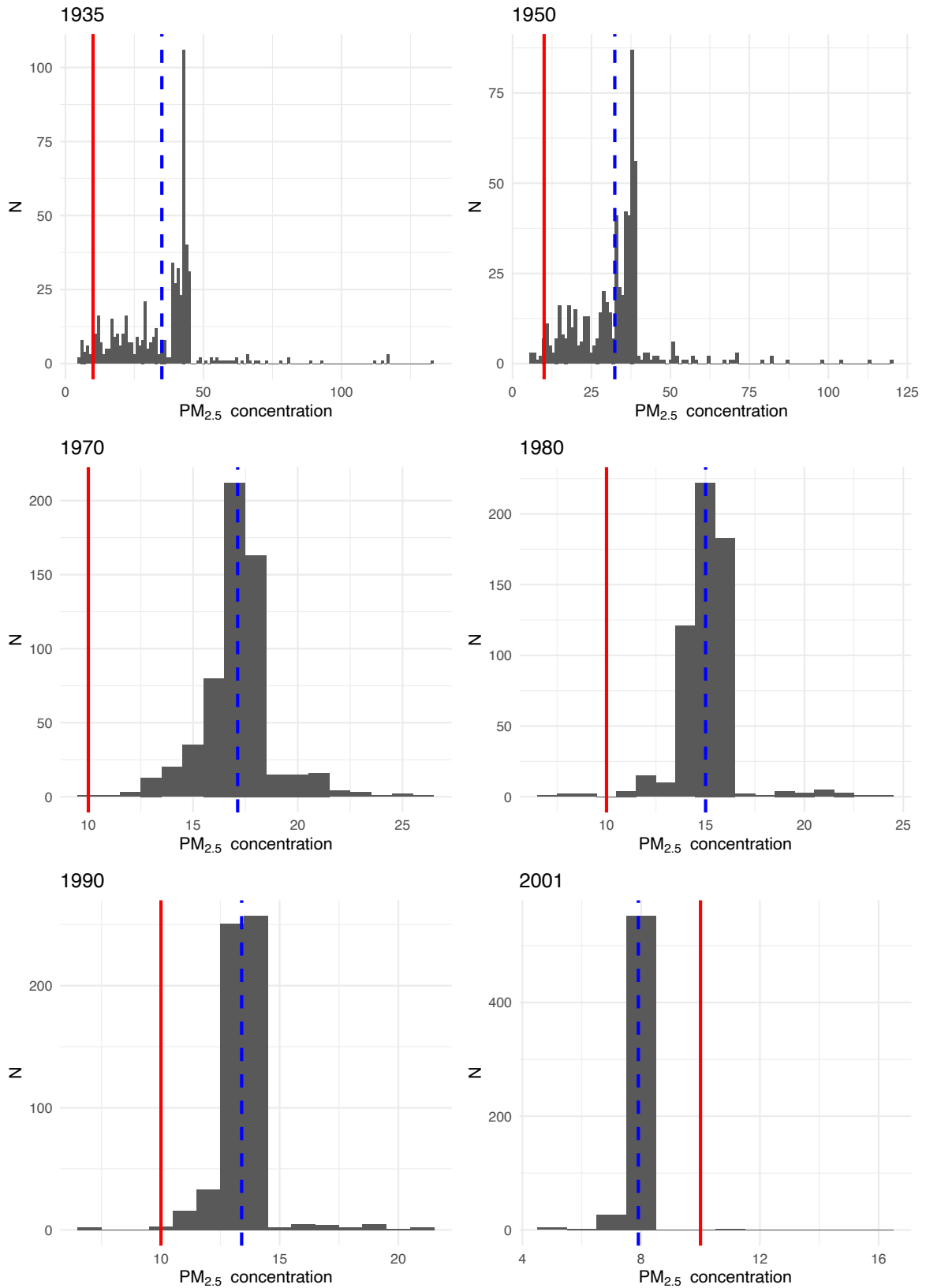


Supplementary Material

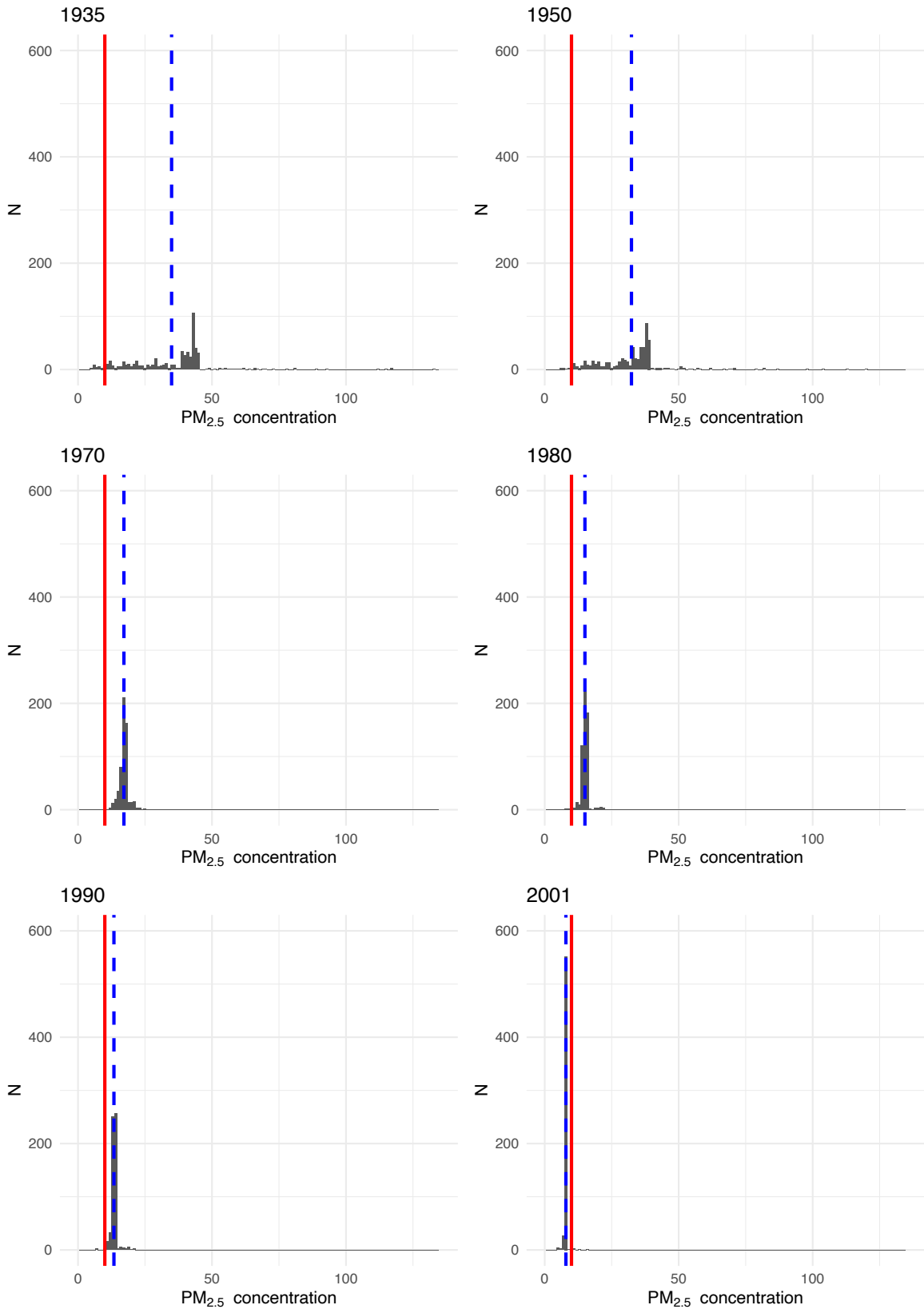
Life Course Air Pollution Exposure and Cognitive Decline: Modelled Historical Air Pollution Data and the Lothian Birth Cohort 1936

Supplementary Figure 1A. Mean PM_{2.5} exposure for each participant at each time point for which air pollution concentration data were modelled: life course air pollution exposure and cognitive decline in the LBC1936.



