Synthetic Data Simulation Results

2023-12-04

Simulation Summary

LTMLE generated quite a few errors, reducing results given available time. Below are counts of completed runs and runs with errors for each simulation setting.

data	estimator	learners	completed_10@m	pleted_100 00 m	pleted_1e+@5	or_1000 err	or_10000eri	or_1e+05
MC	DGP	NA	0	0	0	4	0	0
MC	DGP	glm_true	45	21	11	0	0	0
MC	DGP	glmnet	18	0	0	0	0	0
MC	Marginal	MC	49	21	11	0	0	0
Synthetic	Marginal	glm_true	928	420	220	0	0	0
Synthetic	Marginal	glmnet	409	0	0	0	0	0

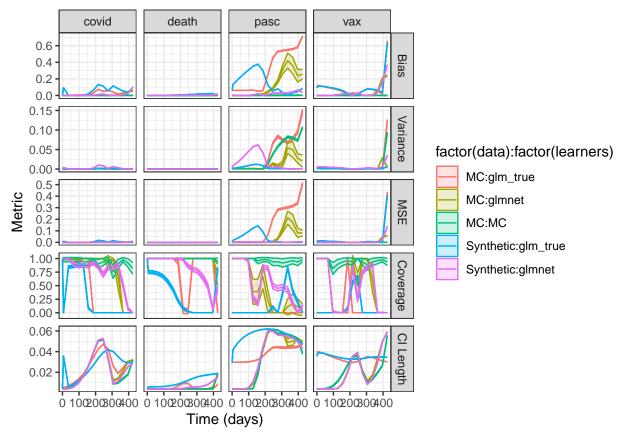
ignore the error counts here (they're for sims we don't expect)

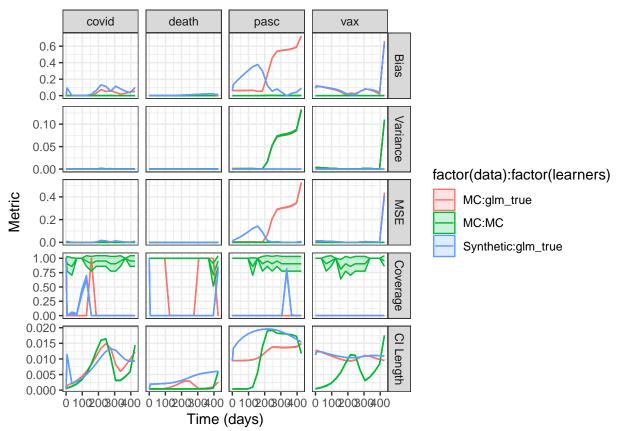
data	estimator	learners	1000	10000	1e+05
MC MC MC Synthetic Synthetic	DGP DGP Marginal Marginal	glm_true glmnet MC glm_true glmnet	00:00:32 00:04:09 00:00:03 00:00:01 00:00:02	00:02:09 NA 00:00:16 00:00:02 NA	00:18:55 NA 00:02:13 00:00:14 NA

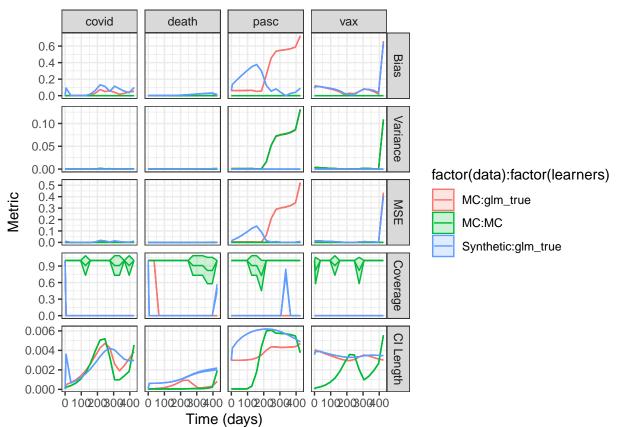
Point Estimate Performance

Point estimate performance was degraded, improving somewhat at larger sample sizes. This suggests a need for estimation with more data adaptive models.









Bias

