

Summary of validation results

March 30, 2022

Introduction and notation

Simulated power intervals. The Monte Carlo simulations produce a 95% confidence interval, and we check whether that interval contains the PUMP estimates. In other words, we check if \hat{p}_{pump} is within $\hat{p}_{sim} \pm 1.96\sqrt{0.25/5000}$.

Simulated power point estimates. We compare the point estimates from the simulations to PUMP. To do so, we calculate the absolute difference between the power estimates from the simulations and from PUMP:

$$b_{sim} = |\hat{p}_{sim} - \hat{p}_{pump}|.$$

PowerUpR power point estimates. We compare the point estimates from the PowerUpR to PUMP. This comparison is only conducted for individual, unadjusted power. Similar to the last metric, we calculate the absolute difference between the power estimates from PowerUpR and from PUMP:

$$b_{pow} = |\hat{p}_{pow} - \hat{p}_{pump}|.$$

PUMP mdes point estimates. We summarize the MDES performance by calculating the absolute difference between the PUMP estimate and the target MDES.

$$b_{mdes} = |\hat{m}_{pump} - \hat{m}_{target}|.$$

Summary of validation coverage results

d_m	MTP	power_type	cover
d2.1_m2fc	BF	D1indiv	1
d2.1_m2fc	BF	indiv.mean	1
d2.1_m2fc	BF	min1	1
d2.1_m2fc	BF	complete	1
d2.1_m2fc	BF	D2indiv	1
d2.1_m2fc	BF	D3indiv	1
d2.1_m2fc	BF	min2	1
d2.1_m2fc	BH	D1indiv	1
d2.1_m2fc	BH	indiv.mean	1
d2.1_m2fc	BH	min1	1
d2.1_m2fc	BH	complete	1
d2.1_m2fc	BH	D2indiv	1
d2.1_m2fc	BH	D3indiv	1
d2.1_m2fc	BH	min2	1
d2.1_m2fc	HO	D1indiv	1
d2.1_m2fc	HO	indiv.mean	1
d2.1_m2fc	HO	min1	1
d2.1_m2fc	HO	complete	1
d2.1_m2fc	HO	D2indiv	1
d2.1_m2fc	HO	D3indiv	1
d2.1_m2fc	HO	min2	1
d2.1_m2fc	None	D1indiv	1
d2.1_m2fc	None	indiv.mean	1
d2.1_m2fc	None	min1	–
d2.1_m2fc	None	complete	–
d2.1_m2fc	None	D2indiv	1
d2.1_m2fc	None	D3indiv	1
d2.1_m2fc	None	min2	–

d_m	MTP	power_type	cover
d2.1_m2ff	BF	D1indiv	1
d2.1_m2ff	BF	indiv.mean	1
d2.1_m2ff	BF	min1	1
d2.1_m2ff	BF	complete	1
d2.1_m2ff	BF	D2indiv	1
d2.1_m2ff	BF	D3indiv	1
d2.1_m2ff	BF	min2	1
d2.1_m2ff	BH	D1indiv	1
d2.1_m2ff	BH	indiv.mean	1
d2.1_m2ff	BH	min1	1
d2.1_m2ff	BH	complete	1
d2.1_m2ff	BH	D2indiv	1
d2.1_m2ff	BH	D3indiv	1
d2.1_m2ff	BH	min2	1
d2.1_m2ff	HO	D1indiv	1
d2.1_m2ff	HO	indiv.mean	1
d2.1_m2ff	HO	min1	1
d2.1_m2ff	HO	complete	1
d2.1_m2ff	HO	D2indiv	1
d2.1_m2ff	HO	D3indiv	1
d2.1_m2ff	HO	min2	1
d2.1_m2ff	None	D1indiv	1
d2.1_m2ff	None	indiv.mean	1
d2.1_m2ff	None	min1	–
d2.1_m2ff	None	complete	–
d2.1_m2ff	None	D2indiv	1
d2.1_m2ff	None	D3indiv	1
d2.1_m2ff	None	min2	–

