Student Nurses

Fracture Clinic & Orthopaedic Outpatients Department

Student Name: Fracture Clinic and Orthopaedic Outpatients Department

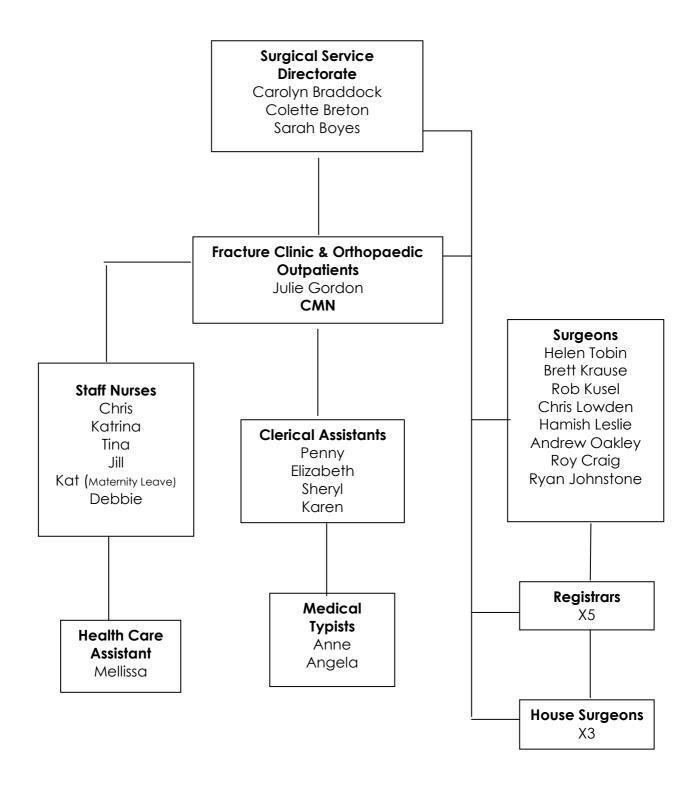
Mission

To provide a professional orthopaedic outpatient and fracture clinic service to the patients of Hutt Valley District Health Board which focuses on the needs of the patient and their family/caregivers

Objectives

- 1. To provide each individual with competent, considerate and respectful care, appropriate to his or her needs.
- 2. To provide ongoing education to staff, patients and their family/caregivers.
- 3. To strive to improve the quality of care and service.
- 4. To advocate for our patients supporting their rights and choices.

Organisational Chart



Daily activities

Fracture Clinic Acute injury follow-up - mainly fracture pts

referred from ED, GP's or transfers from other DHB's and discharged post surgery ward

patients,

Orthopaedic Clinic GP referrals of patients with orthopaedic

conditions, new and follow-up patients

Acute fracture treatment Patients are referred from Emergency

Department or GP for treatment / plasters

Acute Xrays of concern to be referred to Registrar

on call

Ward referrals For plaster trims, repairs, change of plasters,

application of special casts - e.g. hip spica, cast brace. Requisition is faxed from the wards for

these

Deferred plastering Arranged during fracture clinics when more time

is required - e.g. cast braces, PTB

Dressings For outpatients and any acutes requiring

continued dressings and who are going to be

seen in our clinics

General household duties To ensure the area is kept clean, tidy, restocked

and safe.

Pre-op assessments clinics Tuesday, Wednesday, Thursday and Friday

These are managed by Pre-assessment clinic in General OPD. Pts are seen in Fracture clinic for

surgery consent.

Orthotic clinics Staff from Orthotic Services are in attendance for

two sessions per week: Tuesday and Thursday

mornings

Ortho Teaching Clinics Mr Johnstone runs teaching clinics for 5th Medical

student on Wednesdays during the student year

Welcome!!
We are looking forward to working with you

Contacts

This should contain information on all the key contacts for the ward/unit

Fracture Clinic		(04) 570 9099
Clinical Nurse Manager	Julie Gordon	X 9459

Please contact Julie Gordon if you are unable to work your shift at the unit.

