Referral pathways: Major trauma (adult) Queensland Health Guideline

QH-GDL-971

1. Purpose

Queensland Health is committed to provide timely, equitable and high-quality care for patients who suffer traumatic injuries in Queensland and Northern New South Wales. Patient retrievals and transfers following major traumatic incidents are of a highly complex and urgent nature. Clear, defined referral pathways support access to appropriate specialist care. This guideline provides recommendations regarding best practice to support referral pathways for major trauma patients across Queensland and Northern New South Wales and is intended to be used as a supplement to the Patient Access to Care Health Service Directive.⁽¹⁾ Appendix 1 outlines background information on the Queensland trauma system that supports this guideline.

2. Scope

This guideline applies to all employees, contractors and consultants within the Department of Health divisions, Hospital and Health Services (HHSs), prehospital care providers and clinical services involved directly or indirectly in the provision of trauma care from injury scene through to definitive care. It may be used for patients suffering major trauma where the injury occurs in Queensland or the Northern NSW Local Health District (NNSW LHD).

The Queensland definition of major trauma is an Injury Severity Score (ISS) over 12, however any significant multi-system traumatic injuries according to mechanism, injuries and physiology may follow the referral pathways contained in the guideline. It is acknowledged that the ISS may be unknown, inaccurate, or incomplete in the early stages after injury.

Paediatric trauma patients aged under 16 years are not within the scope of this guideline, however, should always be discussed with the relevant surgical consultant at Queensland Children's Hospital (QCH) to determine the most appropriate major trauma centre for definitive care; while patients aged 16 years and over are within scope of this guideline.

Details contained within this guideline do not substitute clinical judgement, knowledge and expertise or medical advice. Clinicians are responsible for providing care within the context of locally available resources, expertise, and scope of practice. Compliance with this guideline is not mandatory, but sound reasoning must exist for departing from the recommended principles within this guideline.



3. Aboriginal and Torres Strait Islander considerations

Queensland public hospital services and staff recognise and commit to the respect, understanding and application of Aboriginal and Torres Strait Islander cultural values, principles, differences and needs when caring for Aboriginal or Torres Strait Islander patients. Each individual HHS is responsible for achieving successful provision of culturally appropriate services to and with Aboriginal and Torres Strait Islander individuals and their communities within the respective HHS catchment. Equally, the respect and acknowledgement extended to Aboriginal and Torres Strait Islander people will be extended to all participants, irrespective of ethnic background or membership of community group.

4. Related documents

 Patient access to care | Health service directive | Queensland Health

 Protocol for timely transfer of care in emergency department

 Protocol for management of interhospital transfers

 Protocol for managing capacity of Queensland public hospitals

 Retrieval services | Health service directive | Queensland Health

5. Referral pathways guideline: major trauma (adult)

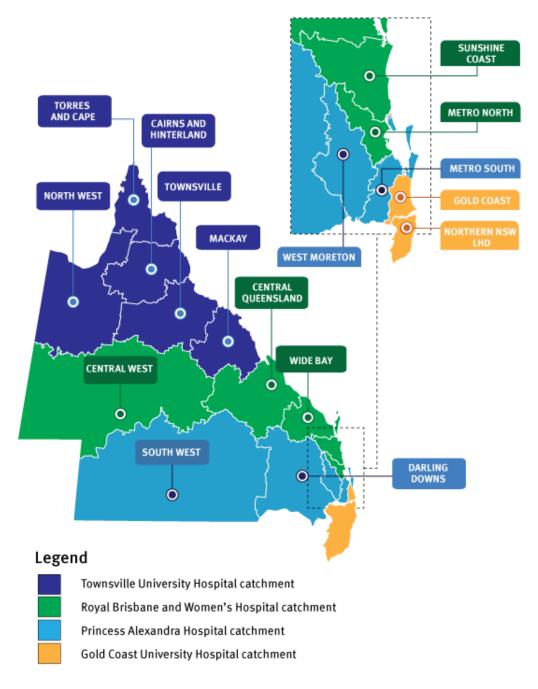
5.1. Transfers for definitive care

- 5.1.1. Interhospital transfers should always be considered whenever a patient's treatment needs exceed the capacity of a treating facility.⁽²⁾
- 5.1.2. A referral to a larger regional hospital or major trauma centre is required to enable access to the required specialty services.
- 5.1.3. If a statewide specialist service is needed such as burns and spinal cord injury, the recommended pathway should be followed as outlined in Section 5.4.
- 5.1.4. Information used to determine where the patient is transferred to may include the geographical location of the patient, the specific services that are required, and the capability of the hospitals being referred to.
- 5.1.5. Cross-border agreements are in existence, whereby patients may be transferred into Queensland Health facilities from interstate locations. Patients from Norfolk Island may be transferred into Metro North HHS as part of an intergovernmental agreement.

5.2. Referral catchment areas

- 5.2.1. Queensland Health has sixteen defined HHSs that provide a geographical representation of public hospitals and health facilities.
- 5.2.2. Four adult major trauma centres, including Gold Coast University Hospital (GCUH), Royal Brisbane and Women's Hospital (RBWH), Princess Alexandra Hospital (PAH) and Townsville University Hospital (TUH) can provide tertiary trauma care for the HHSs and NNSW LHD as illustrated in Figure 1:

Figure 1: Geographical catchment areas for major trauma



Referral pathways: Major trauma (adult) – Queensland Health GuidelineDivision NameClinical Excellence QueenslandGuideline ownerQueensland Trauma Clinical NetworkEffective date24 January 2023Review date24 January 2026

5.3. Prehospital and retrieval referrals

- 5.3.1. **Queensland Ambulance Service (QAS) referrals** If a patient requires an emergency trauma road transfer, contact QAS on triple zero (000) without delay.
- 5.3.2. **Retrieval Services Queensland (RSQ) referrals** If a patient requires an emergency aeromedical interhospital transfer, contact RSQ on 1300 799 127. The early notification of trauma guidelines⁽³⁾ should be followed for notification of trauma for interfacility transfer for all trauma patients.
- 5.3.3. **Royal Flying Doctor Service (RFDS) referrals** Some remote areas may have a local procedure for contacting the Royal Flying Doctors Service (RFDS) for primary transfers, and in these cases the RFDS can be contacted directly on 1300 697 337, and RFDS will advise RSQ of the details and requirements for transfer.⁽⁴⁾
- 5.3.4. **Northern NSW LHD referrals** If a patient requires an emergency trauma road transfer, contact the NSW Ambulance on triple zero (000) immediately. The NSW Ambulance also incorporates the Aeromedical Control Centre (ACC), which can be contacted on 1800 650 004 for any helicopter or fixed wing transfers.

