NZ Major Trauma National Clinical Network

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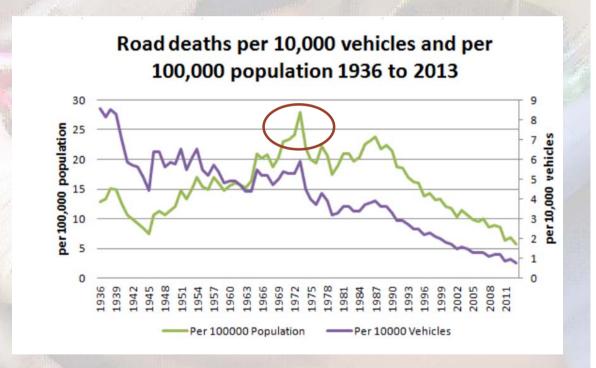
Can it make a difference?



What was trauma like in the 1970s?

- No trauma system in NZ
- Injury prevention initiatives limited
- Road traffic safety measures minimal
 - No median barriers on motorways an in particular the harbour bridge
 - No airbags
 - No mandatory back seat restraints
 - Lap belts in the back seats
- Injury care opportunistic
 - No ATLS
 - No DSTC

Road fatality chart



Clinical care provided without guidelines/checklists

- Injuries were addressed in a priority determined by the clinicians caring for the patient
- Quality of care critically dependent on the experience and skills of the individuals concerned
- Significant variations in quality of care in relation to geography and location.



New Zealand's road fatality rates in the 1980s

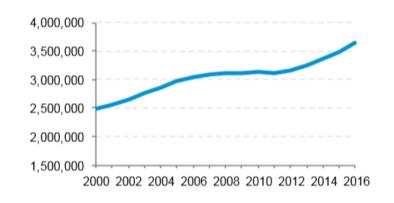
NZ's Relative Road Safety Record

Country	Deaths/100,000 population	Deaths/10,000 vehicles	Vehicles/1000 population
NZ	21.1	3.9	545
US	19.1	2.7	711
Australia	18.6	3.4	540
Canada	15.8	2.8	561
Germany	13.1	3.0	440
UK	10.3	3.2	322
Japan	10.3	2.6	403

What that would mean if nothing changed....

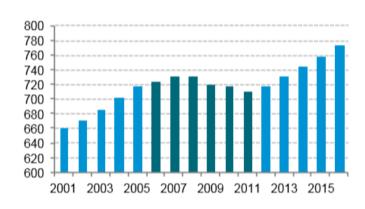
Light fleet size

The light fleet has grown significantly since registrations first picked up in 2013.



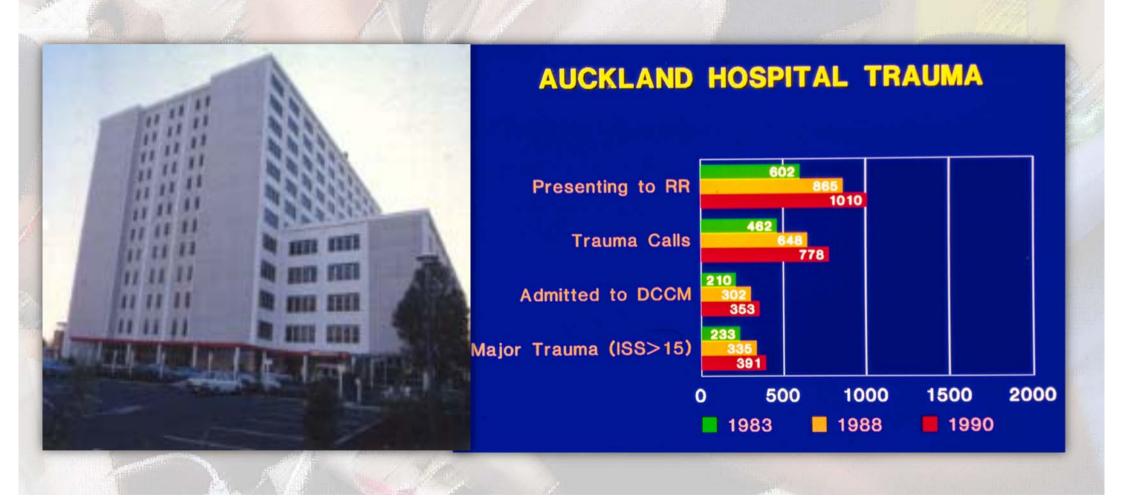
Light vehicles per 1000 people

Vehicle ownership rates started increasing in the second half of 2012 after dropping from 2007 to 2011, and have kept on increasing. They are now at their highest ever level.



