

Second-hand smoke exposure of children in cars in New Zealand

Repeated national survey data

Richard Edwards¹, Ben Healey¹, Janet Hoek¹,
Nick Wilson¹, George Thomson¹, Steve Taylor²



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Makuhari Messe, Chiba, Japan

With data from
the Year 10 survey by



New Zealand's location



ASH 'Year 10' Snapshot Survey

Date _____

THIS SURVEY IS CONFIDENTIAL - PLEASE DO NOT PUT YOUR NAME ON THIS SURVEY
YEAR 10 SNAPSHOT 2010

READ INSTRUCTIONS IN BOLD. TICK THE BOX THAT SUITS YOUR ANSWER BEST. ANSWER ALL QUESTIONS.
 SHADED BOXES - CAN TICK MORE THAN 1 BOX

01 Are you... Female Male

02 How old are you? **PLEASE TICK ONE BOX ONLY**

<input type="checkbox"/> 12 years old or younger	<input type="checkbox"/> 13 years old	<input type="checkbox"/> 14 years old
<input type="checkbox"/> 15 years old	<input type="checkbox"/> 16 years old	<input type="checkbox"/> 17 years old or older

03 Which ethnic group or groups do you belong to? **PLEASE TICK ALL BOXES THAT APPLY**

<input type="checkbox"/> New Zealand European	<input type="checkbox"/> Māori	<input type="checkbox"/> Samoan	<input type="checkbox"/> Cook Island Māori
<input type="checkbox"/> Tongan	<input type="checkbox"/> Niuean	<input type="checkbox"/> Other Pacific Island	<input type="checkbox"/> Chinese
<input type="checkbox"/> Indian	<input type="checkbox"/> Other Asian	<input type="checkbox"/> Other (Please write in) _____	

04 Have you ever smoked a cigarette, even just a few puffs? Yes No

05 How old were you when you first tried a cigarette? **WRITE AGE FIRST TRIED A CIGARETTE HERE** _____ Years

I have never tried smoking a cigarette

06 How many cigarettes have you smoked in your entire life? **PLEASE TICK ONE BOX ONLY**

<input type="checkbox"/> None	<input type="checkbox"/> 1 to 10 cigarettes (includes just having a few puffs)
<input type="checkbox"/> 11 to 100 cigarettes	<input type="checkbox"/> 100 or more cigarettes

07 How often do you smoke now? **PLEASE TICK ONE BOX ONLY**

<input type="checkbox"/> I have never smoked/I am not a smoker now	<input type="checkbox"/> At least once a day
<input type="checkbox"/> At least once a week	<input type="checkbox"/> At least once a month
<input type="checkbox"/> Less often than once a month	

08 During the past year (12 months), have you ever tried to stop smoking cigarettes? **PLEASE TICK ONE BOX ONLY**

<input type="checkbox"/> I have never smoked/I am not a smoker now	<input type="checkbox"/> Yes, I have tried to stop smoking cigarettes
<input type="checkbox"/> I did not smoke during the past year	<input type="checkbox"/> No, I have not tried to stop smoking

09 During the past 30 days (one month) how did you usually get your own cigarettes? **PLEASE TICK ONE BOX ONLY**

<input type="checkbox"/> I have never smoked/I am not a smoker now	<input type="checkbox"/> I bought them from a shop	<input type="checkbox"/> I got them from friends
<input type="checkbox"/> I got them from my parents or caregivers	<input type="checkbox"/> I got them some other way	