5.4. Specialist services

Statewide and specialist services may be provided at designated hospitals and have exclusive referral pathways.

- 5.4.1. **Burns trauma** All emergency burns referrals should be sent to the Professor Stuart Pegg Adult Burns Centre, located at the RBWH. The <u>referral criteria</u> should be used, along with the <u>emergency patient transfer form</u>.
- 5.4.2. Acute spinal trauma All patients with complex or unstable spinal injuries without known neurological deficits that may require emergency surgical intervention should be referred to one of the four adult major trauma centres, Sunshine Coast University Hospital or Cairns Hospital.
- 5.4.3. Acute spinal cord injuries All patients with *known spinal cord injuries* that require urgent acute surgical management should be transferred directly to the PAH or RBWH for management; an early referral to the Queensland Spinal Cord Injuries Unit is recommended. The <u>Spinal Injuries Unit referral</u> and <u>ASIA</u> form should be utilised to ensure the required documentation is submitted to support the intake process for the Queensland Spinal Injuries Unit rehabilitation service.
- 5.4.4. **Obstetric and neonatal trauma** All emergency antenatal and postnatal retrievals should follow the Neonatal Stabilisation for Retrieval clinical guideline and flowchart.⁽⁵⁾ This includes the indications for transfers, referral process and preparation for retrieval checklist.
- 5.4.5. For single-system major traumatic injuries, the appropriate speciality team should be contacted directly to discuss the patient transfer. A full list of specialty services at each of the major trauma centres is outlined in Table 1.

| Major trauma centres | | | | | | |
|--------------------------|-----------------------------------|---|---|---|--|--|
| Specialty Services | Gold Coast University Hospital | Princess Alexandra Hospital | Royal Brisbane and Women's Hospital | Townsville University Hospital | | |
| Burns | × | × | ~ | ★ (selected definitive care in liaison with RBWH) | | |
| Cardiothoracics | ✓ | 4 | ✓ (elective thoracic surgery & cardio-thoracic trauma) | ✓ | | |
| Ear Nose & Throat | ✓ | ✓ | ✓ | ✓ | | |
| Interventional Radiology | ✓ | ✓ | ✓ | ✓ | | |
| Maxillofacial | ✓ | ✓ | ✓ | ✓ | | |
| Neurosurgery | ✓ | √ | ✓ | ✓ | | |
| Obstetrics | ✓ | × | ✓ | ✓ | | |
| Ophthalmology | ✓ | 4 | ✓ | ✓ | | |
| Orthopaedics | ✓ | 4 | ✓ | ✓ (complex pelvic trauma → RBWH/Cairns) | | |
| Plastics | ✓ | ✓ | ✓ | ✓ | | |
| Spinal Fractures | ✓ (Neurosurgical team) | ✓ (Orthopaedic and Neurosurgical teams) | ✓ (Orthopaedic and Neurosurgical teams) | ✓ (Neurosurgical team) | | |
| Spinal Cord Injuries | × | ✓ | ✓ | × | | |
| Urology | ✓ | ✓ | ✓ | ✓ | | |
| Vascular | ✓ | ✓ | ✓ | ✓ | | |

Table 1: Major trauma centre specialist services

5.5. Single point of contact

- 5.5.1. A single point of contact at each facility is essential to minimise transfer delays and facilitate patient access to the required specialty care.
- 5.5.2. This direct line of communication for retrieval teams and clinicians at referring sites before, during and following transfers can minimise delays
- 5.5.3. The Protocol for Timely Transfer of Care in Emergency Departments⁽⁶⁾ states that each HHS will have senior staff support 24 hours a day for management of access issues.
- 5.5.4. For multi-system major trauma, a single point of contact has been nominated by each regional and major trauma centre, as listed in Appendix 2.
- 5.5.5. These contact points are only applicable when multiple specialties are required and for cases with single specialty involvement, the relevant specialty should be contacted directly.

