PARTY - does it work?

An overview of Royal Perth Hospital's experience

Injury 2010, Auckland NZ

Maxine Burrell, Trauma Program Manager Royal Perth Hospital, WA



Prevent Alcohol and Risk-related Trauma in Youth

"To promote injury prevention through reality education, enabling youth to recognize risk and make informed choices about activities and behaviours."

Introduction

- The scope of the problem -"The problem with youth today"
- What is PARTY?
- PARTY Perth
- Does PARTY work?



From this.... to this?



Health problems affecting youth disproportionately

- Accidental Injury
- Intentional Injury
- Mental Disorders
 - Depression; anxiety disorders; psychoses; eating disorders
- Substance abuse and dependence

Youth health problems

- Tobacco use
- Mental Health Problems
- Obesity
- Heavy alcohol use
- Illicit substance use
- Risky sexual behaviour
- Physical inactivity
- Poor diet
- Sun exposure
- Aggressive and antisocial behaviour

Adolescent health risk vs. major implications for later health

Adolescent Health Problem	Cardiovascular Disease	Cancer	Mental disorders	Diabetes	Asthma	Injury
Tobacco use	~	~			~	
Obesity	~			~		
Poor diet	~	~				
Physical inactivity	~			٠	1	
Heavy alcohol	V.	-	~	1		<pre>/</pre>
Illicit substance use		1	~		1	~
antisocial and angressive behaviour		1	~			ľ
Adolescent mental health problems	1	1	~		1	
Risky Sexual Behaviour		~	1			
Sun-exposure		~				

Legend:

- major major predictor of later illness
- " moderate consumption may bring cardiovascular health benefits
- predicts poor outcome of disorder
- predicts later illness but arguably of less major importance

(Patton, 1999)

Western Australian Data

 256 major trauma admissions to RPH in 2009 (54%) road trauma

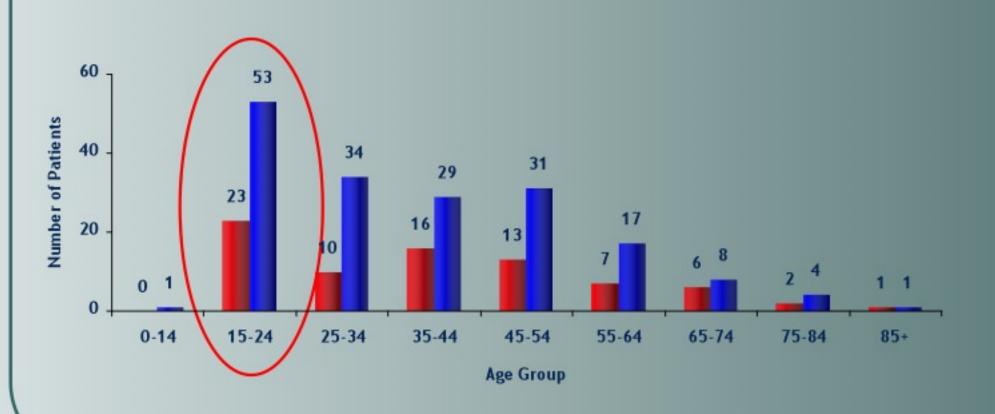
- Almost 30% (29.7%) major road trauma admissions youth aged 15-24
- 2 x risk of transport injury death 15-24 age group (Gillam et al, 2003)

