0.020	-0.038
		250	-0.038	-0.022	0.052	-0.039
		1000	-0.010	0.010	0.022	-0.012
TRUE	0.00	100	-0.185	-0.156	0.328	-0.159
		250	-0.263	-0.240	0.467	-0.228
		1000	-0.454	-0.444	0.785	-0.388
	0.25	100	-0.189	-0.196	0.207	-0.122
		250	-0.270	-0.270	0.367	-0.168
		1000	-0.468	-0.469	0.695	-0.266

Table 9: Standardized Bias of intercept ( $r_{ni} = .55$ )

misspecify	kappa2	n	PI	AwG	TSPAA	TSAPB
FALSE	0.00	100	1.967	0.387	1.001	2.723
		250	3.077	0.694	1.704	4.295
		1000	6.171	1.525	3.291	8.651
	0.25	100	1.967	0.333	0.860	2.723
		250	3.077	0.614	1.490	4.295
		1000	6.171	1.380	2.967	8.651
TRUE	0.00	100	1.900	0.233	1.163	2.458
		250	2.980	0.462	1.917	3.894
		1000	5.986	1.079	3.612	7.832
	0.25	100	1.900	0.188	1.046	2.458
		250	2.980	0.392	1.758	3.894
		1000	5.986	0.958	3.269	7.832

Table 10: Standardized Bias of slope ( $r_{ni} = 0$ )

misspecify	kappa2	n	PI	AwG	TSPAA	TSAPB
FALSE	0.00	100	0.014	0.021	0.018	0.012
		250	0.010	0.013	0.011	0.010
		1000	0.025	0.025	0.023	0.024
	0.25	100	0.013	0.040	0.122	0.014
		250	0.010	0.026	0.083	0.008
		1000	0.024	0.022	0.060	0.022
TRUE	0.00	100	0.019	0.030	0.029	0.018
		250	0.017	0.019	0.019	0.018
		1000	0.035	0.035	0.034	0.035
	0.25	100	0.026	0.129	0.160	-0.040
		250	0.029	0.150	0.118	-0.081
		1000	0.058	0.251	0.102	-0.160