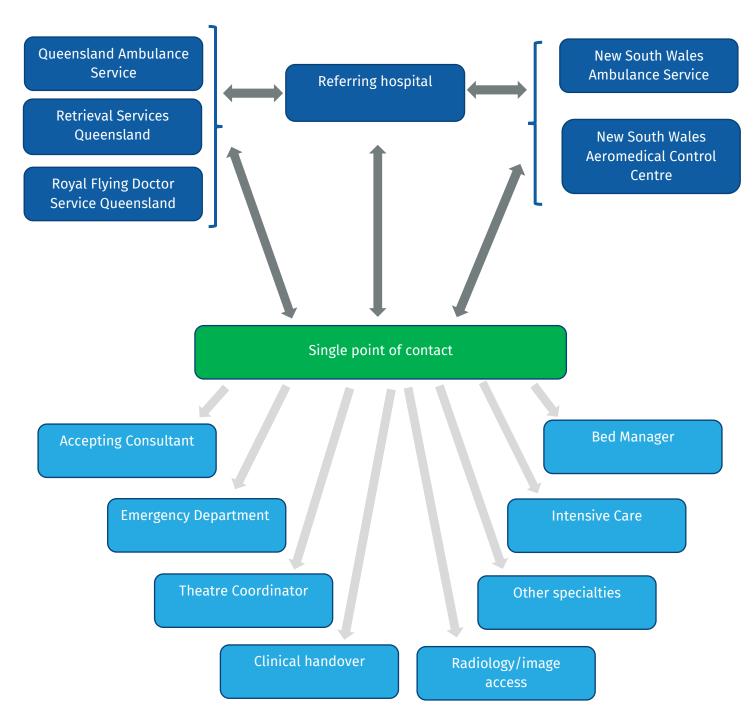
5.6. Transfer considerations

- 5.6.1. **Bariatric patients** special consideration needs to be given for any patient over 120kg due to the size and weight restrictions of transport modalities. This information must be conveyed at the earliest point of communication to allow appropriate asset tasking and equipment availability. In addition, the receiving hospital will require early notification of the patient weight status to ensure adequate preparation time to arrange the equipment and environmental setup required to provide optimal patient care.
- 5.6.2. **Futility of care** at times, catastrophic, life limiting injuries may require a palliation pathway at the referring hospital, rather than transferring a patient to a major trauma centre. This will ensure the patient is provided optimal end of life care and their family receive the specialist clinical advice required. This may involve one or more telehealth consultations between consultants at both the major trauma centre and local facility, and involve multidisciplinary clinicians working in emergency, trauma, intensive care and surgical services. Family meetings may be conducted locally or via telehealth also, with the additional support of clinicians at the major trauma centre assisting the local onsite clinical team. The multifacility discussion and support aims to not only support clinicians, patients and family members, but should result in an agreed, clearly documented plan of care.
- 5.6.3. **Non-urgent care** transporting the major trauma patient for non-urgent trauma care, such as secondary procedures or single system injuries also involves complex coordination and decision making. The Protocol for Management of Inter-Hospital Transfers⁽⁷⁾ defines the process for transfer of patients into, out of and between Queensland Health hospitals. All patient transfers for non-urgent care should follow the Protocol above and are not in scope for this document.
- 5.6.4. **Transfer back to referring hospital** the referring hospital should facilitate the patient return once definitive care has been provided at the major trauma centre.⁽⁷⁾ The regional and rural hospitals may be the step-down journey for the patient, according to ongoing care needs, equipment requirements and skills and expertise of local clinicians. The availability of local rehabilitation services, scheduled telehealth sessions, community follow up and involvement of non-government/private organisations may play a role in this planning process.

5.7. Communication and coordination

- 5.7.1. Effective communication and coordination are vital to ensure a safe, effective and appropriate interfacility transfer of a major trauma patient.
- 5.7.2. Ensuring the responsibilities of the referring and receiving facilities are adhered to will assist with the transfer process and aligns with the Protocol for Management of Inter-Hospital Transfers.⁽⁷⁾
- 5.7.3. A localised flowchart may assist with internal and external communications to the various departments within a hospital in both major trauma centres and regional centres (Figure 2).





5.8. Responsibilities of referring facility

- 5.8.1. Early notification of the clinical situation to RSQ and/or QAS are vital to avoid transfer delays.
- 5.8.2. A consultant from the referring facility must ensure the referral has been discussed with a consultant at the receiving facility and agreement on the planned transfer has occurred.
- 5.8.3. In absence of a consultant being immediately available, the most senior clinician on duty would be appropriate.
- 5.8.4. Alternatively, if a determination is made by RSQ for an urgent time critical transfer, the Medical Coordinator at RSQ may assist in this process.⁽⁸⁾
- 5.8.5. Once the patient has a transfer location, the electronic Interhospital Transfer request form should be completed, and local health service advice and referral procedures should be followed.
- 5.8.6. All clinical information should be made readily available to the receiving facility as soon as possible, including verbal handovers, copies of clinical documentation, electronic images/reports and pathology results.
- 5.8.7. A transfer checklist may be useful to support this process, as illustrated in Appendix 3⁴ for aeromedical retrievals, and Appendix 4 for road transfers.⁽⁹⁾

5.9. Responsibilities of receiving facility

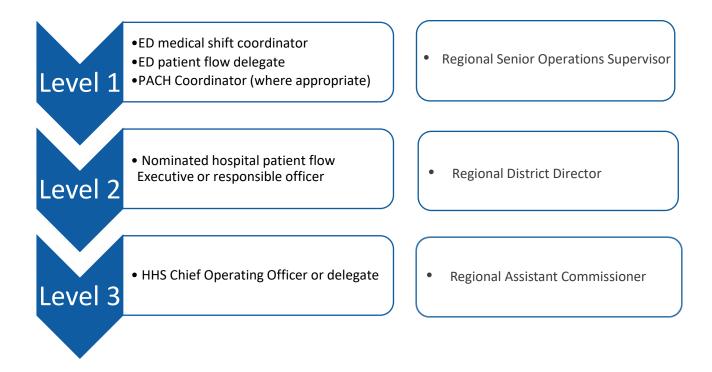
- 5.9.1. The receiving facility must ensure a local coordinated response is undertaken to ensure the patient will have rapid access to the definitive care needed. This may include activation of a local trauma call, notification to emergency, intensive care, theatres, subspecialty clinical teams, radiology, and bed managers.
- 5.9.2. All facilities should be familiar with local processes when receiving a critically ill major trauma patient to ensure readiness of the receiving facility.
- 5.9.3. Transfers of critically ill patients are not to be delayed due to bed availability.^(7, 10)
- 5.9.4. On completion of definitive care delivery and when clinically appropriate, the receiving facility must coordinate the non-urgent transfer back to the referring facility for ongoing healthcare according to local processes.

