REACE to Chest Trauma The 5 main goals in managing a patient with chest injuries: 1. R apid appropriate referral 2. E arly mobility 3. A voidance of future problems 4. C ontrol of pain 5. T argeted nutrition	 High risk features (go to step 3 below) Flail segments and multiple rib fractures (3+) Pneumothorax / Haemothorax Respiratory disease Obesity (BMI > 35) Nutritionally deficient Uncomplicated sternal fractures High energy impacts Uncontrolled pain Frailty scores > 4 (see over) Chest injury score >16 (see over) 	REACE The Shrewsbury and Telford Hospital NHS Trust
 If rib or sternal fractures identified OR a history of chest trauma of FBC, U&E, coagulation, and a chest X-ray. Consider ordering a CT of the chest if there are 2 or more sure of the considering admission, then refer to the appropriate team. Admitted patients should be nursed on a ward capable of lotteam. If a flail segment is present, refer to the cardiothoracic team a surgery. Contact the cardiothoracic team at UHNM (Tel: 0178) Physiotherapy input as soon as analgesia is established. Call 825 or via Switchboard). Record pain scores, respiratory rate and oxygen saturations. The aim is for the patient to be able to cough, deep breathered. 	with pain or difficulty in breathing suggests likely #, ACTION: spected rib fractures to help evaluate lung contusions. (<i>e.g.</i> orthopaedics/general surgical/care of the elderly). oking after block infusion pumps under the care of the admitting at UHNM (Tel: 01782 715444). If to use as a guide on who should be considered for rib fixation 32 715444). the on call physiotherapist if urgently required out of hours (Bleep and mobilise with no more than mild pain.	 Ongoing daily pain management - to be assessed every day Check that the analgesic plan continues to be adequate Check that the patient is comfortable enough to sleep adequately Check that the patient can comply with physiotherapy needs Ensure that oxygen requirement (if any) is improving If the clinical picture is deteriorating, or new requirements develop, then consider the development and management of lung contusions (early) or pneumonia (later).
 STEP 1: No high risk features and mild to moderate pain Inform acute pain team Consider oxygen especially with the use of opioids. Consider the use of anti-emetics and laxative with the use of opioids Oral analgesia as per WHO analgesic pain ladder: Paracetamol 1g QDS PO or IV Ibuprofen 400mg TDS/QDS (avoid if age >70 or renal disease) Codeine 30-60mg QDS (avoid if age >70 or renal disease) Oral morphine 10-20mg 4 hourly or Oral IR Oxycodone (age >70, eGFR <45) 5-10mg 4 hourly 	 STEP 2: Moderate to severe pain Inform acute pain team Consider oxygen especially with the use of opioids. Consider the use of anti-emetics and laxative with the use of opioids Analgesia: * Step 1 analgesia * Initial: Morphine or Oxycodone 0.1mg/kg IV PRN titrated to effect * Continuing: PCA morphine or fentanyl (as per Trust guidelines). Refer to ICU Registrar (Bleep 845 or ext. 1148) for consideration of regional analgesia (ensure coagulation and platelet counts available for anaesthetist's information) 	 STEP 3: High risk features and/or severe pain Refer to ICU Registrar (Bleep 845 or ext. 1148) for assessment of pain management (to include regional block if possible) and potential admission to ICU Inform acute pain team Consider transfer to major trauma centre due to high morbidity and mortality rates Ensure coagulation and platelet counts available for anaesthetist's information Regional block to include either: SAP block with catheter (unilateral anterior/lateral #) ESP block with catheter (any unilateral) Epidural (bilateral)

REAC to Chest Trauma

The 5 main goals in managing a patient with chest injuries:

- 1. Rapid appropriate referral
- 2. Early mobility
- 3. Avoidance of future problems
- 4. Control of pain
- 5. Targeted nutrition



Chest Injury Score				
Risk factor	Patient	Range	Score	
Age	11-20	1		
	21-30	2		
	31-40	3		
	41-50	4		
	51-60	5		
	61-70	6		
	71-80	7		
	81-90	8		
	91-100	9		
Number of ribs fractured	3 points per rib			
Chronic lung disease	Yes	5		
Pre-injury anti- coagulant use	Yes	4		
Patient oxygen saturation (%)	95-100	0		
	90-94	2		
	85-89	4		
	80-84	6		
	75-79	8		
	70-74	10		
		Total		



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