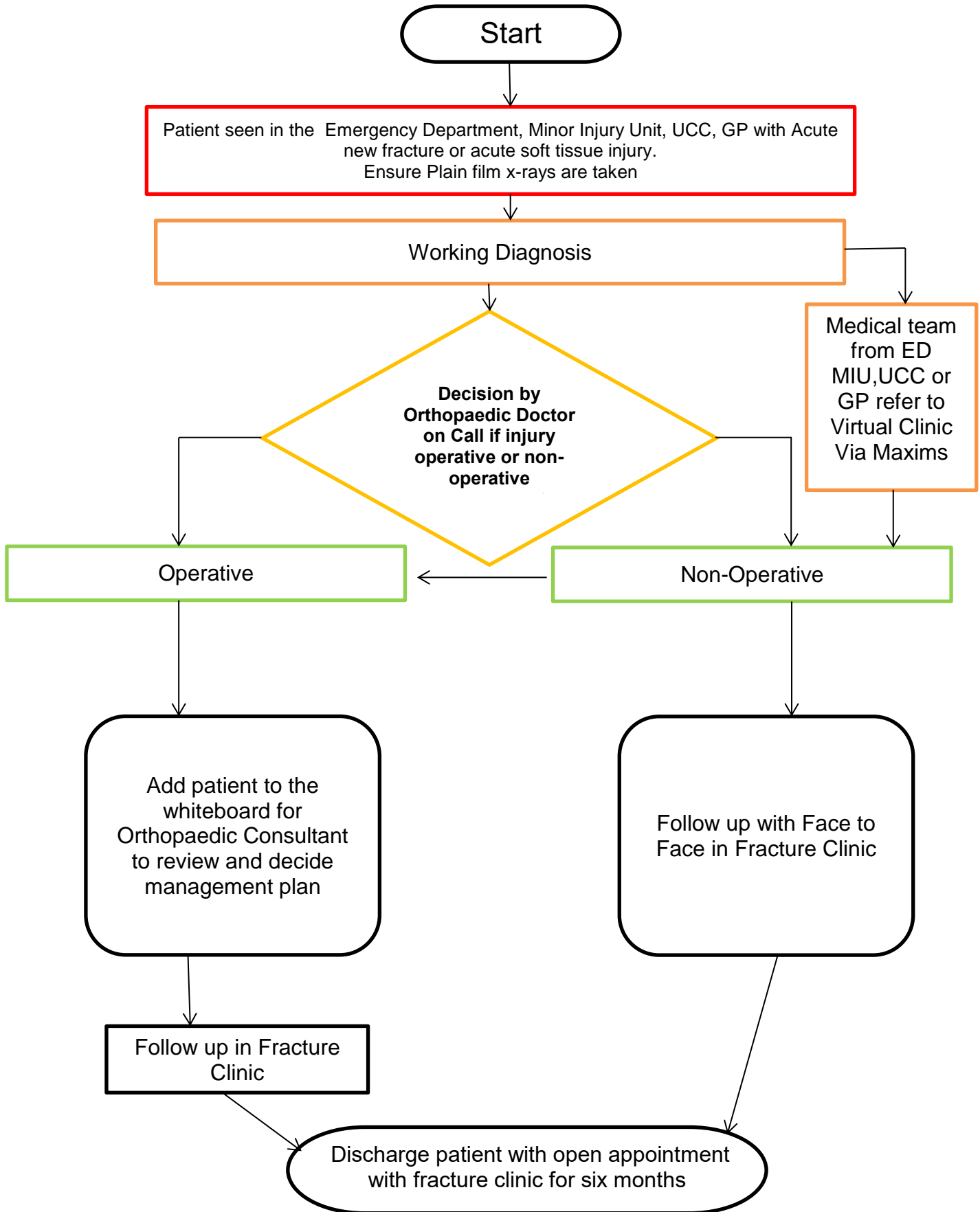


Non-Operative Fracture Management for Virtual and Fracture Clinic Clinical Guideline

V1.0

February 2020

Summary



1. Aim/Purpose of this Guideline

1.1. This guideline applies to all staff working within fracture clinic and the virtual fracture clinic. It also applies to ED, MIUs and GP's that refer into fracture clinic. The aim is to create a guideline for the above staff to use for the management of non-operative conditions both bony and some soft tissue injuries and improve the clinical effectiveness and the patients experience of the virtual fracture clinic and fracture clinic through standardisation of practice.