d_m	MTP	power_type	cover
d2.1_m2fr	BF	D1indiv	0.875
d2.1_m2fr	BF	indiv.mean	0.875
d2.1_m2fr	BF	min1	0.750
d2.1_m2fr	BF	complete	0.875
d2.1_m2fr	BF	D2indiv	0.875
d2.1_m2fr	BF	D3indiv	0.875
d2.1_m2fr	BF	min2	0.750
d2.1_m2fr	BH	D1indiv	0.750
d2.1_m2fr	BH	indiv.mean	0.750
d2.1_m2fr	BH	min1	0.750
d2.1_m2fr	BH	complete	1.000
d2.1_m2fr	BH	D2indiv	0.875
d2.1_m2fr	BH	D3indiv	0.750
d2.1_m2fr	BH	min2	0.750
d2.1_m2fr	HO	D1indiv	0.750
d2.1_m2fr	HO	indiv.mean	0.750
d2.1_m2fr	HO	min1	0.750
d2.1_m2fr	HO	complete	1.000
d2.1_m2fr	HO	D2indiv	0.875
d2.1_m2fr	HO	D3indiv	0.750
d2.1_m2fr	HO	min2	0.750
d2.1_m2fr	None	D1indiv	0.750
d2.1_m2fr	None	indiv.mean	0.750
d2.1_m2fr	None	min1	–
d2.1_m2fr	None	complete	–
d2.1_m2fr	None	D2indiv	0.875
d2.1_m2fr	None	D3indiv	0.750
d2.1_m2fr	None	min2	–

d_m	MTP	power_type	cover
d2.2_m2rc	BF	D1indiv	1
d2.2_m2rc	BF	indiv.mean	1
d2.2_m2rc	BF	min1	1
d2.2_m2rc	BF	complete	—
d2.2_m2rc	BF	D2indiv	1
d2.2_m2rc	BF	D3indiv	1
d2.2_m2rc	BF	min2	1
d2.2_m2rc	BH	D1indiv	1
d2.2_m2rc	BH	indiv.mean	1
d2.2_m2rc	BH	min1	1
d2.2_m2rc	BH	complete	—
d2.2_m2rc	BH	D2indiv	1
d2.2_m2rc	BH	D3indiv	1
d2.2_m2rc	BH	min2	1
d2.2_m2rc	HO	D1indiv	1
d2.2_m2rc	HO	indiv.mean	1
d2.2_m2rc	HO	min1	1
d2.2_m2rc	HO	complete	—
d2.2_m2rc	HO	D2indiv	1
d2.2_m2rc	HO	D3indiv	1
d2.2_m2rc	HO	min2	1
d2.2_m2rc	None	D1indiv	1
d2.2_m2rc	None	indiv.mean	1
d2.2_m2rc	None	min1	—
d2.2_m2rc	None	complete	—
d2.2_m2rc	None	D2indiv	1
d2.2_m2rc	None	D3indiv	1
d2.2_m2rc	None	min2	—

d_m	MTP	power_type	cover
d3.1_m3rr2rr	BF	D1indiv	1
d3.1_m3rr2rr	BF	indiv.mean	1
d3.1_m3rr2rr	BF	min1	1
d3.1_m3rr2rr	BF	complete	–
d3.1_m3rr2rr	BF	D2indiv	1
d3.1_m3rr2rr	BF	D3indiv	1
d3.1_m3rr2rr	BF	min2	1
d3.1_m3rr2rr	BH	D1indiv	1
d3.1_m3rr2rr	BH	indiv.mean	1
d3.1_m3rr2rr	BH	min1	1
d3.1_m3rr2rr	BH	complete	–
d3.1_m3rr2rr	BH	D2indiv	1
d3.1_m3rr2rr	BH	D3indiv	1
d3.1_m3rr2rr	BH	min2	1
d3.1_m3rr2rr	HO	D1indiv	1
d3.1_m3rr2rr	HO	indiv.mean	1
d3.1_m3rr2rr	HO	min1	1
d3.1_m3rr2rr	HO	complete	–
d3.1_m3rr2rr	HO	D2indiv	1
d3.1_m3rr2rr	HO	D3indiv	1
d3.1_m3rr2rr	HO	min2	1
d3.1_m3rr2rr	None	D1indiv	1
d3.1_m3rr2rr	None	indiv.mean	1
d3.1_m3rr2rr	None	min1	–
d3.1_m3rr2rr	None	complete	–
d3.1_m3rr2rr	None	D2indiv	1
d3.1_m3rr2rr	None	D3indiv	1
d3.1_m3rr2rr	None	min2	–

