

Supporting information

Optimizing exposure measures in large-scale household air pollution studies: results from the multi-country HAPIN trial.

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Table 1. Child PM2.5 data imputing missing PM2.5 using mothers' PM2.5

Ln(PM2.5), n=1211**							
			coeff	std err	T value	P=value	ICC
Intercept			3.246	0.079	40.1	<.0001	0.40
country	Guatemala		0.070	0.097	0.73	0.45	
country	India		0.105	0.096	1.09	0.28	
country	Peru		-0.654	0.096	-6.83	<0.0001	
country	Rwanda		0				
supplemental			0.048	0.047	1.02	0.31	
s6_arm	Control	1	0.759	0.064	11.86	<.0001	
s6_arm	Intervention	0	0	.	.	.	
winter			0.135	0.055	2.45	0.01	
weekend			-0.138	0.142	-0.97	0.33	

*Log-transformed pollutants were regressed on an indicator variable for supplemental vs protocol samples and on study arm, study site, winter vs no winter, and weekend vs not weekend. Model ICC was 0.18.

** Number of valid measurements for the children who had both protocol and supplemental measurements.

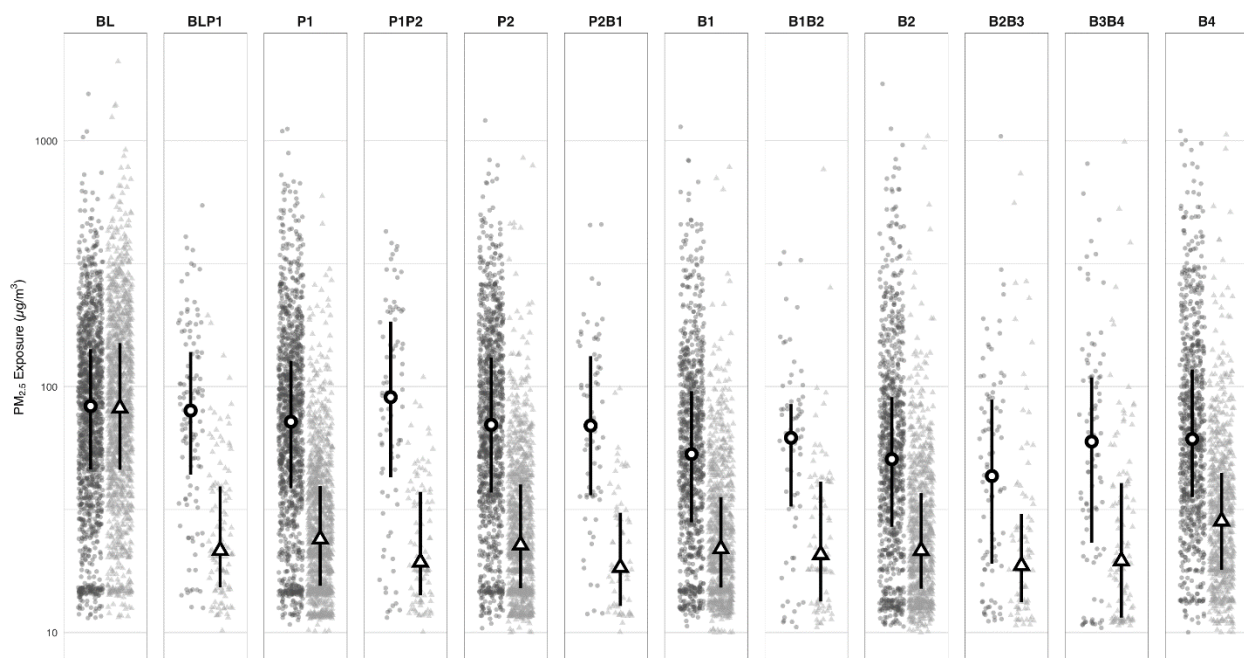


Figure 1. PM_{2.5} exposure of mothers over 16-month period, including supplemental sampling. Panels are in order from first (baseline) sample till the last sample at the end of the first year of the child. BL to P2 are during pregnancy, and B1 to B4 are during the first year of the infants' life. BLP1, P1P2, P2B1, B1B2, B2B3, and B3B4 are supplemental samples taken between the protocol samples. In each panel the shaded dots on the left are the control arm, while those on the right are the intervention arm.