Australia - Road Toll 2008

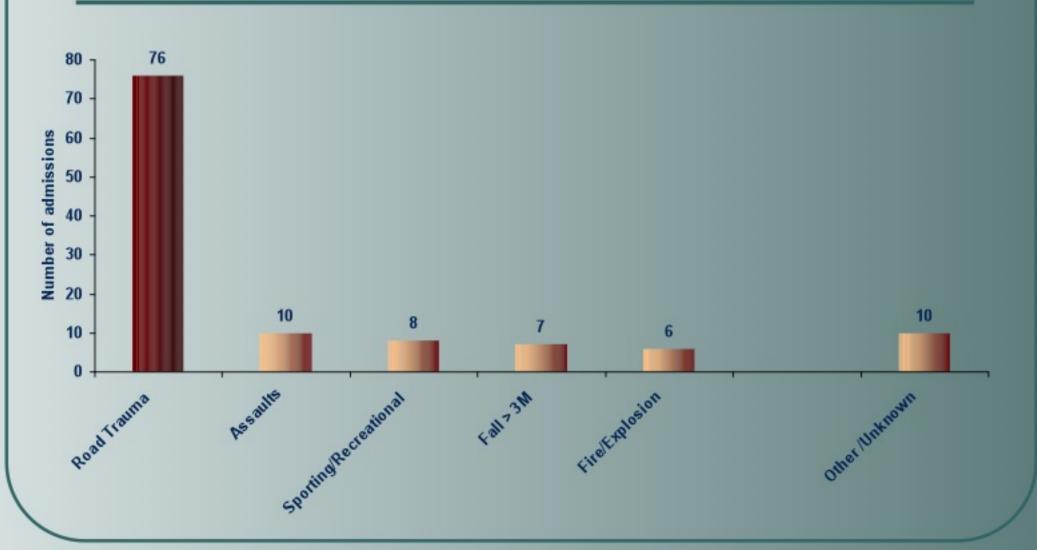
(Australian Bureau of Statistics 2009)

State	Deaths	7	State	Deaths per 100,000	
NSW	397	1	NT	34.10	
QLD VIC	327 303	1	WA	9.66	
WA	NZ Deaths	NZ Deaths per 100,000		8.03	
SA				7.64	
NT	366		8.6		
TAS	300		0.0	5.72	
ACT	14	Т	MSW	5.70	
ACI	14	ď	ACT	4.07	

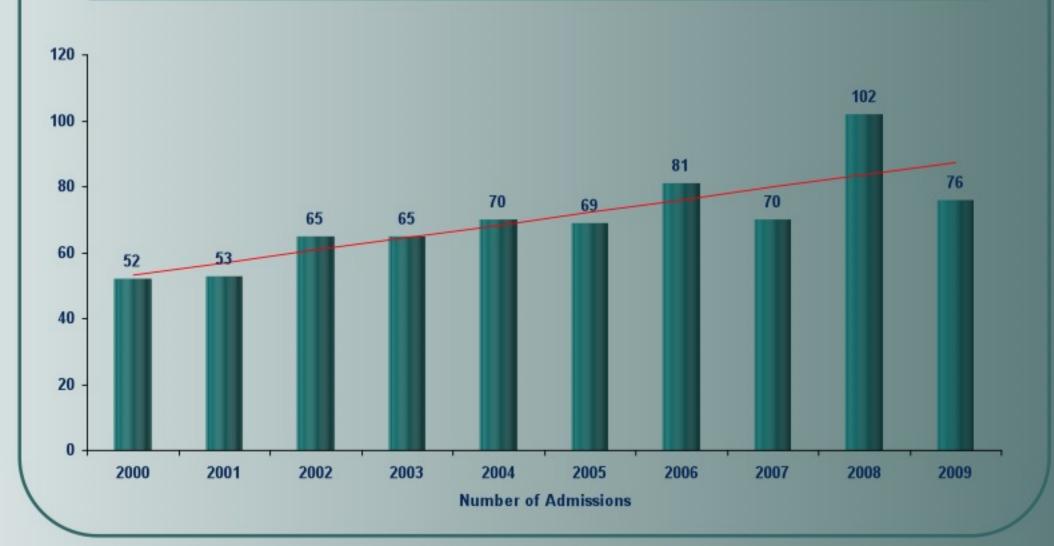
Major road trauma admissions RPH, 2009 (ISS>15)



Cause of Major Trauma (ISS >15) in Youth (15-24 yrs)



Annual Major Road Trauma Admissions (15-24 yrs)



What are the risks?

- P-Plate drivers 5 x more likely to crash
- 8 x more likely fatal injury passenger crash

Why?

