

Table A6 Indoor pollution exposure and smoke exposure to the risk of COPD.

Urine VOCs (ng/ml)	Indoor pollution exposure	Risk of COPD		Smoke exposure	Risk of COPD	
		Unadjusted Model	Adjusted Model		Unadjusted Model	Adjusted Model
		OR (95% CI)	OR (95% CI) [#]		OR (95% CI)	OR (95% CI) [*]
NAS-(2-cya)-LC						
≤75th	No	Reference	Reference	No	Reference	Reference
	Yes	1.92(0.71,5.21)	1.29(0.44,3.82)	Yes	3.04(1.31,7.08)	2.22(0.76,6.48)
>75th	No	Reference	Reference	No	Reference	Reference
	Yes	2.29(0.76,6.92)	1.55(0.08,29.26)	Yes	3.63(1.20,10.96)	2.53(0.25,25.79)
NAS-(2-h)-LC						

≤ 75 th	No	Reference	Reference	No	Reference	Reference
	Yes	1.87(0.74,4.74)	1.11(0.36,3.41)	Yes	3.22(1.35,7.69)	2.00(0.63,6.36)
>75th	No	Reference	Reference	No	Reference	Reference
	Yes	3.09(1.02,9.31)	3.66(0.48,28.03)	Yes	4.02(1.47,10.97)	4.65(1.02,21.21)
NAS-(3-h)-LC						
≤ 80 th	No	Reference	Reference	No	Reference	Reference
	Yes	1.89(0.68,5.26)	1.27(0.38,4.22)	Yes	2.85(1.17,6.92)	2.02(0.66,6.15)
>80th	No	Reference	Reference	No	Reference	Reference
	Yes	1.97(0.61,6.36)	1.08(0.19,6.28)	Yes	3.55(1.24,10.12)	5.12(1.03,25.34)

NAS-(3-h-1-m)-LC						
≤75th						
No	Reference	Reference	No	Reference	Reference	
Yes	1.83(0.65,5.18)	1.12(0.35,3.65)	Yes	2.71(1.14,6.42)	2.04(0.56,7.37)	
>75th						
No	Reference	Reference	No	Reference	Reference	
Yes	1.86(0.62,5.63)	1.47(0.29,7.48)	Yes	4.09(1.42,11.79)	3.70(0.99,13.73)	
2-Methylhippuric acid						
≤75th						
No	Reference	Reference	No	Reference	Reference	
Yes	2.28(0.86,6.04)	1.47(0.48,4.47)	Yes	3.28(1.38,7.76)	2.66(0.75,9.47)	
>75th						
No	Reference	Reference	No	Reference	Reference	

NAS-(4-h-2-b)-LC	Yes	2.22(0.78,6.30)	1.35(0.38,4.79)	Yes	5.33(2.13,13.31)	4.05(1.16,14.19)
	No	Reference	Reference	No	Reference	Reference
≤80th	Yes	2.20(0.95,5.09)	1.47(0.53,4.05)	Yes	3.72(1.63,8.53)	3.24(0.93,11.36)
	No	Reference	Reference	No	Reference	Reference
>80th	Yes	1.68(0.40,7.12)	1.41(0.16,12.25)	Yes	2.90(0.84,9.97)	2.25(0.41,12.19)
	No	Reference	Reference	No	Reference	Reference
NAS-(p-2-h)-LC	Yes	1.58(0.40,6.16)	1.16(0.27,5.02)	Yes	4.76(1.58,14.36)	2.67(0.59,12.02)
	No	Reference	Reference	No	Reference	Reference
≤40th	Yes	1.58(0.40,6.16)	1.16(0.27,5.02)	Yes	4.76(1.58,14.36)	2.67(0.59,12.02)
	No	Reference	Reference	No	Reference	Reference
>40th	Yes	1.58(0.40,6.16)	1.16(0.27,5.02)	Yes	4.76(1.58,14.36)	2.67(0.59,12.02)
	No	Reference	Reference	No	Reference	Reference

No	Reference	Reference	No	Reference	Reference
Yes	2.67(1.18,6.04)	1.21(0.38,3.87)	Yes	3.49(1.38,8.88)	2.97(1.01,8.75)

#Adjusted for age, sex, ethnicity, blood urea nitrogen, blood serum creatinine, smoking.

*Adjusted for age, sex, ethnicity, blood urea nitrogen, blood serum creatinine, smoking, diesel exposure, paint exposure.

1.Abbreviations:

VOCs, volatile organic compounds; COPD, chronic obstructive pulmonary disease; OR, odds ratio; CI, confidence intervals; NAS-(2-cya)-LC, N-Acetyl-S-(2-cyanoethyl)-L-cysteine; NAS-(2-h)-LC, N-Acetyl-S-(2-hydroxyethyl)-L-cysteine; NAS-(3-h)-LC, N-Acetyl-S-(3-hydroxypropyl)-L-cysteine; NAS-(3-h-1-m)-LC, N-Acetyl-S-(3-hydroxypropyl-1-methyl)-L-cysteine; NAS-(4-h-2-b)-LC, N-Acetyl-S-(4-hydroxy-2-butenyl)-L-cysteine; NAS-(p-2-h)-LC, N-acetyl-S-(phenyl-2-hydroxyethyl)-L-cysteine

2.P value < 0.05 was considered statistically significant.