1.2. The purpose of the guideline is to support all junior staff both static and rotating through fracture clinic and staff working in the virtual fracture clinic to have an evidence based standardised document to guide their clinical practice. It also provides the department with a tool to audit our management of these injuries and allows us to comply with BOAST 7 guidelines.

1.3. This clinical guideline will also enable us to GIRFT: get patients seeing the correct specialist in the correct clinic at the optimum time limit for their particular injury, minimise unnecessary patient journeys and manage certain injuries virtually once seen by orthopedic consultant and discharge over the phone with a clinical letter

1.4. This version supersedes any previous versions of this document.

1.5. **Data Protection Act 2018 (General Data Protection Regulation – GDPR) Legislation**

The Trust has a duty under the DPA18 to ensure that there is a valid legal basis to process personal and sensitive data. The legal basis for processing must be identified and documented before the processing begins. In many cases we may need consent; this must be explicit, informed and documented. We can't rely on Opt out, it must be Opt in.

DPA18 is applicable to all staff; this includes those working as contractors and providers of services.

For more information about your obligations under the DPA18 please see the 'information use framework policy', or contact the Information Governance Team rch-tr.infogov@nhs.net

2. The Guidance

Staff should be using this guideline to guide their management decisions of the injuries included within the document in the virtual fracture clinic and face to face fracture clinic. These guidelines will be updated onto clinical documents and promulgated to all within the department digitally with paper copies available in relevant clinical areas. When new staff rotate, these guidelines will be included within the induction process.

3. Monitoring compliance and effectiveness

| | | | | | | | |
|-------------------------|---|--|---------------------------------------|----------------------------------|-------------------------------------|---------------------------------------|-----------------------------------|
| Element to be monitored | Adherence to guidelines in practice | | | | | | |
| Lead | Sharon O’Sullivan (APP), trauma lead in post, | | | | | | |
| Tool | <ol style="list-style-type: none"> 1. A selection of the more common Injuries to be audited for adherence to guideline 2. Select a review period over time with a minimum number of injuries.e.g within last 3 or 6 months 3. Audit using bluesprier clinical letters for how these conditions were managed 4. Compare actual clinical practice of each chosen injury amongst x number of clinicians to the suggested management in the guideline | | | | | | |
| | Injury/ Diagnosis | Guideline followed at VFC (Y/N) | Guideline followed at FC (Y/N) | No of face to face visits | No of xrays and at what week | Actual management if different | Open appt used if relevant |
| | e.g Distal radius | y | n | 4 | 3. week 1,2,6 | X-rayed at week 6 | no |
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| | | | | | | | |
| | <p>Injuries to audit initially in 1st 6 months</p> <ol style="list-style-type: none"> 1. 5th met 2. Paeds torus 3. Paeds clavicle 4. Distal radius <p>At 12 months</p> <ol style="list-style-type: none"> 1. Weber A, B, C 2. Clavicle fractures 3. Proximal humeral fractures 4. Patella dislocations | | | | | | |
| Frequency | <p>First year within 6 months and then annually, complete and share a report following the audit</p> <p>Annual sharing of adherence to the guideline within T and O audit meetings</p> | | | | | | |
| Reporting | Report to be sent to Clinical Director, Trauma Lead, Fracture Clinic Sister and | | | | | | |