10 Do you usually smoke "ready made" or "roll your own" cigarettes? **PLEASE TICK ONE BOX ONLY**

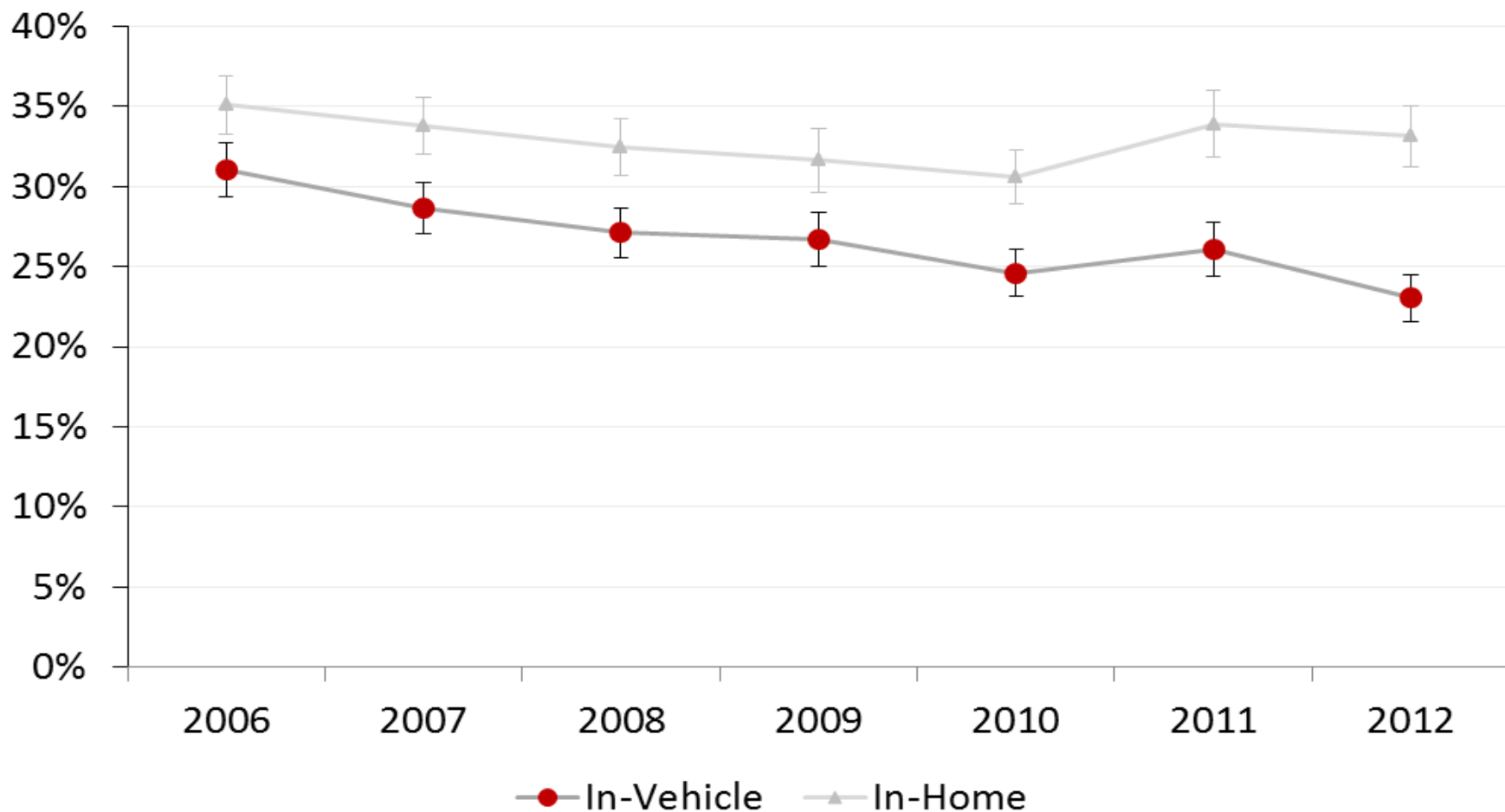
<input type="checkbox"/> I have never smoke d/I am not a smoker now	<input type="checkbox"/> Ready made	<input type="checkbox"/> Roll your own	<input type="checkbox"/> Other
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PLEASE TURN OVER THE PAGE

- All Year 10 (14-15 years) school students invited to participate
- Over 25,000 participate each year
- Sample representative of NZ population of Year 10 students
- Analyses weighted by ethnicity and SES, standardised to age distribution in 2007

“ During the past 7 days,
did anyone smoke in your
presence while you were
travelling in cars or vans? ”

Exposure to secondhand smoke (SHS) in vehicles or in the home 2006-12



Note: Figures weighted by age, ethnicity and socio-economic status.
Confidence intervals adjusted for clustering at school level.