- Undeveloped skills:
 - Cognitive
 - Psychomotor
 - Perceptual

- Higher exposure to risk conditions:
 - Nights and Weekends
 - With peers (distractions/ encouragement)
 - Location notably rural areas

- Risk-taking behaviour:
 - Speeding
 - Alcohol & drugs
 - Lack of seatbelt use
 - Inexperience

Alcohol

- > 10% first year drivers illegal BAC
- ~ 30% of all drink drivers repeat offenders
- Majority male (90%) and < 25 years (65%)
- 2.3 times greater crash risk
- Drink driving associated with drug driving

Where do we fit in?

Office of Road Safety WA -

Towards Zero Road Safety Strategy:

Getting there together 2008 – 2020

- Safe roads and roadsides
- Safe speeds
- Safe vehicles
- Safe road use

Drink and drug driving

Restraint use

Fatigue and distracted driving

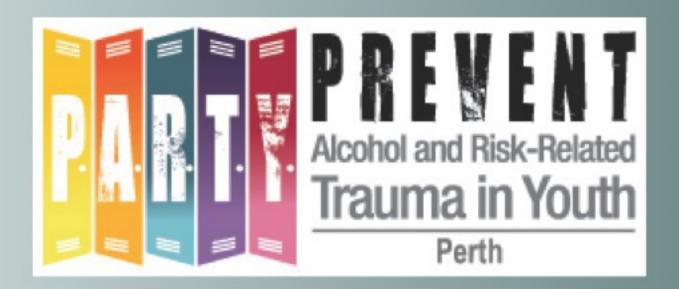
Novice drivers - GDS

Motorcyclists, Pedestrians and Cyclists

Legislation



What is PARTY?



PARTY Mission Statement

"To promote injury prevention through reality education, enabling youth to recognize risk and make informed choices about activities and behaviours."

Threat (stimulus)

Fear (response to the stimulus)

Control (reaction to the fear)

Inhibitory

(shock horror)

Fear Control

won't happen to me")

Anticipatory

("that will happen to me if I don't change")

Danger Control

"i* can happen to me, but I can avoid the outcome if I adopt the prescribed action")

Maladaptive Coping Responses

- Fatalism ('Nothing I can do about it')
- Avoidance ('Don't think about it and it will go away')
- Religious faith reliance ('God's will or faith will get me through')
- Inaccurate information beliefs ('I'm always in control, I'm a better driver than average')
- Denial ('I haven't had an accident in 5 years so why wear a seat belt')

Negative Consequences

- Physical (death, disablement, disfigurement)
- Social (embarrassment, no friends)
- Emotional (guilt, loss of self-esteem)
- Financial (property loss or damage, loss of income source)
- Loss of life style (e.g. being in a wheel chair, no money because of loss of income)
- Loss of freedom (loss of licence, jail sentence, blindness, loss of limbs)

So in plain English...

 Thus the strategy is to convince them it can or will happen to them.

PARTY Goals and Objectives

- To empower youth to recognise risks.
- To empower youth to make informed, smart choices.
- To increase youths' awareness of personal responsibility for their choices.
- To increase youths' knowledge of the impact of serious injury on quality of life for the individual and community.

In a nutshell...

- Knowledge
- Attitude
- Behaviour

Background

- Sunnybrook Health Sciences Centre, Toronto, 1986
- 70 sites across Canada, United States and Australia
- Licensed by SMARTRISK
- Perth, Melbourne and Brisbane
- (Germany)

Royal Perth Hospital's PARTY

- School Students Years 10,11 and 12
- 30 Students per session
- One session per week during school terms
- Each school one PARTY per year
- Outreach Programs
- Juvenile Justice ~ 6 times per year
- One staff day per year

Each session is conducted once a week

"I WON'T WEAR A HELMET IT MAKES ME LOOK STUPID" EVERY YEAR OVER 11,000 PEOPLE DIE ON OUR ROADS AND 30,000 ARE SERIOUSL INJURED. THAT MEANS THOUSANDS OF FAMILIES LEFT PICKING UP THE PIECE FAMILIES TORTURED BY THE LOSS OF A LOVED ONE, CRIPPLED BY REDUCED INCOME OR THE SUDDEN NEED TO CARE TO STATIVE WITH PERMANENT BRAIN DAMAGE T 40% OF THESE CAS IS COULD HAVE BEEN PREVENTED BY SIMI YOU THINK ABOUT IT THERE ARE NO EXCUSES.