| | |
|---|--|
| arrangements | Governance lead within the department and presented in monthly audit meeting. The consultant Orthopaedic team committee is expected to interrogate the report to identify any deficiencies in the system and act upon them |
| Acting on recommendations and Lead(s) | Clinical Director or Trauma lead to present deficiencies in the monthly directorate meeting and suggest required actions need to be identified and completed in a specified timeframe and a general consensus among Orthopaedic consultants will be met within a specified timeframe. Consider stating this responsibility in committee terms of reference |
| Change in practice and lessons to be shared | Required changes to practice will be identified and actioned within three months of audit. SOS or trauma lead will be identified to take each change forward where appropriate. Lessons will be shared with all the relevant stakeholders through both the audit and directorate meeting and comms emailed to all clinical staff. |

4. Equality and Diversity

4.1. This document complies with the Royal Cornwall Hospitals NHS Trust service Equality and Diversity statement which can be found in the ['Equality, Inclusion & Human Rights Policy'](#) or the [Equality and Diversity website](#).

4.2. *Equality Impact Assessment*

The Initial Equality Impact Assessment Screening Form is at Appendix 2.

Appendix 1. Governance Information

| | | | |
|---|---|----------|------|
| Document Title | Non-Operative Fracture Management for Virtual and Fracture Clinic Clinical Guideline V1.0 | | |
| Date Issued/Approved: | December 2019 | | |
| Date Valid From: | February 2020 | | |
| Date Valid To: | February 2023 | | |
| Directorate / Department responsible (author/owner): | Sharon O’Sullivan (Advanced Practice Physiotherapist) | | |
| Contact details: | 01872 253091 | | |
| Brief summary of contents | This is a clinical guideline for the management of fractures that are to be treated non operatively in adults and children. This guideline is to be used in both virtual and fracture clinic. It excludes the hand. | | |
| Suggested Keywords: | Virtual fracture clinic, non-operative fracture management, upper limb injuries, lower limb injuries, acute soft tissue knee injuries, soft tissue injuries | | |
| Target Audience | RCHT ✓ | CFT ✓ | KCCG |
| Executive Director responsible for Policy: | Medical Director | | |
| Date revised: | December 2019 | | |
| This document replaces (exact title of previous version): | New Document | | |
| Approval route (names of committees)/consultation: | Trauma and orthopaedics directorate meeting | | |
| Care Group General Manager confirming approval processes | Sidwell Lawler | | |
| Name and Post Title of additional signatories | Not Required | | |
| Name and Signature of Care Group/Directorate Governance Lead confirming approval by specialty and care group management meetings | {Original Copy Signed} | | |
| | Name: Becky Osborne | | |
| Signature of Executive Director giving approval | {Original Copy Signed} | | |

| | | | | |
|---|---|---|---------------|--|
| Publication Location (refer to Policy on Policies – Approvals and Ratification): | Internet & Intranet | ✓ | Intranet Only | |
| Document Library Folder/Sub Folder | Clinical / Trauma and Orthopaedics | | | |
| Links to key external standards | <ul style="list-style-type: none"> • Boast 7 fracture clinic Services • Fractures (non complex): assessment and management, NICE Guideline 38, 2016 • BOA Virtual Fracture Clinic Statement • BSCOS short-life working group: Report on Virtual Clinics in Children’s Orthopaedics • BOAST the management of distal radius fractures | | | |
| Related Documents: | <ul style="list-style-type: none"> • Referral pathway into virtual and fracture clinic • 5th metatarsal protocol | | | |
| Training Need Identified? | No | | | |

Version Control Table

| Date | Version No | Summary of Changes | Changes Made by (Name and Job Title) |
|---------------|-------------------|---------------------------|--|
| December 2019 | V1.0 | Initial version | Sharon O’Sullivan (Advanced Practice Physiotherapist) |
| | | | |

All or part of this document can be released under the Freedom of Information Act 2000

This document is to be retained for 10 years from the date of expiry.
This document is only valid on the day of printing

Controlled Document

This document has been created following the Royal Cornwall Hospitals NHS Trust Policy for the Development and Management of Knowledge, Procedural and Web Documents (The Policy on Policies). It should not be altered in any way without the express permission of the author or their Line Manager.