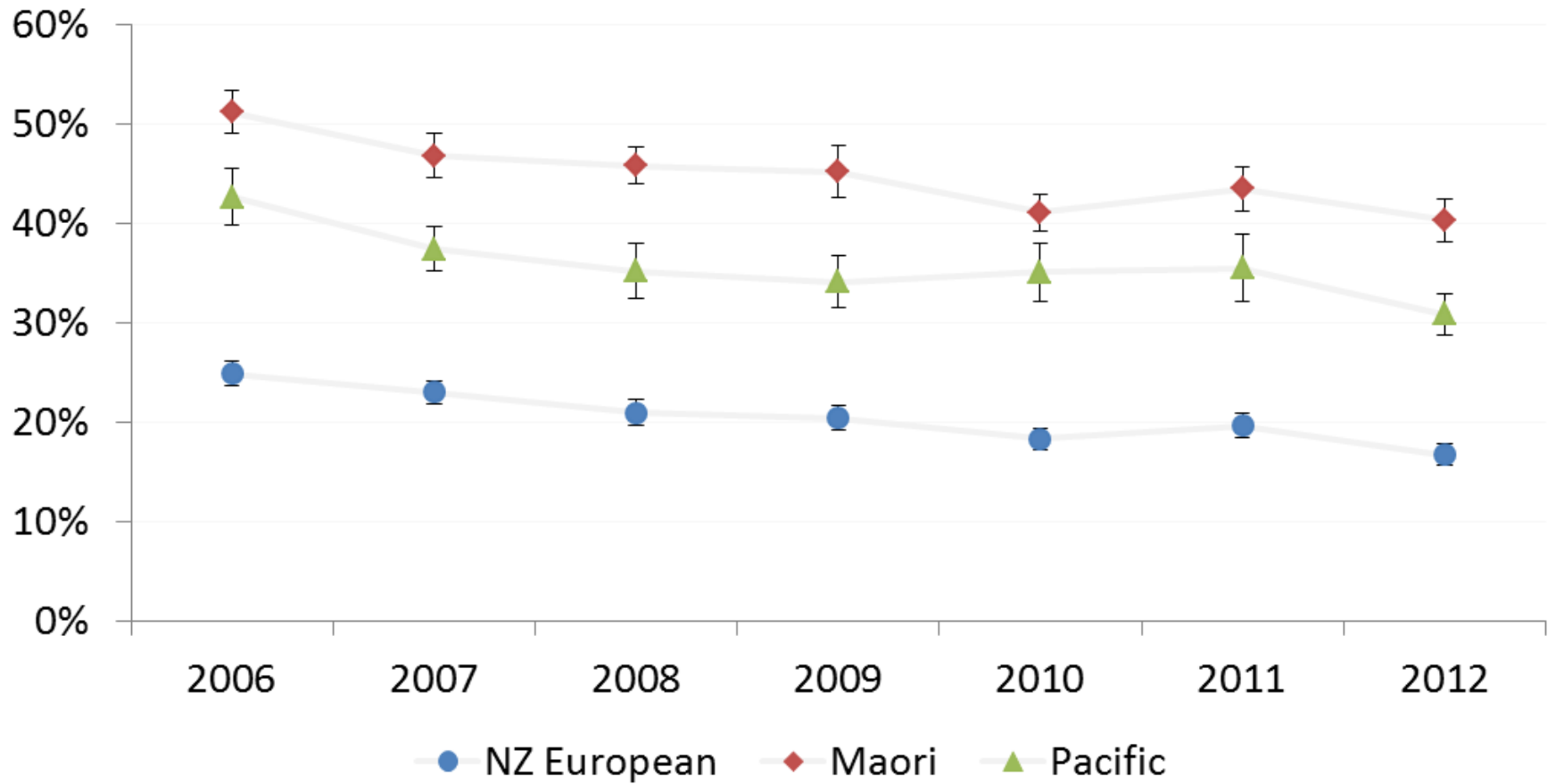
23% of 2012 respondents...
Just under 14,000 14-15 year old students...

350 bus-loads per week.