Figure 2. QQ plot for PM2.5, mothers

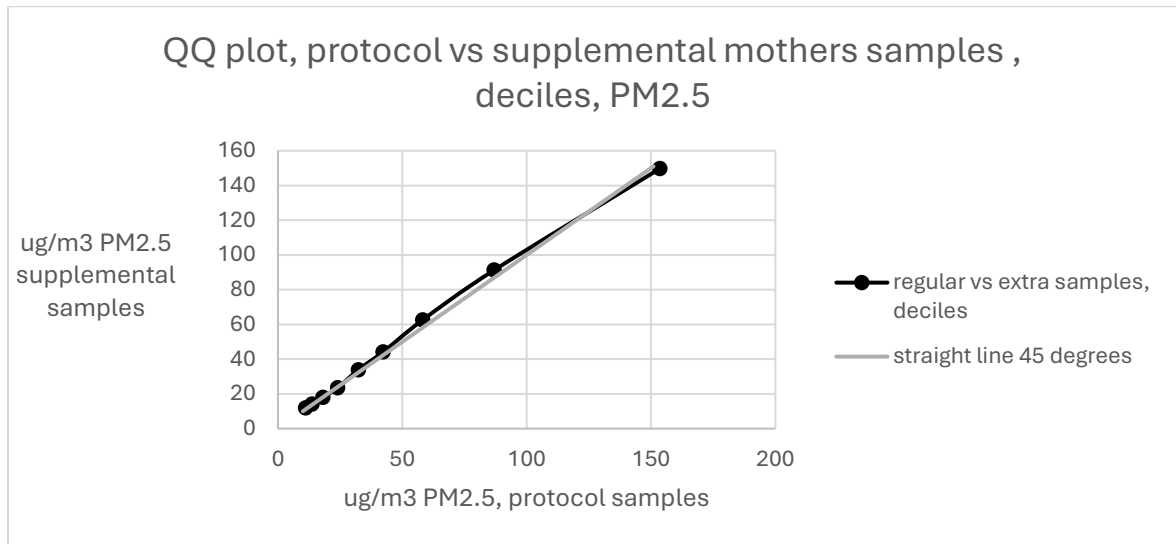


Figure 3. QQ plot for PM2.5, infants

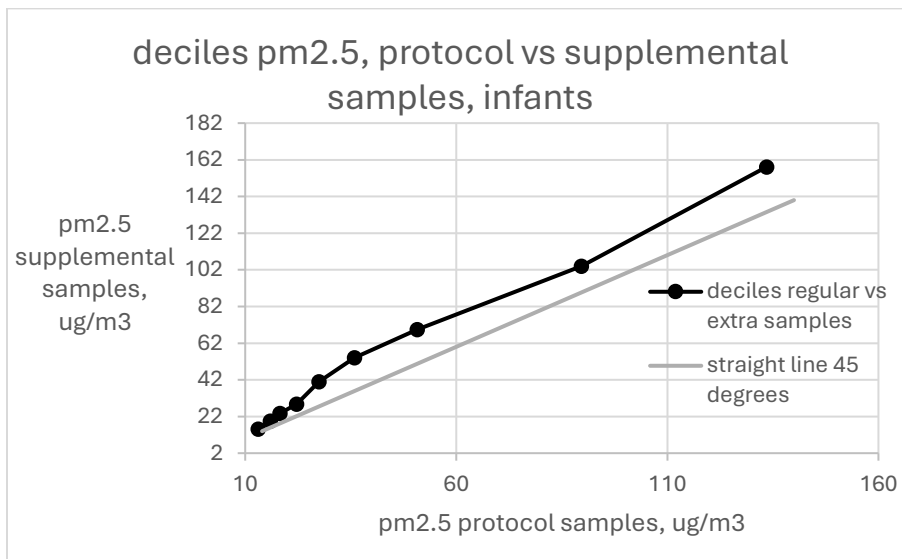


Figure 4. QQ plot for ln(PM2.5), infants

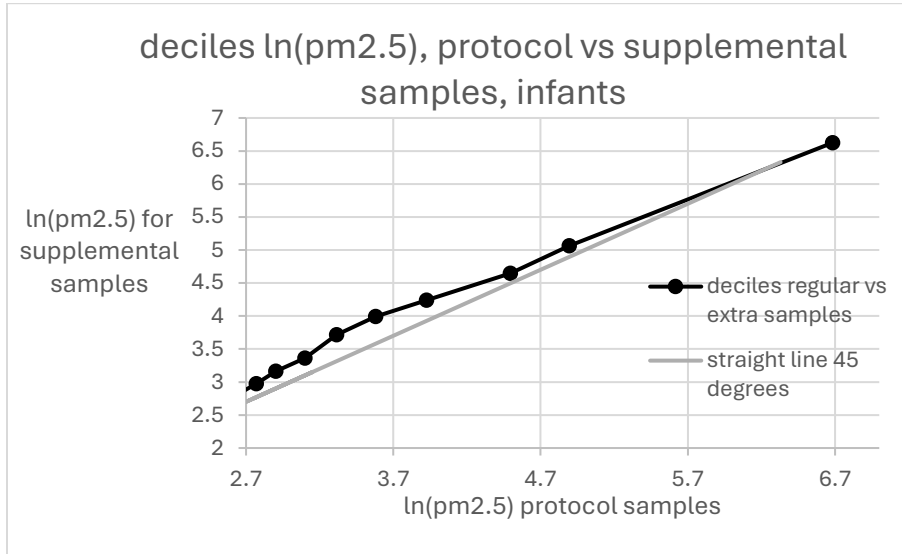


