

**Supplemental Table 2.** Subgroup analyses by factors related to study quality for studies examining the relationship between particulate air pollution and FEV<sub>1</sub> in healthy adults

<b>Subgroup</b>	<b>Estimates (n)</b>	<b>Change or difference in FEV<sub>1</sub> per 10 µg/m<sup>3</sup> of PM (95% CI)</b>	<b>I<sup>2</sup></b>	<b>Meta- Regression p-value</b>
<b><u>Acute PM<sub>2.5</sub> and change in FEV<sub>1</sub></u></b>				
<b>Air pollution measurement (spatial resolution)</b>				0.44
Personal Sampler	5	-5.10 (-7.98, -2.19)	64.2%	
On site	3	-10.00 (-16.72, -3.28)	0.0%	
<b>Activity</b>				0.44
Exercise	3	-10.00 (-16.72, -3.28)	0.0%	
Other	5	-5.10 (-7.98, -2.19)	64.2%	
<b>Confounding</b>				0.51
Adequate	7	-6.15 (-11.8, -0.54)	41.1%	
Insufficient	1	-10.00 (-14.71, -5.29)	NA	
<b>Smoking</b>				0.41
Non-smokers	5	-9.25 (-16.81, -1.69)	49.4%	
Smokers and non-smokers	2	-4.56 (-11.84, 2.74)	59.4%	
<b><u>Long-term PM<sub>10</sub> and change in FEV<sub>1</sub></u></b>				
<b>Air pollution measurement (time resolution)</b>				0.008
Year of measurement	2	-4.89 (-6.48, -3.31)	0.0%	
Less than a year of measurement	2	-17.69 (-27.12, -8.25)	0.0%	

<b>Control for confounding</b>				0.11
Adequate	3	-6.02 (-9.87, -2.18)	48.4%	
Insufficient	1	-22.4 (-43.0, -1.80)	NA	
<b>Smoking</b>				0.04
Non-smokers	3	-5.08 (-7.88, -2.28)	30.6%	
Smokers and non-smokers	1	-15.84 (-28.2, -3.47)	NA	
<b><u>Long-term PM2.5 and change in FEV1</u></b>				
<b>Control for confounding</b>				0.06
Adequate	1	-10.5 (-20.0, 1.0)	NA	
Insufficient	2	0.42 (-0.28, 1.11)	18.0%	
<b><u>Long-term PM10 and absolute FEV1</u></b>				
<b>Air pollution measurement (time resolution)</b>				1.0
Greater than a year of measurement	2	-75.54 (-219.20, 68.12)	83.3%	
Year of measurement	2	-70.87 (-105.61, -36.12)	62.4%	
<b>Air pollution measurement (spatial resolution)</b>				0.04
Less than 1km by 1km or interpolation	3	-47.40 (-95.72, 0.91)	88.5%	
Greater than 1km by 1km	1	-185.6 (-280.2, -91.0)	NA	
<b>Smoking</b>				0.04
Non-smokers	2	-28.43 (-77.76, 20.89)	85.6%	
Smokers and non-smokers	2	-128.26 (-217.63, -38.89)	69.3%	

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