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### 中華民國醫用超音波學會 骨骼肌肉系統學超音波基礎講習 ~ 扇關節之超音波檢查~

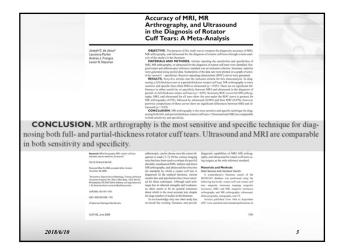
陳智光 桃園長庚醫院復健科

② 長庚紀念醫院

### Introduction

- The shoulder is one of the most common applications of MSK-USD due to the high incidence of rotator cuff disorders related to increasing aging and sporting activities.
- MSK-USD is now widely recognized as an accurate means to evaluate rotator cuff disease.

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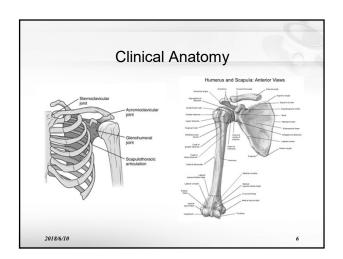


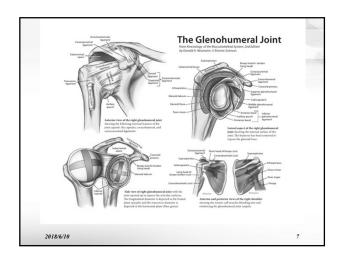


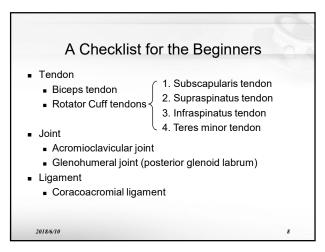
 In addition to the rotator cuff, interest is also growing in the MSK-USD evaluation of a variety of abnormalities of articular and para-articular structures located in and around the shoulder area.

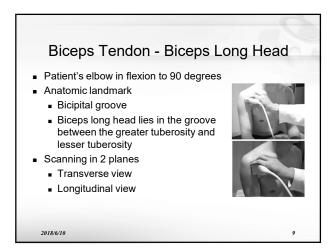
 A deep knowledge of anatomy, of the proper scanning technique and of the normal imaging findings is essential in order to perform an accurate shoulder examination with MSK-USD.

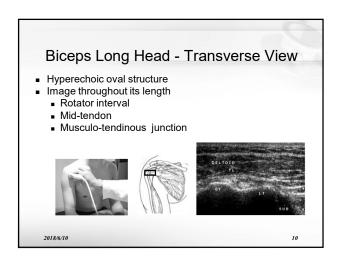
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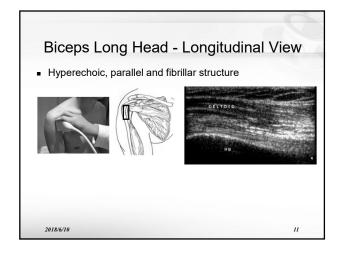


