

# Trauma & Orthopaedics

## An Introduction

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# Overview

- The specialty
- The demographics
- History
- Examination
- Investigation
- Management



# The Specialty

- Trauma/Emergency
  - Upper Limb – Clavicle/Scapula → Fingertips
  - Lower Limb – Pelvis (inc Sacrum) → Toes
  - Spine – Cervical Spine down to Sacrum
- Orthopaedics
  - Joint Replacement
  - Deformity Correction
  - Reconstruction
  - Oncology
  - Functional restoration



# The demographic

- Neonates – Developmental dysplasia
- Athletes – Soft tissue reconstruction
- Elderly – Osteoarthritis
  
- Trauma/Emergency in all demographics



# History I - Aims

- Identify problem
- Determine fitness for surgery
- Develop a management strategy



# History II – The Problem

- Circumstance of injury or development of symptoms
- Pain
  - Site, Onset, Character, Radiation, Alleviation, Timing, Exacerbation, Severity
- Function
  - Needs – day to day living (ADLs, Sleeping, Work)
  - Wants – Activities, Sports
- Other symptoms (swelling, stiffness, RoM)
- Systemic features of illness – red flag signs



# History III – Surgical Fitness

- Full Systems Review
  - Cardiovascular, renal, respiratory
- Medications & Allergies
- Smoking & Alcohol
- Premorbid function
- Patient Expectations



# History IV - Management

- Differential Diagnoses
- Surgical or Conservative management?



# Examination I - Aims

- Localise and refine your diagnoses
- Fitness for surgery
- Refine your management strategy



# Examination II

- ATLS
- Neurovascular Status
- Soft Tissue Status
- Articular Damage
- Axial Alignment
- Look, Feel, Move, Special Tests
- Systems review



# Investigation

- X-rays
- USS – Swellings, Children
- CT Scan – Bony injury
- MRI Scan – Soft tissue infections, tumours



# Next Step...

- History
- Examination
- Basic Investigations

Call the Registrar....



# Management

- Conservative
  - Splintage
- Surgical
  - External Fixation
  - Internal Fixation
    - Intramedullary
    - Extramedullary
    - Special techniques (K-wires, tension band wire)
  - Joint Replacement
    - Hemiarthroplasty
    - Total replacement
    - Partial replacement



Thank you!

Presentation available on  
<https://www.bon.ac.uk>

