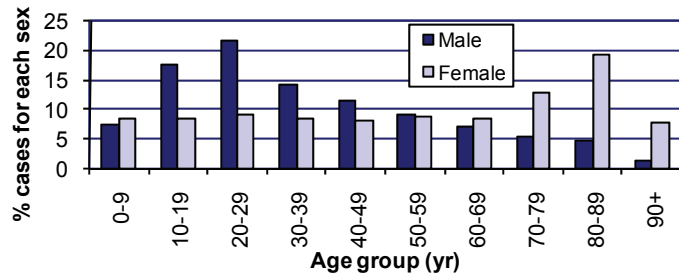
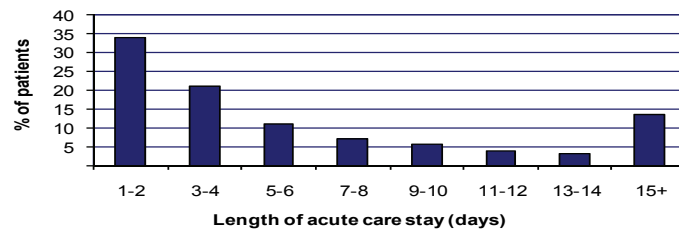


Results from the Queensland Trauma Registry (2008)

- A total of 14,926 cases were eligible for inclusion on the QTR, including 1,892 major injury cases
- 66% of these injury cases were males; 72% of injuries in males occurred in those aged less than 50 years
- Injured females tended to be older (mean = 54 years) than injured males (mean = 37 years)
- Injuries to females increased after the age of 70.
- Injuries to males peaked between the ages of 20 and 29 years (see figure below)



- Falls accounted for the highest proportion of injuries; most falls were from a height of less than 1 metre
- Road Traffic Crashes (RTCs) accounted for the second highest proportion of all injury cases and the highest proportion of major injury cases
- 32% of all RTCs involved motorbike riders with most being male & aged from 15 to 44 years
- The most common nature of main injury was a fracture, with 57% of all fractures being to the lower extremities; intracranial injury was the most common nature of main injury for major injury cases
- 31% of people were engaged in a sports/leisure activity and 21% were working for income when injured
- The largest number of injuries occurred in December; 36% of all injuries occurred on the weekend
- Median length of acute hospital stay was 4 days for all injury cases and 9 days for major injury cases
- More than 118,100 acute bed days were used by injury patients admitted to QTR hospitals in 2008
- Most patients stayed in hospital for acute care of their injuries for one to two days (see figure below)



- 9% of all patients were admitted to an Intensive Care Unit (ICU); these cases utilised just under 7,000 ICU bed days in 2008
- 68% of patients underwent an operation as part of their acute injury treatment
- 2.4% of injured patients died during hospitalisation; the average age at death was 66 years

Statewide QTR Annual Reports, including specific reports on road traffic crashes and the paediatric population, are available at: www.uq.edu.au/conrod/index.html?page=100412

For further information about the Queensland Trauma Registry please contact Associate Professor Cliff Pollard, QTR Director: 07 3636 0865 or cliff_pollard@health.qld.gov.au or Kathy Harvey, QTR Manager: 07 3346 4964 or k.harvey@uq.edu.au

QUEENSLAND TRAUMA REGISTRY

A PROGRAMME OF THE CENTRE OF NATIONAL RESEARCH ON DISABILITY AND REHABILITATION MEDICINE

The Queensland Trauma Registry (QTR) was established in 1998. The Registry sits within the Centre of National Research on Disability and Rehabilitation Medicine (CONROD) within the School of Medicine, The University of Queensland. It is jointly funded by UQ, the Motor Accident Insurance Commission and Queensland Health.

Objectives of the Queensland Trauma Registry

The QTR maximises the benefits of care provided by the public health system to people hospitalised in Queensland for serious injury by:

- Determining the incidence, cause, location, explanatory variables, treatment and outcomes of serious injury
- Establishing benchmarks and identifying variations in accepted standards of care
- Facilitating clinical review and making recommendations for changes in trauma management, and
- Conducting scientific research to reduce future incidence and burden of injury and improve trauma management and outcomes.

