

**TRAUMA  
IS  
NO**

**ACCIDENT**



**Phil Blyth**

# Seat belts

- Reduce risk of death or serious injury by 45- 60%

# Prevention

- 49% reduction in child pedestrian deaths from 1978 to 1992.
- Due to decrease in amount of walking.



Hillman M, Adams J, Whitelegg J. One false move... a study of children's independent mobility. London: Policy Studies Institute, 1991.

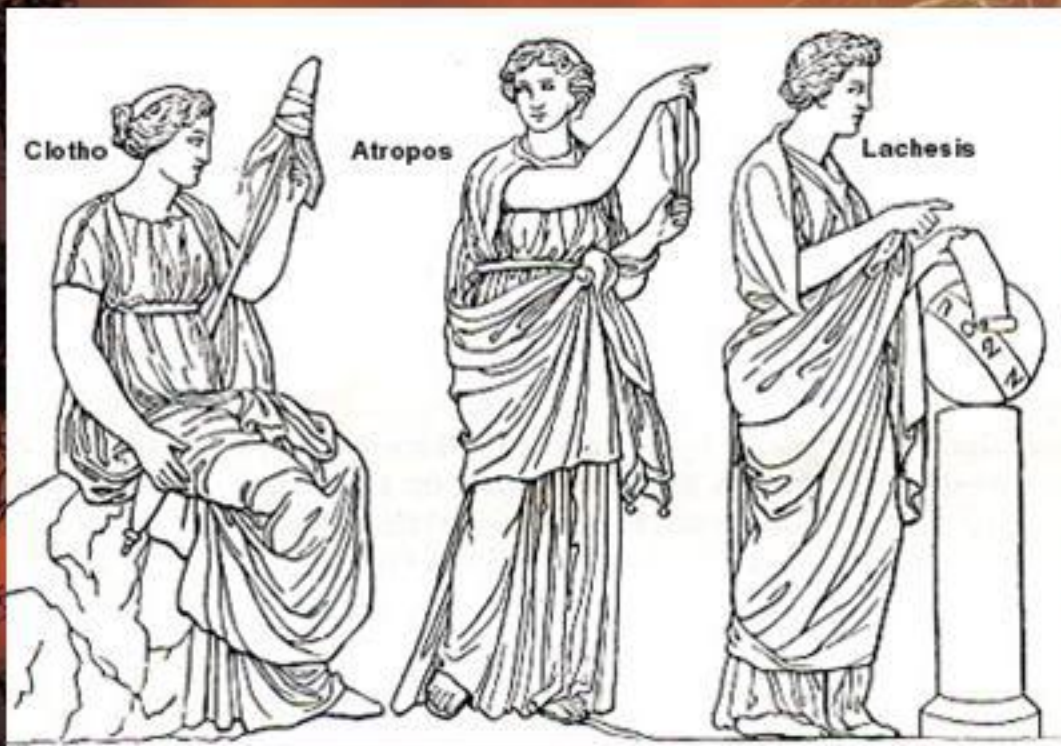
# WHO IS AT FAULT

- The gods





# The gods



# WHO IS AT FAULT

- The gods
- The mortal



# The mortal









# WHO IS AT FAULT

- The gods
- The mortal
- The environment



# The environment



# WHO IS AT FAULT

- The gods
- The mortal
- The environment
- The designer



# TRAUMA

- A disease of the poor nations





# The designer



# WHO IS AT FAULT

- The gods
- The mortal
- The environment
- The designer
- The government



# WHO IS AT FAULT

- The gods
- The mortal
- The environment
- The designer
- The government
- The medical team



# The medical team

- Trauma is no accident...but is our training?