d_m	MTP	power_type	cover
d3.2_m3ff2rc	BF	D1indiv	1
d3.2_m3ff2rc	BF	indiv.mean	1
d3.2_m3ff2rc	BF	min1	1
d3.2_m3ff2rc	BF	complete	–
d3.2_m3ff2rc	BF	D2indiv	1
d3.2_m3ff2rc	BF	D3indiv	1
d3.2_m3ff2rc	BF	min2	1
d3.2_m3ff2rc	BH	D1indiv	1
d3.2_m3ff2rc	BH	indiv.mean	1
d3.2_m3ff2rc	BH	min1	1
d3.2_m3ff2rc	BH	complete	–
d3.2_m3ff2rc	BH	D2indiv	1
d3.2_m3ff2rc	BH	D3indiv	1
d3.2_m3ff2rc	BH	min2	1
d3.2_m3ff2rc	HO	D1indiv	1
d3.2_m3ff2rc	HO	indiv.mean	1
d3.2_m3ff2rc	HO	min1	1
d3.2_m3ff2rc	HO	complete	–
d3.2_m3ff2rc	HO	D2indiv	1
d3.2_m3ff2rc	HO	D3indiv	1
d3.2_m3ff2rc	HO	min2	1
d3.2_m3ff2rc	None	D1indiv	1
d3.2_m3ff2rc	None	indiv.mean	1
d3.2_m3ff2rc	None	min1	–
d3.2_m3ff2rc	None	complete	–
d3.2_m3ff2rc	None	D2indiv	1
d3.2_m3ff2rc	None	D3indiv	1
d3.2_m3ff2rc	None	min2	–

d_m	MTP	power_type	cover
d3.2_m3rr2rc	BF	D1indiv	0.846
d3.2_m3rr2rc	BF	indiv.mean	0.846
d3.2_m3rr2rc	BF	min1	0.692
d3.2_m3rr2rc	BF	complete	0.846
d3.2_m3rr2rc	BF	D2indiv	0.846
d3.2_m3rr2rc	BF	D3indiv	0.846
d3.2_m3rr2rc	BF	min2	0.846
d3.2_m3rr2rc	BH	D1indiv	0.846
d3.2_m3rr2rc	BH	indiv.mean	0.846
d3.2_m3rr2rc	BH	min1	0.769
d3.2_m3rr2rc	BH	complete	0.846
d3.2_m3rr2rc	BH	D2indiv	0.846
d3.2_m3rr2rc	BH	D3indiv	0.846
d3.2_m3rr2rc	BH	min2	0.846
d3.2_m3rr2rc	HO	D1indiv	0.846
d3.2_m3rr2rc	HO	indiv.mean	0.846
d3.2_m3rr2rc	HO	min1	0.615
d3.2_m3rr2rc	HO	complete	0.846
d3.2_m3rr2rc	HO	D2indiv	0.846
d3.2_m3rr2rc	HO	D3indiv	0.846
d3.2_m3rr2rc	HO	min2	0.846
d3.2_m3rr2rc	None	D1indiv	0.846
d3.2_m3rr2rc	None	indiv.mean	0.846
d3.2_m3rr2rc	None	min1	–
d3.2_m3rr2rc	None	complete	–
d3.2_m3rr2rc	None	D2indiv	0.846
d3.2_m3rr2rc	None	D3indiv	0.846
d3.2_m3rr2rc	None	min2	–

d_m	MTP	power_type	cover
d3.3_m3rc2rc	BF	D1indiv	1
d3.3_m3rc2rc	BF	indiv.mean	1
d3.3_m3rc2rc	BF	min1	1
d3.3_m3rc2rc	BF	complete	–
d3.3_m3rc2rc	BF	D2indiv	1
d3.3_m3rc2rc	BF	D3indiv	1
d3.3_m3rc2rc	BF	min2	1
d3.3_m3rc2rc	BH	D1indiv	1
d3.3_m3rc2rc	BH	indiv.mean	1
d3.3_m3rc2rc	BH	min1	1
d3.3_m3rc2rc	BH	complete	–
d3.3_m3rc2rc	BH	D2indiv	1
d3.3_m3rc2rc	BH	D3indiv	1
d3.3_m3rc2rc	BH	min2	1
d3.3_m3rc2rc	HO	D1indiv	1
d3.3_m3rc2rc	HO	indiv.mean	1
d3.3_m3rc2rc	HO	min1	1
d3.3_m3rc2rc	HO	complete	–
d3.3_m3rc2rc	HO	D2indiv	1
d3.3_m3rc2rc	HO	D3indiv	1
d3.3_m3rc2rc	HO	min2	1
d3.3_m3rc2rc	None	D1indiv	1
d3.3_m3rc2rc	None	indiv.mean	1
d3.3_m3rc2rc	None	min1	–
d3.3_m3rc2rc	None	complete	–
d3.3_m3rc2rc	None	D2indiv	1
d3.3_m3rc2rc	None	D3indiv	1
d3.3_m3rc2rc	None	min2	–