Mean slope

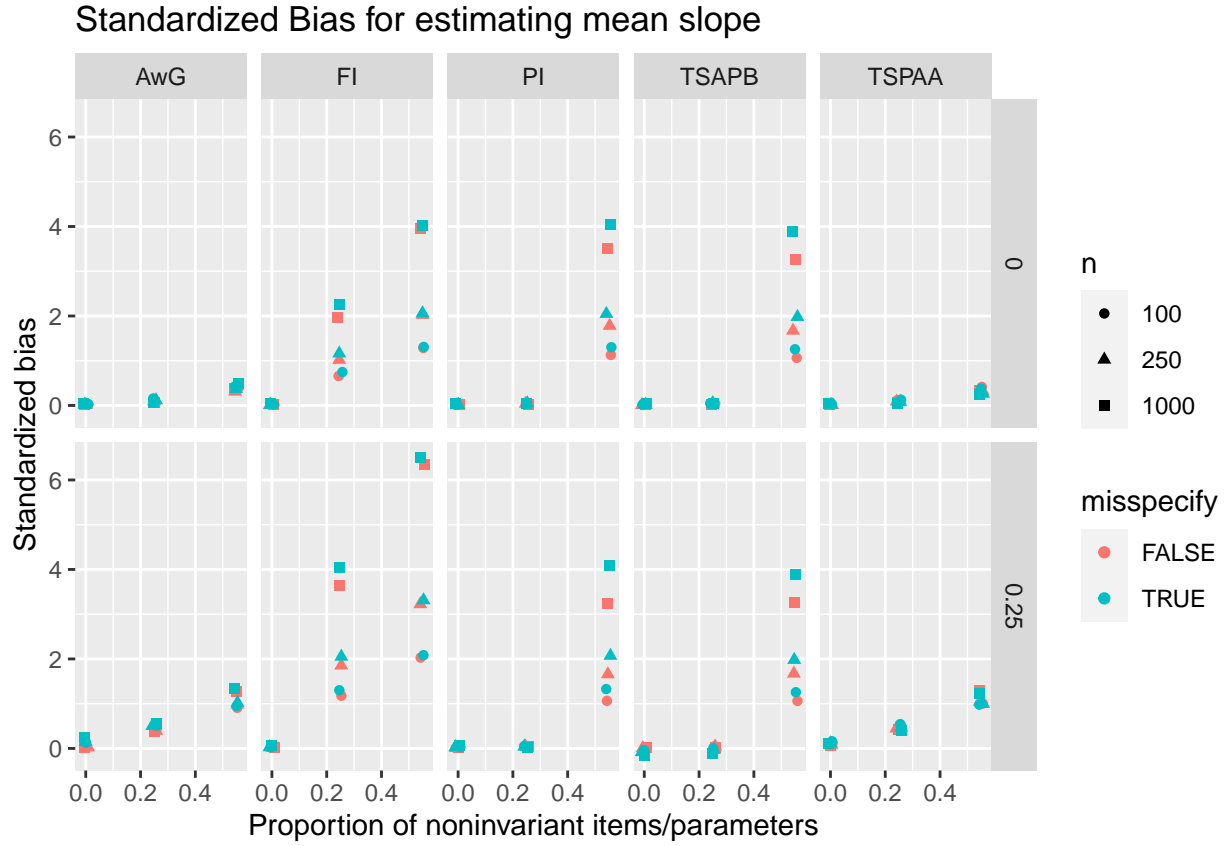




Table 11: Standardized Bias of slope ( $r_{ni} = .25$ )

misspecify	kappa2	n	PI	AwG	TSPAA	TSAPB
FALSE	0.00	100	0.043	0.125	0.114	0.043
		250	0.042	0.099	0.088	0.042
		1000	0.027	0.069	0.057	0.027
	0.25	100	0.050	0.429	0.503	0.045
		250	0.046	0.394	0.447	0.044
		1000	0.033	0.378	0.422	0.030
TRUE	0.00	100	0.047	0.155	0.128	0.048
		250	0.048	0.116	0.082	0.048
		1000	0.045	0.076	0.035	0.045
	0.25	100	0.046	0.510	0.544	0.000
		250	0.041	0.503	0.470	-0.030
		1000	0.030	0.562	0.405	-0.114

Table 12: Standardized Bias of slope ( $r_{ni} = .55$ )

misspecify	kappa2	n	PI	AwG	TSPAA	TSAPB
FALSE	0.00	100	1.130	0.394	0.416	1.062
		250	1.782	0.310	0.322	1.673
		1000	3.503	0.375	0.325	3.258
	0.25	100	1.064	0.907	1.003	1.062
		250	1.659	0.979	1.046	1.673
		1000	3.241	1.279	1.301	3.258
TRUE	0.00	100	1.301	0.428	0.378	1.256
		250	2.047	0.370	0.263	1.980
		1000	4.045	0.486	0.241	3.879
	0.25	100	1.327	0.947	0.978	1.256
		250	2.071	1.021	0.998	1.980
		1000	4.096	1.332	1.218	3.879

Table 13: RMSE of intercept ( $r_{ni} = 0$ )

misspecify	kappa2	n	PI	AwG	TSPAA	TSAPB
FALSE	0.00	100	0.103	0.106	0.045	0.109
		250	0.064	0.065	0.028	0.067
		1000	0.032	0.033	0.014	0.034
	0.25	100	0.103	0.106	0.045	0.110
		250	0.064	0.065	0.028	0.068
		1000	0.032	0.033	0.014	0.034
TRUE	0.00	100	0.103	0.106	0.047	0.107
		250	0.065	0.066	0.030	0.067
		1000	0.035	0.037	0.018	0.036
	0.25	100	0.103	0.106	0.047	0.107
		250	0.065	0.066	0.030	0.067
		1000	0.035	0.037	0.018	0.034