# Analysis Required



# Case 1 – A sweet seat







## Case 3 A sudden gust of wind

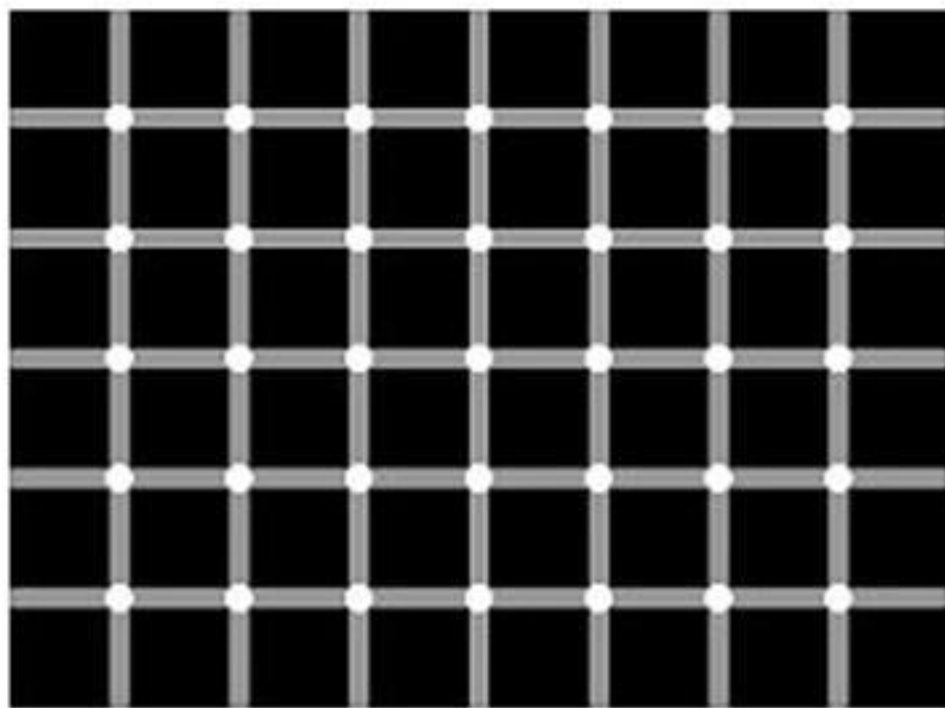






# Perception

- What is unsafe?



Count the black dots! :o)

# Rate of injury related deaths

per 100 000 per year

Mechanism	High-income Countries	Low-income Countries
Road traffic injury	13.6	22.1
Poisoning	2.2	5.8
Falls	8.3	4.0
Fires*	1.0	4.5
Drowning	1.7	8.4
Other unintentional injuries†	8.3	15.2
Self-inflicted injuries	13.3	13.5
Violence	2.8	9.6
War	0.02	6.0
All injury-related deaths	51.2	89.1

**CAUTION**

**THIS SIGN HAS  
SHARP EDGES**

**DO NOT TOUCH THE EDGES OF THIS SIGN**



**ALSO, THE BRIDGE IS OUT AHEAD**





# Conclusion



# Rate of injury related deaths

per 100 000 per year

Mechanism	High-income Countries	New Zealand	Low-income Countries
Road traffic injury	13.6	17.9	22.1
Poisoning	2.2	0.7	5.8
Falls	8.3	7.3	4.0
Fires*	1.0	1.1	4.5
Drowning	1.7	3	8.4
Other unintentional injuries†	8.3		15.2
Self-inflicted injuries	13.3		13.5
Violence	2.8		9.6
War	0.02		6.0
All injury-related deaths	51.2		89.1

# NZ Rate of injury related deaths

Motor Vehicle Traffic	2723
Fall	1116
Drowning/Submersion	454
Transport, Other	204
Suffocation	183
Fire/Burn	162
Other Causes	140
Poisoning	106
Unspecified	95
Struck By, Against	83
Machinery	82
Pedestrian, Other	69
Natural/Environmental	59
Firearm	20
Cut/Pierce	17
Pedal Cyclist, Other	10
	5523

**Total for years  
1994-1998  
Population 3.81 million**

[http://www.stats.govt.nz/domino/external/web/prod\\_serv.nsf/HtmlDocs/National+Population+Estimates+Tables](http://www.stats.govt.nz/domino/external/web/prod_serv.nsf/HtmlDocs/National+Population+Estimates+Tables)

<http://www.otago.ac.nz/ipru/NZStats2/nzfutot.html>

# TRAUMA

- A disease of the poor nations
- The leading cause of death in SONS younger than 35



IPRU: Statistics: Leading Causes of Death and Hospitalisation: Death - Microsoft Internet Explorer provided by NetGuide Magazin

File Edit View Favorites Tools Help Google

Back Forward Stop Search Media Address http://www.otago.ac.nz/ipru/Stats/LC10FNZ2.html Go

Links Google Shortcut (2) to test.wrl Shortcut to index10.htm High Scores Shortcut to dhs24 Shortcut to test.wrl Shortcut to rotatehead6.wrl

IPRU UNIVERSITY OF OTAGO

## Ten Leading Causes of Death, New Zealand 1994-1998

Click any link for details.