Coverage discrepancies

We summarize below the scenarios where the simulation intervals do not cover the PUMP value. For brevity, we only display results for Bonferroni adjustments, because

d_m	MTP	type	omega.2	omega.3	ICC.2	ICC.3	pump	pow	sim	low	up
d2.1_m2fr	BF	D1indiv	0.0	–	0.2	–	0.382	–	0.315	0.253	0.377
d2.1_m2fr	BF	D2indiv	0.0	–	0.2	–	0.382	–	0.311	0.249	0.373
d2.1_m2fr	BF	D3indiv	0.0	–	0.2	–	0.387	–	0.309	0.247	0.371
d2.1_m2fr	BF	indiv.mean	0.0	–	0.2	–	0.384	–	0.312	0.250	0.374
d2.1_m2fr	BF	min1	0.0	–	0.2	–	0.633	–	0.547	0.485	0.609
d2.1_m2fr	BF	min2	0.0	–	0.2	–	0.364	–	0.281	0.219	0.343
d2.1_m2fr	BF	complete	0.0	–	0.2	–	0.340	–	0.276	0.214	0.338
d2.1_m2fr	BF	min1	0.1	–	0.0	–	0.515	–	0.438	0.376	0.500
d2.1_m2fr	BF	min2	0.1	–	0.0	–	0.258	–	0.196	0.134	0.258

d_m	MTP	type	omega.2	omega.3	ICC.2	ICC.3	pump	pow	sim	low	up
d3.2_m3rr2rc	BF	D1indiv	–	0.0	0.2	0.2	0.321	–	0.244	0.182	0.306
d3.2_m3rr2rc	BF	D2indiv	–	0.0	0.2	0.2	0.327	–	0.247	0.185	0.309
d3.2_m3rr2rc	BF	D3indiv	–	0.0	0.2	0.2	0.328	–	0.250	0.188	0.312
d3.2_m3rr2rc	BF	indiv.mean	–	0.0	0.2	0.2	0.325	–	0.247	0.185	0.309
d3.2_m3rr2rc	BF	min1	–	0.0	0.2	0.2	0.556	–	0.469	0.407	0.531
d3.2_m3rr2rc	BF	min2	–	0.0	0.2	0.2	0.302	–	0.208	0.146	0.270
d3.2_m3rr2rc	BF	complete	–	0.0	0.2	0.2	0.328	–	0.235	0.173	0.297
d3.2_m3rr2rc	BF	min1	–	0.1	0.0	0.2	0.654	–	0.728	0.666	0.790
d3.2_m3rr2rc	BF	D1indiv	–	0.1	0.2	0.0	0.322	–	0.233	0.171	0.295
d3.2_m3rr2rc	BF	D2indiv	–	0.1	0.2	0.0	0.317	–	0.246	0.184	0.308
d3.2_m3rr2rc	BF	D3indiv	–	0.1	0.2	0.0	0.319	–	0.240	0.178	0.302
d3.2_m3rr2rc	BF	indiv.mean	–	0.1	0.2	0.0	0.319	–	0.239	0.177	0.301
d3.2_m3rr2rc	BF	min1	–	0.1	0.2	0.0	0.558	–	0.448	0.386	0.510
d3.2_m3rr2rc	BF	min2	–	0.1	0.2	0.0	0.289	–	0.206	0.144	0.268
d3.2_m3rr2rc	BF	complete	–	0.1	0.2	0.0	0.318	–	0.233	0.171	0.295
d3.2_m3rr2rc	BF	min1	–	0.1	0.2	0.2	0.450	–	0.540	0.478	0.602

