

Specific Fracture Management in Emergency Department/Walk-in-Centre

(Post-op complications should be referred to FY2 on-call not VFC)

OPTIONS

- Discharge home
 Refer to Orthopaedic SHO on-call to be discussed at trauma meeting or admission
 Review in ED Clinic
 Refer to Virtual Fracture Clinic (VFC)

	UPPER LIMB	LIMB		
Diagnosis	Initial Treatment	A&E/WIC Management	Important info for VFC	Standard VFC Management
Clavicle # (adults)	Polysling	VFC	NV intact? Open / closed injury? Skin tenting?	F2F # clinic
Clavicle # (children)	Polysling	VFC	NV intact? Open / closed injury? Skin tenting?	D/C
Neck of humerus #	Collar and cuff	VFC Dementia and/or Nursing Home = discharge home)	NV intact? Open / closed injury?	F2F # clinic

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Greater	Greater tuberosity of humerus #	Collar and cuff	VFC	NV intact? Open / closed injury?	D/C
3	Shaft of humerus #	Humeral brace / U-Slab	Refer to Ortho SHO	N/A	N/A
Ø	Shoulder dislocation	Reduce & polysling	VFC	NV intact? – Military badge sensation Traumatic? atraumatic?	Atraumatic – D/C to Physio Traumatic – D/C to physio to assess for labral tear / RC tear – refer to F2F # clinic if required
Shoulder # + dislocation	Isolated greater tuberosity # + pt <50	Reduction in A&E Polysling	If unable to reduce → refer to Ortho SHO If successful reduction →VFC	N/A	N/A
	Non-isolated greater tuberosity # or pt >50	Reduction in A&E / theatre Polysling	If unable to reduce → refer to Ortho SHO If successful reduction →VFC	N/A	N/A
Acron	Acromio-clavicular joint injury	Polysling	VFC	NV intact?	Grade 1-2 – D/C Grade 3 –physio Grade 4-5 F2F # clinic + physio
Q	Distal biceps rupture	USS + polysling	VFC	N/A	N/A
	Pec Major rupture	USS + polysling	VFC	N/A	N/A

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	Elbow dislocation	Reduce Backslab/ Polysling	If unable to reduce → refer to Ortho SHO If successful reduction →VFC	N/A	N/A
Supracondyla r humerus # (children)	Undisplaced	Above elbow backslab Post backslab - AP & Lat x-ray	VFC	NV intact? Open / closed injury?	F2F # clinic
	Displaced	Above elbow backslab in flexion as pain allows Post backslab AP and Lat x-ray	Refer to Ortho SHO	N/A	N/A
Proximal radius (head / neck) #	Undisplaced	Collar and cuff	VFC	NV intact? Open / closed injury?	D/C + refer to physio
	Displaced / marginal #/ comminuted	Polysling / Backslab if very painful	VFC	N/A	N/A
Olecranon #	Undisplaced	Backslab / Polysling	VFC	NV intact? Open / closed injury?	F2F # clinic
	Displaced	Backslab / Polysling	Refer to Ortho SHO	N/A	N/A
Scaphoid #	Confirmed	Scaphoid POP	VFC	NV intact? Open / closed injury? ASB / scaphoid tubercle tenderness? Axial grind test +ve?	F2F# clinic

V7 Updated July 2025 J Ballester

	'n	Unconfirmed	Splint with thumb extension	ED Review Clinic for repeat x-ray 10 days – 2 weeks post injury	N/A	N/A
Carpal bo	Carpal bone # (excluding scaphoid #)	ng scaphoid #)	Backslab	VFC	NV intact? Open / closed injury?	F2F # clinic
Bennett's fractu	ure (intra-articı	Bennett's fracture (intra-articular base thumb MC)	Bennett's POP	VFC	N/A	N/A
Neck / sh	Neck / shaft 1st (thumb) metacarpal #	metacarpal #	Splint with thumb extension	VFC	NV intact? Open / closed injury? Rotational deformity?	D/C +/- hand physio
5th metacarpal neck / head #	Undisplace	isplaced / min displaced	Buddy Strap	VFC	NV intact? Open / closed injury? Rotational deformity / scissoring?	D/C +/- hand physio
	Rotatior sc	Rotational deformity or scissoring	Buddy strap	VFC	N/A	N/A
	Angulat	Angulated >40 degrees	Buddy strap with volar slab	Refer to Ortho SHO	N/A	N/A
Fracture metacarpal shaft/base	์ ว	Undisplaced	Buddy Strap Multiple MC #'s consider buddy strap + volar slab	VFC	NV intact? Open / closed injury? Rotational deformity / scissoring?	D/C
	Displaced		Buddy strap	VFC	NV intact?	D/C +/- physio

