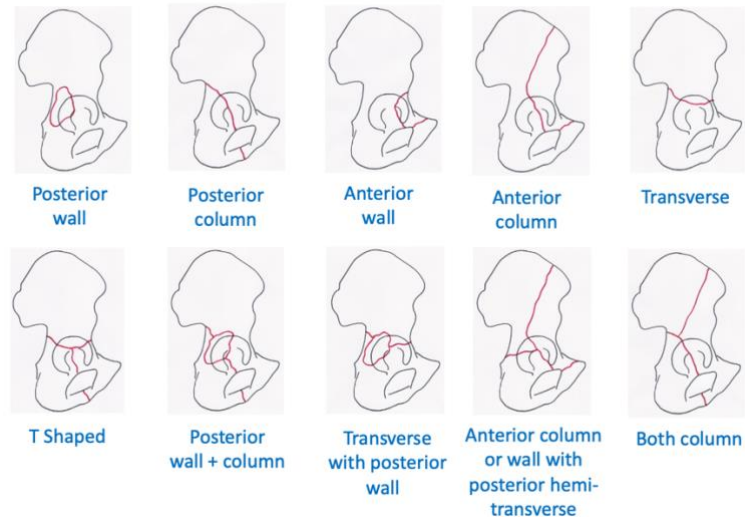


18 Acetabulum, Hip Dislocation + Femoral Head Fractures – adult + paediatric

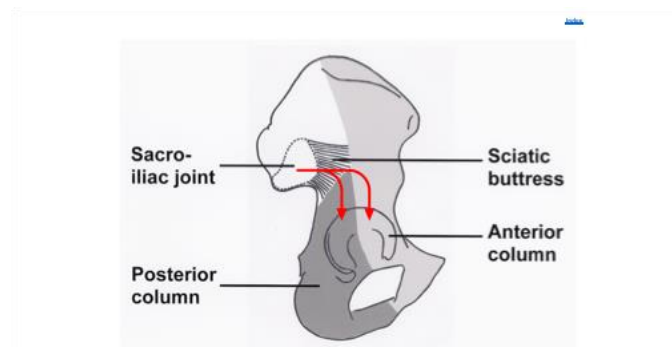
PRO TIPS

- You need to know the 10 fracture types (5 Elementary, 5 Associated).

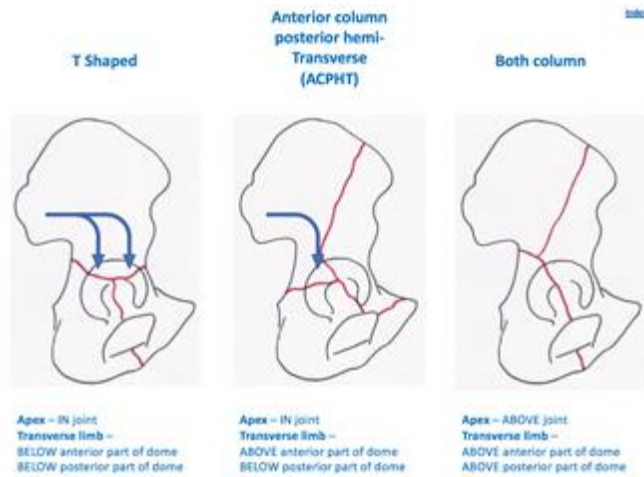
Letournel Classification



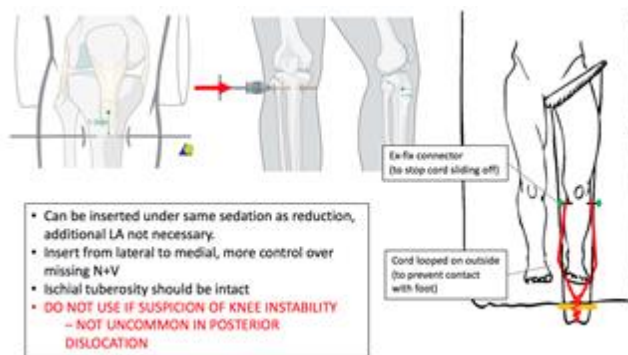
- The key to classification: A fracture line involving / crossing a column DOES NOT ALWAYS make it a column fracture!
 - A column fracture involves a **discontinuity** between the superior weight bearing dome (anterior, posterior or both) and the sciatic buttress.



- Think of ACPHT and Both Column as variants of a T shaped fracture. The only difference is the position of the apex and the orientation of the transverse limb.



- Transporting patients after emergency reduction of unstable fracture dislocation.



- A Stoppa / Anterior Intra Pelvic approach can be considered as a replacement of the traditional ilioinguinal middle and medial windows and is often used with the ilioinguinal lateral window.
- In fractures involving both columns aim to reduce and fix the column that has displaced with the femoral head, first and then address the other column and wall fractures.

UK ISCP TRAUMA + ORTHOPAEDIC SYLLABUS

Knowledge

0 = No experience expected / 1= Has observed or knows of / 2= Can manage with assistance / 3 = Can manage whole but may need assistance / 4= Able to manage without assistance including potential common complications
Green text = Oxford Trauma Service suggestions

Topic	CORE	ST3-ST8	>ST8
Anatomy			
Clinical and functional anatomy with pathological and operative relevance	3	4	4
Surgical approaches to the limbs and axial skeleton	2	4	4
Pathology			
Heterotopic ossification	1	4	4
Operative			
Management of closed peri-articular fractures	2	4	4

Technical

0 = No experience expected / 1= Has observed or knows of / 2= Can manage with assistance / 3 = Can manage whole but may need assistance / 4= Able to manage without assistance including potential common complications
Green text = Oxford Trauma Service suggestions

Topic	CORE	ST3-ST8	>ST8
Acetabular fracture ORIF	0	1	3
Dislocated hip (no prosthesis) - closed reduction	1	4	4

Please find below, resources that cover the syllabus objectives.

