

Clinical Guidance

Trauma Pathways in Adults

Summary

These guidelines are to assist in clarifying correct referral pathway which will guide a more efficient management and better outcomes for patients.

Document Detail	
Document type	Clinical Guideline
Document name	Trauma Pathways in Adults
Document location	GTi Clinical Guidance Database
Version	V1.0
Effective from	<i>January 2024</i>
Review date	<i>January 2027</i>
Owner	Director of Trauma, Trauma Board, Guy's & St Thomas' Hospitals
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Approved by, date	Trauma Board – 22/01/2024
Superseded documents	V1.0
Related documents	N/A
Keywords	Trauma, Head, Neck, Chest, Abdomen and Pelvis, Limbs, Polytrauma, Burns, Spine, Cervical, Brain, Ribs, Penetrating, Blunt, POPS, GCS, Anticoagulants
Relevant external law, regulation, standards	

Change History		
Date	Change details, since approval	Approved by
10.07.20	Trauma referral pathway reviewed by Dr Dev and Dr Tomasi. No changes required	Trauma Board

Guy's and St. Thomas' NHS Foundation Trust Trauma Referral Pathways

These guidelines are to assist in clarifying correct referral pathway which will guide a more efficient management and better outcomes for patients. This is not a substitute for local acute management guidelines, which should be started before the referral is made if possible.

Please find pathways for the following injuries to:

1. Head
2. Face
3. Neck
4. Chest
5. Abdomen and pelvis
6. Limbs
7. Burns
8. Polytrauma

In case of pregnancy: fast bleed the Obstetrics SpR on 0672 or call their smartpage directly.

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Adult Trauma Team activation criteria (call 2222)

Activation criteria A
All adults

Step 1- Physiology

- GCS≤13
- Sustained BP < 90
- RR<10 or > 29

Step 2- Anatomy

- Chest injury with altered physiology
- Arterial bleeding requiring control with tourniquet
- Traumatic amputation/mangled limb proximal to wrist/ankle
- Penetrating trauma below the head/above the knees including axilla but not arms
- Spinal injury with abnormal neurology
- Open fracture of the lower limb proximal to the ankle
- Burns/scalds greater than 30%
- Facial burns with complete skin loss lower half of the face
- Circumferential burns from a flame injury

Step 3- Mechanism

- High speed RTC
- Death in the same passenger compartment
- Fall from height
- Person trapped under a vehicle or heavy object
- Bullseye to windscreen or damage to A post of the vehicle caused by impact of individual outside of the vehicle
- Motorcycle RTC
- Ejection from vehicle
- Pedestrian/cyclist vs vehicle

Step 4- Crew/TTL concerns

Trauma team activation
Document the decision not to activate

**These criteria are mainly based on the LAS Major Trauma Triage Tool predicting that the patient may have suffered a major trauma (ISS>15)/would benefit from care at the MTC*
This list is not exclusive and Trauma Team should be activated if Senior ED Clinician has concerns about the patient with trauma, **even if none of the above criteria are triggered*
**Intoxicated patients may be difficult to assess accurately – have a lower threshold to suspect serious injuries/activate Trauma Team*

Activation criteria B

If activation criteria A negative, but age ≥ 65 with an obvious injury, mechanism of injury or who have fallen < 2m

Physiology

- Systolic BP < 110mmHg
- Heart rate > 90 bpm
- GCS < 15
- Lactate > 2 or BE < -2

Anatomy

- Significant injury to ≥ 2 body regions
- Suspected pelvic injury
- Suspected head or spinal injury
- Suspected chest injury

Other

- Patient on anticoagulants or has a bleeding disorder
- Severe pain
- Acutely short of breath
- Uncontrollable major haemorrhage

Immediate ED Consultant or Registrar (ST4+ or equivalent) review for:

1. Trauma team activation
- or
2. If decision not to activate trauma team then fill in RAT Trauma assessment form

In the absence of mechanism, but identification of injuries on any imaging then re-screen patient; consider retrospective trauma call*

- History of unconsciousness
- Significant medical history
- Inappropriate or inadequate history
- Inappropriate awareness of symptoms/injury

- EM Consultant or Registrar (ST4+ or equivalent) review within 15 minutes
- Repeat screen post examination/imaging

**The purpose of the trauma call (and clinical priority for the patient) is adequate examination, early and adequate imaging and reporting and early identification of all injuries*

POPS input

(Peri-operative Medicine for Older People undergoing Surgery)

Mon-Fri 8am-4pm

Guy's and St Thomas' 

NHS Foundation Trust

General surgery POPS Bleep 2740:

CGA assessment and plan for all patients 65 and over, ongoing case management with surgical team if medical complexity/complex discharge planning/rehabilitation needs (CGA review of patients under 65 by request if complex co-morbidity/frailty/cognitive impairment/complex decision making)

Cardiovascular POPS Mobile 07444815063:

CGA assessment and plan for patients with complex co-morbidity/frailty/cognitive impairment/complex decision making or by surgeon/anaesthetic request, ongoing case management with surgical team if medical complexity/complex discharge planning/rehabilitation needs

Thoracic POPS Ext 82092:

CGA assessment and plan for all patients 65 and over, ongoing case management with surgical team if medical complexity/complex discharge planning/rehabilitation needs (CGA review of patients under 65 by request if complex co-morbidity/frailty/cognitive impairment/complex decision making)

Trauma & orthopaedics POPS Bleep 1510:

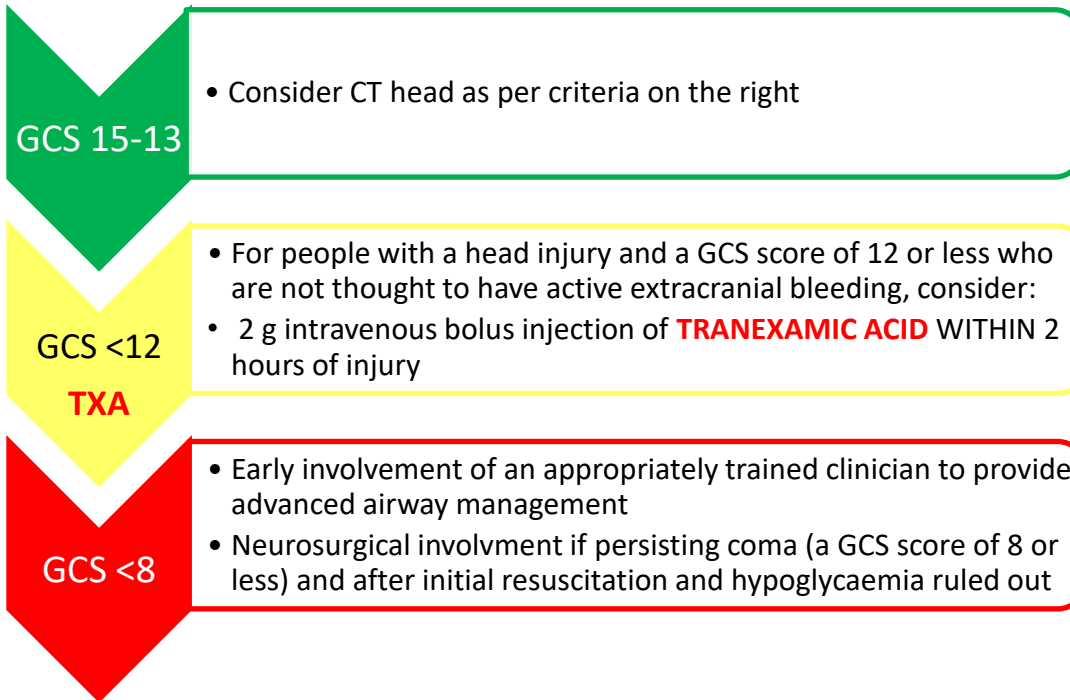
CGA assessment and case management with surgical team in NOF patients 60 and over, single CGA assessment and plan for periprosthetic and distal femoral fractures 60 and over (CGA review of patients with other fractures by request if complex co-morbidity/frailty/cognitive impairment/complex decision making)

Plastics POPS Bleep 2740:

CGA review of patients under 65 by request if complex co-morbidity/frailty/cognitive impairment/complex decision making

1. Head Trauma

- All patients must be assessed within 15 minutes of arrival and triaged based on



- Consider CT head as per criteria on the right

- For people with a head injury and a GCS score of 12 or less who are not thought to have active extracranial bleeding, consider:
- 2 g intravenous bolus injection of **TRANEXAMIC ACID** WITHIN 2 hours of injury

- Early involvement of an appropriately trained clinician to provide advanced airway management
- Neurosurgical involvement if persisting coma (a GCS score of 8 or less) and after initial resuscitation and hypoglycaemia ruled out

ANTICOAGULANTS:

If taking vitamin K antagonists, direct-acting oral anticoagulants (DOACs), heparin and low molecular weight heparins) or antiplatelet treatment (excluding aspirin monotherapy):

- CT Head within 8 hours** of the injury (for example, if it is difficult to do a risk assessment or if the person might not return to the emergency department if they have signs of deterioration) **or**
- CT head within 1 hour** if they present more than 8 hours after the injury.
- Early consideration of discussion with haematology for anticoag reversal.

CT Head Criteria:

CT head scan within 1 hour of any of these risk factors being identified:

- a GCS score of 12 or less on initial assessment in the emergency department
- a GCS score of less than 15 at ≥ 2 hours after the injury on assessment in the emergency department
- suspected open or depressed skull fracture
- any sign of basal skull fracture (haemotympanum, 'panda' eyes, cerebrospinal fluid leakage from the ear or nose)
- post-traumatic seizure
- focal neurological deficit
- more than 1 episode of vomiting.

CT head scan within 8 hours of the head injury if they have any of these risk factors:

- age 65 or over
- any current bleeding or clotting disorders
- dangerous mechanism of injury (a pedestrian or cyclist struck by a motor vehicle, an occupant ejected from a motor vehicle or a fall from a height of more than 1 m or 5 stairs)
- more than 30 minutes' retrograde amnesia of events immediately before the head injury.

All abnormal CT heads MUST be referred without delay to KCH via Acute Neurosurgery referral system online for decision on treatment, chased regularly, and discussed on the phone with KCH Neurosurgery where indicated.

