



# Northern Regional Trauma Network

1. These criteria should prompt bypass or immediate transfer to definitive care facilities. Startship (paeds) and Auckland (adults) is the definitive care facility for most multi-trauma.
2. This is a guideline only. It does not replace clinical judgement.
3. All transfers must be safe and confer clinical benefit to the patient.
4. Notification between senior transferring and accepting medical staff precedes all transfers.
5. These guidelines have been agreed by all involved clinicians and endorsed by the four Northern Region CMOs.

## Trauma inter-hospital transfer guidelines for Middlemore Hospital

Condition	Go To	Regional referral centre P = Paeds A = Adults	Comment
<b>Traumatic Brain Injury</b>			
GCS ≥ 13 +/- concussion, not resolving	Middlemore		
GCS 9 - 12			CT, d/w Neurosurgeons at Auckland, if transfer required call:
GCS <9 and/or open brain injury e.g. compound skull fracture			* Paeds call Starship
Extra axial lesion on CT			* Adults call 0800 4 TRAUMA
<b>Spine</b>			
Suspect spinal injury, no motor deficit	Middlemore		
Spinal cord injury:	Paeds - Starship Adults - Middlemore	A	Refer to Supra-regional Spinal Cord Injury Guidelines
• Isolated with motor deficit			
• Multitrauma but not TBI or chest injuries			
Spinal cord injury - with other major injuries such as TBI or chest	Paeds - Starship Adults - Middlemore		Paeds: all paeds go to Starship Adults: determine if appropriate to keep or refer to Auckland for tertiary services. Call 0800 4 TRAUMA
<b>Vascular Injuries</b>			
	There is a 24*7 Vascular Service at Middlemore. All vascular injuries should be discussed with that service first. The Vascular Consultant will give clear advice on whether to transfer the patient to Auckland and to which service the patient should be referred.		
Blunt Carotid/Vertebral/Thoracic Aortic Injuries	Discuss with Middlemore Vascular Consultant.		May require transfer to Auckland. If transfer required, for Paeds call Starship, for Adults call 0800 4 TRAUMA
<b>Burns/Plastics</b>			
Burns > 20%, or less but affects special sites	Middlemore	P/A	D/w Plastic Surgical Registrar at Middlemore on 021 784 057
Burns <20%	Middlemore		
Degloving of face or other special sites or extensive / complex facial lacerations	Middlemore	P/A	
<b>Maxillo Facial</b>			
All Max Fax injury - Paeds	Starship		Isolated Paediatric Max Fax Injury may be managed at Middlemore. D/w Max Fax or Plastics Registrar
Isolated Max Fax injury - Adults	Middlemore	A	
Max Fax injury with TBI or chest injuries - Adults	Middlemore		Determine if appropriate to keep or refer to Auckland for tertiary services. Call 0800 4 TRAUMA
<b>Chest</b>			
All paediatric chest injuries - serious	Starship		
Penetrating chest injury - with shock +/- haemodynamic instability	Middlemore		Determine if appropriate to keep or refer to Auckland for tertiary services. Call 0800 4 TRAUMA
Multiple rib #, flail chest/ sternum injury	Middlemore		
Pulmonary contusions/Pneumothorax/Haemothorax	Middlemore		
<b>Abdominal Injuries</b>			
Paediatric simple abdominal trauma	Starship		
Paediatric complex abdominal trauma	Starship		
Penetrating abdominal injury	Middlemore		
Blunt abdominal injury	Middlemore		
Complex liver injury - stable	Middlemore		
Complex liver injury - unstable, ≥ Grade 3 liver trauma	Middlemore		Determine if appropriate to keep or refer to Auckland for tertiary services. Call 0800 4 TRAUMA
Perineal Injury	Middlemore		
<b>Special limb injuries</b>			
Upper limb with major nerve injury, +/- arterial injury	Middlemore	P/A	
Upper limb with arterial injury (but no nerve injury)	Middlemore		
Upper limb - amputation of viable digit (excluding simple terminalisation) or partial limb amputation	Middlemore	P/A	
Mangled lower limb with tissue loss	Middlemore	P/A	
Lower limb - penetrating injury with major nerve injury +/- arterial injury	Middlemore	P/A	
Lower limb	Middlemore		
• penetrating injury with arterial injury (but no nerve injury)			
• blunt injury with ischaemia +/- nerve injury			
<b>Orthopaedic</b>			
Open or complex pelvic # +/- haemodynamic instability	Paeds - Starship Adults - Middlemore		
Two or more long bone #	Paeds - Starship Adults - Middlemore		
Acetabulum #	Middlemore		
<b>Urology</b>			
Ruptured kidney	Paeds - Starship Adults - Middlemore		Determine if appropriate to keep or refer to Auckland for tertiary services. Call 0800 4 TRAUMA
Urethral injuries	Paeds - Starship Adults - Auckland		Discuss with Urology Registrar at Auckland