Tour

- Emergency Department
- Intensive Care Unit
- State Major Trauma Unit

Show it how it is....



Spinal Injuries and Rehab Unit

Respiratory complications

- Lack of mobility
- Bladder dysfunction
- Bowel dysfunction
- Sexual dysfunction
- -Pain
- Psychological considerations
- Loss of independence



Paraplegic Benefit Fund (PBF)



Anton Zappelli

'A car for me was a toy, something to have fun in, play with, not something serious"

Anton became a paraplegic when he allowed his girlfriend to drive his

car when she did not have a licence. Not long after she began driving, she lost control of the car on the dirt road and it overturned, landing on its roof.

Acknowledgements

Patients and their families

Emergency Dept nursing and medical staff

ICU nursing and medical staff

ICU Equipment PCA

Trauma Unit

Orthopaedic ward nursing staff

Neurological ward nursing staff

Trauma Resident

Patient Support Services

St. John Ambulance

Injury Survivors

Paraplegic Benefit Fund (Australia)

Ward XI

Physiotherapy

Clinical Psychology/Pastoral Care

Security

Catering Department

Trauma Registry

Facilities Management



But does PARTY work?



OUTCOMES OF AN INIURY AWARENESS AND PREVENTION PROGRAM



Banfield J1, Sharkey P1, Brenneman F1, Cote B2, O'Mara J3, Langford K5

Trauma Program, Sunnybrook and Women's College Health Sciences Centre, Ministry of Health, Ministry of Transportation, Toronto, ON, CANADA

INTRODUCTION

The P.A.R.T.Y. (Prevent Alcohol and Risk Related Trauma in Youth) Program was developed in 1986 for the community served by the Regional Trauma Centre at Sunnybrook and Women's College Health Sciences Centre in Toronto, Canada. The program consists of a oneday, in-hospital, injury awarmers and prevention program for 30-35 students, age 16 years and over. The puspose of P.A.R.T.Y. is to provide useful, relevant information to young people about injury (trauma) that will enable participants to recognize potential injury producing situations, make informed prevention oriented choices and adopt behaviours and actions that minimise risk.



The critical, dynamic relationship between choice, independence and injury is explored. Led by a multidisciplinary team of health care professionals the program introduces the students to patients with severe injuries and highlights mechanisms of injury prevention. The program begins at Sunnybrook & Women's and continues at a spiral cord rehabilitation hospital.

The purpose of this study was to determine if participation in the P.A.R.T.Y. Program reduced the incidence of driving related offences and injusies.

METHODS

The study group consisted of consenting students aged 16 years and older who attended the P.A.R.T.Y. Program from January 1993 to December 1997. The control group was made up of students matched from the same age group and geographic area who had not attended the P.A.R.T.Y. Program. Ontario Ministry of Health and Ontario Ministry of Transportation data were used to determine injuries and traffic offences in students three to seven years after P.A.R.T.Y. Program participation.

CONCLUSION

This study demonstrates beneficial effects of a program designed to modify aisk-related behaviours and decrease transatic injury in young people. Further study is required to determine if the benefits of P.A.R.T.Y. remain long-term.

RESULTS: ONTARIO MINISTRY OF HEALTH DATA

Control Group = 125,207 2721 (2.2%) # of admissions = # of deaths = 18

Study Group = 3,295 31 (0.9%) of deaths =

KEY MECHANISMS OF INJURY

Study Group

	(Control	Group			
	1993	1994	1995	1996	1997	TOTAL
Suicide Attempts Other Assent MV Traffie	160 126 71 100	177 118 79 70	195 93 83 86	178 82 87 75	181 109 75 60	891 538 395 391

RESULTS: ONTARIO MINISTRY OF TRANSPORTATION DATA

Study Group # of offences = 1360 (1.6%) 7 (0.3%) 85% of offences = speeding 10-20 over limit

Control	Group
# of offences = 2106	(1.9%)
# of offences = 2106 Alcohol = 63	(1.5%)
65% of offences = spee	ding 10-20 over limit

VISIT US AT

It was all the emotions you could ever feel solled up into one.