## RMSE

### Mean Intercept

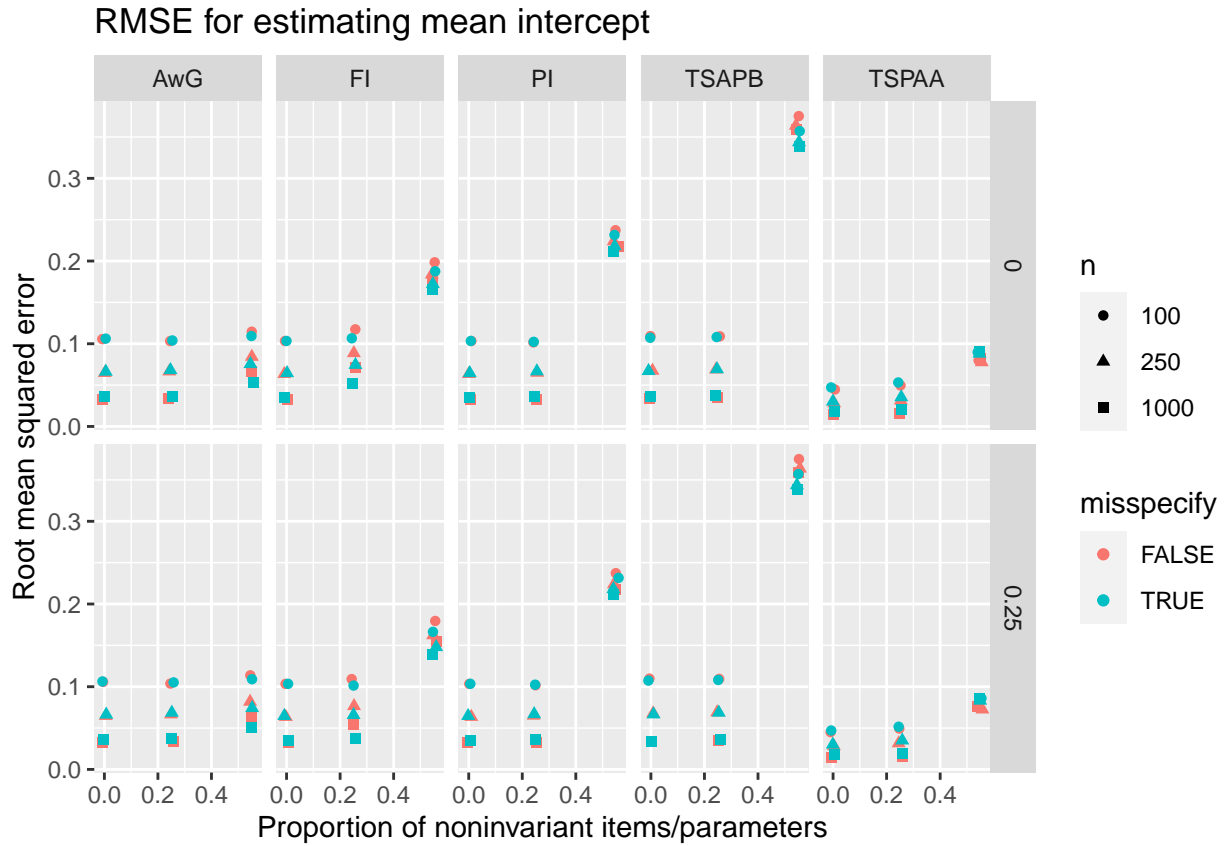


Table 14: RMSE of intercept ( $r_{ni} = .25$ )

misspecify	kappa2	n	PI	AwG	TSPAA	TSAPB
FALSE	0.00	100	0.102	0.103	0.050	0.109
		250	0.065	0.067	0.031	0.069
		1000	0.033	0.034	0.016	0.035
	0.25	100	0.102	0.104	0.049	0.109
		250	0.065	0.067	0.032	0.069
		1000	0.033	0.033	0.016	0.035
TRUE	0.00	100	0.102	0.104	0.053	0.108
		250	0.067	0.068	0.035	0.069
		1000	0.036	0.037	0.020	0.037
	0.25	100	0.102	0.105	0.052	0.108
		250	0.067	0.069	0.035	0.069
		1000	0.036	0.037	0.020	0.036

Table 15: RMSE of intercept ( $r_{ni} = .55$ )

misspecify	kappa2	n	PI	AwG	TSPAA	TSAPB
FALSE	0.00	100	0.237	0.115	0.080	0.375
		250	0.224	0.084	0.078	0.364
		1000	0.218	0.066	0.082	0.359
	0.25	100	0.237	0.114	0.076	0.375
		250	0.224	0.082	0.073	0.364
		1000	0.218	0.062	0.076	0.359
TRUE	0.00	100	0.232	0.109	0.090	0.357
		250	0.218	0.075	0.088	0.344
		1000	0.212	0.053	0.090	0.338
	0.25	100	0.232	0.109	0.086	0.357
		250	0.218	0.074	0.083	0.344
		1000	0.212	0.050	0.085	0.338

Table 16: RMSE of slope ( $r_{ni} = 0$ )

misspecify	kappa2	n	PI	AwG	TSPAA	TSAPB
FALSE	0.00	100	0.050	0.052	0.054	0.050
		250	0.032	0.032	0.033	0.032
		1000	0.016	0.016	0.016	0.016
	0.25	100	0.050	0.054	0.061	0.051
		250	0.032	0.033	0.036	0.032
		1000	0.016	0.016	0.017	0.016
TRUE	0.00	100	0.049	0.052	0.053	0.049
		250	0.031	0.033	0.033	0.031
		1000	0.016	0.016	0.016	0.016
	0.25	100	0.049	0.056	0.062	0.050
		250	0.031	0.035	0.037	0.032
		1000	0.016	0.017	0.018	0.016