Appendix 2. Initial Equality Impact Assessment Form

| | | | | | | |
|---|--|--|----------------------------------|--------------|------------------------|-------|
| Name of the strategy / policy /proposal / service function to be assessed Non-Operative Fracture Management for Virtual and Fracture Clinic Clinical Guideline V1.0 | | | | | | |
| Directorate and service area: Trauma | | | New or existing document: New | | | |
| Name of individual completing assessment: Sharon O'Sullivan | | | Telephone: Ext 3091 | | | |
| 1. Policy Aim* <i>Who is the strategy / policy / proposal / service function aimed at?</i> | | 1. ED/ MIUs and UCC 2. GP practices 3. To support health care professionals working in fracture clinic 4. To support nursing staff and physio staff working in virtual fracture clinic | | | | |
| 2. Policy Objectives* | | Standardise treatment, Get it right first time, work within an evidence based practice | | | | |
| 3. Policy – intended Outcomes* | | Standardise treatment, Get it right first time, work within an evidence based practice | | | | |
| 4. *How will you measure the outcome? | | Audit as per Section 3. Monitoring compliance and effectiveness. | | | | |
| 5. Who is intended to benefit from the policy? | | Patients, health care professionals working within fracture clinic, peripheral clinics referring into fracture clinic (MIUs, GPs), ED staff, fracture clinic nursing staff, Trauma Coordinators and trauma Practitioners, ward staff and therapy teams referring into fracture clinic | | | | |
| 6a Who did you consult with | | Workforce | Patients | Local groups | External organisations | Other |
| | | ✓ | | ✓ | ✓ | ✓ |
| b). Please identify the groups who have been consulted about this procedure. | | Please record specific names of groups | | | | |
| | | Mr M. Butler, Mr J. Dainton, Mr R. Hawkins, Mr R. Poulter, Mr Al-Shawi , Surgeon Cdr Jon Matthews and Mr Tim Powell (APP), Mr R. Kincaid, Miss C Taylor, Mr R Walter, Mr R Middleton, Mr D Williams, Mr S Dixon, Mr P Easwarran, Mr M Divekar . Trauma and Orthopaedics Directorate Meeting | | | | |
| What was the outcome of the consultation? | | Introduce the guideline to the clinicians working in the department and disseminate to peripheral teams once the document clears governance. | | | | |

7. The Impact

Please complete the following table. **If you are unsure/don't know if there is a negative impact you need to repeat the consultation step.**

Are there concerns that the policy **could** have differential impact on:

| | | | | |
|-------------------|-----|----|--------|--|
| Equality Strands: | Yes | No | Unsure | Rationale for Assessment / Existing Evidence |
|-------------------|-----|----|--------|--|

| | | | | | | | |
|--|---------------|---|--|-----|---------------------------|----|---|
| Age | | ✓ | | | | | |
| Sex (male, female, trans-gender / gender reassignment) | | ✓ | | | | | |
| Race / Ethnic communities /groups | | ✓ | | | | | |
| Disability - Learning disability, physical impairment, sensory impairment, mental health conditions and some long term health conditions. | | ✓ | | | | | |
| Religion / other beliefs | | ✓ | | | | | |
| Marriage and Civil partnership | | ✓ | | | | | |
| Pregnancy and maternity | | ✓ | | | | | |
| Sexual Orientation, Bisexual, Gay, heterosexual, Lesbian | | ✓ | | | | | |
| <p>You will need to continue to a full Equality Impact Assessment if the following have been highlighted:</p> <ul style="list-style-type: none"> You have ticked “Yes” in any column above and No consultation or evidence of there being consultation- this <u>excludes</u> any <i>policies</i> which have been identified as not requiring consultation. or Major this relates to service redesign or development | | | | | | | |
| 8. Please indicate if a full equality analysis is recommended. | | | | Yes | | No | ✓ |
| 9. If you are not recommending a Full Impact assessment please explain why. | | | | | | | |
| 'Not indicated' | | | | | | | |
| Date of completion and submission | December 2019 | | Members approving screening assessment | | Policy Review Group (PRG) | | |
| | | | | | 'APPROVED' | | |