<https://www.ihtl.nhs.uk/neurosurgery>

CT brain normal

Remains under ED/MSAU
Discharge if possible with appropriate head injury advice
If needs admission, referral to appropriate specialty relating to need for admission

Accepted for transfer to KCH

Transfer to KCH.
KCH neurosurgery have duty to find alternate bed if none available, depending on the urgency and emergency situation, especially if surgical intervention required.
If no bed available and clinical decision that it remains clinically safe and appropriate for the patient to remain at STH until bed available. Admission should be agreed by senior EM and relevant admitting specialty doctor

CT brain abnormal (not being transferred to KCH):

GCS ≤13

- **Early referral** and discussion with **CRT** alongside **anaesthetic** input
- Manage airway
- 15 minute neuro-observations
- Low threshold to re-scan and re-discuss with King's Neurosurgeons
- Identify Critical Care bed if appropriate

Admit to Relevant Speciality Prior to Kings NS reply if:

- Consultant agreement
- GCS <14
- No midline shift or mass effect
- Nil anti-coagulants

GCS ≥14 AND:

No urgent neurosurgical intervention required
AND
Absence of other significant injuries
AND
No significant acute medical issues
AND
No clear medical cause for fall
AND
No significant acute substance withdrawal
AND
Frailty score 1-4
AND
Not a chronic finding (e.g. chronic SDH)

Refer to general surgery for observations +/- repeat scan as per neurosurgical advice. *POPS will perform CGA (comprehensive geriatric assessment) on all patients 65 and over with case management as appropriate and support discharge planning in patients with LOS >48hrs or who may require neurorehabilitation*

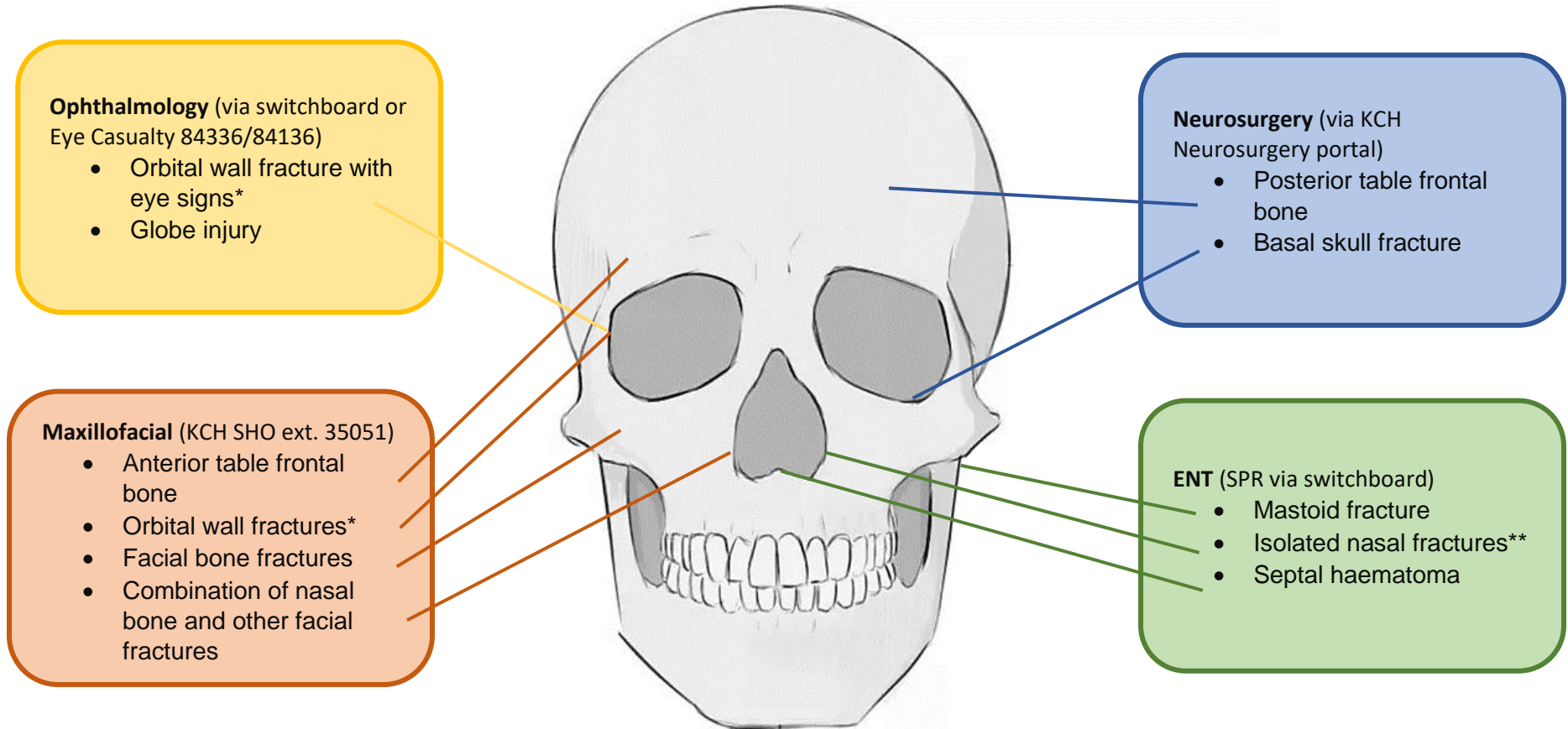
GCS ≥14 AND:

No urgent neurosurgical intervention required
AND
Absence of other significant injuries
PLUS
Evidence of clear intercurrent acute medical problem e.g. pneumonia
OR
Evidence of clear medical cause for collapse/fall*
OR
Evidence of significant substance withdrawal (e.g. alcohol)
OR
Clinical Frailty Score 5-9
OR
For end of life care

Refer to general medicine or geriatric medicine

*ECG suggestive of complete heart block or significant arrhythmia - refer to cardiology

Facial and Skull Fracture Referral Pathways



*if restriction of ocular movements, diplopia, altered visual acuity or altered pupillary response- requires urgent discussion with on-call ophthalmologist