Queensland Trauma Registry Advisory Board

The objective of the QTR Advisory Board is to provide advice on the strategic focus of the Registry, while facilitating the development of collaborative research networks and partnerships.

- Professor Michael Schuetz (Chair) – Director of Trauma Services, Princess Alexandra Hospital
- Adjunct Professor Graham Hughes AM – Chairperson, CONROD, UQ
- Mr John Hand – Commissioner, Motor Accident Insurance Commission (MAIC)
- Mr David Melville – Commissioner, Queensland Ambulance Service (QAS)
- Mr Gary Fites – General Manager External Relations, Royal Automobile Club of Queensland (RACQ)
- Dr Adrian Nowitzke – CEO, Gold Coast Health Service District, Queensland Health
- Ex-officio: Professor Nicholas Bellamy – Director CONROD, UQ; Associate Professor Cliff Pollard - Director QTR and Director Trauma Services RBWH; Ms Kathy Harvey – Manager QTR

Queensland Trauma Registry Research Subcommittee

The functions of the QTR Research Subcommittee include protocols for handling of requests for Registry data, and to advise the Board on research policy and strategy and on the future direction for research utilising the QTR.

- Professor Gerry FitzGerald (Chair) – Professor Public Health (Emergency and Disaster Management), School of Public Health, QUT
- Associate Professor Vivienne Tippett - Director, Australian Centre for Pre-hospital Care Research, School of Population Health, UQ
- Professor Narelle Haworth – Professor in Injury Prevention and Rehabilitation, Centre for Accident Research and Road Safety (CARRS-Q), QUT
- Professor Jeffrey Lipman – Director of Burns, Trauma and Critical Care Research Centre, UQ and Director of Intensive Care Medicine, Royal Brisbane & Women's Hospital
- Dr Don Campbell – ED Consultant, Gold Coast Hospital and Chair GCH QTR Trauma Review Committee
- Mr John O'Brien, Director, Integration and Linkage, Health Statistics Centre, QH
- Professor Roy Kimble, Professor of Paediatrics & Child Health, UQ and Director of Queensland Health Paediatric Trauma Service
- Professor Nicholas Bellamy – Director CONROD, UQ
- Ex-officio: Associate Professor Cliff Pollard - Director QTR and Director Trauma Services RBWH; Ms Kathy Harvey - Manager QTR; Professor Michael Schuetz – Chair Statewide Trauma Clinical Network and Director of Trauma Services, PAH
- CONROD Professor of Orthopaedic Trauma Surgery (to be advised).

Queensland Trauma Registry Hospital Sites & Staff

There are 20 Queensland public hospitals participating in the QTR along with a core Registry coordination team:

Bundaberg Hospital QTR Nurse: Gail Davies / TRC Chair: Dr Greg Treston

Cairns Hospital QTR Nurses: Jennifer Hanby, Jan Burns, Wendy Parker / TRC Chair: Dr Emmeline Finn

Gold Coast Hospital / Robina Hospital

QTR Nurses: Christel Jennekens, Alison Heppell / TRC Chair: Dr Don Campbell

Hervey Bay Hospital / Maryborough Hospital QTR Nurse: Sue Davies / TRC Chair: TBA

Ipswich Hospital QTR Nurse: Shelley Shepherd / TRC Chair: Dr Stephen Brierley

Logan Hospital QTR Nurse: Annie Bristol / TRC Chair: TBA

Mackay Base Hospital QTR Nurse: Traci Muscat / TRC Chair: Dr Herwig Drobetz

Mount Isa Hospital QTR Nurse: Joanne Real / QTR TRC Chair: Dr Greg Coffey

Nambour Hospital

QTR Nurse: Sue Woodford / QTR Health Information Manager: Kim Lewis / TRC Chair: Dr Tony Harrington

Princess Alexandra Hospital

QTR Nurse: Dale Mason / QTR Health Information Manager: Janet Conroy / TRC Chair: Dr Tom O'Rourke