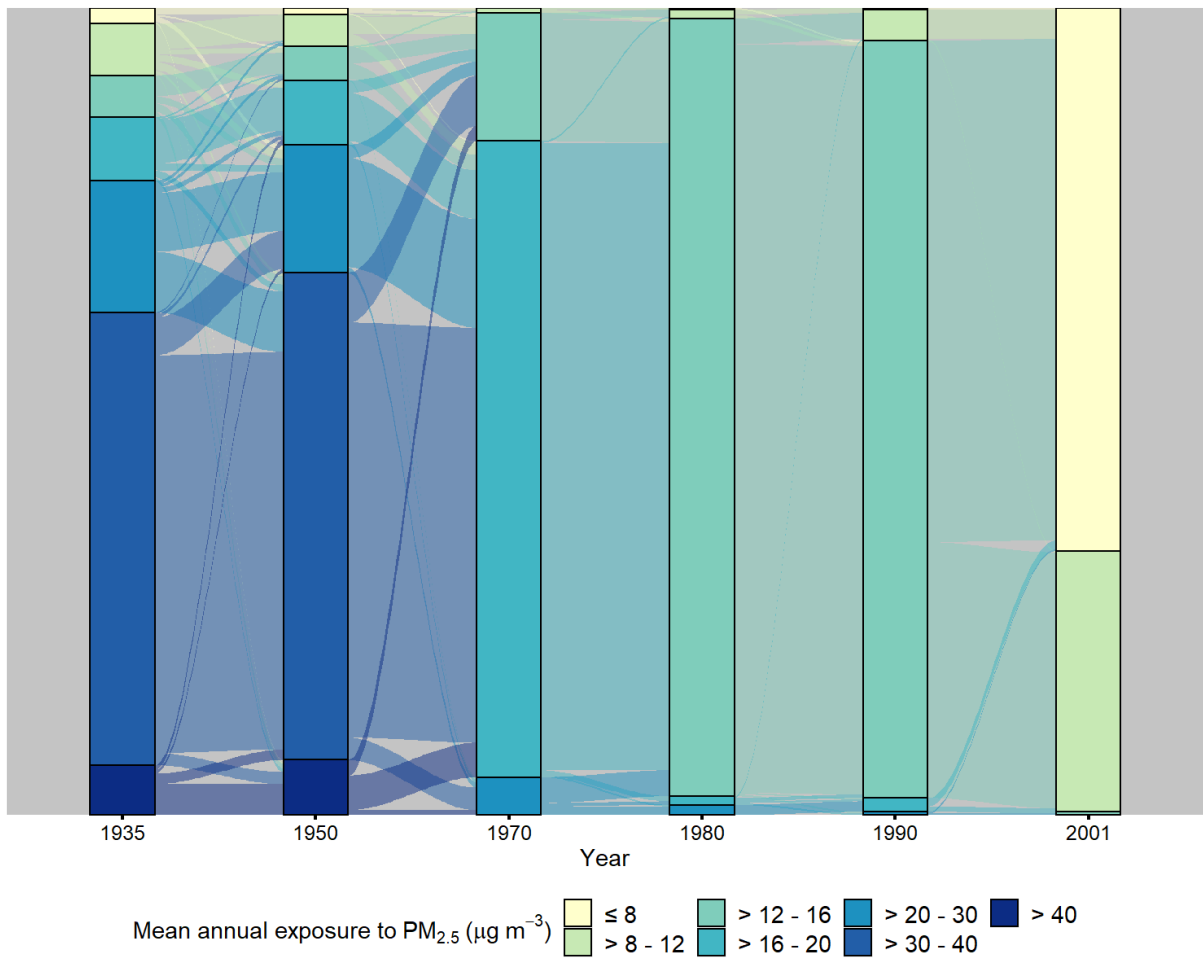
Blue dotted line — mean PM_{2.5} value; Solid red line — WHO guidelines (annual average $\leq 10 \mu\text{g}/\text{m}^3$)

Supplementary Figure 1B. Mean PM_{2.5} exposure for each participant at each time point for which air pollution concentration data were modelled (all plotted on the same x and y scales): life course air pollution exposure and cognitive decline in the LBC1936.



Blue dotted line — mean PM_{2.5} value; Solid red line — WHO guidelines (annual average $\leq 10 \mu\text{g}/\text{m}^3$)

Supplementary Figure 2. Sankey diagram indicating the change in mean annual PM_{2.5} exposure within individuals over time: life course air pollution exposure and cognitive decline in the LBC1936



Supplementary Table 1. Correlations between PM_{2.5} exposure rankings at different time points: life course air pollution exposure and cognitive decline in the LBC1936

	1935	1950	1970	1980	1990	2001
1950	0.53	-				
1970	0.13	0.22	-			
1980	0.06	0.18	0.57	-		
1990	0.09	0.19	0.53	0.82	-	
2001	0.003	0.10	0.05	0.03	0.08	-