Lecture 2





Editing File



Orthopedic History Taking

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Objectives:

→ Know how to take a MSK relevant history, along with the knowledge of the characteristics of the major musculoskeletal conditions.

Color Index:

Original text | Doctor's notes | Text book Important | Golden notes | Extra

History taking skills:

It is the most important step in making a diagnosis.

History taking can either be of a traumatic or non-traumatic injury. (you need to ask about trauma while taking an orthopedic history)

A clinician is 60% closer to making a diagnosis with a thorough history; the remaining 40% depends on a combination of examination findings and investigations.

History structure:



MSK Systemic Review:¹



1- The bolded complains are the most common complaints in orthopedics

Cont. MSK SYS Review:

• Location:

-Point with a finger to where it is?

• Radiation: -Does the pain go anywhere else?

• Type: -Burning, sharp, dull?

• How long have you had the pain?

How did it start?
-Injury or insidious? If injury:
A- Mechanism of injury?
B- How was it treated?

• **Progression**: - Is it better, worse, or is it the same?

• When: -Mechanical (while walking) -Rest -Night (very concerning)

-Constant (indicates advanced pain) (even with analgesia)

• Aggravating & Relieving Factors -Stairs

-Start up, mechanical (Mechanical pain is noted to increase with movement)

-Pain with twisting, turning Up or down hills -Kneeling -Squatting



Pain

Duration

Onset

• Painful or not (painless swelling is bad sign that goes with tumors)

- Local vs. generalized
- Constant vs. comes and goes
- Progression
- Rapidly or slowly?

• Aggravating & relieving factors?

• Associated with injury or reactive?

• Soft tissue, joint, or bone?

- Onset?
- How does it start?
- Any Hx of trauma?
- Frequency?
- Trigger/aggravated factors?
- True Giving way
- False Giving way - It is caused by pain (Or secondary to quadriceps inhibition).
- I cannot trust my leg!
- Associated symptoms: -Swelling -Pain





Swelling



Instability

1- Aggravating and relieving factors are usually related to movement

Cont. MSK SYS Review:

- When did you notice it?
- Progressive or not?
- Associated symptoms: - pain, stiffness, etc....
- Impaired function or not? (important to ask)
- Past Hx of trauma or surgery
- PMHx (neuromuscular like polio)



Deformity

- Painful vs. painless. - First thing to ask in limping
- Onset: - acute or chronic (<2 wks= acute)
- Progressive or not?
- Use walking aid?
- Functional disability?
- Traumatic or non-traumatic?
- Associated with:
 swelling, deformity, fever, and night sweats



Limping

• How has this affected the patient's life

• Home (Activities of Daily Living [ADL]) (score to see how much functional demand the patient has)

- Prayer.
- Squat or kneel for gardening.
- Using toilet.
- Getting out of chairs / bed.
- Socks .
- Stairs.
- Walking distance.
- Go in & out of the car.
- Work
- Sport
- Type & intensity
- Run, jump

Loss of function

Giving way

Mechanical Symptoms:

- Locking / clicking: ¹
 - \succ Loose body², meniscal tear.
 - Knee buckling or "Giving way": ³
 - Buckling 2°pain. (false)
 - ACL injury (true)
 - Patellar injury

true) Iry

Locking

Locking is a condition in which the knee lacks full extension and flexion because of internal derangement, while clicking is a popping sound made by the joint.
 Loose body is the term applied to small fragments of articular cartilage that break off in the knee joint as a result of a knee injury or degeneration. Loose bodies float around within the knee joint and cause pain, catching, locking, or swelling depending upon where the fragments migrate.
 Buckling is a sensation of giving way where the knee bends involuntary. This can happen either due to "true" ACL injury or "false" caused by quadriceps inhibition or secondary to pain.