Summary of validation “bias” results

d_m	MTP	power_type	mean.b.sim	mean.b.pow
d2.1_m2fc	BF	D1indiv	0.007	—
d2.1_m2fc	BF	indiv.mean	0.004	—
d2.1_m2fc	BF	min1	0.005	—
d2.1_m2fc	BF	complete	0.006	—
d2.1_m2fc	BF	D2indiv	0.006	—
d2.1_m2fc	BF	D3indiv	0.005	—
d2.1_m2fc	BF	min2	0.004	—
d2.1_m2fc	BH	D1indiv	0.004	—
d2.1_m2fc	BH	indiv.mean	0.006	—
d2.1_m2fc	BH	min1	0.006	—
d2.1_m2fc	BH	complete	0.007	—
d2.1_m2fc	BH	D2indiv	0.005	—
d2.1_m2fc	BH	D3indiv	0.007	—
d2.1_m2fc	BH	min2	0.005	—
d2.1_m2fc	HO	D1indiv	0.005	—
d2.1_m2fc	HO	indiv.mean	0.006	—
d2.1_m2fc	HO	min1	0.005	—
d2.1_m2fc	HO	complete	0.008	—
d2.1_m2fc	HO	D2indiv	0.005	—
d2.1_m2fc	HO	D3indiv	0.008	—
d2.1_m2fc	HO	min2	0.006	—
d2.1_m2fc	None	D1indiv	0.006	0.002
d2.1_m2fc	None	indiv.mean	0.005	—
d2.1_m2fc	None	D2indiv	0.006	—
d2.1_m2fc	None	D3indiv	0.006	—

d_m	MTP	power_type	mean.b.sim	mean.b.pow
d2.1_m2ff	BF	D1indiv	0.009	—
d2.1_m2ff	BF	indiv.mean	0.007	—
d2.1_m2ff	BF	min1	0.008	—
d2.1_m2ff	BF	complete	0.004	—
d2.1_m2ff	BF	D2indiv	0.009	—
d2.1_m2ff	BF	D3indiv	0.006	—
d2.1_m2ff	BF	min2	0.009	—
d2.1_m2ff	BH	D1indiv	0.006	—
d2.1_m2ff	BH	indiv.mean	0.005	—
d2.1_m2ff	BH	min1	0.007	—
d2.1_m2ff	BH	complete	0.004	—
d2.1_m2ff	BH	D2indiv	0.008	—
d2.1_m2ff	BH	D3indiv	0.007	—
d2.1_m2ff	BH	min2	0.005	—
d2.1_m2ff	HO	D1indiv	0.006	—
d2.1_m2ff	HO	indiv.mean	0.005	—
d2.1_m2ff	HO	min1	0.010	—
d2.1_m2ff	HO	complete	0.006	—
d2.1_m2ff	HO	D2indiv	0.006	—
d2.1_m2ff	HO	D3indiv	0.004	—
d2.1_m2ff	HO	min2	0.005	—
d2.1_m2ff	None	D1indiv	0.010	0.002
d2.1_m2ff	None	indiv.mean	0.010	—
d2.1_m2ff	None	D2indiv	0.010	—
d2.1_m2ff	None	D3indiv	0.004	—

d_m	MTP	power_type	mean.b.sim	mean.b.pow
d2.1_m2fr	BF	D1indiv	0.020	—
d2.1_m2fr	BF	indiv.mean	0.019	—
d2.1_m2fr	BF	min1	0.024	—
d2.1_m2fr	BF	complete	0.013	—
d2.1_m2fr	BF	D2indiv	0.022	—
d2.1_m2fr	BF	D3indiv	0.017	—
d2.1_m2fr	BF	min2	0.015	—
d2.1_m2fr	BH	D1indiv	0.011	—
d2.1_m2fr	BH	indiv.mean	0.011	—
d2.1_m2fr	BH	min1	0.016	—
d2.1_m2fr	BH	complete	0.020	—
d2.1_m2fr	BH	D2indiv	0.019	—
d2.1_m2fr	BH	D3indiv	0.012	—
d2.1_m2fr	BH	min2	0.010	—
d2.1_m2fr	HO	D1indiv	0.014	—
d2.1_m2fr	HO	indiv.mean	0.013	—
d2.1_m2fr	HO	min1	0.022	—
d2.1_m2fr	HO	complete	0.019	—
d2.1_m2fr	HO	D2indiv	0.022	—
d2.1_m2fr	HO	D3indiv	0.012	—
d2.1_m2fr	HO	min2	0.014	—
d2.1_m2fr	None	D1indiv	0.013	0.013
d2.1_m2fr	None	indiv.mean	0.011	—
d2.1_m2fr	None	D2indiv	0.021	—
d2.1_m2fr	None	D3indiv	0.010	—