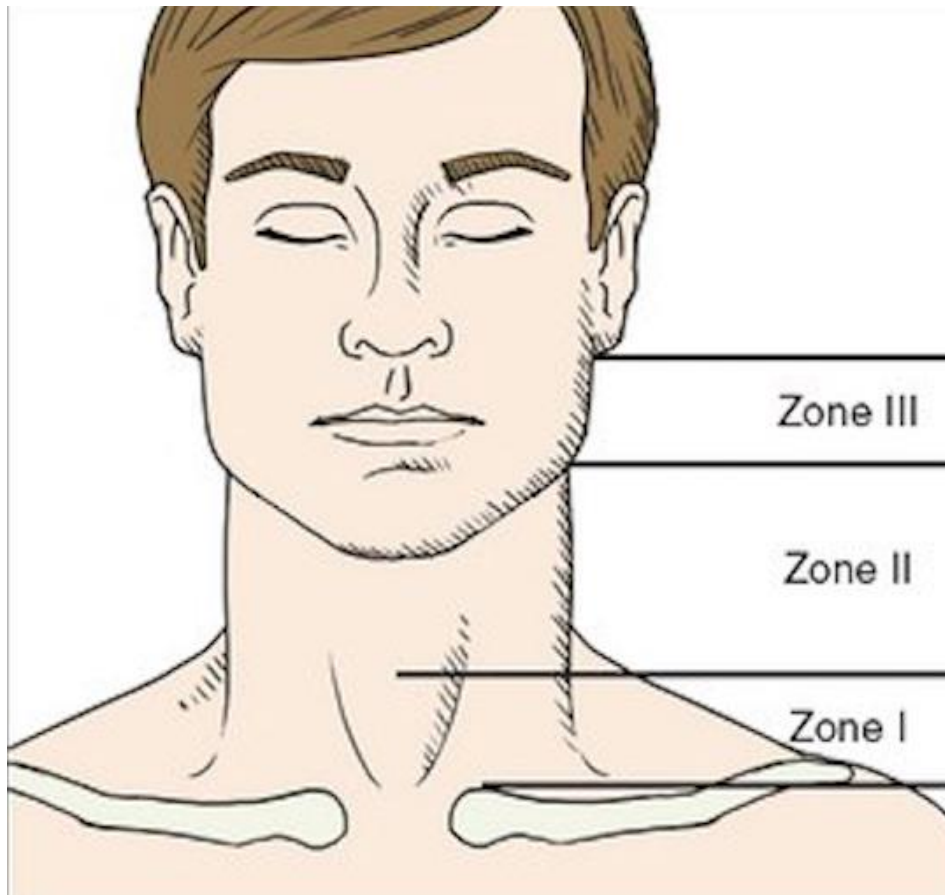
** refer to ENT emergency clinic for review in 1-2 weeks. Email: gst-tr.entemergency@gstt.nhs.uk

Please refer to the Facial Injury Pathway proforma on ED S drive for full guidelines and documentation of examination and imaging requests.

3. Trauma to the Neck

Assess for spinal cord injury

Consider immobilisation if appropriate
Contact KCH Neurosurgery
If intubation required, maintain spinal precautions throughout



Penetrating Injury to Neck

CT Angio of the Neck +/- head and chest

Zone 3 Injury
Above the
Mandible

ENT SpR via switch

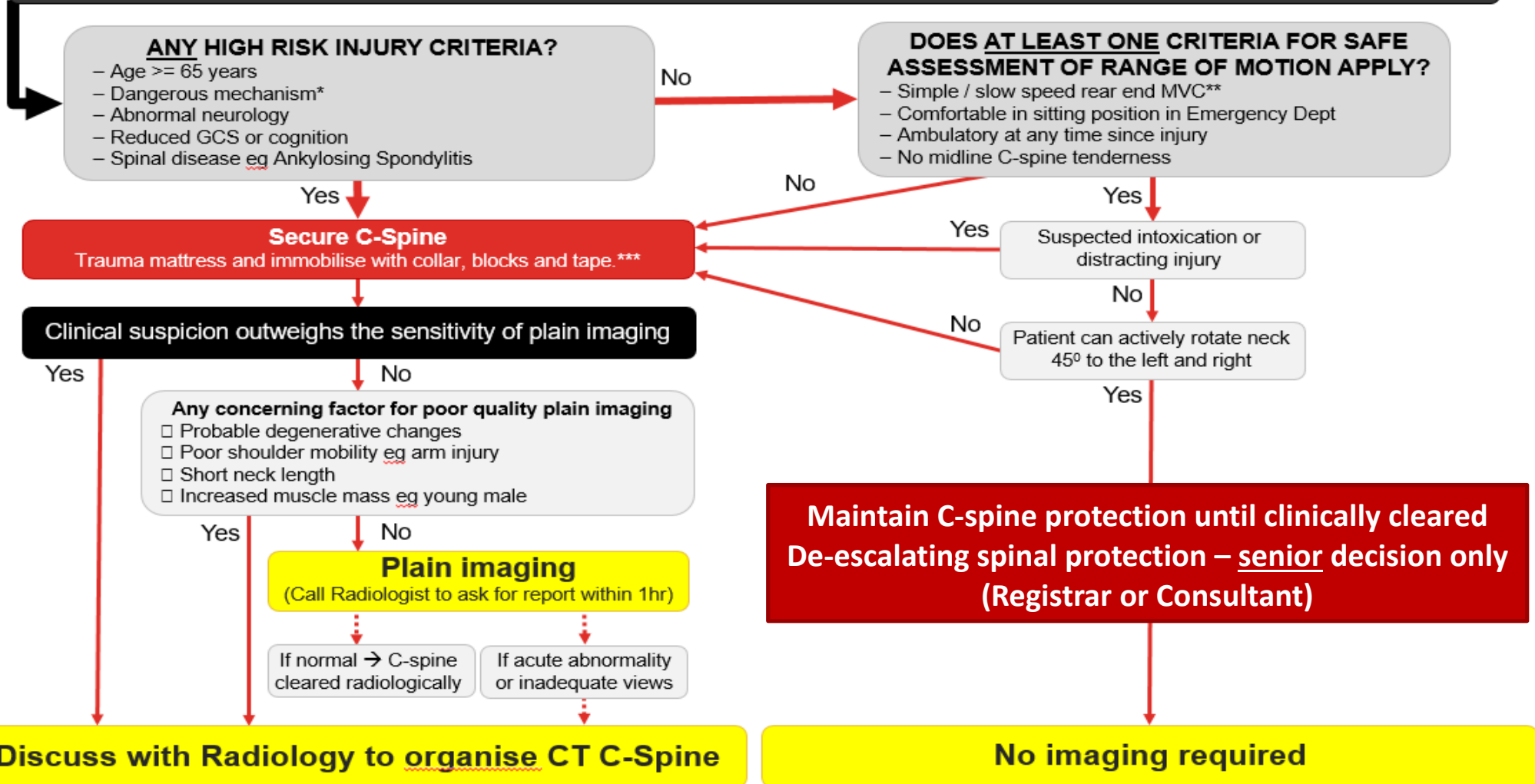
Zone 2 Injury
Cricoid Cartilage
to Angle of
Mandible