V7 Updated July 2025 J Ballester

	<50% displaced/ <50° angulated/ no rotational deformity	Multiple MC #'s consider buddy strap + volar slab		Open / closed injury? Rotational deformity / scissoring?	
	>50% displaced />50° angulated/ rotational deformity	Buddy strap + Volar slab	Refer to Ortho SHO	N/A	N/A
Proximal / middle phalanx #s	Undisplaced	Buddy strap	VFC	NV intact? Open / closed injury? Rotational deformity / scissoring?	D/C +/- hand physio
	Displaced / rotated	Manipulate with ring block/Entenox	VFC	N/A	N/A
IP, MCP & CMC	& CMC joint dislocation(s)	Reduce + buddy strap + futura splint if MCPJ / CMCJ	If unable to reduce → refer to Ortho SHO If successful reduction →VFC	N/A	N/A
Displaced fc dislocation,	Displaced forearm #s (Monteggia fracture dislocation, Galeazzi fracture dislocation)	Above elbow backslab	Refer to Orthopaedic SHO	N/A	N/A
Isolated uina shaft #	Undisplaced	Above elbow backslab	VFC	NV intact? Open / closed injury?	F2F # clinic
	Displaced	Above elbow backslab	Refer to ortho SHO	N/A	N/A

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Crush Fracture terminal phalanx	Closed	Consider trephining	VFC	NV intact? Open / closed injury? Mallet deformity?	D/C +/- Hand physio (may need preventative mallet splinting for 3-4/52)
	Open	Wound washout +/- nail bed repair in ED Non-adherent dressing/antibiotic if contaminated	Refer to Plastics Team	N/A	N/A
Mallet injury	Soft tissue	Mallet splint	VFC	NV intact? Open / closed injury?	D/C + hand physio (NB mallet splint for 8/52)
	Bony	Mallet splint	VFC	NV intact? Open / closed injury?	D/C + hand physio (NB mallet splint for 6/52)
Children's wrist #	Undisplaced/ minimally displaced distal radius/ ulna greenstick fractures	Backslab	VFC	NV intact? Open / closed injury?	F2F # clinic
I	'Torus/buckle' fracture distal radius / ulna	Offer bandage	No follow up required	NV intact? Open / closed injury?	D/C

	(<13 years) displaced distal radius / ulna #s requiring manipulation	years) displaced distal ius / ulna #s requiring manipulation	Backslab Urgent MUA required in ED when immediate/impending neurovascular compromise to limb using haematoma/ Biers block	Refer to Orthopaedic SHO	N/A	N/A
	Distal radius / ulnar Salter- Harris #s	Displaced	Backslab	Discussion with ED Reg/ Consultant/ Ortho SHO If non-surgical – F2F # clinic	N/A	N/A
		Undisplaced	Backslab	VFC	NV intact? Open / closed injury?	F2F# clinic
Adult wrist#	Extra-articular adult undisplaced //minimally displaced #s & Low functional demand e.g. dementia, paralysed limb patients (stroke)	ult undisplaced placed #s & demand e.g. alysed limb	Futura splint with thumb extension	VFC	NV intact? Open / closed injury?	D/C +/- physio
	Extra-articular adult undisplaced /minimally displaced #'s- normal functional demand	ult undisplaced placed #'s- nal demand	Backslab	VFC	NV intact? Open / closed injury?	F2F # clinic vs D/C
	Intra-articular undisplaced/minimally fractures	Intra-articular Iaced/minimally displaced fractures	Backslab	VFC	NV intact? Open / closed injury?	F2F # clinic
	Ulna styloid #	loid #	Futura splint	VFC	NV intact?	D/C

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	N/A	N/A	N/A	N/A	N/A	N/A
Open / closed injury?	N/A	N/A	N/A	N/A	N/A	N/A
	If successful reduction →VFC If not successful → refer to Ortho SHO (dependent on functional status)	VFC	VFC	Refer to Ortho SHO	Refer to Ortho SHO	Refer to Ortho SHO
	Haematoma/Biers block, MUA & backslab	Haematoma/Biers block, MUA & backslab	Haematoma/Biers block, MUA & backslab	Backslab	Backslab	Backslab Haematoma/Biers block + urgent MUA when immediate / impending neurovascular compromise
	# with dorsal ement	<65 years	>65 years	# with volar ement	lisplaced # of adius	yy injury, acture, al deficit, ff-ended, ole fracture of s and ulna
	Extra-articular# with dorsal displacement	Colles # (intra-articular)		Extra-articular # with volar displacement	Intra-articular displaced # of distal radius	High energy injury, Open fracture, Neurological deficit, Fracture off-ended, Grossly unstable fracture of distal radius and ulna
	Adult wrist#					