New Zealand would have had 1443 deaths in 2017!

What did this mean at Auckland Hospital in the 1980s?



Mortality after trauma was high

- Trauma presentations to Auckland Hospital resus room in 1983
- 602 patients of whom 223 subsequently shown to have major trauma.
- Mortality 60/223 (26.9%)



Early death from exsanguinating haemorrhage was common

Table I. Causes of death (N=60)

Cause of death	N	Mean age	Mean ISS
CNS injury	31 (51%)	35	39
Exsanguinating haemorrhage (closed injury)	16 (27%)	41	55
(penetrating injury)	3 (5%)	32	_
Burns Multiple organ failure	4 (7%)	33	44
secondary to sepsis	2 (3%)	36	34
Pneumonia (sorted out not to receive active			
therapy)	4 (7%)	70	33

".....there was something wrong with the system and the system had to be changed."

- What can happen and how can the Network help
 - Advocacy
 - Training
 - Clinical improvements
 - Regionalisation
 - National governance
 - Funding
 - Overall system change



Dear TVNZ,

I was disappointed to hear the word "accident" used in relation to a major crash in Taranaki this am. We have to use appropriate words if we as a society are to address the issue of road crash systematically. I attach here the text I sent to the NZ Herald earlier last week about the same issue.

Using the words "accident" to describe a road crash and "toll" to describe road deaths, as in Monday's editorial, is both inaccurate and unhelpful. An accident can be defined as an event that happens by chance or is without apparent or deliberate cause and a toll can be defined as a payment or fee exacted by the state, or others, for some right or privilege. "Accidents" are perceived as unavoidable and the road "toll" could be considered the inevitable price society has to pay for using the roading network. Using words like accident and toll in the context of road crash fatalities creates an unfortunate perception that these are beyond our control. Sadly this is usually not the case and very often the deaths are a direct or indirect result of unlawful or inappropriate driving behaviour in vehicles and roading conditions that do not mitigate the outcome. Until we consider road crash deaths as preventable and use English language that supports that position we have little chance of seriously addressing the climbing road fatality rate.

Ian Civil Clinical Leader, Major Trauma National Clinical Network

Advocacy



Christine Wilton (help.TVNZ)

Jul 5, 17:51 NZST

Hi there

We were very interested to read your comments about this wording. Thanks for giving us this feedback. I have passed on your comments to the News and Current Affairs producers.

They will be interested in your email and will only contact you if they would like more information.

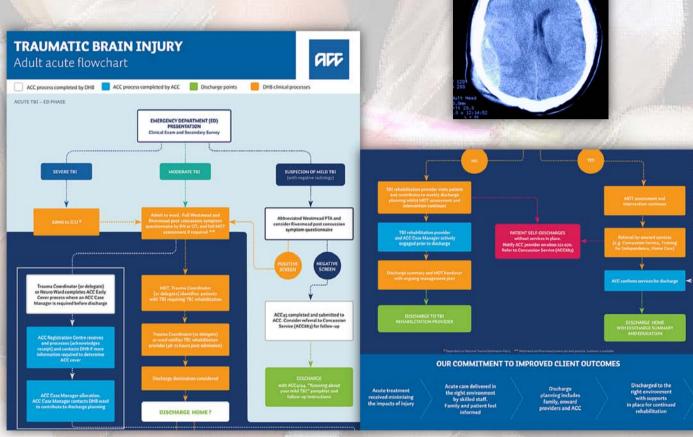
Thanks again.