**ENT SpR via switch and
Max-fax SpR via Kings switch.**
If vessel involvement -
Vascular SpR

Zone 1 Injury
Clavicle to Cricoid
Cartilage

Cardiac Surgery SpR - 0200
If vessel involvement -
Vascular SpR

C-Spine Imaging Decision Tree



PLEASE NOTE: Normal imaging only clears the C-spine radiologically, not clinically.

* Fall $\geq 1\text{m}/5$ stairs; axial load; high-speed RTC / roll-over / ejection; recreational vehicles; bicycle; horse riding.

** Minor rear-end motor vehicle collision (MVC) excludes: pushed into oncoming traffic and hit by large or high-speed vehicle.

*** If patient is un-cooperative / agitated / distressed, allow position of comfort; avoid collar in compromised airway and pre-existing spinal deformity e.g. Ankylosing Spondylitis.

CT Chest/CXR Confirmed

Penetrating Injury

Cardiac Arrest

Follow CA Protocol and Fast Bleep Cardiac Surgery - 0200

Massive Haemothorax

Chest drain >1.5L, >200ml/hour or unstable

Fast Bleep Cardiac Surgery – Consider CT angio or Urgent Theatre for Thoracotomy

Stable

Needs Admission with or w/o chest drain

Admit initially under cardiac surgery for first 24h at STH. Then if stable, transfer to Guys under thoracic surgery

Blunt Force Injury

Sternal Fracture

Cardiac Surgery - 0200

Rib Fractures and Pulmonary Contusions

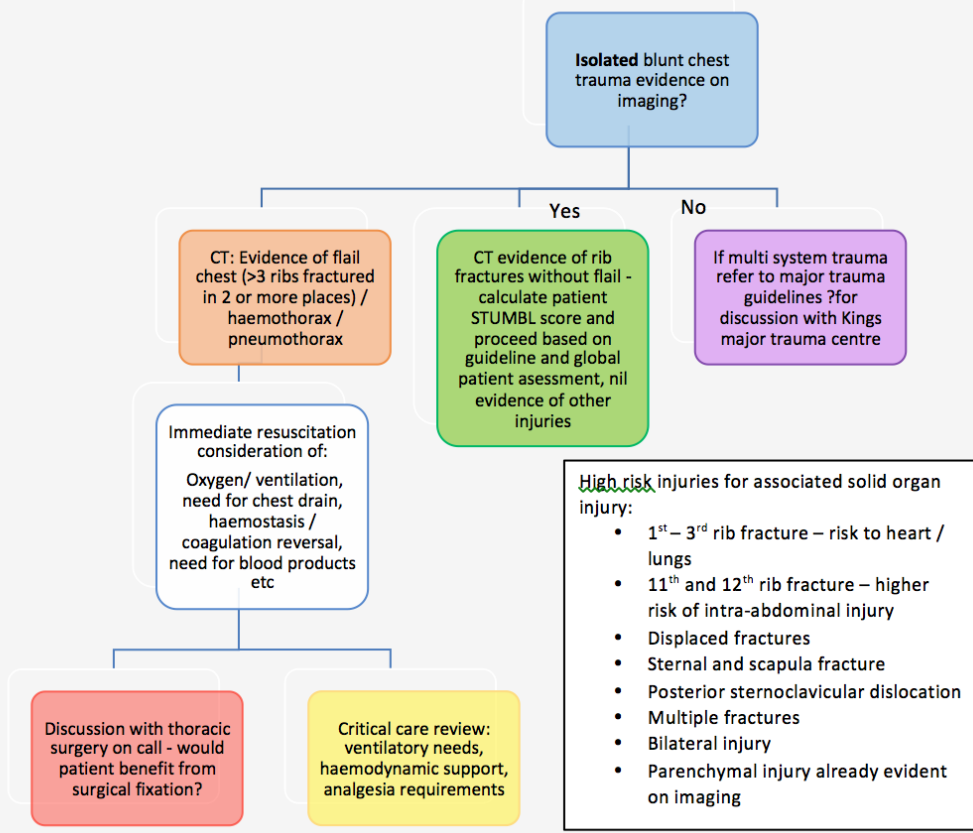
Please follow Rib Fracture Pathway (Overview Below, Full Pathway on ED Clinical)

Thoracic Surgery Admission:

- All other injuries must be ruled out before admission under thoracic surgery.
 - Pts needing admission overnight will need a Guy's HDU bed.
- If no beds available, the pt is to be admitted under Cardiac Surgery at STH until a bed is available.