LOWER LIMB

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Acute Paec	Acute Paediatric Osteochondral Knee #	Cricket Pad splint	Refer to Ortho SHO	N/A	A/N
(intra-articul <u>a</u>	Hoffa Fracture (intra-articular supracondylar distal femur #)	Cricket Pad splint	Refer to Ortho SHO	N/A	N/A
Patella dislocation	Able to SLR	Reduce + Cricket Pad splint Check x-ray post-reduction	VFC	Able to SLR? Primary / recurrent?	D/C to physio
	Unable to SLR	Reduce + Cricket Pad splint Check x-ray post-reduction	Refer to Ortho SHO	N/A	∀/N
Soft tissue knee injury	Limited clinical Ax due to pain / swelling	AP + Lat x-ray Cricket pad splint + crutches	ED review Clinic	N/A	N/A
	Obvious Laxity / locking (block to ext) /signs of clinical instability / unable to SLR / obvious swelling or haemarthrosis, acute swelling within 2 hours with pop (heard or felt)	AP + Lat x-ray Cricket pad splint + crutches if required	Refer to Ortho SHO	N/A	N/A
	Nil laxity, Nil locking (block to ext), Nil signs of clinical instability + able to SLR, nil effusion	AP + Lat x-ray Crutches if required	D/C with advice / to physio	N/A	N/A
	Grade 1 (tender without laxity)	AP + Lat x-ray	ED Review Clinic	N/A	N/A

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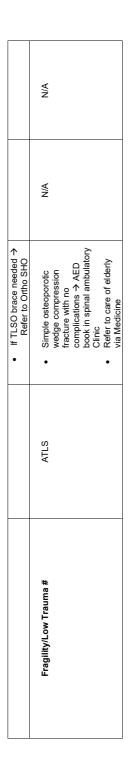
Isolated displaced Weber B Bac fracture distal fibula fracture with medial tenderness/ bruising /talar shift	Isolated Weber C fracture distal Bac fibula	Bi-malleolar/ tri-malleolar Fracture	Calcaneal # Undisplaced Padde pain/swelling analgesia an weighl	Displaced Padde pain/swelling analgesia an weighi	Isolated metatarsal #s Fixed w	Multiple metatarsal #s / crushed foot Fixed w	Phalangeal #s Budd
Backslab	Backslab	Backslab	Padded crepe if pain/swelling++ or backslab, analgesia and crutches non-weight bearing	Padded crepe if pain/swelling++ or backslab, analgesia and crutches non- weight bearing	Fixed walker boot	Fixed walker boot	Buddy strap
Refer to Ortho SHO	Refer to Ortho SHO	Refer to Ortho SHO	VFC	Refer to Ortho SHO	VFC	VFC	VFC
N/A	N/A	N/A	NV intact? Open / closed injury?	N/A	NV intact? Open / closed injury?	NV intact? Open / closed injury?	NV intact?
N/A	N/A	N/A	N/A	N/A	D/C	F2F # clinic	D/C

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Diagnosis	Initial Treatment	A&E Management	Important info Standard VFC for VFC	Standard VFC Management
Non-fragility/High Trauma#	ATLS	 AED discuss with Walton Centre 	N/A	N/A

V7 Updated July 2025 J Ballester



SOFT TISSUE INFECTIONS (incl. insect bite)



A/N	N/A
N/A	N/A
Refer to Plastics Team	Refer to Medicine
History and examination	History and examination
Hand/ Upper Limb	Cellulitis Lower limb

Exclusions to Virtual Fracture Clinic

17

- Homeless patients
- Non-English speaking patients
 - Prisoners
- Those with hearing difficulties
 - Patients with dementia
- Those with no access to a telephone
- Safeguarding concerns (Including alleged assault cases)
 If ED Practitioner feels the patient requires a face-to-face appointment e.g. if telephone conversation would be difficult
 - In these circumstances refer to Ortho SHO

 Chronic Conditions → Discharge and GP to refer to elective orthopaedic clinic as per agreed pathway.

Changes made to document: -

V7 Updated July 2025 J Ballester

<u>Date</u>	Condition	<u>Changes</u>
	Proximal/middle phalanx #'s (displaced/rotated)	Change from AED mx of buddy strapping to manipulate with ring block/entenox. Refer to SHO if needed
	Crush Fracture terminal phalanx	Change from review in ED review clinic to refer to plastics team
	Extra-articular undisplaced/minimally displaced #'s	Addition of normal function aspect with management of backslab and VFC.
	Intra-articular undisplaced/minimally	Changed from VFC assessment to face to face fracture clinic for
Feb 2020	displaced fractures	assessment.
	Colles # (extra-articular)	Change condition title to extra-articular with dorsal displacement.
		Change AED management from F2F # clinic to if successful
		reduction →F2F # clinic, If not successful → refer to Ortho SHO
		(dependent on functional status)
	Smith's#	Change to extra-articular fracture with volar displacement
	Barton's#	Change to Intra-articular displaced # of distal radius
March 2020	All with plan for F2F # clinic	All F2F clinic removed and plan for refer to ortho SHO or VFC
	Achilles Rupture	Addition of: A book 1 x stop clinic on Thurs am or pm (Mr.
		ballester s/Mir. Morgan s # clinic) and arrange USS.
	Spinal Fractures	Addition of new table incorporating spinal fracture management
August 2020	Soft Tissue Infections	Addition of new table incorporating soft tissue infection management
	VFC Exclusion Criteria	Addition of chronic conditions to be discharged from AED and directed to GP for referral to elective orthopaedic clinic.