d_m	MTP	power_type	mean.b.sim	mean.b.pow
d2.2_m2rc	BF	D1indiv	0.009	—
d2.2_m2rc	BF	indiv.mean	0.007	—
d2.2_m2rc	BF	min1	0.011	—
d2.2_m2rc	BF	complete	0.006	—
d2.2_m2rc	BF	D2indiv	0.006	—
d2.2_m2rc	BF	D3indiv	0.009	—
d2.2_m2rc	BF	min2	0.005	—
d2.2_m2rc	BH	D1indiv	0.007	—
d2.2_m2rc	BH	indiv.mean	0.007	—
d2.2_m2rc	BH	min1	0.009	—
d2.2_m2rc	BH	complete	0.008	—
d2.2_m2rc	BH	D2indiv	0.007	—
d2.2_m2rc	BH	D3indiv	0.007	—
d2.2_m2rc	BH	min2	0.006	—
d2.2_m2rc	HO	D1indiv	0.008	—
d2.2_m2rc	HO	indiv.mean	0.007	—
d2.2_m2rc	HO	min1	0.010	—
d2.2_m2rc	HO	complete	0.007	—
d2.2_m2rc	HO	D2indiv	0.007	—
d2.2_m2rc	HO	D3indiv	0.008	—
d2.2_m2rc	HO	min2	0.006	—
d2.2_m2rc	None	D1indiv	0.009	0.006
d2.2_m2rc	None	indiv.mean	0.006	—
d2.2_m2rc	None	D2indiv	0.006	—
d2.2_m2rc	None	D3indiv	0.008	—

d_m	MTP	power_type	mean.b.sim	mean.b.pow
d3.1_m3rr2rr	BF	D1indiv	0.008	—
d3.1_m3rr2rr	BF	indiv.mean	0.008	—
d3.1_m3rr2rr	BF	min1	0.013	—
d3.1_m3rr2rr	BF	complete	0.008	—
d3.1_m3rr2rr	BF	D2indiv	0.008	—
d3.1_m3rr2rr	BF	D3indiv	0.008	—
d3.1_m3rr2rr	BF	min2	0.006	—
d3.1_m3rr2rr	BH	D1indiv	0.007	—
d3.1_m3rr2rr	BH	indiv.mean	0.006	—
d3.1_m3rr2rr	BH	min1	0.011	—
d3.1_m3rr2rr	BH	complete	0.009	—
d3.1_m3rr2rr	BH	D2indiv	0.008	—
d3.1_m3rr2rr	BH	D3indiv	0.007	—
d3.1_m3rr2rr	BH	min2	0.005	—
d3.1_m3rr2rr	HO	D1indiv	0.007	—
d3.1_m3rr2rr	HO	indiv.mean	0.007	—
d3.1_m3rr2rr	HO	min1	0.013	—
d3.1_m3rr2rr	HO	complete	0.008	—
d3.1_m3rr2rr	HO	D2indiv	0.007	—
d3.1_m3rr2rr	HO	D3indiv	0.008	—
d3.1_m3rr2rr	HO	min2	0.006	—
d3.1_m3rr2rr	None	D1indiv	0.006	0.006
d3.1_m3rr2rr	None	indiv.mean	0.006	—
d3.1_m3rr2rr	None	D2indiv	0.004	—
d3.1_m3rr2rr	None	D3indiv	0.006	—

d_m	MTP	power_type	mean.b.sim	mean.b.pow
d3.2_m3ff2rc	BF	D1indiv	0.004	—
d3.2_m3ff2rc	BF	indiv.mean	0.004	—
d3.2_m3ff2rc	BF	min1	0.006	—
d3.2_m3ff2rc	BF	complete	0.005	—
d3.2_m3ff2rc	BF	D2indiv	0.006	—
d3.2_m3ff2rc	BF	D3indiv	0.004	—
d3.2_m3ff2rc	BF	min2	0.005	—
d3.2_m3ff2rc	BH	D1indiv	0.003	—
d3.2_m3ff2rc	BH	indiv.mean	0.003	—
d3.2_m3ff2rc	BH	min1	0.004	—
d3.2_m3ff2rc	BH	complete	0.004	—
d3.2_m3ff2rc	BH	D2indiv	0.006	—
d3.2_m3ff2rc	BH	D3indiv	0.003	—
d3.2_m3ff2rc	BH	min2	0.004	—
d3.2_m3ff2rc	HO	D1indiv	0.004	—
d3.2_m3ff2rc	HO	indiv.mean	0.004	—
d3.2_m3ff2rc	HO	min1	0.004	—
d3.2_m3ff2rc	HO	complete	0.005	—
d3.2_m3ff2rc	HO	D2indiv	0.005	—
d3.2_m3ff2rc	HO	D3indiv	0.006	—
d3.2_m3ff2rc	HO	min2	0.005	—
d3.2_m3ff2rc	None	D1indiv	0.005	0.008
d3.2_m3ff2rc	None	indiv.mean	0.005	—
d3.2_m3ff2rc	None	D2indiv	0.006	—
d3.2_m3ff2rc	None	D3indiv	0.005	—