Figure 5. QQ plot for mothers, protocol vs supplemental samples, for black carbon (BC)

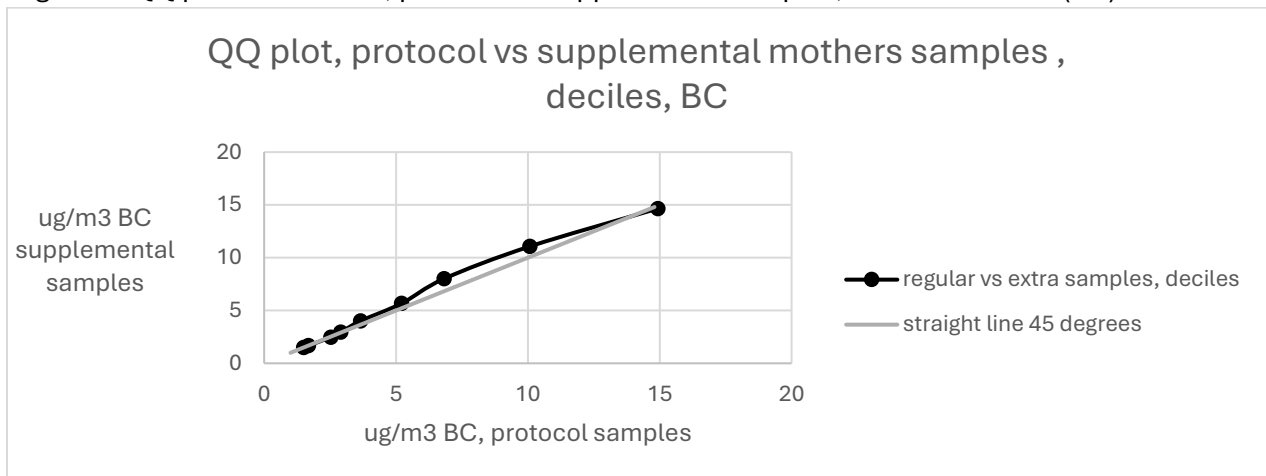


Figure 6. QQ plot for mothers, protocol vs supplemental samples, for carbon monoxide (CO)