If the Pt is Frail, it's OOH or Requiring a Regional Block – Please Refer to Full Rib Fracture Pathway Document

Stage 1: Identification of rib fractures on clinical assessment/abnormality noted on CXR/CT thorax



Stage 2: Calculate STUMBL score and document CFS for patient to predict risk of pulmonary complications with 48-72 hours

STUMBL score	Points
Age (1 point for every decade >10 years old)	
Oxygen saturations (2 points for every drop of 5% saturations less than 95% on room air)	
Rib fracture score (3 points for every fracture, regardless of multiple fractures per rib)	
Anticoagulant/antiplatelets (4 points)	
Pre-existing chronic lung disease (5 points if COPD / fibrosis / asthma / bronchiectasis)	
Total Score	

STUMBL score	Probability of developing complications
0-10	13% +/- 6
11-15	29% +/- 8
16-20	52% +/- 8
21-25	70% +/- 6
26-30	80% +/- 6
31+	88% +/- 7

Provided nil thoracic surgical input and advice from Major Trauma Centre to manage locally:

<p>STUMBL score: 0-10 (risk of complications 13% +/- 6)</p> <p>Low risk for complications:</p> <ul style="list-style-type: none"> consider patient discharge if appropriate* with advice for deep breathing exercises, regular TTO analgesia and safety netting (see appendix 4 for patient information leaflet) In hours: Patient may be suitable for MSAU for further analgesia +/- STAT assessment – could identify patients who will benefit from falls clinic OOH: onwards referral to appropriate clinic eg. bone health <p>*Conditions: good oxygenation, able to deep breathe and cough without pain, adequate cognition to comply with advice and optimal social situation for good recovery</p>	<p>Referrals via SMARTPage but if require discussion:</p> <p><i>Medical SpR</i> bleep 0154 / ext 58929</p> <p><i>Acute Frailty Team</i> bleep 3024 / ext 57641</p> <p><i>Chest physio/rehab</i> bleep 2103 (hours 0830-2000 7 days a week) OOH on call physio via switchboard - only for acute respiratory deterioration</p> <p><i>Acute pain team</i> bleep 1523 / ext 80532 (hours: 9-5 mon-fri)</p> <p><i>Anaesthetics SpR</i> bleep 0153</p> <p><i>Clinical Response Team SpR</i> bleep 0610 SP 07871734296</p> <p>At any stage patient needs critical care team review if:</p> <ul style="list-style-type: none"> Oxygen requirements >4 litres to maintain sats >94% or evidence of respiratory distress <p>Patient needs regional anaesthesia and acute pain / anaesthetics review if:</p> <ul style="list-style-type: none"> Still unable to deep breathe or cough due to pain after oral analgesia <p>As with any patient:</p> <ul style="list-style-type: none"> Risk vs benefit assessment for stopping anticoagulation / reversal of coagulopathy
<p>STUMBL score: 11-15 (risk of complications 29% +/- 8)</p> <p>Moderate risk for complications:</p> <ul style="list-style-type: none"> Consideration of serratus anterior block within the ED +/- discussion with anaesthesia for consideration of regional anaesthesia Admit patient for analgesia according to the WHO analgesia ladder and individual patient requirements All admissions as per thoracic referral pathway Physiotherapy assessment 	
<p>STUMBL score: 16-20 (risk of complications 52% +/- 8)</p> <p>High risk of complications:</p> <ul style="list-style-type: none"> Clinical response team (CRT) review Consideration of need for Patient Controlled Analgesia / Epidural / Regional anaesthesia as appropriate – review from acute pain team in hours and anaesthetics out of hours Physiotherapy assessment 	
<p>STUMBL score: >21 (risk of complications >70%)</p> <p>High risk of complications:</p> <ul style="list-style-type: none"> Clinical response team (CRT) review and agreement of escalation plan – these patients benefit from Level 2 monitoring admission for first 24h even if not otherwise appropriate for organ support Early (24/7) anaesthetic intervention including nerve blocks is key Discussion with thoracic surgery Anaesthetics/ acute pain review for analgesia optimisation Physiotherapy assessment 	

Clinical Frailty Score

CRT review if YES to any injury

CT AP Confirmed

Penetrating Injury

Including Buttock/Groin

Vessel Injury and/or Heavy Bleeding?

YES:
Fast Blp Vascular or call via switch

NO:
Emergency General Surgery
SpR Bleep 0810
SHO Bleep 0145 or Smartpage

Blunt Force Injury

Kidney

Urology SpR via Switch/SP (Guys)

If unable to contact Urology Consultant or pt not stable for transfer
Gen Surgery SpR Blp 0810

Liver

Consider KCH Liver Unit transfer if requiring specialist care

If pt not stable for transfer or not for KCH: Gen Surgery SpR via 0810 or Smartpage