5.10. Escalation pathway and risk management

- 5.10.1. In the event that escalation is required for a patient transfer, consultation must occur between the referring consultant, receiving consultant, and bed manager.
- 5.10.2. If still unresolved, this should be escalated to the senior staff support nominated within the hospital for management of bed access issues.⁽⁶⁾

- 5.10.3. RSQ can assist with the escalation of patient care and transfers, through third party advocation and/or teleconferencing with relevant stakeholders.
- 5.10.4. QAS are also able to assist with escalating access to emergency departments. The QAS graduated escalation procedure is illustrated in Figure 3:

Figure 3 – QAS escalation levels



6. Abbreviations

| Aeromedical Control Centre |
|--|
| Acute Surgical Unit |
| Clinical Services Capability Framework |
| Gold Coast University Hospital |
| ligh Acuity Response Unit |
| lospital and Health Service |
| ntensive Care Unit |
| njury Severity Score |
| Northern NSW Local Health District |
| Patient Access and Coordination Hub |
| Princess Alexandra Hospital |
| Queensland Ambulance Service |
| Queensland Children's Hospital |
| Royal Australasian College of Surgeons |
| Royal Brisbane and Women's Hospital |
| Royal Flying Doctor Service |
| Retrieval Services Queensland |
| ownsville University Hospital |
| |

7. Document approval details

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9. Acknowledgements

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Consultation

| Hospital and Health Service Chief | Regional Trauma Services | | | | |
|--|---|--|--|--|--|
| Executives | Emergency Department Directors | | | | |
| Queensland Trauma Clinical Network | Surgical Department Directors Intensive Care Directors and Nurse Managers | | | | |
| Queensland Emergency Department Strategic Advisory Panel | | | | | |
| Queensland Intensive Care Clinical Network | Queensland Spinal Cord Injuries Service, | | | | |
| Queensland Rehabilitation Clinical Network | Princess Alexandra Hospital | | | | |
| Queensland Rural and Remote Clinical | Queensland Ambulance Service | | | | |
| Network | Retrieval Services Queensland | | | | |
| Statewide Anaesthesia and Perioperative Care Clinical Network | Royal flying Doctor Service | | | | |
| Surgical Advisory Committee | Northern New South Wales Local Health District and retrieval services | | | | |
| Major Trauma Centre Directors | | | | | |

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Appendix 1: Queensland Trauma System -Background information

Queensland is the second largest state in geographical area in Australia, and covers over 1.7 million square kilometres, including over 900 islands.⁽¹¹⁾ The population of over 5.2 million is the most decentralised in Australia, with over half of residents living outside of the greater Brisbane metropolitan area. This diverse population spread can generate challenges in accessing specialist healthcare services, particularly for the critically injured trauma patient. Timely, safe, and streamlined transfers are essential to provide the definitive care and optimise patient outcomes in major trauma. Australian and international evidence supports transfer to the highest level of trauma centre directly when required for improved patient outcomes.⁽¹²⁻¹⁶⁾ A worse prognosis has been demonstrated for major trauma patients retransferred compared to directly transferred to a major trauma centre.^(17, 18) Delays in patient transfer have been shown to lead to preventable and potentially preventable adverse outcomes.^(14, 19, 20) Evidence also suggests multitrauma patients have a higher mortality and increased length of stay when they have been transferred in from another Intensive Care Unit (ICU) compared with patients directly admitted from the emergency department to the ICU.⁽²¹⁾ The Queensland trauma system encompasses a multitude of services that all link together to provide trauma care delivery. Guidance on referring and transferring adult major trauma patients to a facility for higher level specialist care is contained within the referral pathways guideline for major trauma (adult).

Queensland Trauma System

Incorporating rural hospitals and regionalising trauma networks within trauma systems has been shown to reduce the burden of traumatic disease; and delivering trauma patient care to the extent of hospital capabilities is associated with decreased mortality rates.⁽²²⁾ Around the world, implementation of structured trauma systems has been shown to be effective ⁽²³⁻²⁷⁾, particularly for improved vital or functional prognosis of severe trauma patients. ^(24, 25, 27-29) The Queensland trauma system comprises of prehospital care providers, road and aeromedical retrievalists, as well as clinicians located in major trauma centres, regional hospitals and remote facilities. Following is an outline of the key components of the Queensland trauma system:

Prehospital Services

Queensland Ambulance Service (QAS) – The QAS is responsible for the statewide prehospital emergency response for major trauma and mass casualty incidents from 302 response locations. Each local area service network aligns with Queensland Health HHS geographical boundaries and there are also eight operations centres throughout Queensland that coordinate dispatch of emergency ambulance services, and coordinate interfacility transport services. The High Acuity Response Unit (HARU) provides an additional tier of clinical care by having a Critical Care Paramedic with an extended scope of practice in attendance and may have a senior doctor onboard also. The HARUs are based in Brisbane and the Gold Coast. The QAS trauma/pre-hospital trauma bypass clinical practice guideline⁽³⁰⁾ outlines vital signs, mechanisms and injury patterns that direct the clinicians to transport to the nearest major trauma service (if within 60 minutes road transport time). The procedure outlines alternate processes if the major trauma centre is further than 60 minutes away, including presentation to a regional or local hospital, or contacting RSQ for aeromedical coordination. The public hospital matrix is contained within the QAS digital clinical practice manual.⁽³¹⁾

Retrieval Services Queensland (RSQ) – RSQ provides centralised, statewide coordination and tasking of all aeromedical transfers from Northern NSW to the Torres Strait. Specialist medical and nursing coordinators support the clinical management of the patients by providing expert advice and linking clinicians to specialists via telehealth. RSQ delivers specialist education and training to rural and remote emergency departments and supports clinicians with preparation for aeromedical transfers. The integrated network of rotary wing, fixed wing and jet services from government and non-government providers facilitates transport of both adult and paediatric patients. RSQ integrates with the State Disaster Coordination Centre to manage major incident response and mass casualty situations.