Your Preceptor

You will be allocated one main preceptor, this preceptor will be responsible for helping you completing your objectives. We will endeavor to ensure that you mainly work with this preceptor, however, due to shift work this is not always possible. It is **your** responsibility to ensure the nurse you are working with is aware of your objectives for the day/week. You must provide evaluations and/or other paperwork to your preceptor in a timely fashion (i.e. not on the due date!!). You preceptor will not complete any evaluations if you give it to them on your last days in the unit.

If you have any concerns or questions do not hesitate to contact 570 9099.

Expectations of the Student Nurse while in Fracture Clinic

Students work in the fracture clinic from 8am to 4.30pm.

At times the morning clinics will start at 8.30am and the afternoon clinics will run until 5pm, so your preceptor may stay on after you finish.

We have a few expectations of student nurses working in the fracture clinic:

- ❖ It is expected that you arrive on time for your shift and if you are going to be late or you are unwell and can not come to call the unit on 570 9099
- ❖ You must complete the full shift that you are allocated to work if you are unable to do so please discuss this with your preceptor, clinic nurse or CNM. A lot of learning occurs at quiet times in the unit!!
- It is important for your preceptor or the nurse you are working with that she is aware of your objectives in your first week
- Due to infection control a clean uniform must be worn, long hair must be tied back and cardigans must not be worn when working on the floor
- If you are not achieving your objective please see Julie or your preceptor (before the last week in the clinic)
- Please ensure all documentation you need to complete for the polytechnic/university is accomplished before the last days in the unit – your preceptor will **not** complete any paper that is given to him or her if it is given in the last days of your placement

Safety Measures in Fracture Clinic

Please be aware of specific safety measures in the unit. This should include:

In the event of a cardiac arrest student nurses are to undertake an observing role only, you are not required to participate.

In the event of a fire remove yourself from the source and inform your preceptor/nurse.

The fracture clinic can be a noisy environment to work in during clinic times, please protect your hearing and wear ear muffs during cast removal.

Please wear plastic aprons over your uniform and gloves and face masks when assisting with casting.

Treasure Hunt

This list is designed to help you become familiar with the environment, but is by no means exhaustive of all the things you will be required to locate.

Clinical Nurse Manager Office	Assessment rooms
Toilet-Key pad combination	Linen supplies
Where to store your bags	Arm block trolley
Staff tea room	Roster
Discharge information	Manual BP machine /
pamphlets	stethescope
Sterile instruments	Suction Equipment
Stitch cutters	Bio-hazard bags
Clip removers	Tympanic thermometer covers
Plain Gauze	Stationery supplies
Casting trolleys/buckets	Photocopier
Casting products	Entonox
Clean utility room	Laboratory forms
Dressing Materials	Oxygen isolation "shut off" valve
Sterile Gloves	Online Incident Forms
Dressing Supplies	Cortisone trays
Dressing trolleys	Fire exits
Dirty instruments	Fire extinquishers
Clinical policies & procedures	

Objectives

- To have knowledge of how patients are admitted to Fracture Clinic via:
 - Emergency Department and Radiology
 - GP and Private Radiology
 - Transferred patients from other hospitals
- To learn how to care for patients with casts on in the ward setting and as outpatients to be able to advise patients on the following:
 - Elevation of the limb
 - Exercises for the limb
 - Circulation observations colour, warmth, movement, sensation
 - Hygiene care
 - Positioning the limb
 - Handling the cast how to prevent damage to the cast and underlying tissues
 - Mobilisation and weightbearing status
 - Using crutches
- To be aware of the different casting materials available:
 - Plaster of paris
 - Fibre glass
 - Soft cast
 - MOK cast
- To observe the application and removal of plasters if time permits to be shown a simple cast
- 5 The provision of appropriate care to the patient and whanau with support and supervision from the preceptor, including
 - Accurate assessment
 - Competent implementation of care
 - Documentation
- 6 Gain an understanding of the different roles of the multidisciplinary team
 - Eg Drs, nurses, reception staff, therapists.
- 7 Practice good infection control measures