A life saving experience that everyone needs What I cousider to be a "bad day" is actually not to bad at all.

It made me realize how one little mistake can affect you for the sest of

your life. I never thought that could happen to a human body.

It was a very influential experience mainly because we were talking face to face with people that were ourse just like us.

Real, not like stuff on T.V.

This was the greatest experience for me because no other lecture or activity has ever hit me as hard as this program did.

The realization that you are not invincible.

A P.A.R.T.Y. DAY IN PICTURES













PTOT







www.partvprogram.com

Results from a ten-year analysis of a PARTY Program in Canada

(Banfield et al, 2004)

- 10% less likely to have a Speeding offence
- 75% less likely to have an alcohol offence
- 50% less likely to have a Seatbelt offence
- 10% less likely to have a subsequent Collision

(compared to control group)

P.A.R.T.Y. Program





PREVENT ALCOHOL AND ROSK RELATED TRAUMA IN YOUTH

Background/Introduction

The 'Prevent Alcohol Risk-related Trauma in Youth' (P.A.R.T.Y.) Program has been operational at Royal Perth Hospital since 2006. The aim of the Program is to promote injury prevention through reality education, enabling youth to explore the dynamic relationship between choice, independence and injury. A ten year analysis of a Program, operating in Canada found a 75% reduction in alcohol related offences, 50% reduction in seat belt offences and a 10% reduction in speeding offences within the student group that were exposed to the Program. (Banfield, 2004).

The P.A.R.T.Y. Program aims to empower youths to make choices to minimise risk-taking behaviour and to increase knowledge of the impact of injury on quality of life.

Method

Upon arrival to Royal Perth Hospital, data on baseline risk-taking behavious/attitudes is gathered from attendants via a questionnaire. Amongst the questions, they are asked to identify the likelihood of sustaining an injury due to risk taking activities and whether their behaviour will change as a result of attending the Program. On completion of the Program. the same questionnaire is used to ascertain any change. Attendees are also asked what they have leamt from the Program.

The Program is conducted weekly with a maximum of 30 youth per group. Participation is offered to all schools within the Perth Metropolitan area. Our target population is youth between the ages of 14 and 24. Sessions outside the school term are offered to the Juvenile Justice Service and external organisations that employ apprentices.

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- WHO (2007). Youth and Road Safety (Report). World Health Organization, Geneva, 2007

(Prevent Alcohol and Risk Related Trauma in Youth)

V Royal Perth

P.A.R.T.Y. Program

(Prevent Alcohol and Risk Related Trauma in Youth)

By the end of 5 had participate Perth Hospital.

Results

Age of studer



PARTY OF THE PARTY dynamic, interactive, tripley prevention program for teenagers. Seveloped in 1986 in Toronto, Canada, III has been executional at

The greatest incidence of death and injury occurs in the 15-24 year old age group and to the need recent to read to see . This is stor predominantly to road trauma. This program is a vital component in the growing in alcohol and risk related incidents.





Discussion

Data collected

taking behavio

ensuring that ti

impact of risk t

significantly re-

The Departme

2010 with the p

complies with t

"Our intention

implementation

Conclusio

This Program is

injury in alcoho

health of our community.

The program aims to empower youth to make choices that minimise risk-taking behaviour and increase knowledge regarding the impact of injury on quality of life.