d_m	MTP	power_type	mean.b.sim	mean.b.pow
d3.2_m3rr2rc	BF	D1indiv	0.022	—
d3.2_m3rr2rc	BF	indiv.mean	0.022	—
d3.2_m3rr2rc	BF	min1	0.039	—
d3.2_m3rr2rc	BF	complete	0.006	—
d3.2_m3rr2rc	BF	D2indiv	0.021	—
d3.2_m3rr2rc	BF	D3indiv	0.023	—
d3.2_m3rr2rc	BF	min2	0.018	—
d3.2_m3rr2rc	BH	D1indiv	0.018	—
d3.2_m3rr2rc	BH	indiv.mean	0.017	—
d3.2_m3rr2rc	BH	min1	0.036	—
d3.2_m3rr2rc	BH	complete	0.007	—
d3.2_m3rr2rc	BH	D2indiv	0.018	—
d3.2_m3rr2rc	BH	D3indiv	0.017	—
d3.2_m3rr2rc	BH	min2	0.013	—
d3.2_m3rr2rc	HO	D1indiv	0.025	—
d3.2_m3rr2rc	HO	indiv.mean	0.024	—
d3.2_m3rr2rc	HO	min1	0.037	—
d3.2_m3rr2rc	HO	complete	0.006	—
d3.2_m3rr2rc	HO	D2indiv	0.024	—
d3.2_m3rr2rc	HO	D3indiv	0.023	—
d3.2_m3rr2rc	HO	min2	0.018	—
d3.2_m3rr2rc	None	D1indiv	0.015	0.02
d3.2_m3rr2rc	None	indiv.mean	0.012	—
d3.2_m3rr2rc	None	D2indiv	0.013	—
d3.2_m3rr2rc	None	D3indiv	0.011	—

d_m	MTP	power_type	mean.b.sim	mean.b.pow
d3.3_m3rc2rc	BF	D1indiv	0.011	—
d3.3_m3rc2rc	BF	indiv.mean	0.011	—
d3.3_m3rc2rc	BF	min1	0.025	—
d3.3_m3rc2rc	BF	complete	0.014	—
d3.3_m3rc2rc	BF	D2indiv	0.011	—
d3.3_m3rc2rc	BF	D3indiv	0.012	—
d3.3_m3rc2rc	BF	min2	0.007	—
d3.3_m3rc2rc	BH	D1indiv	0.006	—
d3.3_m3rc2rc	BH	indiv.mean	0.005	—
d3.3_m3rc2rc	BH	min1	0.019	—
d3.3_m3rc2rc	BH	complete	0.013	—
d3.3_m3rc2rc	BH	D2indiv	0.007	—
d3.3_m3rc2rc	BH	D3indiv	0.005	—
d3.3_m3rc2rc	BH	min2	0.006	—
d3.3_m3rc2rc	HO	D1indiv	0.009	—
d3.3_m3rc2rc	HO	indiv.mean	0.009	—
d3.3_m3rc2rc	HO	min1	0.025	—
d3.3_m3rc2rc	HO	complete	0.013	—
d3.3_m3rc2rc	HO	D2indiv	0.010	—
d3.3_m3rc2rc	HO	D3indiv	0.008	—
d3.3_m3rc2rc	HO	min2	0.005	—
d3.3_m3rc2rc	None	D1indiv	0.007	0.011
d3.3_m3rc2rc	None	indiv.mean	0.006	—
d3.3_m3rc2rc	None	D2indiv	0.007	—
d3.3_m3rc2rc	None	D3indiv	0.007	—

