



SEVERE PAEDIATRIC TRAUMA; TRANSFERRING FROM MIDDLEMORE TO STARSHIP. WHAT'S THE STORY?

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HAMILL
STARSHIP HOSPITAL

TRAUMA

Burden of trauma in NZ

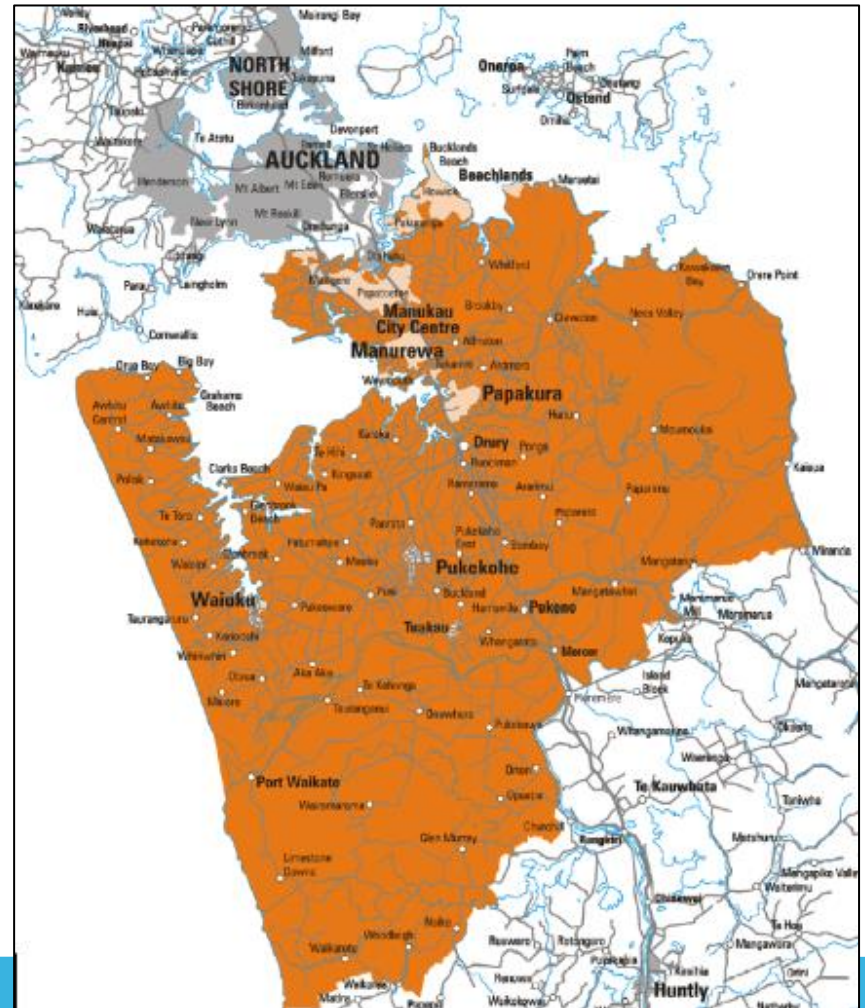
Trauma services

- Improve morbidity and mortality

Paediatric trauma in Auckland

- Burns Centre at Middlemore Hospital
- Trauma Centre at Starship Hospital
 - PICU
 - Paediatric Surgery
 - Paediatric Neurosurgery