NSW Ambulance Service – The NSW Ambulance coordinates all road and aeromedical retrievals. The Aeromedical Control Centre (ACC) is located in Sydney and operated by the NSW Ambulance. The ACC contains a 'Rapid Launch Trauma Coordinator' who monitors all triple zero calls and provides early notification for specialist resources to be dispatched to major trauma patients. The Protocol: T1⁽³²⁾ for prehospital management of major trauma will be utilised by paramedics when making transfer decisions. The Aeromedical and Medical Retrieval Service is staffed by paramedics, critical care nurses and senior critical care doctors who triage patients, provide clinical advice and coordinate specialist retrieval teams by road, helicopter, or fixed wing aircraft. Helicopter retrievals in the Northern NSW LHD are primarily tasked to the Westpac Rescue Helicopter, which operates from its Lismore base, and the ACC will liaise with the RSQ Medical Coordinator regarding the transfer destination.

Major Trauma Centres

A major trauma centre provides expert definitive care to patients who have suffered major trauma. The entire spectrum of care from the initial resuscitation, through to surgical intervention, intensive care, ward-based care, and rehabilitation can be managed onsite. There are multiple specialist services within major trauma centres, and some may have a attained a designated level one trauma verification from the Royal Australasian College of Surgeons (RACS). Major trauma centres can provide clinical advice, transfer decision making and risk mitigation prior to transfer. These centres may contain one of the statewide specialty services and would typically have attained a level five or six on the Trauma Clinical Services Capability Framework (CSCF).

Regional Trauma Hospitals

A regional trauma centre manages most patients who have presented with minor to moderate trauma and may have one or more specialist services onsite. Definitive care for some selected major trauma patients may be provided, and regional centres may liaise directly with their nearest major trauma centre for consultation and transfer advice. Regional trauma centres can stabilise the major trauma patient prior to their transfer to a major trauma centre and are typically a level three or four on the Trauma CSCF.

Rural and Remote Facilities

Rural and remote facilities play a crucial role providing care for patients with trauma of any severity in their communities and are often the first point of contact for trauma cases. Many rural and remote facilities can definitively manage minor trauma without on-referral. For severe trauma cases, where local established escalation processes require patients to be transferred on, rural and remote clinicians provide notification to the referral centre and retrieval service, whilst simultaneously providing the initial care and resuscitation necessary to maintain the stability of the patient until they can reach definitive care. These facilities would typically be a level one or two on the Trauma CSCF.

Appendix 2: Single contact points for rural and regional facilities and major trauma centres

| Hospital | Contact Hours | Position | Contact Number |
|---|--------------------------------------|--|------------------------------|
| CAIRNS AND HINTERLAND HHS | | | |
| Cairns Hospital | All hours | Patient Access and Coordination Hub | 07 4226 6100 |
| CENTRAL QUEENSLAND HHS | | | |
| Rockhampton Hospital | In-hours (0700-2300) | Emergency Senior Medical Officer | 07 4920 6321 |
| Rockhampton Hospitat | Out of hours | Emergency Principal House Officer | 07 4920 6321 |
| CENTRAL WEST HHS | | | |
| Longreach Hospital | All hours | Emergency on-call Senior Medical | 07 4658 4700 |
| 3 | | Officer | |
| DARLING DOWNS HHS | | | 1 |
| Toowoomba Hospital | In-hours (0800-2330) | Emergency Consultant | 07 4616 6306 |
| - | Out of hours | Emergency Senior Registrar | 07 4616 6306 |
| GOLD COAST HHS | · | | |
| Gold Coast University | In-hours (0700-1700) | Trauma Registrar | 07 5687 5771 |
| Hospital | Out of hours | General Surgery Registrar | 07 5687 0000 |
| MACKAY HHS | | | |
| Mackay Hospital | In-hours (0700-0000) | Emergency Senior Medical Officer | 07 4885 5109 |
| | Out of hours | Emergency Registrar | 07 4885 5109 |
| METRO NORTH HHS | | | |
| Royal Brisbane and Women's | All hours | General Surgery Registrar | 07 3647 0140 |
| Hospital | | General Surgery Consultant or Fellow | 07 3646 8111 |
| Caboolture Hospital | All hours | General Surgery Registrar | 07 5433 8888 |
| Redcliffe Hospital | In-hours (0730-2300) | Emergency Consultant | 07 3883 7193 |
| | Out of hours | Emergency Senior Registrar | 07 3883 7193 |
| | All hours | Emergency Nurse Navigator | 07 3883 7093 |
| The Prince Charles Hospital | In-hours (0800-2300) | Emergency Consultant | 07 3139 5945 |
| | Out of hours | Emergency Registrar | 07 3139 5945 |
| METRO SOUTH HHS | | | |
| Princess Alexandra Hospital | In-hours (0700-1700) | Acute Surgical Unit (ASU) Registrar or | 07 3176 9091 |
| | Out of hours | ASU Ward Consultant | 07 3176 2111 |
| Logan Hospital | All hours | General Surgery Registrar Emergency Resuscitation Team Leader | 07 3176 9091 07 3299 8844 |
| NORTH WEST HHS | All Hours | Emergency Resuscitation realin Leader | 07 3239 8844 |
| Mount Isa Hospital | All hours | Emergency Senior Medical Officer | 07 4744 4444 |
| NORTHERN NSW LHD | All Hours | Emergency Senior Medical Officer | 0/ 4/44 4444 |
| Lismore Hospital | In-hours (0800-2300) | Emergency FACEM | 02 6620 7207 |
| Lisiliore nospitat | Out of hours | Emergency Registrar | 02 6620 7207 |
| Tweed Hospital | In-hours (0800-2200) | Emergency Senior Duty FACEM | 07 5506 7739 |
| i weed nospitat | Out of hours | Emergency Registrar Team Leader | 07 5506 7739 |
| SOUTH WEST HHS | outornouis | | 0/ 0000 //02 |
| Roma Hospital | In-hours (0800-2200) | Emergency Senior Medical Officer | 07 4624 2750 |
| | Out of hours | After Hours Nursing Manager | 0429 775 372 |
| SUNSHINE COAST HHS | | | |
| Sunshine Coast University Hospital | All hours | Emergency Medical Clinical Coordinator | 07 5202 7870 |
| Gympie Hospital | All hours | Emergency Medical Clinical Coordinator | 07 5408 3562 |
| Nambour Hospital | All hours | Emergency Medical Clinical Coordinator | 07 5470 5170 |
| TORRES AND CAPE HHS | • | | |
| Thursday Island Hospital | All hours | On-call Senior Medical Officer | 07 4069 0276 |
| Cooktown Hospital | All hours | On-call Senior Medical Officer | 0407 921 428 |
| Weipa Hospital | In-hours: (0800-1630) | Senior Medical Officer | 07 4082 3926 |
| | Out-of-hours | Senior Medical Officer | 0427 001 513 |
| TOWNSVILLE HHS | | 1 | 1 |
| Townsville University Hospital | In-hours (0800-2300) Out of hours | Emergency Consultant Emergency Senior Registrar | 07 4433 3520 07 4433 3520 |
| WEST MORETON HHS | | | |
| Ipswich Hospital | All hours | Emergency Consultant on Duty | 07 3810 1487 |
| WIDE BAY HHS | | | |
| | | Emergency Senior Medical Officer | 07 4303 8120 |
| Bundaberg Hospital | All hours | Lineigency Jenior Medical Onicer | 07 4303 0120 |
| Bundaberg Hospital Hervey Bay Hospital Maryborough Hospital | All hours | Emergency Senior Medical Officer Emergency Senior Medical Officer | 07 4325 6788 |

