Step	-

	Quality = 5	Quality = 4	Quality = 3	Quality = 2	Quality = 1	Quality = 0
σ_q^2 1. round	0.00001	0.001	0.002	0.003	0.004	0.005
σ_q^2 2. round	0.00002	0.002	0.004	0.006	0.008	0.010
σ_q^2 3. round	0.00003	0.003	0.006	0.009	0.012	0.015
σ_q^2 4. round						

 σ_q^2 is increasing with each round

 σ_q^2 is increasing with decreasing data quality

Step 2 Add random draws from ${\mathcal N}$ with mean 0 and the respective σ_q^2 as standard variation to the Top 10%-share variable

Step 3 Run Model (1) with different Top 10%-share variables per round (10 x)

 $lm(PM_{2.5} ~ top10 + controls, data = data_me)$

Simulate (nsim = 1000) approximated sampling distributions of Top 10%-share coefficients with \mathcal{N} (mean = top10_est, sd = top10_se)

Step 5 Get point estimates and CIs (mean and 2.5% and 97.5% percentiles of the sampling distributions)