- 8 Identifying the different types of fractures
 - Identifying types of fractures on xrays
 - Basic knowledge around fracture healing
- 9 The use of pain management during casting
 - Entonox
 - The role of conscious sedation and regional analgesia
- 10 Wound management trauma and surgery
 - Performing aseptic wound dressings and wound assessment under supervision from preceptor
 - Removal of sutures and clips from a surgical wound under supervision from preceptor

Common Presentations to Fracture Clinic

Common presentations to fracture clinic include:

- Surgical wounds
- Chronic wounds/ulcers
- Fractures
- Casting products
- Eczema

Common Medications

The following is a list of some of the common medications used in the fracture clinic, please read up on these before you attend the placement.

Citanest injected intravenously

Entonox inhaled
Kenacort – A injected
Panadol orally
Xylocaine 1% injected

Pre-reading/Resources

Suggested Web sites to visit:

www.eorthopod.com/content/library

www.imageinterpretation.co.uk

Suggested reading Material:

(found below work station bench in plaster room)

Handbook of Fractures, 3rd Ed, Koval, K.J and Zuckerman, J.D.

Practical Fracture Treatment, McRae, R.

Introduction to casting .., Kinealy, J. 2010.

Also look on shelves in nurses work station room outside CNM office.

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INITIAL FRACTURE ASSESSMENT

Answer these questions before you call the orthopaedic surgeon, 13. Roughly estimate the degree of fracture 8. What is the general 1. What bone is involved? fracture pattern? displacement as shown 2. Is there any break in the YOU HAVE FIVE CHOICES — SELECT THE ONE THAT IS CLOSEST in the diagrams below. skin at or near the fracture site? SELECT ONE OF THE FOLLOWING THREE CHOICES No — A closed fracture. N. Yes, with a clean wound less than 1 cm in length — A minimally open fracture. 3. Are there any joint dislocations? 9. Does the fracture enter a joint? 4. How many pieces is the If Yes, go to step #11. bone in now? If No, go to step #10. SELECT ONE OF THE FOLLOWING THREE CHOICES A. The bone is now in two pieces — Simple fracture 10. Is the fracture completely nondisplaced? 14. Is there any blanching of If Yes, go to step #14. If No, go to step #13. the skin? Is the patient in much pain at rest, with the fracture held still, or have you had any difficulty controlling their pain? 5. How much is the bone angulated at the fracture? 11. How many joint pieces are B. How would you describe the swelling? Minimal Moderate Severe GIVE YOUR BEST ESTIMATE BASED ON THE FIGURES BELOW broken off? C. Are the pulse, color, and capitlary refill OX? 30° SELECT ONE OF THE FOLLOWING THREE CHOKES Are the sensory and motor functions intact distal to the fracture? A. One piece — Simple. B. More then one piece — Comminuted. C. Multiple pieces — Severely comminuted. E. When was the last time the patient ate or drank? 15. Once you have addressed these basic questions, then call the orthopaedist. 12. How does the fracture 6. Does the fracture involve involve the joint? the growth plate of a child SELECT ONE OF THE FOLLOWING FOUR CHOICES or adolescent? Concerning the situation where there are several fractures to the same bone, for the following questions, pick the most displace fracture or any involving the joint surface. If both are present (i.e. one with large displacement and a separate fracture into the joint), they should be described separately from here on our. 7. What part of the bone is broken? Preximal and of bone, t

Go to step #14.



SmithNephew

Commonly used abbreviations

Fracture

Ad hoc Nurse's clinic (FAH)
BXOA Booked x-ray on arrival
C1 First cervical vertebrae

CA Cancer

COD Change of dressing COP Change of plaster

CT Computerised Tomography scan

CTR Carpal Tunnel Repair
CTS Carpal Tunnel Syndrome

CW Childrens ward
D Discharged
DNA Did not attend

EUA Examination under anaesthetic FSA First specialist appointment

FUP Follow-up

I & D Incision and drainageL1 First lumbar vertebrae

MED Medical ward

MRI Magnetic Resonance Imaging
MUA Manipulation under anaesthetic
NBXOA Non-booked xray on arrival