Risk Factors:

- Age (the extremes) (older patients have a higher risk to develop degenerative diseases, while Trauma and sport are seen in **younger** age.)
- Gender (DDH is more common in females)
- Obesity
- Physical inactivity
- Inadequate dietary calcium and vitamin D
- Smoking
- Occupation and Sport

- Family History (as: <u>SCA</u>) (In sickle cell anemia patients are more prone to develop hip osteoarthritis and spine problems)
- Infections
- Medications (<u>steroids</u>) leads to osteoporosis ¹)
- Alcohol
- PHx MSK injury/condition
- PHX of Cancer

Current And Previous Treatments:



1- Common locations of avascular necrosis are the hip, talus and navicular bone.

Knee History:

Knee History		
I. Pain	Done	
 Location: Can you point exactly at its location? Does the pain go anywhere else? (radiation) 		
Type:Can you describe the pain? Is it burning, sharp, dull?		
How long have you had this pain?		
 How did it start? Was it an injury? If YES: → What was the mechanism of the injury? ♦ What was the position of the leg at the time of injury? ♦ Was it direct or indirect injury? ♦ Have you heard any audible pop? ♦ Were you able to continue playing or did you stop? → If you suspect ACL injury be sure to ask: ♦ Did it swell at the time? - Immediately? - Delayed → traumatic synovitis ♦ Hemarthrosis ♦ How was it treated? • Was it insidious? 		
II. Progression		
• Is it getting better, worse or is it remaining stable?		
III. When		
• Does the pain come when you walk, at rest, at night or is it just constant?		
IV. Aggravating and Alleviating factors		
 Does any of the following make the pain better or worse? → Stairs? → Twisting, turning up and down hills? → Start up → indicates mechanical pain → Kneeling? → Squatting? 		

Spine History:

Spine History			
I. Pain	Done		
 Location: Can you point exactly at its location? Does the radiate anywhere else? (you need to determine the root L4/L5/S1?) 			
 What makes the pain better or worse? Neuropathic causes: → Extension and walking down hill? → Walking uphill and sitting 			
 Vascular causes: → Walking uphill → generates more work → Rest → standing is better than sitting due to pressure gradient 			
 Stairs. Shopping trolleys. Coughing, straining. Sitting. Forward flexion. 			
II. Associated Symptoms			
 Paresthesia? Numbness? Weakness? Bowel and bladder incontinence? Corvical myelopathy? 			
 Clumsiness of hand → Unsteadiness → Manual dexterity → (skills in performing tasks especially with the hands) 			
III. Red flags 🏲			
 Constitutional Sx (loss of weight, fever, night sweats) Night pain/ Rest pain History of trauma Immunosuppression 			

Shoulder History:

Shou	lder F	listorv

I. Demographic Characteristics	Done
 Age of the patient: Young: shoulder (anterior) instability and acromioclavicular joint injuries are more prevalent Elderly: rotator cuff injuries and degenerative joint problems are more common. 	
II. Pain	
 Location: Can you point exactly at its location? Anterolateral and superior (deltoid insertion) → Rotator cuff Usually radiates to middle arm Referred to the elbow? → Bicipital tendonitis Is it a referred pain? → referred pain can be due to mediastinal and cardiac causes Is the pain related to neck pain? → Is it really shoulder pain, or is it radiating from the neck? ASK about radiculopathy 	
Aggravating / Relieving factors: • What are the positions that increase the symptoms? → Rotator cuff impingement: appears in window cleaning positions → Instability: when arm is overhead	
 Mechanism of injury: Abduction and external rotation → shoulder dislocation Direct fall onto the shoulder → acromioclavicular joint injuries Chronic pain upon overhead activity or at night time → rotator cuff problem 	
II. Associated Symptoms	
 Stiffness? Instability/Give way? → comes when the arm is held over head Can be either severe feeling your joint is dislocated or subtle presenting with clicks/jerks You need to ask about the position, initial trauma, how often and ligamentous laxity Clicking, catching or grinding? (if so what position?) Weakness? → rotator cuff especially if it is a large tear Pins, needles or numbness? 	
III. Loss of Function	
 Home Dressing → wearing coats or bras Grooming → while brushing hair Lifting objects Difficulty raising arm → when reaching top shelves or hanging washing Work Sport 	

THANK YOU

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