This EIA will not be uploaded to the Trust website without the approval of the Policy Review Group.

A summary of the results will be published on the Trust's web site.

Appendix 3.

Upper Limb injuries. NB: certain fracture patterns may need a different sling to ensure optimal outcome

| Type of injury | Non operative Management | VFC/ Clinic RV | Review Interval weeks | Repeat X-ray | Caution |
|---|--|----------------------|-----------------------|---------------------------------|---|
| Shoulder | | | | | |
| Clavicle (Adult) (med/middle/lateral) | Polysling (6 weeks) | VFC FC | 1-2 4-6 | Y If clinically indicated | <ul style="list-style-type: none"> Mal-union, Non Union Posterior displacement-mediastinal injury (CT chest) Nerve Injury Skin compromise |
| ACJ subluxation or ACJ dislocation Superior Posterior/ inferior (rare) | Polysling; (1-2 weeks) mobilise as comfort allows may require fixation polysling | VFC VFC | 1 -2 1-2 | Clinical Exam Yes +/- CT | <ul style="list-style-type: none"> Persistent pain/ deformity Posterior dislocation NV injury, mediastinal: urgent referral |
| Sternoclavicular dislocation | Polysling | Ant: YES Post: NO | 1-2 weeks | Clinical exam | <ul style="list-style-type: none"> Posterior dislocation-refer urgently CT, Potential compression of trachea/ great vessels Anterior: VFC |

| | | | | | |
|--|---|---|---|---|--|
| <p>Scapula</p> <p>Blade: Min displaced</p> <p>Glenoid, neck, acromion or Corocoid</p> | <p>1. Polysling for 1-2 weeks</p> <p>2. follow by early mobilisation to restore shoulder function</p> | <p>VFC FC</p> <p>VFC and discussion with shoulder specialists</p> | <p>1 week 6 weeks</p> <p>1 week</p> | <p>No No</p> <p>CT scan for glenoid, acromion Yes</p> | <ul style="list-style-type: none"> • Nerve Injury; Urgent ortho opinion +/- CT • Check for associated injuries as normally high energy fractures |
| <p>Shoulder Dislocation</p> <p># dislocation</p> | <p>Reduce Polysling for 1-2 weeks</p> <p>Polysling</p> | <p>VFC Refer to Mr Dixon secretary for Annie Rae (APP)</p> <p>VFC</p> | | <p>No</p> | <ul style="list-style-type: none"> • Axillary nerve Injury • RC tear in older patients • Humeral # may occur during reduction if rotation used • Bankhart, Lesion • Posterior: easily missed; look for lightbulb sign • Ortho on call bleep • Axillary nerve check • No elevation/ abduction for 6 weeks |