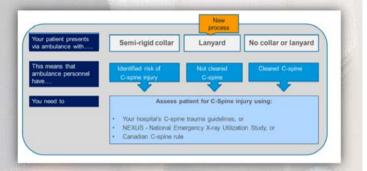
Kind regards

Christine Wilton TVNZ



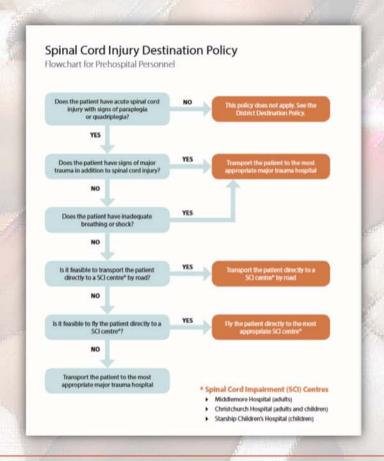
Clinical improvements



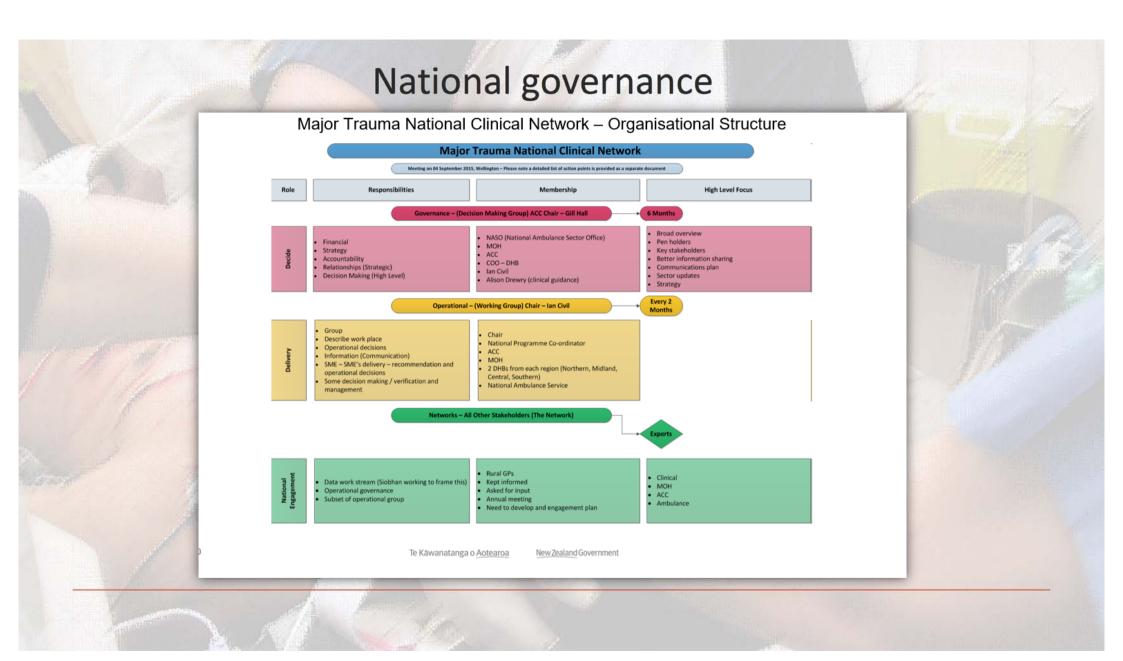




Regionalisation









Business Case

Funding to achieve a contemporary

New Zealand Trauma System

Presented to Accident Compensation Corporation

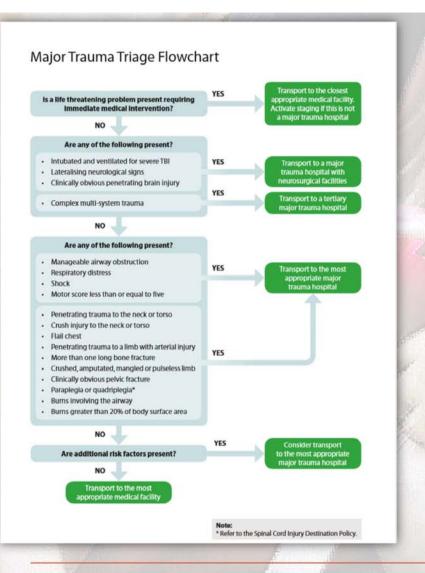
February 2018

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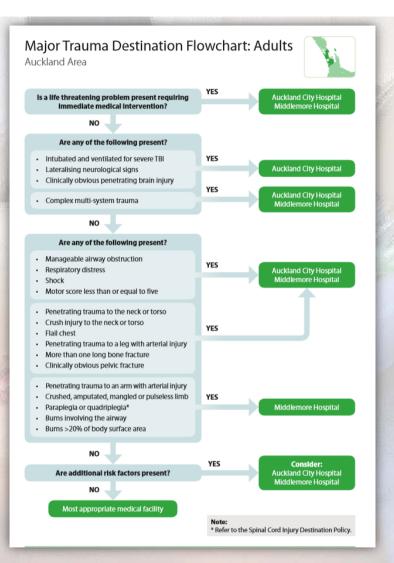
Siobhan Isles National Programme Manager UNISYS Building, Level 2, 650 Great South Road

Funding

- Leadership
- Registry
- Academic research direction
- Research support
- Data analysis and reporting
- Quality improvement expertise
- Administration



Overall system change





EVENTS

RESOURCES

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