Collapsed Summaries

d_m	mean.b.sim	max.b.sim	mean.b.pow
d2.1_m2fc	0.006	0.008	0.002
d2.1_m2ff	0.007	0.010	0.002
d2.1_m2fr	0.016	0.024	0.013
d2.2_m2rc	0.007	0.011	0.006
d3.1_m3rr2rr	0.008	0.013	0.006
d3.2_m3ff2rc	0.005	0.006	0.008
d3.2_m3rr2rc	0.019	0.039	0.020
d3.3_m3rc2rc	0.010	0.025	0.011

WY Summary

d_m	MTP	mean.b.sim	max.b.sim
d2.1_m2fc	WY-SD	0.003	0.004
d2.1_m2fc	WY-SS	0.004	0.005
d2.1_m2ff	WY-SD	0.031	0.046
d2.1_m2ff	WY-SS	0.022	0.033
d2.1_m2fr	WY-SD	0.020	0.035
d2.1_m2fr	WY-SS	0.025	0.051
d2.2_m2rc	WY-SD	0.006	0.021
d2.2_m2rc	WY-SS	0.011	0.023
d3.1_m3rr2rr	WY-SD	0.025	0.035
d3.1_m3rr2rr	WY-SS	0.039	0.058
d3.2_m3ff2rc	WY-SS	0.038	0.057
d3.2_m3rr2rc	WY-SS	0.144	0.176
d3.3_m3rc2rc	WY-SS	0.017	0.032

MDES summary

MTP	Adjusted MDES	D1indiv Power	Target MDES	d_m	S	M	MDES	numZero	J	K	n
BF	0.125	0.475	0.125	d2.1_m2fc	5000	3	0.125	0	20	1	
BH	0.124	0.557	0.125	d2.1_m2fc	5000	3	0.125	0	20	1	
HO	0.126	0.552	0.125	d2.1_m2fc	5000	3	0.125	0	20	1	
BF	0.125	0.473	0.125	d2.1_m2ff	5000	3	0.125	0	20	1	
BH	0.125	0.567	0.125	d2.1_m2ff	5000	3	0.125	0	20	1	
HO	0.126	0.555	0.125	d2.1_m2ff	5000	3	0.125	0	20	1	
BF	0.125	0.266	0.125	d2.1_m2fr	5000	3	0.125	0	20	1	
BH	0.125	0.351	0.125	d2.1_m2fr	5000	3	0.125	0	20	1	
HO	0.124	0.318	0.125	d2.1_m2fr	5000	3	0.125	0	20	1	
BF	0.125	0.164	0.125	d2.2_m2rc	5000	3	0.125	0	60	1	
BH	0.125	0.209	0.125	d2.2_m2rc	5000	3	0.125	0	60	1	
HO	0.121	0.183	0.125	d2.2_m2rc	5000	3	0.125	0	60	1	
BF	0.125	0.721	0.125	d3.1_m3rr2rr	5000	3	0.125	0	30	15	
BH	0.127	0.842	0.125	d3.1_m3rr2rr	5000	3	0.125	0	30	15	
HO	0.125	0.810	0.125	d3.1_m3rr2rr	5000	3	0.125	0	30	15	
BF	0.124	0.522	0.125	d3.2_m3ff2rc	5000	3	0.125	0	30	10	
BH	0.125	0.624	0.125	d3.2_m3ff2rc	5000	3	0.125	0	30	10	
HO	0.126	0.610	0.125	d3.2_m3ff2rc	5000	3	0.125	0	30	10	
BF	0.125	0.155	0.125	d3.2_m3rr2rc	5000	3	0.125	0	30	10	
BH	0.125	0.222	0.125	d3.2_m3rr2rc	5000	3	0.125	0	30	10	
HO	0.127	0.199	0.125	d3.2_m3rr2rc	5000	3	0.125	0	30	10	
BF	0.249	0.211	0.250	d3.3_m3rc2rc	5000	3	0.250	0	40	20	
BH	0.251	0.284	0.250	d3.3_m3rc2rc	5000	3	0.250	0	40	20	
HO	0.247	0.250	0.250	d3.3_m3rc2rc	5000	3	0.250	0	40	20	

d_m	mean.b.mdes
d2.1_m2fc	0.007
d2.1_m2ff	0.004
d2.1_m2fr	0.004
d2.2_m2rc	0.012
d3.1_m3rr2rr	0.005
d3.2_m3ff2rc	0.004
d3.2_m3rr2rc	0.006
d3.3_m3rc2rc	0.006