

VIRTUAL HIP EXAM

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OBJECTIVES

1. Differentiate between hip joint and non-hip pathology on history;
2. Maximize virtual/telehealth experience for the examination of the hip;
3. To understand when a physical encounter is necessary to establish diagnosis or provide ongoing care;
4. To understand indications for imaging.

EVALUATING A PATIENT WITH HIP PAIN: DIFFERENTIAL DIAGNOSIS

Hip-related

- Intra-articular
 - OA
 - FAI
 - dysplasia
 - Loose bodies
 - synovitis
- Extra-articular
 - Extra-articular impingement
 - Capsular problems
 - Pertrochanteric pain
 - Glut med/min tears

Non-hip related

- Back pain/Sacroiliac pain
- Inguinal hernia
- Sports hernia
- Gynecological/Urogenital
- Myotendinous injuries
- Pubalgia
- Nerve compression syndromes

EVALUATION OF PATIENT WITH HIP PAIN

- Patient Demographics
 - Older pt more likely to have OA
 - Females – pincer FAI or dysplasia
 - Males – CAM FAI
- Clinical history
 - Onset of pain
 - Childhood history of hip disorders
 - Family History of hip disorders

EVALUATION OF PATIENT WITH HIP PAIN

- Location of pain
 - C-sign
 - More indicative of intra-articular pathology
 - Lateral pain +/- snapping
 - Coxa saltans
 - Pertrochanteric bursitis/tendinopathy
 - Thigh/buttock/radiation below knee
 - L-spine, buttock or thigh musculature
 - Lower abdomen
 - Pubalgia

PHYSICAL EXAMINATION

- Requires internet connection
- Communicate via verbal description of the movement/test
- Supplement with demonstration or visual aids
- Observation and documentation of findings

IMAGING

- Radiographs are the most important imaging modality
- MR ARTHROGRAM helpful when radiographs are normal
 - can potentially assess labral and chondral defects
- INTERPRET POSITIVE FINDINGS CAREFULLY



BEWARE OF FALSE-POSITIVES

- Asymptomatic CAM
 - 34% athletes
 - 23% in general population
- Asymptomatic Pincer
 - 67% in average population
- MR Arthrogram
 - 68%.1 incidence of asymptomatic labral tear in general population

TREATMENT

- Non-operative management
 - ACTIVE Physiotherapy
 - Address extra-articular contributions to pain
 - Role of pelvic inclination and stability in FAI
 - P. Beaulé COA presentation 2018
 - Image guided injections
 - Therapeutic vs Diagnostic

IMAGE-GUIDED INJECTIONS

- Pain relief supports a diagnosis of intra-articular pathology
- Local Anesthetic +/- Corticosteroid +/-Hyaluronic Acid
 - Relief at 12 months
- Negative response is associated with poor surgical outcome

SURGICAL MANAGEMENT OF HIP DISORDERS: HIP ARTHROSCOPY

- Patient selection
 - 14% of people with groin pain have FAI
- Prognostic factors
 - Higher rate of failure
 - >40-60 yrs of age
 - Osteoarthritis
 - Dysplasia
 - Obesity
- Goals and outcomes following surgery
 - Improve QOL
 - Role in prevention of OA is yet undetermined

Malviya, M. *Journal of Hip Preservation Surgery*,
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SURGICAL MANAGEMENT OF HIP DISORDERS

- Open surgical options
 - Pelvic osteotomy
 - Dysplasia
 - Hip arthroplasty
 - Osteoarthritis

INDICATIONS FOR IN-OFFICE ASSESSMENT

- Inability to obtain clear history
 - Location of pain
- Inability to obtain clear physical exam
 - Execution of physical exam maneuvers
 - Neurologic and manual muscle testing (Gr. 3-5)
 - Ligamentous exam
- Failure of non-operative management

CONCLUSIONS

1. Virtual assessment is a valuable tool for evaluation of the hip;
2. Requires adequate communication and coordination;
3. Many cases of hip pain can be managed virtually,
4. Radiographs are imaging of choice, MRI if radiographs are normal but **EXPECT POSITIVE FINDINGS AND INTERPRET CAREFULLY.**