Fracture of the Pelvis or Acetabulum

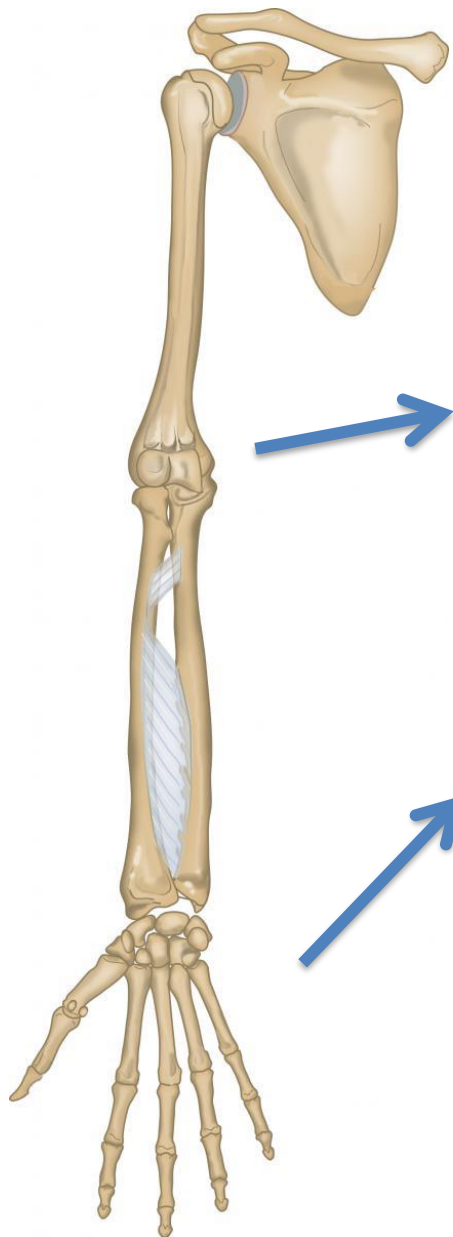
If haemodynamically stable admit under Orthopaedics at STH for semi elective transfer

If Unstable:
Urgent transfer to KCH Discuss with Major Trauma Consultant via Switch by senior

All Other Abdominal Trauma

General Surgery
Blp 0145 or via smartpage if stable

If evidence of trauma to reproductive organs
Gynae SpR Blp 0480 or smartpage



Upper Limb

Orthopaedics

Fracture or joint injury:
Shoulder to proximal carpal row.

Tendon injury:
Rotator cuff, biceps and triceps

Plastics

Fracture or joint injury:
Distal carpal row and all bones more distal

Tendon injury:
Forearm, wrist, hand

Soft Tissue Injury:
Stabbings, lacerations, burns
+/-Skin loss, foreign bodies.



Lower Limb

Orthopaedics

Fracture, joint and tendon injuries
including to the foot.

Plastics

Soft Tissue Injury:
Stabbings, lacerations, burns
+/-Skin loss, foreign bodies.

Vascular

Any vessel injury above the distal carpal row. Below that call plastics.

KCH Orthopaedics Referral:
If extensive open fractures/severe tissue loss
—needs urgent KCH orthopaedics referral.

ASSESSMENT

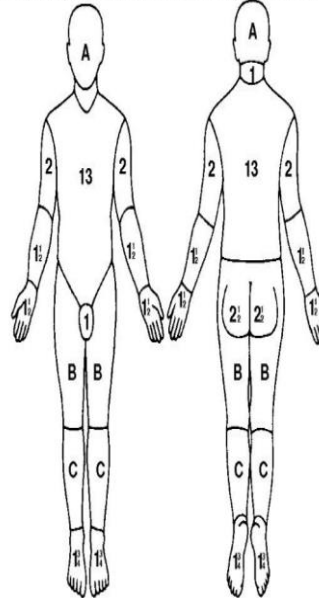
Assess as below; refer if any of the features in **bold** are present:

- CAUSE
 - Inhalation injury
 - Electrical
 - Chemical
 - Burns with trauma
 - Suspected NAI or self-harm
- BURN DEPTH
 - Superficial/erythema
 - Superficial partial thickness
 - **Deep dermal**
 - **Full thickness**
- AFFECTED AREA
 - Risk areas: **face, scalp, ears, hands, feet, genitals**
 - **Circumferential burns**
 - **Joint involvement**
- SIZE
 - **>3% TBSA in adults**
- PATIENT DEMOGRAPHICS
 - **Age >60 years**
 - Significant co-morbidities (e.g. **diabetes**)
 - **Immunocompromise**
- WOUND
 - **Not healed after 2 weeks**
 - **Infection**
- SYSTEMIC FEATURES
 - Any features of **Toxic Shock Syndrome/ Burn Sepsis Syndrome: T >38°C, rash, diarrhoea and vomiting, malaise, not eating/drinking, tachycardia, tachypnoea, hypotension, reduced urine output**

Please refer to the LSEBN Guidance (www.lsebn.nhs.uk) for detailed management and assessment of burns.

Burn % TBSA Chart

① Draw skin loss areas you see. Do not include simple erythema in %TBSA estimation.



Area/Age	0	1	5	10	15	Adult
A = 1/2 one head	9 1/2	8 1/2	6 1/2	5 1/2	4 1/2	3 1/2
B = 1/2 one thigh	2 3/4	3 1/4	4	4 1/2	4 1/2	4 3/4
C = 1/2 one lower leg	2 1/2	2 1/2	2 3/4	3	3 1/4	3 1/2

MANAGEMENT

- FIRST AID
 - Cool for 20 mins with running water
 - Irrigate any chemicals
- PREPARE
 - Analgesia
 - Consider **tetanus immunisation**
 - Clean wound, remove non-viable tissue
 - Photograph
- ELEVATE BURNED AREAS
- DRESSINGS
 - Cover with loose longitudinal cling film (excl. face)
- FLUID RESUSCITATION, if:
 - **>15% TBSA burns in adults**
 - **>10% TBSA burns in elderly**
 - 24 hr fluid requirements from time of injury = **4mls x kg x %TBSA burned**
 - Half to be given in **first 8 hrs**
 - Half to be given in **next 16 hrs**

REFERRAL

Complete referral form via TRIPS (www.trips.nhs.uk) and attach photographs.