ATLS principles



METHODS

Retrospective

- July 2006 – August 2014

Injury Severity Score >15

Injured in South Auckland and transported via Middlemore Hospital

Data from

- Paediatric Trauma Registry
 - EDS
 - 3M
- 

DEMOGRAPHICS

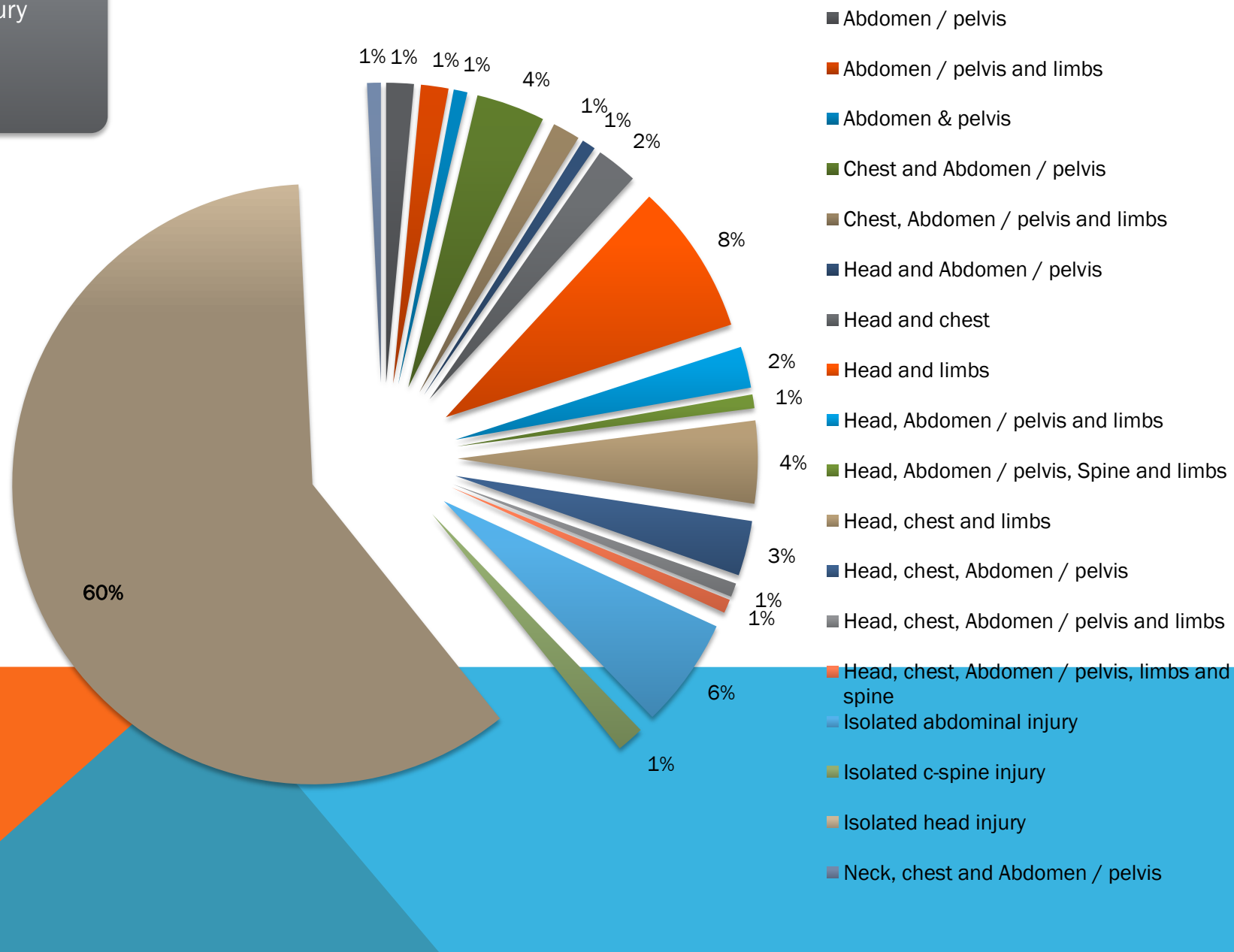
Total: 135

- Males 94 (70%)
- Median Age 5 years (IQ range 1 – 14 years)
- Median ISS 17 (IQ range 16 – 50)