## Mean Slope

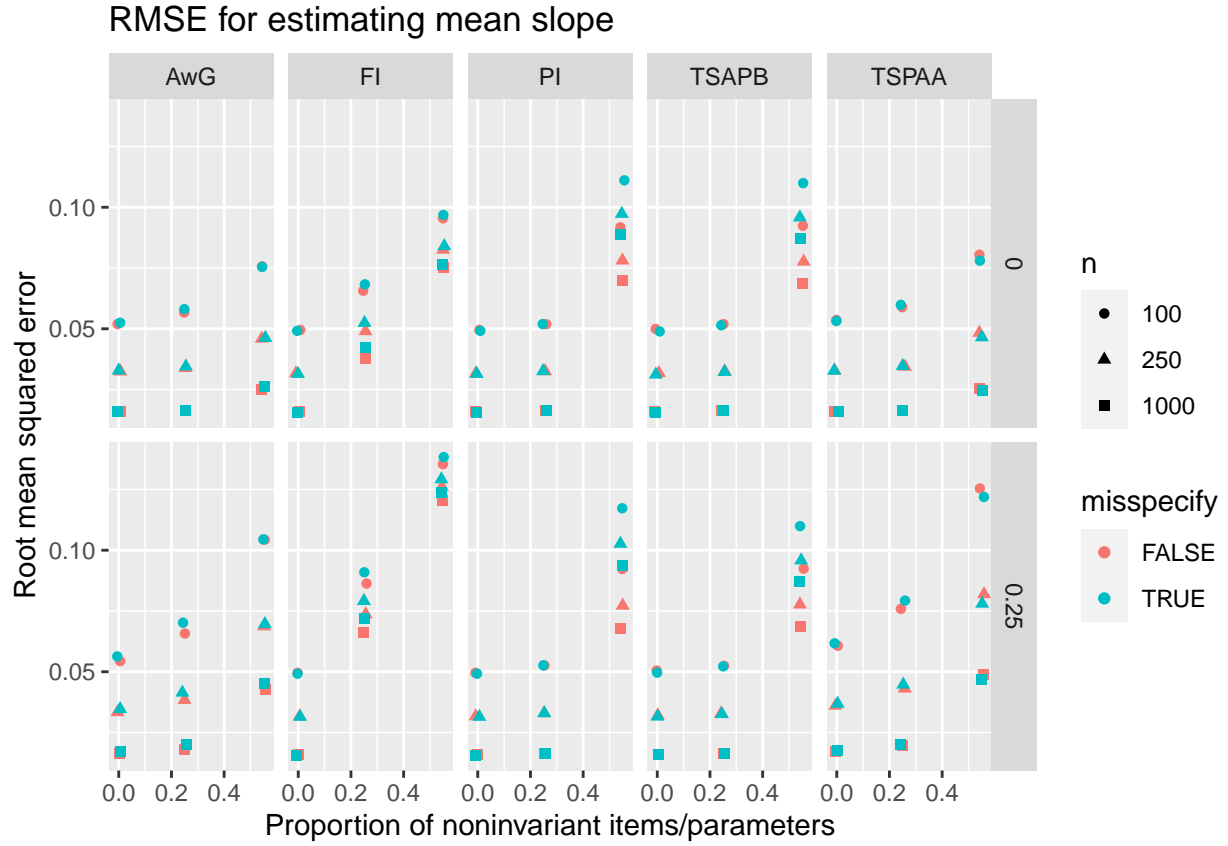


Table 17: RMSE of slope ( $r_{ni} = .25$ )

misspecify	kappa2	n	PI	AwG	TSPAA	TSAPB
FALSE	0.00	100	0.052	0.057	0.059	0.052
		250	0.033	0.034	0.034	0.033
		1000	0.016	0.016	0.016	0.016
	0.25	100	0.053	0.066	0.076	0.052
		250	0.033	0.038	0.043	0.033
		1000	0.017	0.018	0.020	0.016
TRUE	0.00	100	0.052	0.058	0.060	0.051
		250	0.033	0.035	0.035	0.032
		1000	0.016	0.016	0.016	0.016
	0.25	100	0.053	0.070	0.079	0.052
		250	0.033	0.041	0.045	0.033
		1000	0.017	0.020	0.020	0.016