NOH Neck of humerus
NOF Neck of femur
OA Osteo arthritis
ORT Orthopaedic ward

ORIF Open reduction & internal fixation

PLA Plastic surgery outpatients
POP Plaster of Paris (plaster cast)

PXR Private xray

RA Rheumatoid arthritis

R/O Removal of

ROP Removal of Plaster

ROS Removal of stitches/sutures
T1 First thoracic vertebrae

TA Achilles Tendon

THR Total hip replacement
TKR Total knee replacement
TSR Total shoulder replacement

USS Ultra sound scan

XR xray

Glossary of Orthopaedic Terms

Abduction: Movement of an extremity away from the body.

Adduction: Movement of an extremity towards the body

Arthrodesis: The surgical fusion of a joint. The procedure removes any remaining articular cartilage and positions the adjacent bones to promote bone growth across a joint. A successful fusion eliminates the joint and stops motion. The usual purpose is pain relief or stabilization of an undependable joint

Arthroplasty: Procedure to replace or mobilize a joint, typically performed by removing the arthritic surfaces and replacing them with an implant. Total joint arthroplasty is replacement of both sides of the joint. Hemi-arthroplasty replaces only one side of a joint

Arthroscopy: A form of minimally invasive surgery in which a fibreoptic camera, the arthroscope, is introduced into an area of the body through a small incision

Articular cartilage: A smooth, glistening surface that covers the ends of bones that articulate with each other to form a joint.

Aspiration: Removal of fluids from a body cavity; often done to obtain specimens for analysis

Avascular necrosis: A condition in which cells die as a result of inadequate blood supply; see also osteonecrosis

Avulsion fracture: A fracture that occurs when a ligament or tendon pulls off a sliver of the bone

Bursa: A sac formed by two layers of synovial tissue that is located where there is friction between tendon and bone or skin and bone

Bursitis: Inflammation of a bursa

Closed reduction: A procedure to restore normal alignment of a fractured bone or dislocated joint in which the fractured bones are simply manipulated and no incision is needed

Comminuted fracture: A fracture with more than two fragments

Compartment syndrome: A condition that occurs when the amount of swelling and/or bleeding in a muscle compartment causes pressure that is greater than the capillary pressure and results in tissue ischemia and potential tissue necrosis, frequently seen in association with tibial fractures

Compound fracture: Any fracture in which the overlying skin has been penetrated

Condyle: A rounded process at the end of a long bone

Delayed union: A delay in normal fracture healing; not necessarily a pathologic process

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Diaphysis: The shaft of a long bone.

Diastasis: Separation of the distal tibia and fibula

Dislocation: Complete disruption in the normal relationship of two bones forming a joint (ie, no contact of the articular surfaces). The direction of the dislocation is described by the position of the distal bone (eg, with an anterior dislocation of the shoulder, the humerus is displaced anterior to the scapula).

Displaced fracture: A fracture that produces deformity of the limb

Distal: Location in an extremity nearer the free end; location on the trunk farther from the midline or from the point of reference

Distraction: A separation of joint surfaces with no dislocation or ligament rupture.

Dorsal: Toward the posterior surface of the body: eg back of hand

Effusion: The presence of fluid within a joint

Epiphysis: The rounded end of a long bone at the joint.

Equinus: Plantar flexed position of the ankle

Exostosis: A spur or bony overgrowth.

Extension: Movement of an extremity posterior to or behind the body.

External fixation: Stabilization of a fracture or unstable joint by inserting pins into bone proximal and distal to the injury that are then attached to an external frame.

External rotation: Lateral rotation of an extremity relative to the body.

Flexion: Movement of an extremity anterior to or in front of the body.

Fracture; A disruption in the integrity of a bone

Fracture callus: Bone developed after a fracture; initially formed from a hematoma at the bleeding edges of bone, it eventually forms a cartilage mass that is remodelled into mature bone

Fracture-dislocation: A fracture of bone associated with a dislocation of its adjacent joint.

