

# Wintec and Midland Trauma System Research Collaboration

Centre for Health and Social Practice









## Taranaki Trauma Service

Complex patient management
Multi-service coordination
Risk mitigation
Data collection
Quality improvement system
change
Local governance
Research

## Lakes Trauma Service

Complex patient management
Multi-service coordination
Risk mitigation
Data collection
Quality improvement system
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DHB

### MIDLAND REGIONAL TRAUMA SYSTEM HUB

Regional governance
Data entry and management
Quality control
Clinical guidelines
Quality improvement programme
Regional and national representation
Regional case review facilitation
Training and education
Research centre
Administration

Reporting

## Bay of Plenty Trauma Service

Complex patient management
Multi-service coordination
Risk mitigation
Data collection
Quality improvement system
change
Local governance
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### Hauora Tairāwhiti Trauma Service

Complex patient management
Multi-service coordination
Risk mitigation
Data collection
Quality improvement system
change
Local governance

Research

## Waikato Trauma Service

Complex patient management
Multi-service coordination
Risk mitigation
Data collection
Quality improvement system
change
Local governance
Research

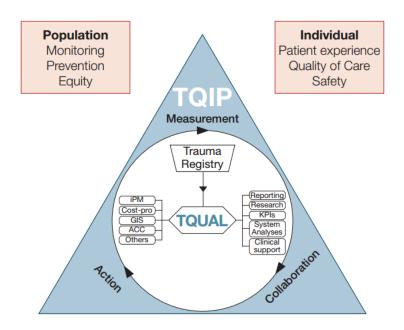




- Clinical work
- Data collection
  - Admission to an MTS in-hospital bed as a result of, and within 7 days of injury.
  - Death in hospital following injury (including deaths in the emergency department)
- Midland Trauma Registry
  - Over 24,000 documented patient journeys
- Hub services
  - Quality Improvement



Flip chart



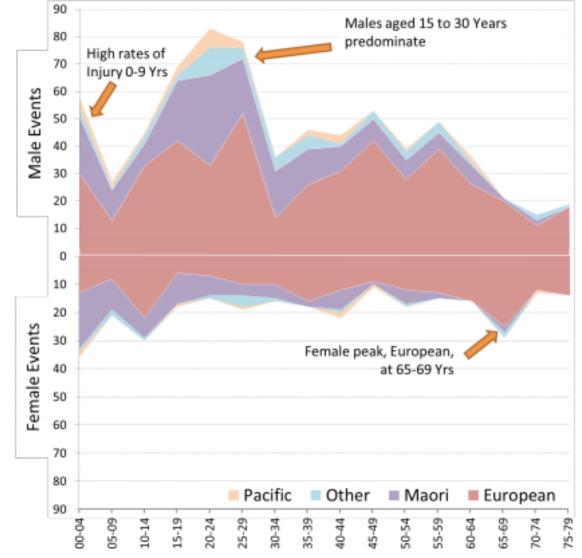
### System

Continuous Service Integration and Optimisation
Cost Effectiveness
Governance



## Data, data, data...

Figure 1. Event volumes by age, gender, and ethnicity: Midland Region, 1 July 2015 - 30 June 2016



## Trauma in Waikato

FOCUS - ROAD TRAFFIC CRASHES | IN-PATIENTS





#### KEY POINTS



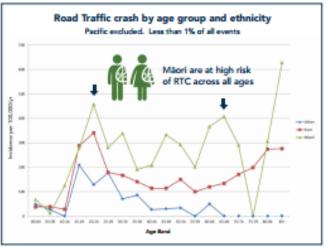
Number of transport events is rising

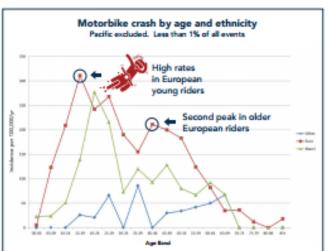


Māori at high risk of road traffic crash across all age groups



NZ European at high risk of motorbike crashes in all age groups







#### Between 2012 and 2015

#### 1485

Waikato domiciled patients were hospitalised in Waikato Hospital following transportrelated events.

#### Of these



40% (597) Road traffic crashes (RTC)



32% (475) Motor bike crashes (MBC)



20% (293) Pushbike events







## Wintec and MTS collaboration

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- To establish the individual and societal impacts of trauma experiences by survivors of serious injury within the Midland region of New Zealand
- To explore their interactions with the health and social care systems and compensation providers
- To evaluate the factors they perceive to facilitate and impede recovery after serious injury in a New Zealand context
- To inform future research projects

## Opportunities for collaboration?

## International links:

- ✓ Prof Belinda Gabbe, Head of the Emergency and Trauma Research Unit in the Department of Epidemiology and Preventive Medicine at Monash and a Chief Investigator of the Victorian State Trauma Registry
- Opportunity to work with:
  - ✓ communities and the Design Factory NZ to co-design solutions to identified barriers to recovery
  - ✓ policy makers, government agencies, health and social care providers and communities to translate this research/solutions into practice