Method

Participation is offered to all high schools in the Perth Metropolitan area. The program operates during school terms and is conducted weekly with a total of 30 students attending in any one session. The program comprises of a one day excursion to the hospital. On arrival, data on baseline risk-taking behaviour, knowledge and attitudes is gathered from students using a questionnaire. On completion of the program the same questionnaire is used to accertain any

- The Department of Heath Strategic Intent 2005-2010, Department of Health, Government of Western Australia, Australia
- WHO (2007). Youth and Road Safety (Report). World Realth Digardation, Genera, 2007

of death for 10-24 year days, (WHO, 2007), and Wastralia continues to have a right load

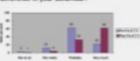
toll. Health Promotion and Prevention is arguably the most effective way to improve the

By the end of December 2008, a total of 2657 participants had attended the program. The following graphs demonstrate the results from 2024 high school students in Years. 10, 11 and 12 who had consented to complete the questionnaires.

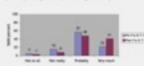
Age of students attending the P.A.R.T.Y Program



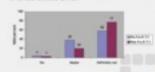
Do you think the RMTY Program will make a difference in your behaviour



What are the chances of sustaining a head or spinal cord injury due to participating in a risk taking activity?



Would you drive if you thought you were over the limit to drive?



Initial results from the data collected so for demonstrates that there is a change in knowledand attitude towards risk-taking behaviour. "Boad traffic crashes are the leading cause of death: for 10-24 year olds," (WHD, 2007), and Australia continues to have a high road toll. Health promotion and prevention is arguably the most effective way to improve the health of any

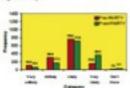
This Program is a vital component in the growing community effort to reduce death and injury in alcahol and mix related recidents. "Reed traffic creates are the leading cause of deets for 10-24 year sids." (MMC, 2007), and Australia continues to have a high read toll. Health Promotion and

SPARES AND AND AND AND AND AND ASSESSED TRAVERS AS THE

1400 youth am at Royal

What are the chances of sustaining a head or spinal cord injury because of participating in a risk taking activity?

Y Program



Il make a

The top three lessons the students learnt



ed so far demonstrates that there is a change in attitude towards risk. rogram can be attributed to the various resources working together Nest Australians are given the best chance to learn about the realistic ogram brings together many partnerships and has the potential to ur in youth, especially on the road...

stablished six priority areas documented in their Strategic Intent 2005-Ithier, longer and better lives for all Western Australians. The Program leathy Communities:

lifestyles, working on the prevention of ill health, and the ted health promotion Program."

w growing community effort to reduce death, and injury in alcohol. crashes are the leading cause of death for 10-24 year olds," (WHO, a high road tot. Health Promotion and Prevention is arguably the most