| | | | | | |
|--|--|------------------------|--|---------------------------------|---|
| Soft tissue Shoulder injuries | Polysling Early mobilisation | VFC ? FC/ Physio | 1 week | No Clinical exam | <ul style="list-style-type: none"> • RC in older patients > 40 • US scan if high demand patients |
| Acute Shoulder Pain Calcific tendonitis | Sling for comfort | ? VFC | | No | <ul style="list-style-type: none"> • Exclude Infection (temp, FBC, CRP) • Calcific tendonitis |
| Proximal humerus neck and GT | High arm Collar and Cuff; 6 weeks | VFC FC | 1 weeks- Refer to physio 6 weeks 12 weeks (if needed clinically) | Yes Consider CT at 1-2/52 | <ul style="list-style-type: none"> • Document NV findings clearly • Next available fracture clinic for all 3 types, NB younger patients ? ORIF see quicker • Sling advice: Wear day and night • Avoid active elevation/ abduction in GT # for 6/52, use waist strap in sling • Proximal half common site for pathological # • Radial nerve injury-wrist drop • Start physio at 3 weeks, refer promptly • Midshaft criteria for acceptable alignment include: <ul style="list-style-type: none"> ▪ < 20° anterior angulation ▪ < 30° varus/valgus angulation ▪ < 3 cm |
| SHAFT | Humeral Brace (6-8 weeks, occ 12 weeks) or hanging U slab (1 week) | | | | |

| | | | | | |
|-----------------------------|-------------------------------|--|--|--|--|
| | | | | | <ul style="list-style-type: none"> • Re-image after any intervention (e.g change of sling) shortening. |
| Elbow | | | | | |
| Olecranon | Above elbow POP for 2-3 weeks | VFC | Less than a week 3 weeks 6 weeks ? 12 weeks | Yes Yes Yes Clinical examination | <ul style="list-style-type: none"> • Open • Displacement by pull of triceps • Ulna nerve Injury |
| Radial Head and neck | Polysling, mobilise early | VFC FC | 1-2 weeks and DC | If clinically required or if having trial of non operative mgt | <ul style="list-style-type: none"> • Posterior Interosseous nerve Injury; check wrist/ finger extension |
| Biceps Rupture | Polysling | VFC Direct referral to ortho reg for Mr Dainton | Within a few days at least have Mr Dainton informed | US | <ul style="list-style-type: none"> • Urgent Ortho referral for distal biceps rupture |
| Forearm | | | | | |
| Radial shaft | Above Elbow POP | VFC | 1-2 weeks 6 weeks | Y No | <ul style="list-style-type: none"> • Watch for Galeazzi; associated dislocation of distal radioulnar joint. |
| Distal radius/ulna | POP to LW +/- splint | VFC FC | 1 week 4 weeks | Yes No | <ul style="list-style-type: none"> • Shortening, Angulation: Consider Surgery • Check median nerve • Watch for Monteggia • On call ortho for unstable injuries |

Lower Limb injuries

| Type of injury | Non operative Management | VFC/ Clinic RV | Review Interval | Repeat X-ray | Caution |
|-------------------------------------|--|--|---|-----------------------------------|---|
| Pubic Rami | Elbow Crutches x 2 | DC to physio from ED Not for VFC | | no | |
| Femoral Shaft | Admit | Not for VFC | | Yes; whole femur | <ul style="list-style-type: none"> Fragility fractures in over 50s Pathological fractures |
| Femoral Condyles-undisplaced | AB knee cast or brace | On call team called for advice and ?FC | 1 week 6 weeks 12 weeks | Yes Yes | |
| Undisplaced Patella # | T scope brace (PWB for 6 weeks) locked in extension until seen in clinic. | VFC FC | Every 2 weeks adjust brace if x-rays satisfactory * 6 weeks | Yes yes | <ul style="list-style-type: none"> Ensure extensor mechanism intact, if unsure for senior review *0-30 for 2/52, 0-60 for 2/52, 0-90 for 2/52 6 weeks in brace then mobilise freely if x-rays satisfactory |
| Tibial plateau undisplaced | Brace *AK cast only if very poor bone quality or non compliant patient NWB for 6/52 | VFC FC | 1-2 weeks 6 weeks 12 weeks | Yes Yes Depends on findings | <ul style="list-style-type: none"> 0-30 2/52, 0-60 for 2/52, 0-90 for 2/52 *Lock in ext for 1st 2/52 if poor bone quality Wean out of Brace at 6 weeks if good bone quality. Consider further 6 weeks if multifrag or poor bone quality in unlocked brace PWB and wean at 12 weeks NWB 6/52 |