Injury

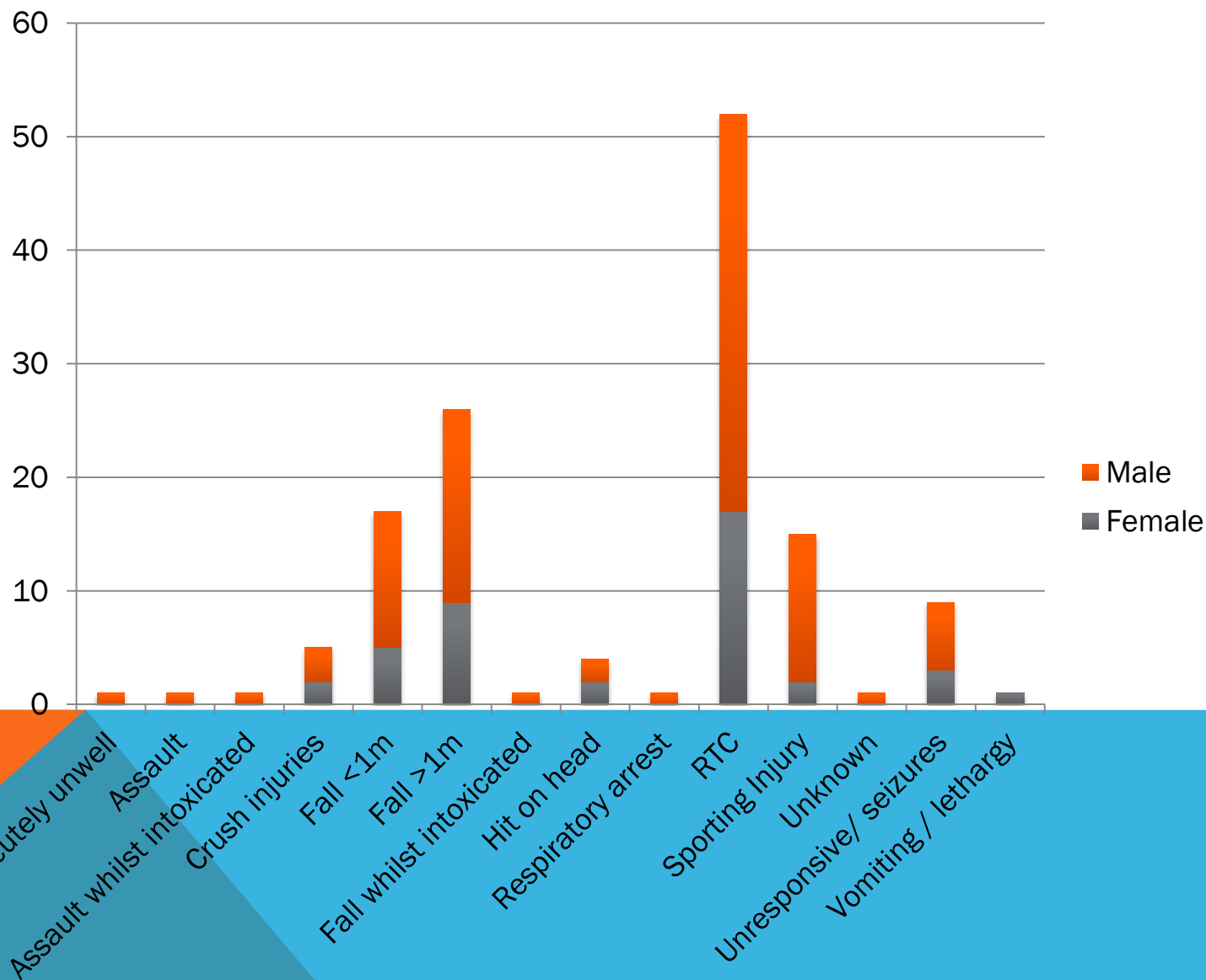
SITE





Injury

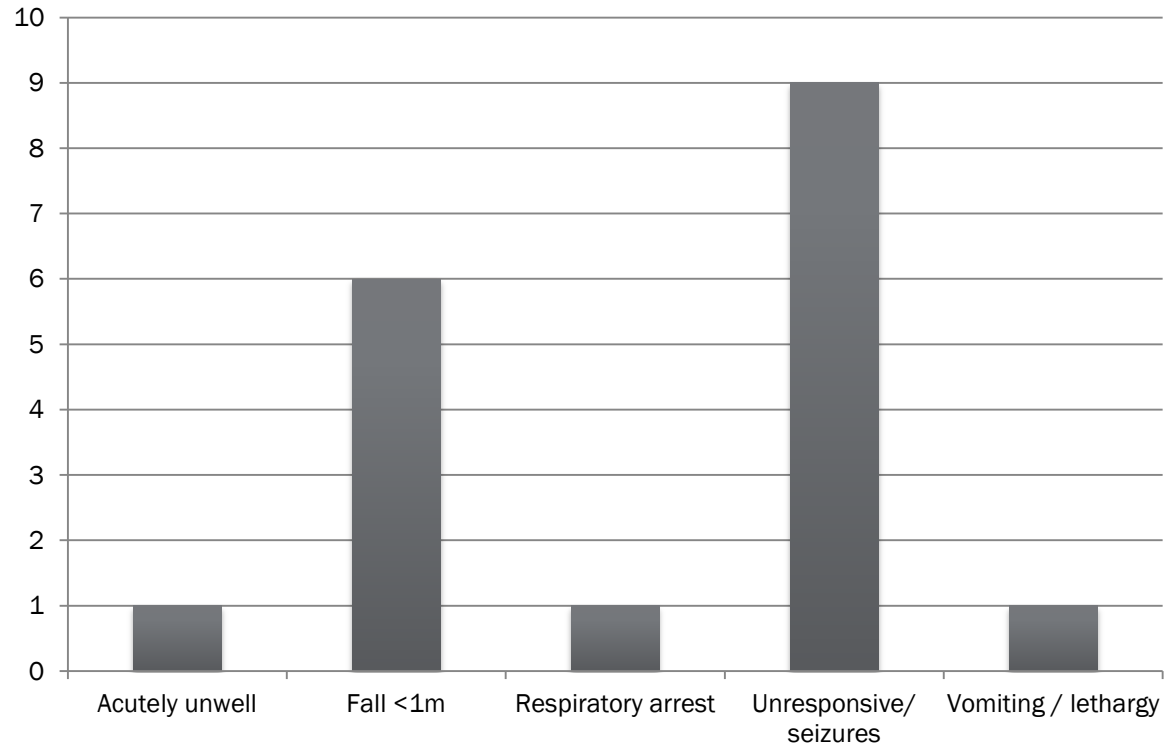
MECHANISM

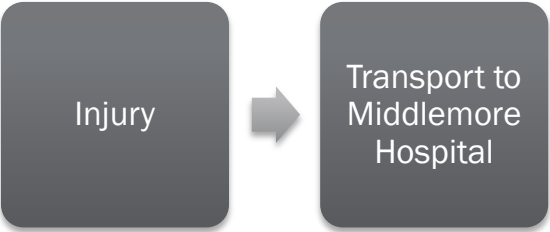


IMAGE



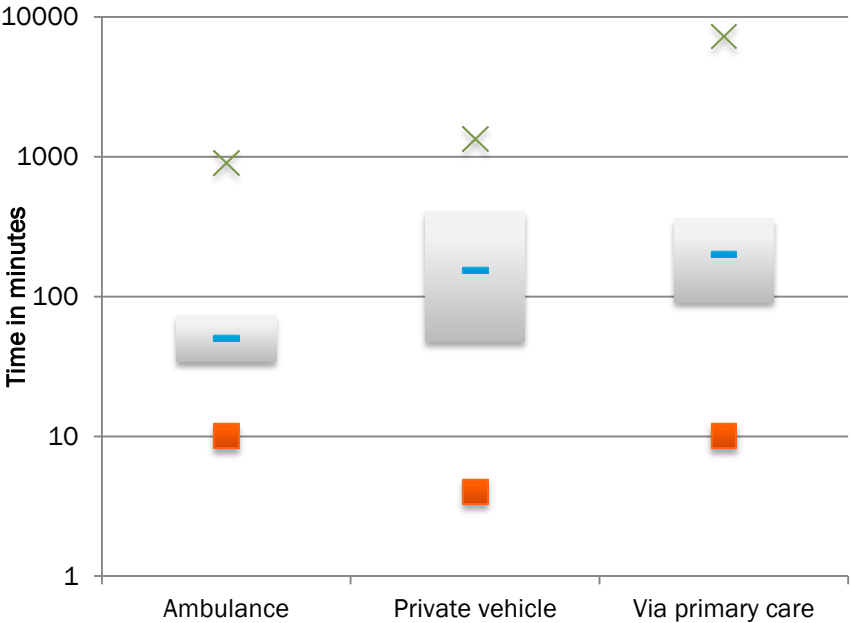
PRESENTING COMPLAINT OF NAI PATIENTS





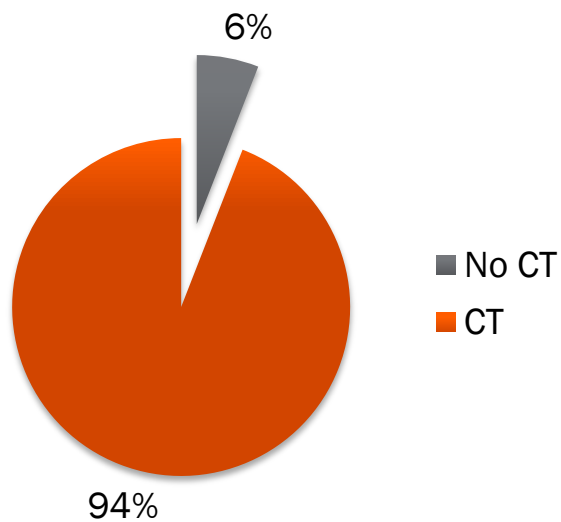
| Transport | Number |
|---------------------------|--------|
| Ambulance | 81 |
| Private vehicle | 34 |
| Via primary care facility | 14 |
| Unknown | 6 |