Redcliffe Hospital / Caboolture Hospital QTR Nurse: Delia O'Brien / TRC Chair: Dr Doug Morel / Dr Mary Basire

Rockhampton Base Hospital QTR Nurses: Vivienne Oliver, Lisa Tierney / TRC Chair: Dr Peter Thompson

Royal Brisbane & Women's Hospital QTR Nurses: Melissa Dale, Sharon Neilson, Liz Hogan / QTR Health Information Manager: Richard Bennett / TRC Chair: Dr Bill Lukin

Royal Children's Hospital / Mater Children's Hospital

QTR Clinical Coder: Carolyn Starrett / TRC Chair: Dr Roy Kimble

Toowoomba Hospital QTR Trauma Nurse Coordinators: Cherie Giles, Glenda Thomas / TRC Chair: Dr Alex King

Townsville Hospital (The) QTR Nurse: Judith Brennan / QTR Health Information Manager: Jane Watson / TRC Chair: Dr David Cooksley

QTR Coordination

Director: Associate Professor Cliff Pollard

Manager: Kathy Harvey

Principal Research Fellow: Dr Fumiko Irie

Senior Research Officer: Jacelle Lang

Research Officer: Natalie Dallow

Health Information Manager – Data Quality Assurance: Chantal Spanagel

Health Information Manager – Training & Development: Jasmin Carroll

CONROD

Director: Professor Nicholas Bellamy

Level 3, UQ School of Medicine, Herston Rd, Herston Qld 4006, Phone: 07 3365 5560 / Fax: 07 3346 4603

Trauma Review Committees

Trauma Review Committees (TRCs) are an essential component of the quality assurance process, designed to identify areas of educational need, improve patient care and to review systems performance for those involved in trauma care. Through QTR Trauma Nurse Coordinator support of the multidisciplinary group of members that form the TRC, the QTR endeavours to review all trauma cases where care has varied from predefined standards of trauma management or where trauma patients die during hospitalisation. Where appropriate, these reviews can lead to changes in the trauma system being implemented to reduce the likelihood of future deviations in care. The Committees have representation from Medical & Nursing staff, QAS staff, and other relevant health professionals.

Data Collection and Quality

A prospective cohort design with chart based data acquisition at point of separation is used for the operation of the QTR. Cases are identified for inclusion on the QTR via a standard system report generated by the Emergency Department Information System (EDIS) using the following criteria:

- Admitted to a Registry hospital site for ≥ 24 hours on initial presentation for treatment of an injury
- > 14 years of age AND are codeable to an ICD-10-AM category from S00-S99, T00-T35, T63, T66-T71, T75
- ≤ 14 years of age AND are codeable to an ICD-10-AM category from S00-S99, T00-T75, T78
- Admission via ED or transferred from another hospital (bypassing ED) for the acute treatment of an injury.

The QTR system consists of a live, stand-alone, centralised database, accessible for data entry and report production by designated QTR Nurses and Health Information Managers at each QTR hospital site (access is limited to own-site data). The QTR database is populated electronically with information downloaded from EDIS, and with supplementary fields entered manually by designated QTR staff at chart audit. To capture the cases that bypass the emergency department or do not initially meet the inclusion criteria for the QTR, discharge diagnosis reports are generated at each hospital using ICD-10-AM codes and cross-checked with the information retrieved via EDIS.

Hospitals in the Queensland Trauma Registry

Hospital / Year	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
1. PAH												
2. RBWH												
3. Mater Children's												
4. Royal Children's												
5. Cairns												
6. Ipswich												
7. Mackay												
8. Nambour												
9. Redcliffe												
10. Rockhampton												
11. Toowoomba												
12. Townsville												
13. Mount Isa												
14. Caboolture												
15. Gold Coast												
16. Robina												
17. Bundaberg												
18. Hervey Bay												
19. Logan												
20. Maryborough												
Total	2	2	4	4	13	15	15	14	14	14	16	20