Referral pathways: Major trauma (adult) – Queensland Health GuidelineDivision NameClinical Excellence QueenslandGuideline ownerQueensland Trauma Clinical NetworkEffective date24 January 2023Review date24 January 2026

Appendix 3: RFDS Aeromedical Retrieval Checklist

| | Royal Flying Doctor Service | | | | | RFDS Aeromedical Retrieval Checklist | | | | | | |
|--|---|-------|----------|--|------------------------|--------------------------------------|---|---|---------------------------------------|--------|--|-----------------------------|
| Date and tim retrieval/tran | e of request for | | | ETA (will be confirmed in flight) | | | | | | | | |
| | | | | | | | NSPORT DETAILS | | | | | |
| Patient Name: | Patient Weight (kg): Complete Bariatric sizing chart if > 120kg | | | | □ Valuables - Specify: | | | | | | | |
| Date of Birth: | | | | | Sex: M□F | | Small bag <5kg Any other luggage must be approved by RFDS flight crew | | | | | |
| Address: | S: | | | | | | RFDS flight crew) | | | Weig | Approval Weight (kg) Escort Relationship to Patient | |
| Diagnosis | | | | | | | | | | | | |
| Infectious Condition (e.g. .MRSA) | Yes 🗖 1 Specify: | | | | | | Next of Kin | | | Cont | act N | lumber |
| Mobility | Able stairs | to n | nanage | 🗆 Re | quires St | retcher | | | | | | |
| ■ Any pa | | | | | is claustr | Clinical Coc ophobic; who | | gitated | | | | s 1ssed in full with the |
| | | | | | | REFERR | AL DETAI | LS | | | | |
| Referring fac | cility | | | | | | Referring Clini | Referring Clinician | | | | |
| Receiving fa | Receiving facility | | | | | Receiving MO | | | | | | |
| | Infinite | | | | | | ATION (✓ wł | | | | ah ah a | ti t |
| | Infusion concentrations and rates must be documer Size | | | | | | Site | Date Inserted Infusion(s) | | | | |
| IV Cannula (| (1) | | | | | | | | | | | |
| IV Cannula ((see General Preparation | eral | | | | | | | | | | | |
| Toilet price | or to flight | t | 🛛 Urina | ary Cath | eter | □ ICC | | Chest drainage bag | | | 🗆 F | racture Immobilisation |
| Gastric Tu | | | | | | Other (| | | 1 1 | | | |
| Mec | licines gi | iven | | | | | | | n sheet and a cop ven if necessary | by sei | nt w | ith the patient |
| | lication given prior to flight | | | | | | | | Dose and route given Time given | | | Time given |
| Analgesia: Antiemetic: | | | | | | | | | | | | |
| Sedative: | | | | | | | | | | | | |
| Other: | | | | | | | | | | | | |
| DOCUMENTATION All patients must be accompanied by the appropriate documentation | | | | | | | | | | | | |
| Copies/orig | inals of a | all t | | | | | | | | be re | leva | nt during transfer |
| LETTER: □ Current Medication Sheet □ Medical □ Fluid Orders □ Surgical □ Fluid Orders □ Vital Signs □ Fluid Balance Chart □ Vital Signs □ ECGs □ Neurological Observations □ ARP/AHD | | | | □ Inpatient Notes □ QAS MATT Form □ Emergency Dept. Flow Sheet □ Request for Assessment □ QAS Report Form □ Theatre Notes □ Inmunisation Status □ IATA Packing Instruction □ PTSS Form 650 | | | | | | | | |
| Hando | over loca | tio | n and ro | ad trai | nsport d | letails will l | NDOVER be determine etrieval | d by | RFDS/RSQ du | ring | coor | dination of the |
| Hospital H OR Airport Hat | | | 0 | OR | | ge ambulance unge ambulan | Discuss Clinic | ss any questions with the RFDS Medical Officer or RSQ ical Coordinator, and/or refer to Primary Clinical Care Manual. | | | | |
| Additional C | | : | | _ 1103p1 | | | | | Name: | | | |
| | | | | | | | | Signature: | | | | |