TRANSPORT TIMES - INJURY TO ARRIVAL AT MIDDLEMORE HOSPITAL

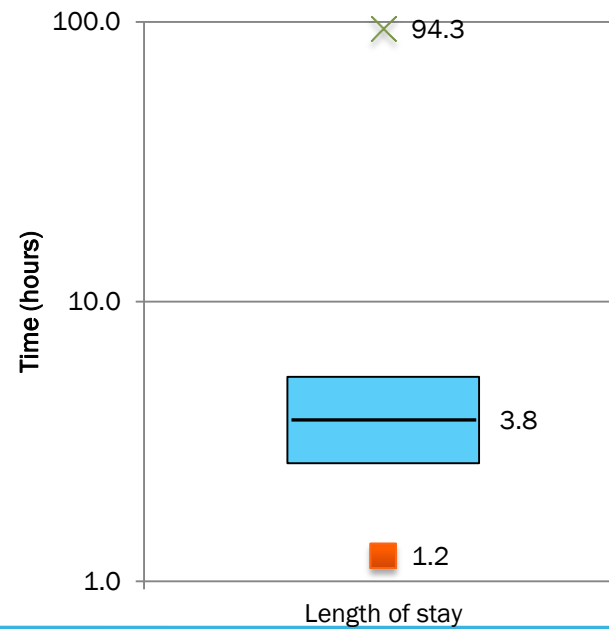


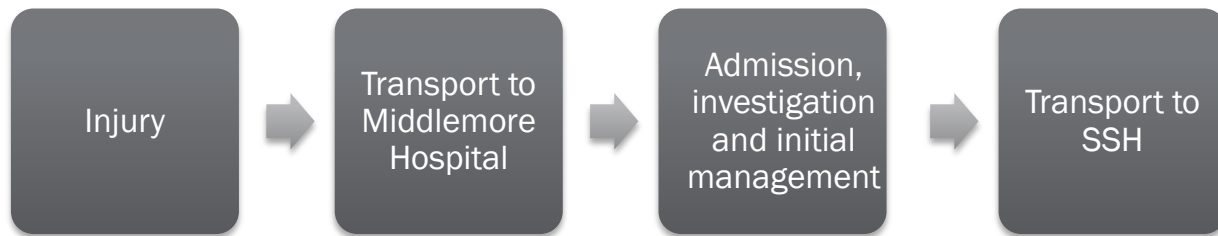


USE OF CT IN TRANSFERRED PATIENTS

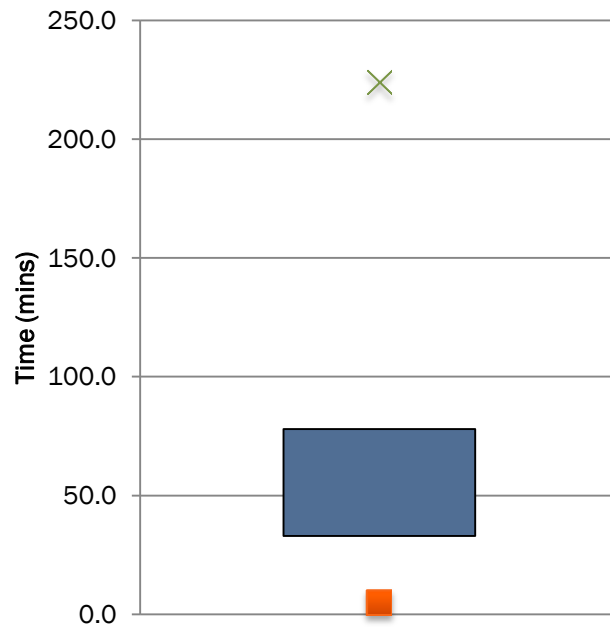


LENGTH OF ADMISSION AT MIDDLEMORE HOSPITAL





TRANSPORT TIMES

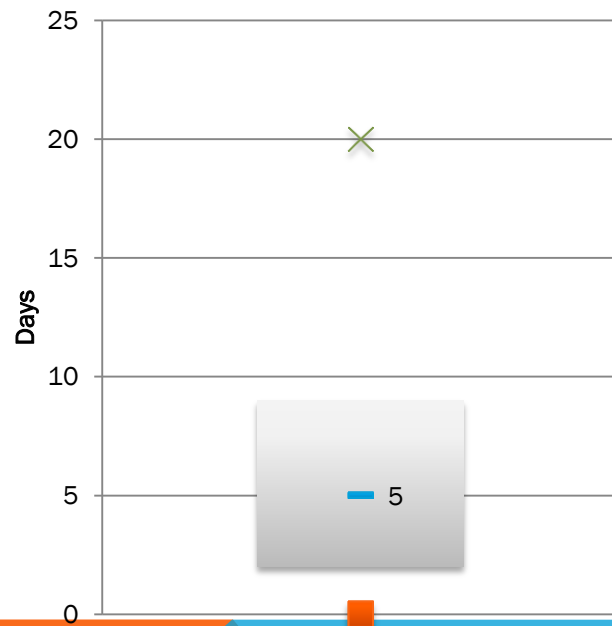


MAP





LENGTH OF ADMISSION

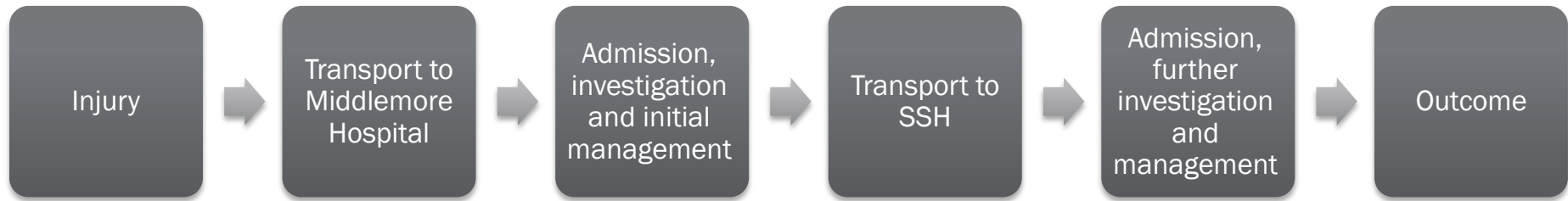


67 (50%) required a PICU admission

- Median 1.6 days
- Max 28 days

57 (42%) required surgery

9 (7%) died



| Discharge destination | Number | Percentage |
|-----------------------|--------|------------|
| Home | 117 | 86.7 |
| Rehabilitation | 7 | 5.2 |
| Other | 2 | 1.4 |

SUMMARY

Majority of severe paediatric trauma in this cohort involves a significant head injury

Transit to Starship in 7 hours (median)

94% undergo CT prior to arrival

Majority are discharged home in around a week

