# Trauma Reception and Resuscitation - 'Time for a New Approach'

Submission date	Recruitment status  No longer recruiting	Prospectively registered		
16/02/2005		☐ Protocol		
Registration date	Overall study status	Statistical analysis plan		
06/01/2006	Completed	[X] Results		
<b>Last Edited</b> 31/01/2019	Condition category Injury, Occupational Diseases, Poisoning	[] Individual participant data		
31/01/2019	IIIIUIV. Occupational Diseases. Poisoning			

## Plain English summary of protocol

Not provided at time of registration

# Contact information

### Type(s)

Scientific

#### Contact name

Prof Mark Fitzgerald

### Contact details

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# Additional identifiers

**EudraCT/CTIS** number

**IRAS** number

 ${\bf Clinical Trials. gov\ number}$ 

NCT00164034

Secondary identifying numbers

N/A

# Study information

#### Scientific Title

Trauma resuscitation errors and computer-assisted decision support.

### Acronym

TR&RP

### **Study objectives**

The introduction of real-time computer prompted algorithms will result in a measurable reduction in management errors associated with reception and resuscitation of major trauma patients, demonstrating that a reduction in management errors translates into a reduction in morbidity and mortality.

### Ethics approval required

Old ethics approval format

### Ethics approval(s)

Not provided at time of registration

### Study design

Treatment, Randomized, Open Label, Active Control, Parallel Assignment, Safety/Efficacy Study

### Primary study design

Interventional

## Secondary study design

Randomised controlled trial

### Study setting(s)

Hospital

# Study type(s)

**Treatment** 

### Participant information sheet

### Health condition(s) or problem(s) studied

Traumatic injury

#### **Interventions**

A historical control to assess the Hawthorne effect.

A randomised controlled trial comparing trauma resuscitation supported by real-time computer prompted algorithms against those without.

### Intervention Type

Other

#### Phase

**Not Specified** 

### Primary outcome measure

The primary benefits will be:

- 1. The development of evidence-based algorithms for trauma resuscitation
- 2. The development of real-time, computer aided, data collection during trauma resuscitation
- 3. Testing the hypothesis that the introduction of real-time, computer-prompted algorithms will result in a measurable reduction in management errors associated with reception and resuscitation of major trauma patients
- 4. Demonstrating that a reduction in management errors translates into a reduction in morbidity and mortality

# Secondary outcome measures

The secondary benefits will be:

- 1. Standardising, publishing and distributing resuscitation documentation, interventions and diagnoses
- 2. Critical evaluation of the cost-benefit of trauma resuscitation video audit
- 3. Rejuvenation of resuscitation research through the development of a standardised environment

### Overall study start date

01/01/2005

### Completion date

30/09/2007

# Eligibility

### Key inclusion criteria

1162 test and control trauma cases presenting to the Trauma Centre of the Alfred Hospital.

### Participant type(s)

**Patient** 

#### Age group

Adult

#### Sex

Both

### Target number of participants

1162

#### Key exclusion criteria

Stable trauma patients (i.e. pulse rate <100/minute, mean arterial pressure [MAP] >70 mmHg, Hb >70, temperature >35 °C and <37.5 °C, SpO2 >92%, Glasgow Coma Score [GCS] >13) undergoing secondary transfer from another hospital, where trauma occurred >6 hours prior to arrival, will be excluded.

### Date of first enrolment

01/01/2005

### Date of final enrolment

30/09/2007

# Locations

# Countries of recruitment

Australia

Study participating centre
The Alfred Hospital Emergency and Trauma Centre
Prahran
Australia
3181

# Sponsor information

# Organisation

The Victorian Trauma Foundation (Australia)

### Sponsor details

P.O. Box 2751 Melbourne Australia 3001 +61 (0)3 96646563 vtf@vtf.com.au

### Sponsor type

Charity

# Funder(s)

# Funder type

Charity

### **Funder Name**

The Victorian Trauma Foundation and The Alfred Hospital - Bayside Health

# **Results and Publications**

# Publication and dissemination plan

Not provided at time of registration

# Intention to publish date

Individual participant data (IPD) sharing plan

# IPD sharing plan summary

Not provided at time of registration

# **Study outputs**

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Results article		01/08/2006		Yes	No
Results article	results	01/02/2011	31/01/2019	Yes	No