| | | | | | |
|--|--|---|--|--|---|
| Tibial shaft | 1. Backslab NWB for 3/52 2. Sarmiento Cast at 3-6/52 for 4-6/52 FWB 3. Boot (depends on location) | VFC FC | 1-2 weeks 4-6 weeks 12 weeks | Yes Yes Yes | <ul style="list-style-type: none"> • Ensure WB in sarmiento cast FWB • Follow to union |
| Acute knee Injury <ul style="list-style-type: none"> • Clinically acutely locked knee with haemarthrosis • Multiple ligamentous Injury • Posterolateral Corner • Probable Meniscal Injury • Grade 2/3 Ligament Injury Isolated | T scope brace in 10 degrees flexion Crutches TWB, (T-scope 30-60) Crutches PWB, (T-scope 0-30). Thermowrap if needed MCL – T Scope 0-90 ACL – T Scope 0-90. PCL – Extension in PCL rebound brace | VFC Review by Oncall Reg. Not for VFC VFC VFC VFC VFC | <ul style="list-style-type: none"> • 48 -72 hours • For urgent MRI +/- CT arteriogram • 48 – 72 hours • 1 week • 1 week | Urgent MRI as clinically indicated Urgent MRI Urgent MRI Urgent MRI | <ul style="list-style-type: none"> • Suspect ACL/ bucket handle meniscal tear – MRI • Beware of possible knee dislocation – consider urgent CT arteriogram • Generally bracing is 6 weeks • Beware acute MCL injuries opening in extension with positive dial tests at 30 degrees – possible posterior oblique injury |

| | | | | | |
|----------------------------|---|--|--|--|--|
| | | | | | with MCL (requires acute repair therefore should be reviewed within 48-72 hours) |
| Patella Dislocation | <p>T scope: week 1: 0-45 week 2: 0-90</p> <p>Patella Stabilisation brace once SLR, no lag (6 weeks)</p> | <p>VFC Refer to Tim Powell (APP knee) 1 -2 weeks</p> | | <ul style="list-style-type: none"> • MRI if 1st time dislocators if paediatric or large haemarthrosi • Recurrent dislocators, please refer to their previous Consultant | <ul style="list-style-type: none"> • Beware of Osteochondral defects with mechanical symptoms. • Haemarthrosis need urgent MRI |

| Ankle | | | | | |
|------------------------------------|--|---------------------------------------|---------------------------|---|--|
| Type of injury | Non operative Management | VFC/ Clinic RV | Review Interval | Repeat X-ray | Caution |
| Weber A | Boot FWB, wean out as able | VFC | 1-2 weeks DC to physio | Y Weightbearing | <ul style="list-style-type: none"> • Talar shift • DVT • Med tenderness <ul style="list-style-type: none"> • Infection |
| Weber B | Boot | VFC | 1 week 6 weeks | Yes-Weight bearing Yes If OK mobilise FWB | <ul style="list-style-type: none"> • Talar shift • DVT • Med tenderness • Infection |
| Weber C | Boot | VFC | 1 week 6 weeks | Yes-Weight bearing Yes If OK mobilise FWB | <ul style="list-style-type: none"> • Talar shift • DVT • Med tenderness • Infection |
| Calcaneum # | Discuss with oncall team all calcaneal fractures with potential for or with skin compromise must be referred as an emergency | Not for VFC | | Yes Obtain calcaneal view Yes | <ul style="list-style-type: none"> • CT if high clinical suspicion but negative on plain films • NWB for first 6 weeks • CT if displaced and urgent F and A apt • Beware risk of pressure necrosis of posterior skin |
| 5th metatarsal # | Boot or supportive footwear FWB | DC from VFC or RV at 3/12 (SEE | | | <ul style="list-style-type: none"> • ED with info leaflet • Zone 2/3/ and displaced or rotated |

