



Smoking Experience, Alcohol Drinking, Self-reported exposure to Secondhand Smoke, and Urinary Cotinine level among Non-smokers in Korea: Results from National Health and Nutrition Examination Survey

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ROP22

Prevention & Early Detection

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Objectives♪

- To suggest representative SHS exposure rate among non-smokers with the data comparison of self-reported and urine cotinine test

Methods♪

- 7,526 non-smokers included from the Korean National Health and Nutrition Examination Survey(KNHANES)
- Face to face interview by trained interviewers with structured questionnaire
- Biological test : urine cotinine
- Statistical analysis : multivariable logistic regression

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Results♪

- Low correspondence of SHS exposure self-reported vs urine cotinine tested : 40% vs 51%
=> Kappa value: 0.1010
- Male exposed to SHS more than female (55.1% vs 47.8%)
- Factors associated with positive urinary cotinine test (5-100) :
younger age group, self reported SHS exposure, past history of smoking, drinking over two times per week
- Significant P for trend was identified : time duration of self-reported SHS exposure and frequency of drinking alcohol

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	Female(n=5,085)			Male(n=2,441)		
variables	5-100 n=2,389(%)	OR*	95% CI	5-100 n=1,284(%)	OR*	95% CI
Exposure to second hand smoking at work						
Non-exposure	1,818(45.9)	ref		724(51.1)	ref	
Exposure: <1hour	398(54.7)	1.29	1.06-1.57	447(60.2)	1.31	1.04-1.65
: ≥1hours	140(56.0)	1.24	0.92-1.68	106(60.0)	1.23	0.86-1.76
	P for trend0.0009			P for trend0.0067		
Exposure to second hand smoking at home						
Non-exposure	1,864(46.0)	ref		1192(54.3)	ref	
Exposure: <1hour	361(53.6)	1.29	1.05-1.58	61(65.0)	1.44	0.84-2.46
: ≥1hours	118(61.4)	1.80	1.21-2.69	9(74.7)	2.24	0.62-8.07
	P for trend<.0001			P for trend0.0884		
Frequency of drinking alcohol						
non-drinker	888(43.8)	ref		256(47.9)	ref	
1 time per month	861(48.1)	1.04	0.90-1.20	257(54.7)	1.10	0.82-1.47
2-4 times per month	432(50.2)	1.07	0.88-1.32	334(57.1)	1.20	0.90-1.59
over 2 times per week	208(59.8)	1.57	1.18-2.08	437(58.3)	1.35	1.04-1.74
	P for trend0.0013			P for trend0.0014		

- Risk of positive urine cotinine test significantly increased when the self- reported SHS exposure combined with drinking (in both gender) or past history of smoking (current and past)