Rank	<1	1-4	5-9	10-14	15-24	25-34	35-44	45-54	55-64	65+	All ages
1	Perinatal 32.7%	<a href="#">Unintent</a> 41.4%	<a href="#">Unintent</a> 42.9%	<a href="#">Unintent</a> 34.6%	<a href="#">Unintent</a> 44.8%	<a href="#">Unintent</a> 31.1%	Cancers 30.8%	Cancers 43.3%	Cancers 44.0%	Heart 47.4%	Heart 41.9%
2	Congenital 25.0%	Congenital 14.1%	Cancers 24.0%	Cancers 20.8%	<a href="#">Suicide</a> 29.1%	<a href="#">Suicide</a> 23.0%	Heart 22.9%	Heart 30.0%	Heart 34.5%	Cancers 25.2%	Cancers 27.4%
3	Ill-defined 24.2%	Cancers 11.2%	Congenital 9.6%	<a href="#">Suicide</a> 12.8%	Cancers 7.3%	Cancers 15.8%	<a href="#">Unintent</a> 15.6%	<a href="#">Unintent</a> 6.2%	Respiratory 5.9%	Respiratory 12.3%	Respiratory 10.2%
4	<a href="#">Unintent- ional</a> 5.1%	Infectious 8.0%	Nervous 9.2%	Nervous 11.5%	Heart 3.1%	Heart 9.2%	<a href="#">Suicide</a> 11.6%	<a href="#">Suicide</a> 4.2%	Endocrine 4.9%	Digestive 3.0%	<a href="#">Unintent</a> 4.0%
5	Respiratory 3.9%	Nervous 7.4%	<a href="#">Homicide</a> 3.8%	Congenital 6.4%	Mental 3.0%	Nervous 3.7%	Nervous 3.2%	Endocrine 4.1%	<a href="#">Unintent</a> 2.5%	Endocrine 2.7%	Endocrine 3.0%
6	Nervous 3.0%	Respiratory 5.50%	Heart 3.1%	Heart 4.2%	Nervous 2.7%	Mental 3.0%	Endocrine 3.2%	Respiratory 2.9%	Digestive 2.2%	Mental 2.4%	Digestive 2.7%
7	Infectious 2.3%	Ill-defined 3.8%	Endocrine 2.3%	<a href="#">Homicide</a> 2.6%	<a href="#">Homicide</a> 2.5%	<a href="#">Homicide</a> 2.8%	Respiratory 2.6%	Nervous 2.3%	Nervous 1.5%	Genito- urinary 1.7%	Mental 2.1%
8	Cancers 0.9%	<a href="#">Homicide</a> 2.9%	Infectious 1.9%	Endocrine 1.9%	Congenital 1.9%	Infectious 2.6%	Infectious 2.40%	Digestive 2.1%	<a href="#">Suicide</a> 1.5%	<a href="#">Unintent</a> 1.6%	<a href="#">Suicide</a> 2.0%
9	<a href="#">Homicide</a> 0.9%	Heart 2.5%	Respiratory 1.2%	Infectious 1.6%	Respiratory 1.3%	Endocrine 2.2%	Mental 2.0%	Infectious 1.3%	Genito- urinary 0.8%	Nervous 1.5%	Nervous 1.7%
10	Heart 0.7%	Endocrine 1.1%	Genito- urinary 0.8%	Mental 1.0%	Endocrine 1.2%	Congenital 1.7%	Digestive 1.8%	Mental 0.8%	Infectious 0.7%	Musculo- skeletal 0.6%	Genito- urinary 1.4%
11- 20	1.5%	2.5%	0.4%	2.6%	3.1%	5.1%	3.8%	2.8%	1.6%	1.6%	3.7%
Total	1914	475	261	312	2454	2651	3819	7500	14122	103584	137302

Data Source: Mortality and Demographic Data 1994-1998, NZHIS, Ministry of Health.

\*Undetermined and other causes.



# TRAUMA

- A disease of the poor nations
- The leading cause of death in SONS younger than 35
- Preventable ?



# Prevention

- **Passive**
  - Safety cap on medicines
- **Active**
  - Warning note