Referral pathways: Major trauma (adult) – Queensland Health GuidelineDivision Name
Guideline ownerClinical Excellence Queensland
Queensland Trauma Clinical NetworkEffective date24 January 2023
24 January 2026

PRINTED COPIES ARE UNCONTROLLED

Appendix 4: SWIFT Check form

| See | 🖢 Queensland | | (Affix identification I | abel here) | |
|----------------------|--|---|---|---|----------|
| X | Government | URN: | | | |
| | Emergency Departme | ent Family | / name: | | |
| S | afe Well organised Inter- | | name(s): | | |
| | Transfer (SWIFT) Che | - | | | |
| _ | · · · | | | · · · · · · | □. |
| Fa | cility: | Date o | of birth: | Sex: M F | |
| lder | ntifies as: Aboriginal Torres S | trait Islander 🗌 Ab | original and Torres Strait Islander | | |
| | Transfer Information | | — •••••••••••••••••••••••••••••••••••• | | |
| Sa Fac | Inter-hospital transfer | OR ust be completed | Appointment/procedural (p | | edures) |
| NTRODUCTION | Receiving facility: | | Appointment date: / / / / / / / / / / / / / / / / / / / | | |
| Ď | Department: | | Appointment time (24hr): | | |
| TRO | | Nurse Doct | or Nil | | |
| Z | | | recautions (specify): | | |
| | | | | | |
| | Transferring ED AO informed of pe | | | | |
| | Clinical Information | | | | |
| Z | Diagnosis/reason for transfer | | | | |
| SITUATION | | | | | |
| Ę | | | | | |
| S | | | | | |
| | Monitoring/treatment required: | I Cardiac Ir | nvasive BP O2 Infusions | DeFib | |
| <u> 9</u> | Background (history relevant to this a | dmission): | | | |
| | | | | | |
| no | | | | | |
| GROUI | | | | | |
| ACKGROUI | | | | | |
| BACKGROUND | | | | | |
| | | heck – to be ca | lled at time of departure | | |
| | UST be present: Senior MO, Senior N | C heck – to be c a Iurse (or most seni | lled at time of departure | t patient bedside/st | retcher) |
| | UST be present: Senior MO, Senior N Tick (\checkmark) to indicate task has been che | C heck – to be c a Iurse (or most seni | Illed at time of departure or staff) and Transport Team (a | | |
| | UST be present: Senior MO, Senior N | C heck – to be c a Iurse (or most seni | lled at time of departure | | |
| M | UST be present: Senior MO, Senior N Tick (✓) to indicate task has been che ID band in situ and correct Destination confirmed Escorts confirmed N/A | Check – to be ca lurse (or most seni scked/completed. | Illed at time of departure or staff) and Transport Team (a Transfer paperwork (EDIS of Print at point of transfer: Medical Record/Medical R | or ieMR as required) |) |
| IENT M | UST be present: Senior MO, Senior N Tick (✓) to indicate task has been che D band in situ and correct Destination confirmed Escorts confirmed N/A Next Of Kin (NOK) notified of trans | Check – to be ca lurse (or most seni icked/completed. fer | Illed at time of departure or staff) and Transport Team (a Transfer paperwork (EDIS of Print at point of transfer: Medical Record/Medical R Medication Record(s)/Med | or ieMR as required) ecord request lication Transfer Repo |) |
| SMENT | UST be present: Senior MO, Senior N Tick (✓) to indicate task has been che ID band in situ and correct Destination confirmed Escorts confirmed N/A | Check – to be ca lurse (or most seni scked/completed. | Illed at time of departure or staff) and Transport Team (a Transfer paperwork (EDIS of Print at point of transfer: Medical Record/Medical R | or ieMR as required) ecord request lication Transfer Repo ment of Attendance |) |
| ESSMENT | UST be present: Senior MO, Senior N Tick (✓) to indicate task has been che Destination confirmed Escorts confirmed N/A Next Of Kin (NOK) notified of trans Relevant investigation results revie Vitals checked (within 30 mins of tr palliative care patients) | Check – to be ca lurse (or most seni ecked/completed. fer fer ewed ansfer, excluding | Iled at time of departure or staff) and Transport Team (a Transfer paperwork (EDIS of Print at point of transfer: Medical Record/Medical R Medication Record(s)/Med Discharge Summary/State Imaging – hard copy or tra Hard copy of IHT App (prin | or ieMR as required) ecord request lication Transfer Repo ment of Attendance nsfer request | ort |
| SMENT | UST be present: Senior MO, Senior N Tick (✓) to indicate task has been che D band in situ and correct Destination confirmed Escorts confirmed N/A Next Of Kin (NOK) notified of trans Relevant investigation results revie Vitals checked (within 30 mins of tr palliative care patients) Q-ADDS/MEWS/CEWT/MEWT scr | Check – to be ca lurse (or most seni ecked/completed. fer swed ransfer, excluding pre: | Illed at time of departure or staff) and Transport Team (a Transfer paperwork (EDIS of Print at point of transfer: Medical Record/Medical R Medication Record(s)/Med Discharge Summary/State Imaging – hard copy or tra Hard copy of IHT App (prin Send with patient: | or ieMR as required) ecord request lication Transfer Repo ment of Attendance nsfer request tted and provided to (| ort |
| ESSMENT | UST be present: Senior MO, Senior N Tick (✓) to indicate task has been che Destination confirmed Escorts confirmed N/A Next Of Kin (NOK) notified of trans Relevant investigation results revie Vitals checked (within 30 mins of tr palliative care patients) | Check – to be ca lurse (or most seni ecked/completed. fer ewed ansfer, excluding ore:S: | Illed at time of departure or staff) and Transport Team (a Transfer paperwork (EDIS of Print at point of transfer: Medical Record/Medical R Medication Record(s)/Med Discharge Summary/State Imaging – hard copy or tra Hard copy of IHT App (prin Send with patient: | or ieMR as required) ecord request lication Transfer Repo ment of Attendance nsfer request tted and provided to (| ort |
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| ESSMENT | UST be present: Senior MO, Senior N Tick (✓) to indicate task has been che Destination confirmed Escorts confirmed N/A Next Of Kin (NOK) notified of trans Relevant investigation results revie Vitals checked (within 30 mins of tr palliative care patients) Q-ADDS/MEWS/CEWT/MEWT scd Patient alert and cooperative – GC Cross-matched blood (if requested Fall risk N/A Pressure injury risk N/A Safe and ready for transfer: Yes | Check – to be ca lurse (or most seni locked/completed. fer swed ransfer, excluding pre: S: | at time of departure or staff) and Transport Team (a Transfer paperwork (EDIS of Print at point of transfer: Medical Record/Medical R Medication Record(s)/Medical R Discharge Summary/State Imaging – hard copy or tra Hard copy of IHT App (printimestication Second (from the second | or ieMR as required) ecord request lication Transfer Report ment of Attendance nsfer request ted and provided to (if required) uding S4/S8) | ort |
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| NDATION ASSESSMENT S | UST be present: Senior MO, Senior N Tick (✓) to indicate task has been che D band in situ and correct Destination confirmed Escorts confirmed N/A Next Of Kin (NOK) notified of trans Relevant investigation results revie Vitals checked (within 30 mins of tr palliative care patients) Q-ADDS/MEWS/CEWT/MEWT scc Patient alert and cooperative – GC Cross-matched blood (if requested Fall risk N/A Pressure injury risk N/A Safe and ready for transfer: Yes Comments: | Check – to be ca lurse (or most seni ecked/completed. fer ewed ansfer, excluding ore: S:) No ► If No agre | Illed at time of departure or staff) and Transport Team (a Transfer paperwork (EDIS of Print at point of transfer: Medical Record/Medical R Medication Record(s)/Med Discharge Summary/State Imaging – hard copy or tra Hard copy of IHT App (prin Send with patient: Completed consent form (i ARP (if applicable) Valuables Patient's medications (incl ement, action SWIFT Rule (see of | or ieMR as required) ecord request lication Transfer Report ment of Attendance nsfer request ted and provided to (if required) uding S4/S8) | QAS) |
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| ESSMENT | UST be present: Senior MO, Senior N Tick (✓) to indicate task has been chee ID band in situ and correct Destination confirmed Escorts confirmed N/A Next Of Kin (NOK) notified of trans Relevant investigation results revie Vitals checked (within 30 mins of tr palliative care patients) Q-ADDS/MEWS/CEWT/MEWT scd Patient alert and cooperative – GC Cross-matched blood (if requested Fall risk N/A Pressure injury risk N/A Safe and ready for transfer: Yes Comments: Comments: | Check – to be ca lurse (or most seni ecked/completed. fer ewed ansfer, excluding ore: S:) No ► If No agre | Illed at time of departure or staff) and Transport Team (a Transfer paperwork (EDIS of Print at point of transfer: Medical Record/Medical R Medication Record(s)/Med Discharge Summary/State Imaging – hard copy or tra Hard copy of IHT App (prin Send with patient: Completed consent form (i ARP (if applicable) Valuables Patient's medications (incl ement, action SWIFT Rule (see of | or ieMR as required) ecord request lication Transfer Report ment of Attendance nsfer request ted and provided to (if required) uding S4/S8) | QAS) |