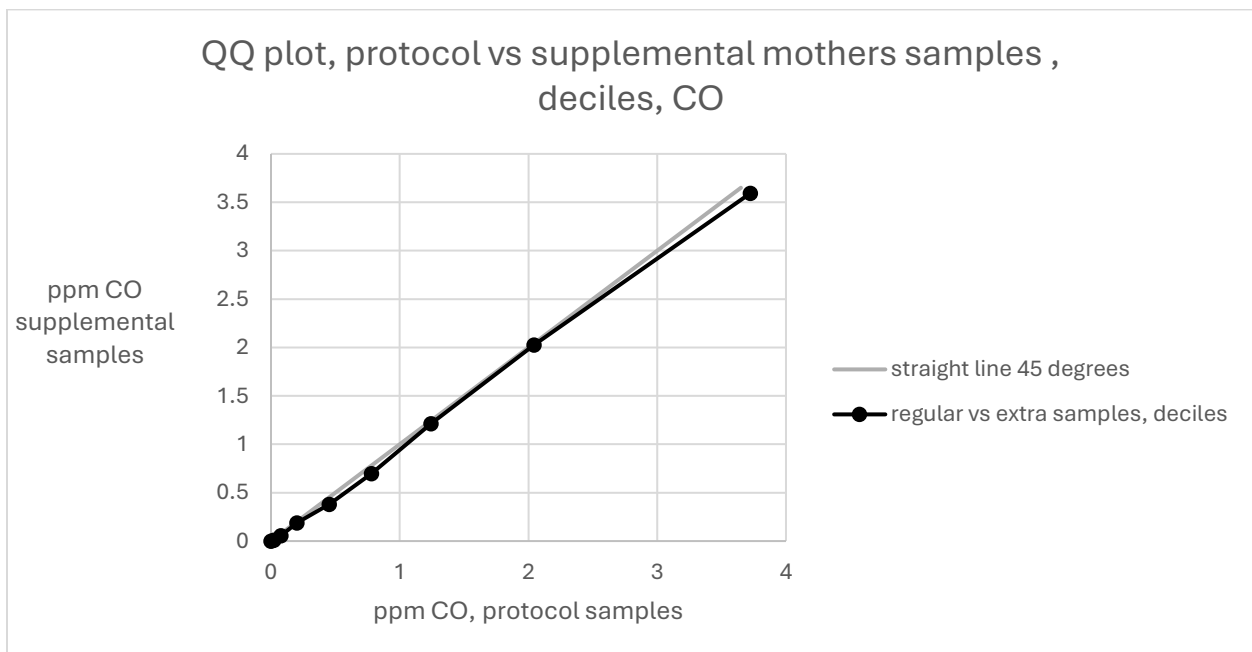


Figure 7. QQ plot for infants, protocol vs supplemental samples, for carbon monoxide (CO)

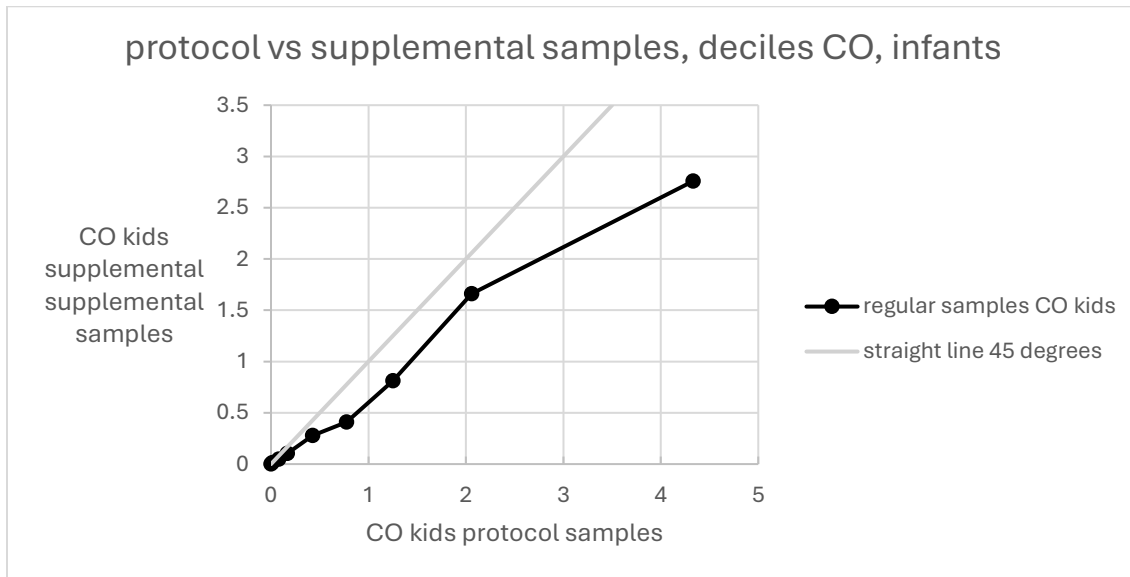


Figure 8. QQ plot for infants, protocol vs supplemental samples, for log carbon monoxide (CO)