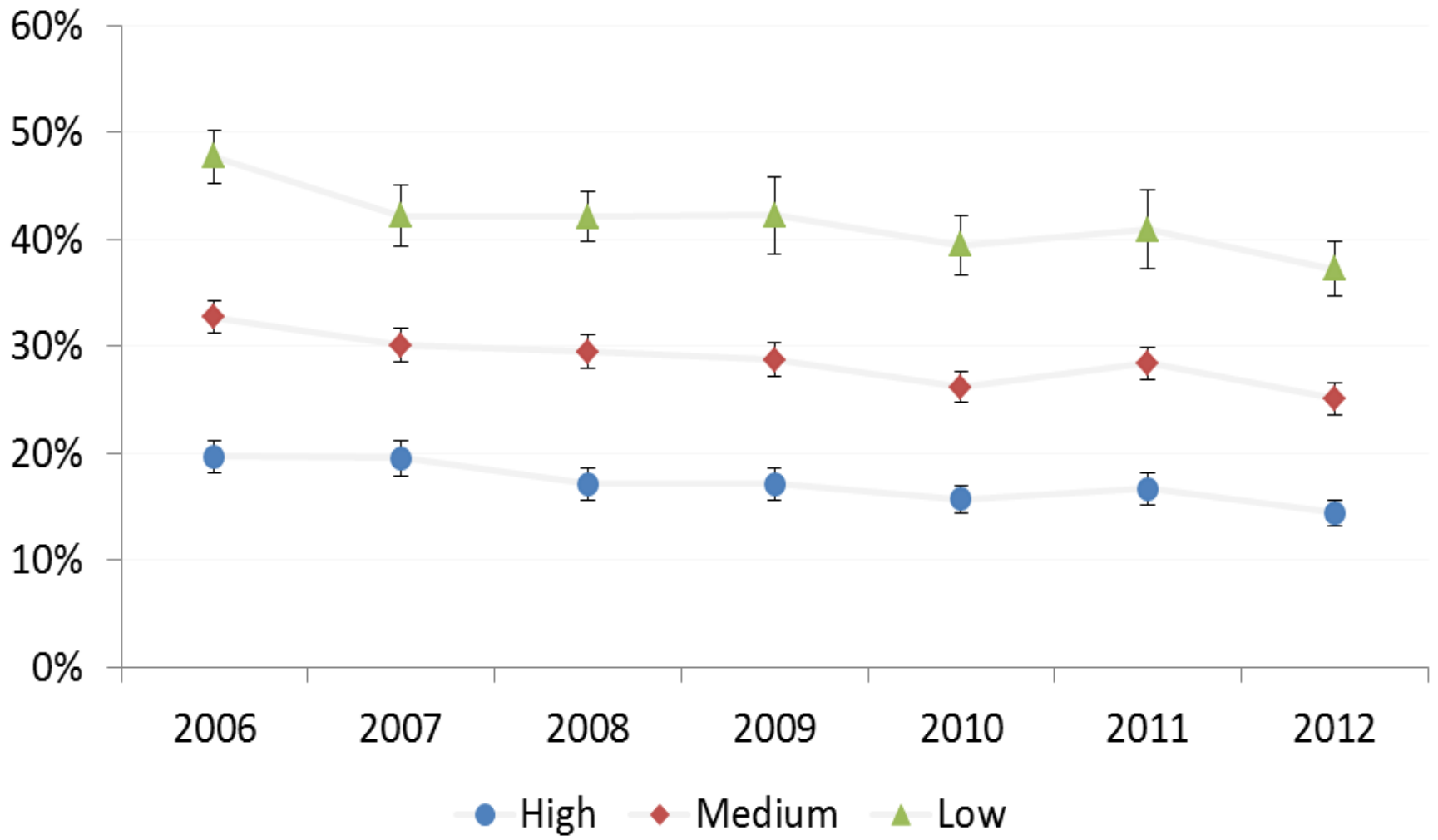


...and that's only the 14-15 years old students
It is likely over 100,000 children are exposed per week