DISCUSSION SLIDES

- OTA Resident Lectures – [Anatomy of the Pelvis + Acetabulum](#)
- OTA Resident Lectures – [Radiographic Evaluation + Classification of Acetabular Fractures](#)
- OTA Resident Lectures – [Surgical Approaches to the Acetabulum: Stoppa, Ilioinguinal](#)
- OTA Resident Lectures – Surgical Approaches to the Acetabulum: Posterior
- OTA Resident Lectures – [Percutaneous Fixation of the Acetabulum](#)

RECOMMENDED KNOWLEDGE REVIEW RESOURCES

ACETABULUM FRACTURES

- Rockwood + Green Chapter 50a: Acetabulum Fractures p2081-2180 22p: Pelvic and Acetabular Fractures p845-882
- Rockwood + Green Chapter 22p: Pelvic and Acetabular Fractures p845-882
- Orthobullets – [Acetabulum](#)
- JBJS Clinical Summary – [Acetabular Fractures](#)
- JBJS Clinical Summary – [Acetabular Fractures in the Elderly](#)
- [Radiographic Evaluation and Classification of Acetabular Fractures](#) – OTA Core Curriculum Lectures

HIP DISLOCATION + FEMORAL HEAD FRACTURE

- Rockwood + Green Chapter 51a: Hip Dislocations and Femoral Head Fractures p2181-2230
- Rockwood + Green Chapter 23p: Fractures and Traumatic Dislocations of the Hip in Children p883-918
- Orthobullets – [Hip dislocation](#)
- Orthobullets – [Femoral head fractures](#)

SCORING / CLASSIFICATION SYSTEMS

- [AO/OTA](#)

RECOMMENDED TECHNICAL REVIEW RESOURCES

ACETABULUM FRACTURES

- AO Surgery Reference – [Acetabulum](#)
- General
- Stover – [Approaches for Acetabular Fractures](#), VuMedi 2011 (14 mins)
- Anterior Approaches
- Mauffrey – [Stoppa Approach](#), VuMedi 2015 (8mins)
- Fensky – [Ilioinguinal](#), OTA Online (16mins)
- Sancineto – [Ilioinguinal Approach to the Acetabulum for Fractures](#), VuMedi 2015 (13mins)
- [Surgical Approaches to the Acetabulum: Stoppa, Ilioinguinal](#) – OTA Core Curriculum Lectures
- Posterior Approaches
- Cosgrove – [Kocher Langenbeck](#), OTA Online (10mins)
- Fixation Techniques
- [Percutaneous Fixation of the Acetabulum](#) – OTA Core Curriculum Lectures

HIP DISLOCATION + FEMORAL HEAD FRACTURES

- Gavaskar – [Surgical Dislocation](#) – VuMedi 2018 (10mins)
- Ricci – [Smith Peterson \(Femoral head ORIF\)](#), OTA Online (8mins)

SMITH + NEPHEW

- [Trauma Education](#)
- [Trauma Products + Guides](#)

STRYKER

- [Surgeon Education](#)
- [Trauma Products + Guides](#)
- [Pelvic Pro](#) – Acetabular plating system

DEPUY SYNTHES

- [Educational Material](#)
- [Trauma Products + Guides](#)
- [Pelvic Implants and Instruments](#)

MIZUHO OSI

- [Modular Table Setup](#) (including iOS + Android Apps)

GUIDES + PROTOCOLS

MELBOURNE PAEDIATRIC FRACTURE GUIDELINES

- [Guidelines](#)

NB you will need to select the sections from the top banner - Emergency Department, Fracture Clinic, Education, Family Resources

NICE (NATIONAL INSTITUTE FOR CLINICAL EXCELLENCE)

- [Fractures \(complex\): assessment and management \(NG37\)](#)
- [Rehabilitation after traumatic injury \(NG211\)](#)
- [Osteoporosis: assessing the risk of fragility fractures \(CG146\)](#)
- [Osteoporosis \(QS149\)](#)
- [Falls in older people \(QS86\)](#)
- [Falls in older people: assessing risk and prevention \(CG161\)](#)
- [Falls Prevention Exercise and Education Programme](#)

ABSTRACTS + FULL TEXT PAPERS

GENERAL

Paediatric

- Guillaume – [Pelvic fractures in children \(pelvic ring and acetabulum\)](#), Orthop Traumatol Surg Res 2020

Anatomy

- Gautier – [Anatomy of the medial femoral circumflex artery and its surgical implications](#), J Bone Joint Surg Br 2000

ASSESSMENT

Classification

- Brandser – [Acetabular fractures: easier classification with a systematic approach](#), AJR Am J Roentgenol 1998

Examination

- Yee – [Examination Under Anesthesia for Evaluation of Hip Stability in Posterior Wall Acetabulum Fractures](#), J Orthop Trauma 2019

OUTCOME

- Ziran – [Outcomes After Surgical Treatment of Acetabular Fractures: a review](#), Pat Saf Surg 2019 (Open Access)

COMPLICATIONS

- Küper – [Complications of surgical approaches for osteosynthesis treatment of acetabular fractures: Analysis of pitfalls and how to avoid them](#), Injury 2020

ARCHIVE

- Judet – [FRACTURES OF THE ACETABULUM: CLASSIFICATION AND SURGICAL APPROACHES FOR OPEN REDUCTION. PRELIMINARY REPORT](#), J Bone Joint Surg Am 1964