Refer to Chelsea and Westminster burns unit via:

- Adults: **02033152500**

8. POLYTRAUMA

All patients require CRT & anaesthetic review

Unstable Polytrauma

For URGENT discussion with KCH Major Trauma Consultant. Also refer to KCH acute referral for Major Trauma online:

- KCH bleep 950
- Or 02032995447
- Then portal: <https://nww.ihtl.nhs.uk/teleomedic5/resource/Trauma/TraumaHTStartRefer>

Trauma requiring surgery by more than one team

- Admit under the surgical specialty with the highest acuity injury requiring theatre first.
- If equal levels of acuity for consultant discussion with CRT input.
- Consider early discussion with Kings Major Trauma Team and refer via portal

Trauma requiring surgery by one team

Admit under the operating team.
Review as required by other teams on the ward.

Stable Polytrauma NOT Requiring Surgical Intervention

1. Consider **URGENT** discussion with KCH Major Trauma Consultant and complete online referral via portal. If the patient is not for transfer to KCH move to step 2.

2. Discuss the patient with CRT/consider the need for a higher acuity bed in HDU/ITU.

3. If suitable for ward-based care:
Admit pt under team with **HIGHEST** acuity injury. i.e.:

a) **Intra-abdominal trauma** requiring period of observation i.e. hepatic/splenic lacerations, admit under general surgery

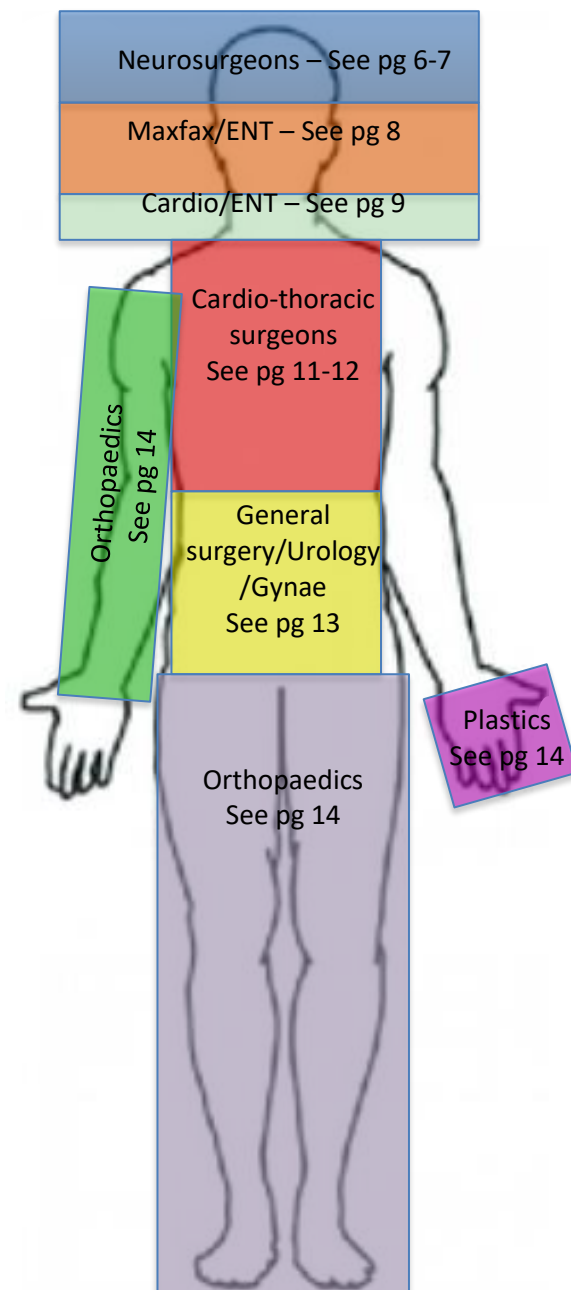
b) **Rib fractures** with STUMBL >11 or sternal fracture: admit under cardiac surgery at STH with thoracic input. Pts with Polytrauma are NOT to be transferred to Guys within the first 24 hours.

c) **If several injuries of equal acuity** - the pt must be discussed with the entire trauma team/MDT to determine the most appropriate admission pathway. Involvement of senior level discussion as required to make decision in a timely manner to avoid delays.

Please refer to adjacent image for an overview referral guide. More detailed referral information can be found under headings throughout this document.

When to Refer to Acute and General Medicine:

Only on Consultant agreement
AND
Absence of significant injuries requiring surgery or CRT
PLUS
Evidence of clear intercurrent acute medical problem e.g. pneumonia
OR
Evidence of clear medical cause for collapse/fall*
OR
Evidence of significant substance withdrawal (e.g. alcohol)
OR
Clinical Frailty Score 5-9
OR
For end of life care



References

1. Trauma team activation criteria V2.0, February 2021: ED S-drive
2. CT Head Criteria: [Head injury: assessment and early management \(nice.org.uk\)](#)
3. Facial injury pathway: ED S-drive
4. C spine imaging decision tree (on GTi): <http://tww-wafr/WAFR-FAD/Applications/ClinicalGuidance/DocumentViewer.aspx?d=8742>
5. GSTT Rib Fracture Pathway, December 2022: ED S-drive
6. LSEBN Initial Management of Burn Wounds: [LSEBN Initial Management of Burn Wounds.pdf](#)
7. LSEBN Burn Referral Guidelines: Criteria for Referral: [LSEBN Burns Referral Criteria.pdf](#)
8. LSEBN Burn Referral Guidelines: How to Refer: [LSEBN How to Refer.pdf](#)