Table 18: RMSE of slope ( $r_{ni} = .55$ )

misspecify	kappa2	n	PI	AwG	TSPAA	TSAPB
FALSE	0.00	100	0.092	0.076	0.080	0.092
		250	0.078	0.046	0.048	0.078
		1000	0.070	0.025	0.026	0.069
	0.25	100	0.092	0.104	0.125	0.092
		250	0.077	0.069	0.082	0.078
		1000	0.068	0.043	0.049	0.069
TRUE	0.00	100	0.111	0.075	0.078	0.110
		250	0.097	0.046	0.047	0.096
		1000	0.089	0.026	0.024	0.087
	0.25	100	0.117	0.104	0.122	0.110
		250	0.103	0.070	0.078	0.096
		1000	0.094	0.045	0.047	0.087

Table 19: Coverage of intercept ( $r_{ni} = 0$ )

misspecify	kappa2	n	PI	AwG	TSPAA	TSAPB
FALSE	0.00	100	0.957	0.964	1	0.930
		250	0.964	0.970	1	0.932
		1000	0.961	0.970	1	0.932
	0.25	100	0.958	0.963	1	0.928
		250	0.964	0.972	1	0.930
		1000	0.960	0.970	1	0.932
TRUE	0.00	100	0.950	0.974	1	0.930
		250	0.956	0.978	1	0.928
		1000	0.937	0.963	1	0.914
	0.25	100	0.951	0.972	1	0.928
		250	0.957	0.977	1	0.932
		1000	0.938	0.962	1	0.930

## Confidence Interval Converge

### Mean Intercept

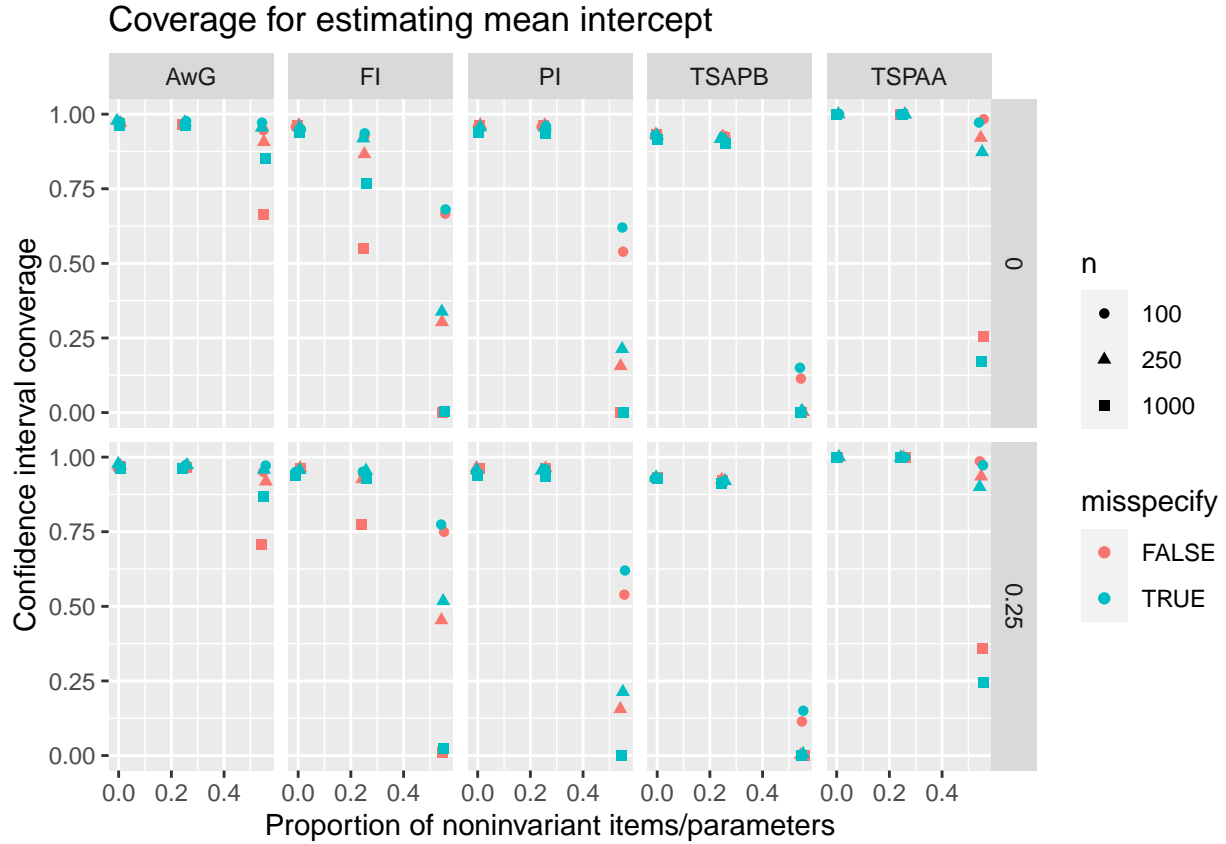


Table 20: Converage of intercept ( $r_{ni} = .25$ )