Māori and Pacific youth had higher risk of exposure



Youth with lower socio-economic status youth had higher risk of exposure



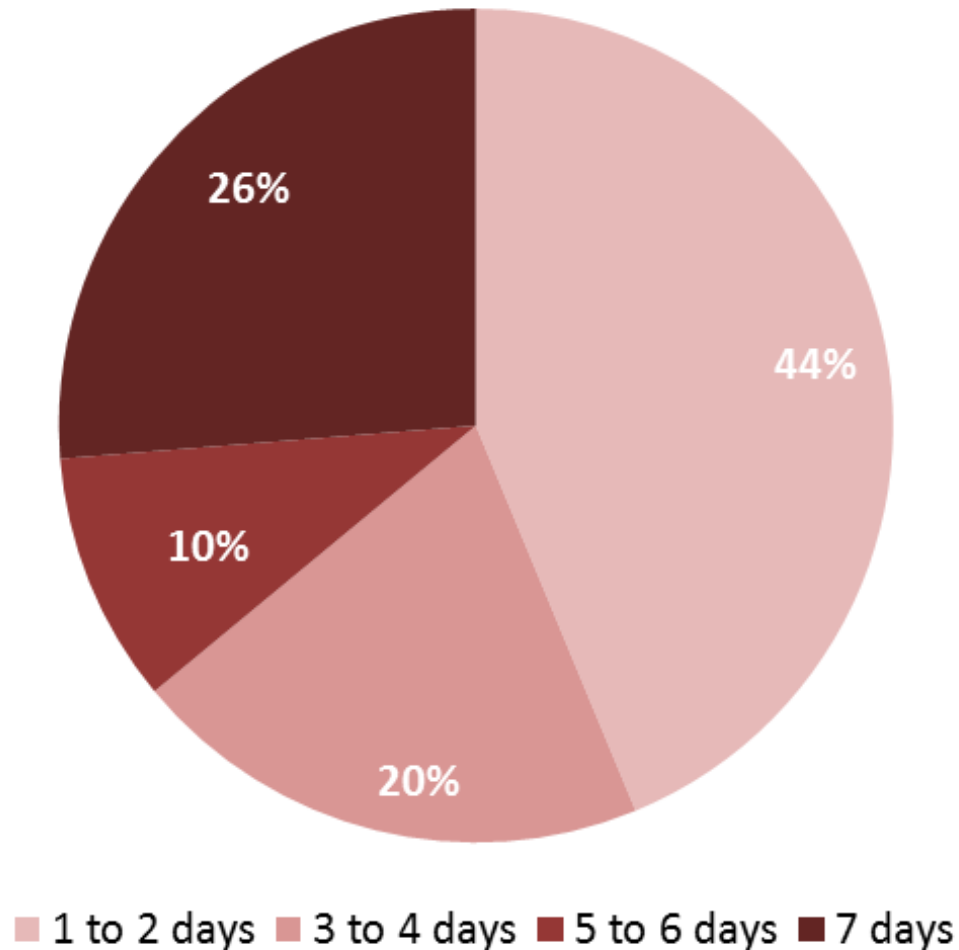
Smoking prevalence in social network greatest predictors of exposure

Variable	Effect	Adjusted odds ratios, by year						
		2006	2007	2008	2009	2010	2011	2012
Age	15 years vs 14 years	1.1	1.1	1.0	1.1	1.1	1.2	1.1
Sex	Female vs Male	1.1	1.1	1.1	1.0	1.0	1.1	1.1
Ethnicity	Maori vs NZ European	1.3	1.3	1.3	1.3	1.3	1.4	1.4
	Pacific vs NZ European	1.3	1.3	1.3	1.2	1.6	1.5	1.4
	Asian vs NZ European	0.8	0.8	0.9	1.0	1.0	1.0	1.0
	Other vs NZ European	1.2	1.4	1.3	1.6	1.6	1.4	1.2
SES	Low vs High	1.6	1.3	1.5	1.6	1.5	1.4	1.5
	Medium vs High	1.3	1.2	1.4	1.3	1.2	1.3	1.3
Parents Smoke	Both vs Neither	9.1	9.7	7.9	7.5	8.4	8.0	7.4
	One vs Neither	4.6	4.7	4.1	3.8	4.1	4.3	3.9
Sibling Smokes	-	1.9	1.9	2.0	2.0	1.9	1.9	1.8
Friend Smokes	-	2.3	2.4	2.3	2.2	2.2	2.4	2.3

Note: Analysis weighted for age, SES, ethnicity. Adjusted for clustering.

Adjusted odds ratios with a grey background were not significantly different from 1 (95% confidence level).

Of those reporting they were exposed...
On how many days during the week
did it happen?



Developments around smokefree vehicles in NZ

- Only mass media campaigns on the SHS hazard to date
- A 2010 Māori Affairs select committee recommended extending smokefree laws to vehicles
- Substantial support among public and smokers for policies to protect children in cars from
- A Government Minister and Māori political leader has expressed Support for a new law

Tariana Turia, Associate Minister of Health & Māori Party Leader



Conclusions

- Smoking in cars remains an important source of SHS exposure for youth in New Zealand
- Ethnic and SES disparities in exposure contribute to health inequalities
- These results contribute to the strong justification for smokefree cars legislation – consistent with jurisdictions in Australia and North America

Further information?

Please contact:

Prof. Richard Edwards, Department of Public Health, University of Otago, Wellington

Email: richard.edwards@otago.ac.nz

<http://aspire2025.org.nz/>

Promoting “auahi kore” (smokefree in Māori language)



Note: Slide here for use if necessary only.

Response by year

Year	Population	Responses	% Popn.
2006	63,086	32,841	52%
2007	62,018	25,978	42%
2008	61,485	30,872	50%
2009	61,355	25,762	42%
2010	61,212	32,605	53%
2011	59,562	26,645	45%
2012	59,627	28,447	48%

School participation ranged from 44% to 58%
More than 230 schools participated each year.