Fusion (arthrodesis): The joining of two bones into a single unit, thereby obliterating motion between the two. May be congenital, traumatic, or surgical.

Galeazzi fracture: Dislocated ulna with a fractured distal radius

Genu (knee): Genu valgum is knock-knee deformity; genu varum is bowleg deformity

Genu varum: Bowlegs

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Greenstick fracture: A fracture that disrupts only one side of the bone. This fracture pattern is seen in children because of the greater plasticity of their bones.

Haemarthrosis: A collection of blood within a joint.

Haematoma: A collection of blood resulting from injury

Internal fixation: Surgical insertion of a device that stops motion across a fracture or joint to encourage bony healing or fusion

Internal rotation: Medial rotation of an extremity relative to the body.

Lateral: Lying away from the midline

Malunion: Healing of a fracture in an unacceptable position

Metaphysis: The flare at either end of a long bone.

Monteggia fracture: Dislocation of the radial head in association with an ulnar

fracture

Non-union: Failure of a fracture or osteotomy to healing. With continued motion through a non-union, a pseudarthrosis will form

Oblique fracture: A fracture in which the fracture line crosses the bone diagonally

Open reduction and internal fixation (ORIF): A procedure that involves incising the skin and soft tissue to repair a fracture under direct visualization with fixation eg plate and screws, rod

Osteoarthritis (OA): A deterioration of the weight bearing surface; distinguished by destruction of the hyaline cartilage and narrowing at the joint space.

Osteomyelitis; Infection of bone, either bacterial or mycotic

Osteoporosis: Deterioration of bone tissue resulting in an increased risk of fracture as the result of a low-calcium diet.

Osteotomy: cutting of a bone. Used to describe surgical procedures in which bone is cut and realigned

Palmar: The anterior surface of the forearm, wrist, and hand

Pathologic fracture: A fracture caused by a normal load on abnormal bone, which is often weakened by tumour, infection, or metabolic bone disease

Periosteum: A sleeve of connective tissue that surrounds the shaft of the bone and contributes to fracture healing

Physis: The growth plate. Specialized cartilaginous tissue interposed between the metaphysis and epiphysis in long bones in children. Provides growth in length of the bone.

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Pronation: Flattening of the foot that occurs during walking and running.

Proximal: describing structures that are closer to the trunk

Range of motion (ROM): The amount of movement available at a joint

Shaft: The long, straight, cylindrical mid-portion of a bone

Slipped upper femoral epiphysis (SUFE): A unique fracture of the femoral epiphysis that fractures

Spiral fracture: A fracture caused by a twisting force that results in a helical fracture line

Subluxation: An incomplete disruption in the relationship of two bones forming a joint, ie, a partial dislocation. The joint surfaces retain partial contact.

Torus (buckle) fracture: A paediatric fracture that occurs at the diaphyseal-metaphyseal junction when the diaphyseal cortex is driven into the metaphysis.

Valgus: Angulation of a distal bone away from the midline in relation to its proximal partner. Genu valgum is a knock-knee deformity, with abduction of the tibia in relation to the femur. Can also be used to describe angulation of fractures or bony deformities.

Varus: Angulation of a distal bone toward the midline in relation to its proximal partner. Genu varum is a bowleg deformity, with adduction of the tibia in relation to the femur. Can also be used to describe angulation of fractures or bony deformities.

Volar: Toward the anterior surface of the body. Eg palm side of the forearm

Cut along lin

Evaluation of your Clinical PreceptorPlease return your evaluation to Julie (CNM)

experience				
My Preceptor:	E	VG	S	NI
Was welcoming and expecting me on the first day				
Was a good role model and demonstrated safe and competent clinical practice				
Was approachable and supportive				
Acknowledged my previous life skills and knowledge				
Provided me with feedback in relation to my clinical development				
Provided me with formal and informal learning opportunities				
Applied adult teaching principals when teaching in the clinical environment				
Describe what your preceptor did well			1	
Describe anything you would like done differently				

Notes

Please use this space for notes.