0.000 VT ALCOHOL AND RISK RELATED TRAUN



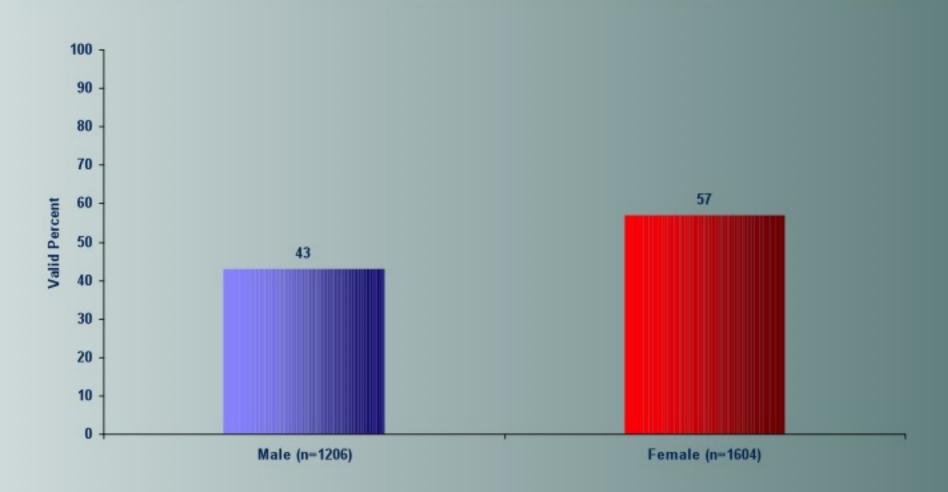




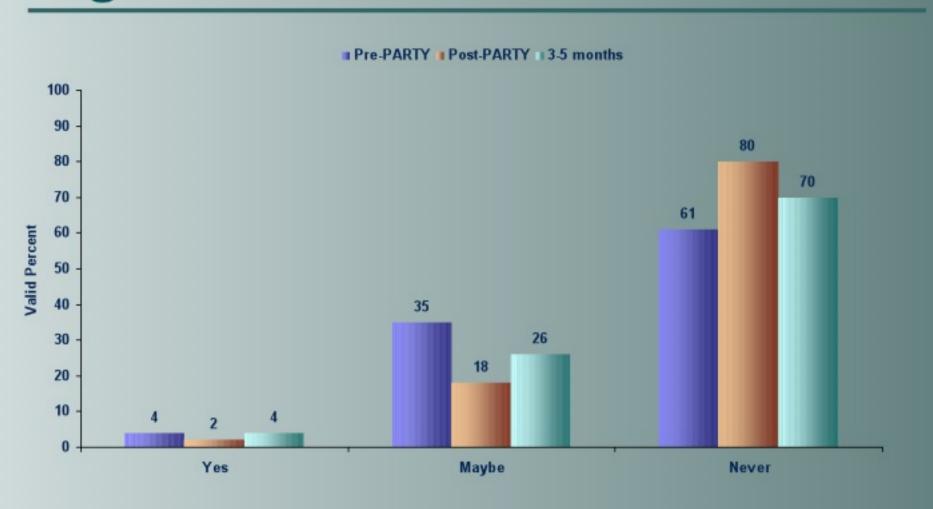
Delivering a Healthy WA



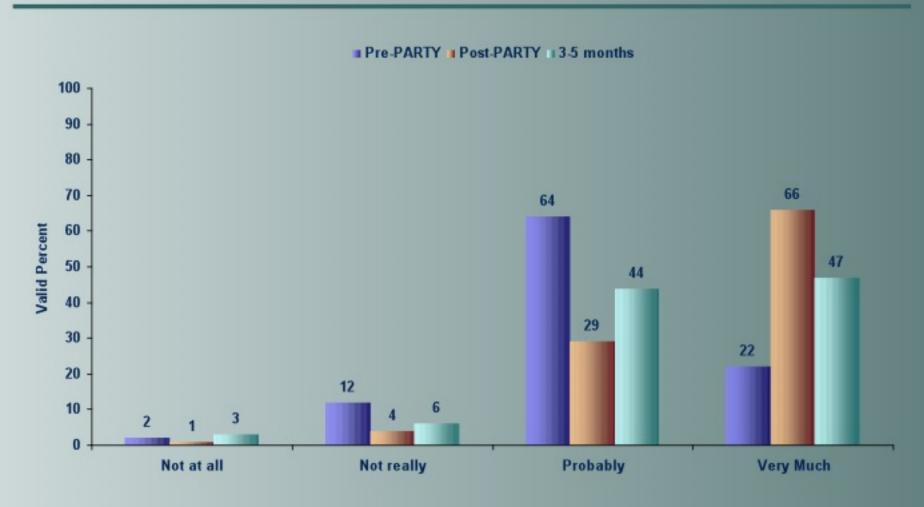
2,810 High School Students



Would you drive whilst over the legal alcohol limit?



Do you think PARTY will make a difference to the way you think about your actions in the future?



Students' responses [sic]

"In short I have learnt don't drink and drive, wear a seat belt, don't drive like an idiot, don't take peer pressure, and behave and be careful on the roads because your not putting just urself at risk but everyone else on the roads too."

"I personally do not want to end up in a wheel chair for the rest of my life unable to do many or everything for myself, or see any of my friends like that and i will do all i can to set a **god** example by not crossing that stupid line."

"We were shown the methods of going to the toilet when paraletic...

...having a greater respect for people who are paraletic and the process which they have to go through, the recovery alone being an epic battle."

And finally...

"After what I saw that day I'm not sure yet what impact it will have on me. I hope to make better decisions in the future."