| | | | | | |
|---|---|--|----------------------------------|---------------------|---|
| | | PROTOCOL) | | | <ul style="list-style-type: none"> shaft 3/12 F/U Re fractures of 5th met need to be seen |
| Displaced 1st Metatarsal Fracture | Boot NWB | VFC | 1-2 weeks 6 weeks 12 weeks | Yes Yes | <ul style="list-style-type: none"> NB if displaced. Lower threshold for surgery |
| Phalanges (undisplaced) | Buddy strapping or metatarsal pad | NOT FOR VFC | | No | <ul style="list-style-type: none"> Discharge from ED with leaflet Consider referral to VFC if big toe |
| Type of injury | Non operative Management | VFC/ Clinic RV | Review Interval | Repeat X-ray | Caution |
| Ankle sprain | | NOT FOR VFC | | | <ul style="list-style-type: none"> DC TO PHYSIO at ED REFER BACK AT 3/12 FOR ONGOING PAIN OR INSTABILITY/ SWELLING |
| TA ruptures | <ul style="list-style-type: none"> RCHT TA protocol (vacoped in full equinus) Under 50 consider operative | <ul style="list-style-type: none"> Under 50 urgent CONS review ASAP If non operative, DC care to physio If non operative, DC care to physio | | No | <ul style="list-style-type: none"> Re-rupture Pts under 50, active, with physically demanding jobs; discuss with on call ortho DVT risk Delayed presentation need exception and need to be seen |

Paediatric Non operative fracture

| Type of injury | Non operative Management | VFC/ Clinic RV | Review Interval | Repeat X-ray | Caution |
|--|--|---|----------------------------------|---|--|
| Clavicle (Under 16) | BAS for comfort and info sheet given at ED | VFC and discharge from VFC if consultant happy | | | <ul style="list-style-type: none"> • NAI • Skin compromise • Ensure info leaflet given at ED |
| Torus/ Buckle | Splint preferably Or soft cast Info leaflet | VFC and DC over phone | No | No | <ul style="list-style-type: none"> • Missed # • NAI • Ensure info leaflet given at ED |
| Humerus | C and C | VFC | 1 week 4 weeks +/- 8 weeks | Yes Yes If clinically indicated | <ul style="list-style-type: none"> • NAI • NV status • ROM restriction (elbow and wrist only until united) |
| Supracondylar | Undisplaced- POP Above elbow with elbow max 90 (3/52) Displaced –MUA +/- wires or ORIF | VFC | 1 week 3 weeks | Gartland 1: No Gartland 2; Yes No | <ul style="list-style-type: none"> • Elbow stiffness • Significant nerve and arterial injury common • Most heal well within 3/52 • NAI |
| Lateral epicondyle Med epicondyle | As above If displaced: open reduction Same as Lateral, discuss with Consultant | VFC | 1 week 3 weeks | Yes Yes | <ul style="list-style-type: none"> • Ulnar nerve Injury • Displacement or incarceration • Watch for associated dislocation • NAI |

| | | | | | |
|------------------------|---|-----|-------------------|--------------------------------|--|
| Lateral condyle | Undisplaced- POP Above elbow with elbow max 90 3/52 | VFC | 1 week 3 weeks | Yes Yes | <ul style="list-style-type: none"> • Contact Consultant Bring in same day if VFC |
| Greenstick # | POP/LW or splint | VFC | 1 week 3 weeks | Yes If clinically indicated | <ul style="list-style-type: none"> • NAI |
| Femoral Shaft | Refer to RCHT protocol | N/A | | Y; whole femur | <ul style="list-style-type: none"> • Pathological fractures • CONSIDER NAI IF NOT WALKING AGE |
| Toddlers # | Long Leg Cast | VFC | 1 week 4 weeks | Yes Yes | <ul style="list-style-type: none"> • CONSIDER NAI IF NOT WALKING AGE |