misspecify	kappa2	n	PI	AwG	TSPAA	TSAPB
FALSE	0.00	100	0.957	0.965	0.999	0.926
		250	0.963	0.966	0.999	0.925
		1000	0.960	0.965	1.000	0.923
	0.25	100	0.956	0.963	1.000	0.924
		250	0.962	0.968	1.000	0.924
		1000	0.960	0.966	1.000	0.921
TRUE	0.00	100	0.960	0.977	0.998	0.921
		250	0.956	0.973	0.999	0.917
		1000	0.936	0.961	1.000	0.900
	0.25	100	0.960	0.974	0.999	0.917
		250	0.955	0.974	0.999	0.920
		1000	0.936	0.960	0.999	0.910

Table 21: Coverage of intercept ( $r_{ni} = .55$ )

misspecify	kappa2	n	PI	AwG	TSPAA	TSAPB
FALSE	0.00	100	0.539	0.946	0.983	0.114
		250	0.156	0.907	0.921	0.002
		1000	0.000	0.665	0.254	0.000
	0.25	100	0.539	0.950	0.986	0.114
		250	0.156	0.918	0.935	0.002
		1000	0.000	0.707	0.358	0.000
TRUE	0.00	100	0.620	0.972	0.972	0.150
		250	0.213	0.955	0.873	0.006
		1000	0.000	0.851	0.171	0.000
	0.25	100	0.620	0.972	0.973	0.150
		250	0.213	0.958	0.900	0.006
		1000	0.000	0.870	0.244	0.000

Table 22: Coverage of slope ( $r_{ni} = 0$ )

misspecify	kappa2	n	PI	AwG	TSPAA	TSAPB
FALSE	0.00	100	0.949	0.964	0.934	0.946
		250	0.944	0.968	0.938	0.942
		1000	0.946	0.970	0.944	0.946
	0.25	100	0.950	0.956	0.903	0.942
		250	0.946	0.962	0.915	0.943
		1000	0.949	0.966	0.923	0.941
TRUE	0.00	100	0.948	0.983	0.930	0.943
		250	0.940	0.986	0.942	0.941
		1000	0.949	0.986	0.944	0.948
	0.25	100	0.950	0.972	0.896	0.939
		250	0.944	0.978	0.904	0.938
		1000	0.951	0.978	0.918	0.946