Long term evaluation

- Juvenile Justice retrospective cohort study 2006-2009 (censor date 30 June 2010) Repeat traffic-related offences (Police Department)
- Juvenile Justice 2006-2010 (censor date 31 Dec 2013) Hospital admissions (WA Data Linkage Unit)
- Student 5-year prospective follow-up (NHMRC pending) Hospital admissions (WA Data Linkage Unit)

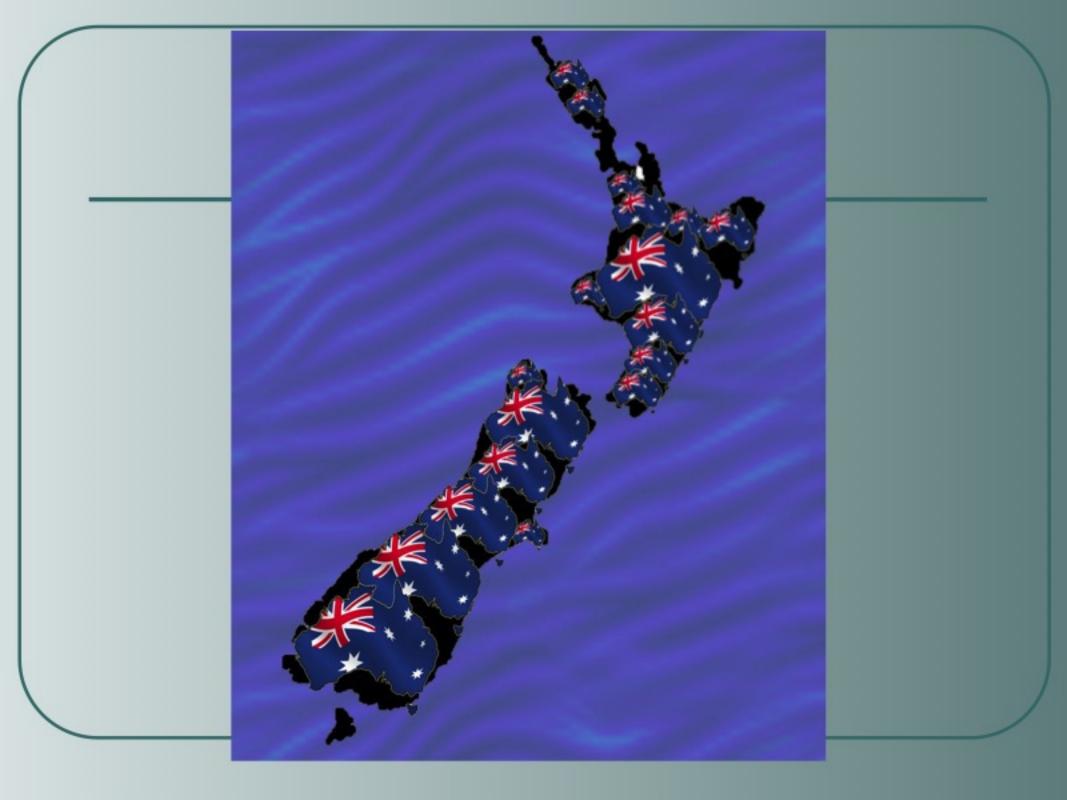
So what is the best approach to this problem?

"Popular Approaches Are Ineffective, effective Approaches Are Politically Impossible"

By Robin Room, Centre for Social Research on Alcohol and Drugs, Stockholm University, 2000.

Systems approach

- Parental Intervention
- Risk perception training
 - Simulated driving programmes
- Social marketing campaigns
 - "Friends Don't Let Friends Drive Drunk"
- School training programs
- Graduated Driver Licensing Systems (GDLS)
- Vehicle restrictions
- Alcohol interlocks
- Modifying the road environment
- Improved public transport
- Legislation:
 - Stricter penalties or demerit point systems



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Other injury prevention initiatives



Thankyou!

(How many glasses of wine did you have with lunch?)



Call a cab before it's home to