Page 1 of 2

Referral pathways: Major trauma (adult) – Queensland Health GuidelineDivision Name
Guideline ownerClinical Excellence Queensland
Queensland Trauma Clinical NetworkEffective date24 January 2023
24 January 2026



Emergency Department Safe Well organised Inter-Facility Transfer (SWIFT) Check

| URN: |
|----------------|
| Family name: |
| Given name(s): |
| Address: |
| |

M

Sex:

(Affix identification label here)

How to use this form

Date of birth:

Purpose

The SWIFT Check streamlines the patient transfer process, it promotes efficiency and provides a final confirmation the patient is safe and ready for transfer. It involves the multidisciplinary healthcare team. This form is to be used for all patient transfers, including those required for a scan and/or procedure.

The form is to be utilised at *two* (2) stages of the patient journey:

- 1. Transfer and Clinical Information to be completed when the transfer arrangements are made; and
- 2. SWIFT check to be completed at the time of departure.

Instructions

Tick (\checkmark) if the transfer is:

» Inter-hospital transfer

OR

- » Appointment/procedural
- · Complete the relevant details in the 'Transfer Information' section.
- Complete the 'Appointment Details' for patients to be transferred for planned scans or procedures.
- Complete the 'Clinical Information'.
- Place this form with the patient's clinical documentation and complete the SWIFT check *(see below)* at the time of departure. This form is not required to accompany the patient on transfer.

SWIFT (Safe Well organised Inter-Facility Transfer) Check

The senior doctor and senior nurse (or most senior staff) responsible for the patient are both required to be present and to confirm that the information provided is accurate. If applicable the Transport Team must also be present for the SWIFT check.

To arrange a **SWIFT** check the senior nurse and senior doctor (or most senior staff), must be contacted immediately for a '**SWIFT** Check' at the patient's bedside on arrival of the Transport Team. A **SWIFT** check requires *ALL* members to be present.

THE SWIFT RULE

ANY safety concerns regarding transfer of the patient is to be escalated to the most senior ED Medical Officer and/or the QAS 24/7 Clinical Consultation and Advice line.

Page 2 of 2

Referral pathways: Major trauma (adult) – Queensland Health GuidelineDivision NameClinical Excellence QueenslandGuideline ownerQueensland Trauma Clinical NetworkEffective date24 January 2023Review date24 January 2026