## Mean Slope

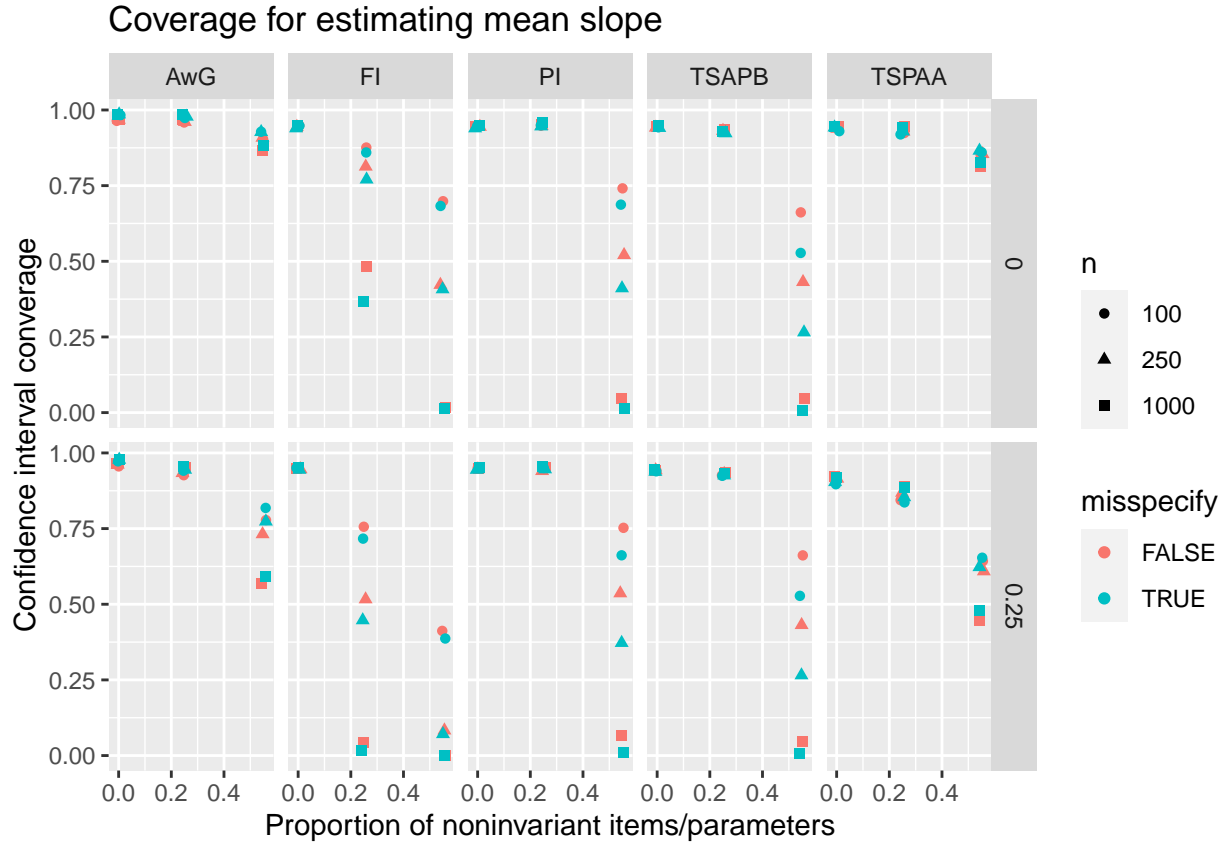




Table 23: Convergence of slope ( $r_{ni} = .25$ )

misspecify	kappa2	n	PI	AwG	TSPAA	TSAPB
FALSE	0.00	100	0.948	0.959	0.924	0.932
		250	0.948	0.961	0.929	0.931
		1000	0.953	0.969	0.944	0.937
	0.25	100	0.946	0.926	0.844	0.926
		250	0.940	0.934	0.868	0.931
		1000	0.952	0.951	0.890	0.935
TRUE	0.00	100	0.950	0.974	0.919	0.930
		250	0.946	0.978	0.929	0.923
		1000	0.957	0.985	0.940	0.930
	0.25	100	0.950	0.941	0.836	0.924
		250	0.946	0.945	0.854	0.926
		1000	0.956	0.956	0.887	0.933

Table 24: Coverage of slope ( $r_{ni} = .55$ )

misspecify	kappa2	n	PI	AwG	TSPAA	TSAPB
FALSE	0.00	100	0.741	0.904	0.851	0.662
		250	0.521	0.908	0.854	0.432
		1000	0.045	0.866	0.813	0.046
	0.25	100	0.752	0.778	0.643	0.662
		250	0.536	0.732	0.609	0.432
		1000	0.067	0.570	0.446	0.046
TRUE	0.00	100	0.687	0.928	0.860	0.528
		250	0.411	0.927	0.866	0.265
		1000	0.015	0.884	0.828	0.006
	0.25	100	0.662	0.818	0.654	0.528
		250	0.372	0.774	0.623	0.265
		1000	0.009	0.593	0.480	0.006

Table 25: Type I error rate (%) of intercept ( $r_{ni} = 0$ )

misspecify	n	PI	AwG	TSPAA	TSAPB
FALSE	100	4.28	3.64	0.04	6.96
TRUE		5.00	2.60	0.04	7.04
FALSE	250	3.64	2.96	0.00	6.80
TRUE		4.36	2.24	0.04	7.16
FALSE	1000	6.28	3.68	0.04	8.64
TRUE		3.88	3.00	0.00	6.76

Table 26: Type I error rate (%) of intercept ( $r_{ni} = .25$ )

misspecify	n	PI	AwG	TSPAA	TSAPB
TRUE	100	4.00	2.32	0.24	7.88
	250	4.44	2.72	0.08	8.28
	1000	6.36	3.92	0.04	9.96
FALSE	100	4.28	3.52	0.12	7.40
	250	3.68	3.36	0.08	7.48
	1000	3.96	3.52	0.00	7.72

