

Children's alcohol use and influencing factors in socioeconomically diverse Australian communities:

The Healthy Neighbourhoods Study

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Collaboration

- Centre for Adolescent Health
 - Royal Children's Hospital
 - Murdoch Childrens Research Institute
 - University of Melbourne
- Curtin University
- Griffith University



Project Description

- 30 Communities across
 - 14 in Vic, 8 in Qld and WA
 - Communities have at least 17,000 residents
- Stratified by SES
- Urban and Regional
- School Surveys
 Years 6 and 8



School Selection

231 participated (67% response)

 across 3 education sectors in proportion
 123 Vic, 55 Qld & 53 WA

State	Primary	Secondary
Vic	85	43
Qld	38	21
WA	41	18

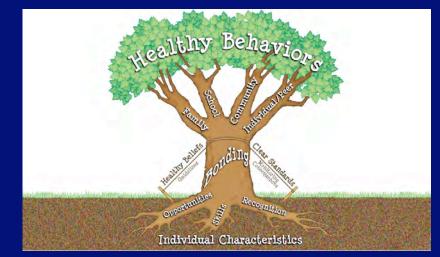


Primary Aim of Healthy Neighbourhoods

- Examine relationships between common adolescent health and behaviour problems across different socio-economic strata
 - substance abuse
 - sexual risk taking
 - mental health
 - depression
 - conduct problems
 - obesity



The Social Development Model





Risk Factor - a consistent predictor identified in International longitudinal research of health and behaviour problems

Protective Factor - a factor that mediates and moderates the effect of risk exposure



Risk Factors

substance abuse Anti-soc behav

depression

FAMILY

Poor family management Family conflict Favourable parental attitudes - to drug use - to antisocial behaviour Family history antisocial behvr SCHOOL Academic failure Lack of school commitment

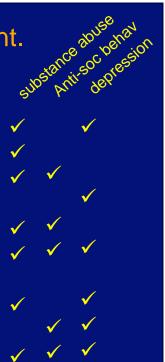


Risk Factors cont.

COMMUNITY Availability of drugs Laws and norms fav. to drug use Transitions and mobility Community disorganisation Low neighbourhood attachment

PEER

Friends use of drugs Interaction with antisocial peers Rewards for antisocial involvement



Anti-soc behav depression



Risk Factors cont. substance abuse

INDIVIDUAL

Favourable attitudes to drug use Favourable attitudes to antisocial behaviour Rebelliousness Impulsiveness Antisocial behaviour Sensation seeking



Protective Factors

Family Attachment Belief in Moral Order Social Competence Rewards and Opportunities for prosocial involvement – Family – School – Community



Survey Measures

- Risk factor profile
- Protective factor profile
- Prevalence of problem behaviours
- Mental Health
- Puberty
- Eating behaviours & Physical Activity
- Height, weight and blood pressure
- Collector District of residence

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Healthy Meighbourhoods	Participants					
Completed		Year level				
	6	8	Total			
Both	4163	3382	7545			
Survey	231	252	483			
Measures	122	105	227			
Total	4516	3739	8255			

NB. Active consent process 61% forms returned, 53% surveyed



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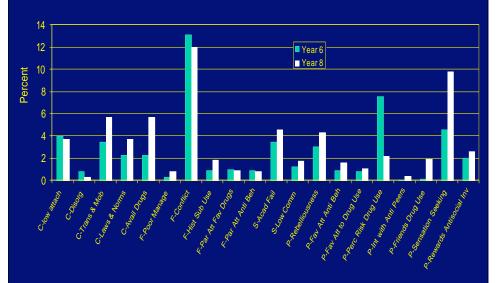
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Healthy Neighb

Socioeconomic distribution

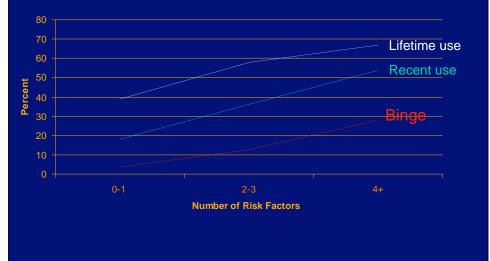
Population	SEIFA index of relative socio-economic disadvantage						
	Percentile						
	10 th	25 th	50 th	75 th	90 th		
Australia	882	951	1013	1068	1110		
Healthy Neighbourhoods sample	882	952	1011	1062	1092		

Risk Factors by Year Level

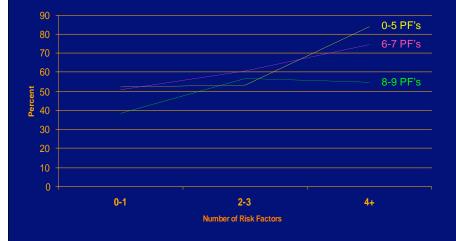




Risk Factors and Alcohol Use

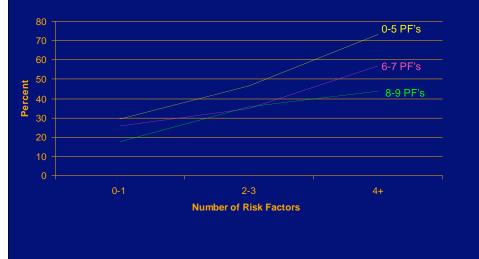


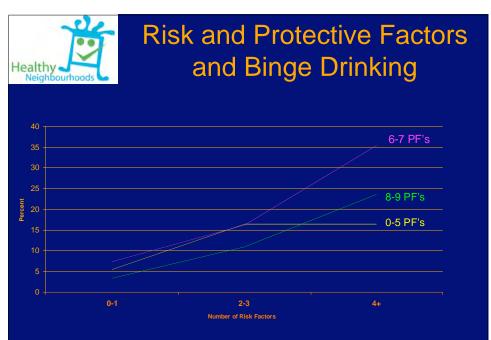






Risk and Protective Factors and Recent Alcohol Use







Lifetime Alcohol by SES

Quartile	Adj. Rate*	Comm. Range		
1 - Iow	38.2	24.3 – 45.7		
2	43.0	32.5 – 48.0		
3	41.4	31.6 – 48.5		
4 - high	40.1	31.9 – 48.6		
* Adjusted for age and gender Communities $p < 0.000$ SES Quartiles $p < 0.000$				



Lifetime Alcohol by SES & Number of Risk Factors

	Risk Factors				
Quartile	0 or 1	2 or 3	4 or more		
1 - Iow	36.3	52.2	54.0		
2	41.4	60.6	75.9		
3	39.1	61.4	65.3		
4 - high	39.7	58.6	51.8		

Quartiles p = 0.01 Risk Factors p < 0.000



Binge Drinking by SES

Quartile	Adj. Rate*	Comm. Range		
1 - Iow	4.8	3.4 – 6.9		
2	6.4	4.3 – 7.7		
3	6.0	4.0 - 7.7		
4 - high	3.8	0.2 – 5.7		
* Adjusted for age and gender Communities $p = NS$ SES Quartiles $p = NS$				



Binge Drinking by SES & Number of Risk Factors

	Risk Factors				
Quartile	0 or 1	2 or 3	4 or more		
1 - Iow	2.9	12.4	23.6		
2	4.6	14.0	37.6		
3	4.4	9.8	34.6		
4 - high	2.1	13.7	25.3		

Quartiles p = 0.004 Risk Factors p < 0.000



Key Issues

Risk and Protective factors are associated with adolescent alcohol use

Intervention strategies that reduce risk factors and/or increase protective factors could reduce alcohol use

Prevalence of risk and protective factors vary by community

Customised community intervention strategies could be more effective



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