## Reevaluate (Compute Rejection Rates)

### Type I Error Rate

Mean Intercept

Mean Slope

Power

Mean Intercept

Mean Slope

Table 27: Type I error rate (%) of intercept ( $r_{ni} = .55$ )

misspecify	n	PI	AwG	TSPAA	TSAPB
TRUE	100	38.00	2.84	2.84	85.00
	250	78.68	4.48	12.72	99.44
	1000	100.00	14.92	82.88	100.00
FALSE	100	46.08	5.36	1.68	88.60
	250	84.40	9.32	7.92	99.80
	1000	100.00	33.52	74.56	100.00

Table 28: Type I error rate (%) of slope ( $r_{ni} = 0$ )

misspecify	n	PI	AwG	TSPAA	TSAPB
FALSE	100	5.12	3.60	6.64	5.44
TRUE		5.20	1.68	7.00	5.72
FALSE	250	5.56	3.20	6.20	5.80
TRUE		6.04	1.44	5.76	5.92
FALSE	1000	5.12	1.36	5.56	5.24
TRUE		5.36	3.00	5.56	5.44

Table 29: Type I error rate (%) of slope ( $r_{ni} = .25$ )

misspecify	n	PI	AwG	TSPAA	TSAPB
TRUE	100	5.00	2.64	8.08	7.00
	250	5.40	2.20	7.08	7.68
	1000	4.28	1.48	5.96	6.96
FALSE	100	5.20	4.12	7.60	6.80
	250	5.24	3.92	7.08	6.88
	1000	4.68	3.12	5.56	6.32

Table 30: Type I error rate (%) of slope ( $r_{ni} = .55$ )

misspecify	n	PI	AwG	TSPAA	TSAPB
TRUE	100	31.28	7.20	13.96	47.24
	250	58.92	7.28	13.44	73.48
	1000	98.52	11.60	17.20	99.44
FALSE	100	25.88	9.60	14.92	33.84
	250	47.92	9.16	14.56	56.84
	1000	95.48	13.36	18.68	95.36

Table 31: Power (%) of intercept ( $r_{ni} = 0$ )

misspecify	n	PI	AwG	TSPAA	TSAPB
FALSE	100	4.24	3.72	0.04	7.20
	250	3.64	2.84	0.00	7.00
	1000	3.96	3.04	0.00	6.84
TRUE	100	4.92	2.84	0.04	7.24
	250	4.32	2.28	0.00	6.80
	1000	6.16	3.84	0.00	7.00

Table 32: Power (%) of intercept ( $r_{ni} = .25$ )

misspecify	n	PI	AwG	TSPAA	TSAPB
FALSE	100	4.40	3.68	0.00	7.64
	250	3.76	3.20	0.04	7.56
	1000	3.96	3.44	0.00	7.88
TRUE	100		2.60	0.08	8.28
	250	4.48	2.64	0.08	8.00
	1000	6.36	3.96	0.08	8.96

Table 33: Power (%) of intercept ( $r_{ni} = .55$ )

misspecify	n	PI	AwG	TSPAA	TSAPB
FALSE	100	46.08	4.96	1.40	88.60
	250	84.40	8.16	6.48	99.80
	1000	100.00	29.32	64.24	100.00
TRUE	100	38.00	2.84	2.72	85.00
	250	78.68	4.16	10.00	99.44
	1000	100.00	13.04	75.60	100.00

Table 34: Power (%) of slope ( $r_{ni} = 0$ )

misspecify	n	PI	AwG	TSPAA	TSAPB
FALSE	100	99.96	99.72	99.88	99.92
	250	100.00	100.00	100.00	100.00
	1000		100.00	100.00	100.00
TRUE	100	99.96	99.36	99.88	99.92
	250	100.00	100.00	100.00	100.00
	1000		100.00	100.00	100.00

Table 35: Power (%) of slope ( $r_{ni} = .25$ )

misspecify	n	PI	AwG	TSPAA	TSAPB
FALSE	100	99.8	99.72	99.84	99.84
	250	100.0	100.00	100.00	100.00
	1000		100.00	100.00	100.00
TRUE	100	99.8	99.32	99.92	99.92
	250	100.0	100.00	100.00	100.00
	1000		100.00	100.00	100.00

Table 36: Power (%) of slope ( $r_{ni} = .55$ )

misspecify	n	PI	AwG	TSPAA	TSAPB
FALSE	100	99.92	99.84	99.92	99.92
	250	100.00	100.00	100.00	100.00
	1000		100.00	100.00	100.00
TRUE	100	99.92	99.56	99.96	99.96
	250	100.00	100.00	100.00	100.00
	1000		100.00	100.00	100.00