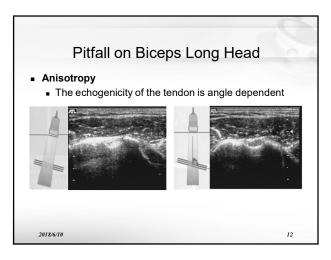


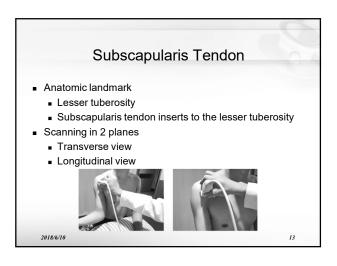


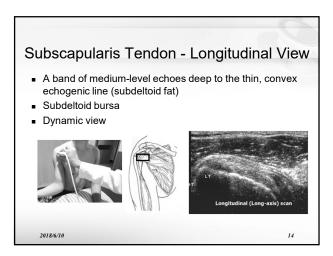


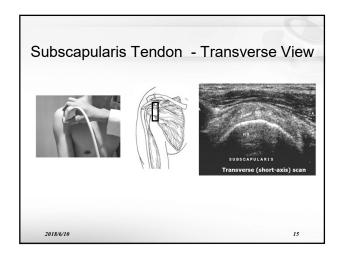


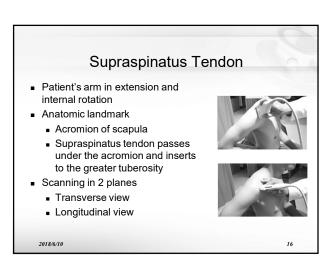


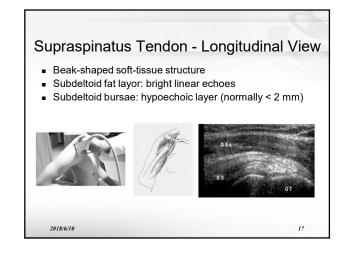


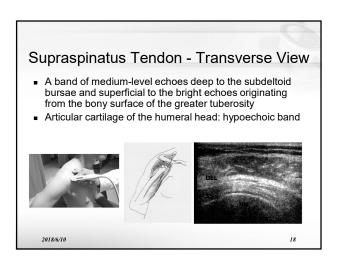


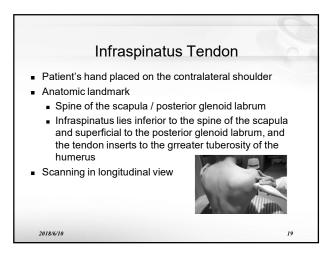


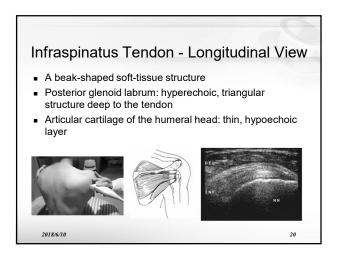


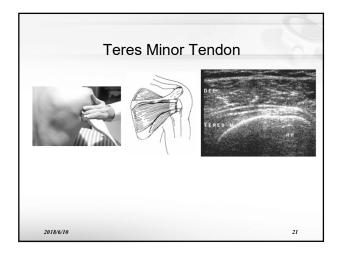


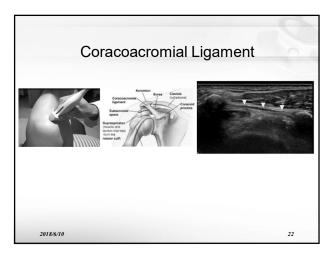


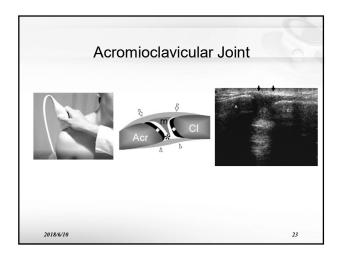


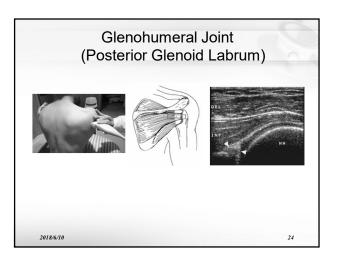


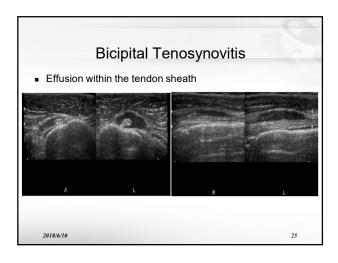












### Effusion in the Biceps Tendon Sheath Non-specific Bicipital tenosynovitis Rotator cuff tear Inflammatory arthropathy Trauma Infection

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# Rotator Cuff Tear Partial-thickness tear Full-thickness tear Complete tear

## Rotator Cuff Partial-Thickness Tear The sonographic finding of a partial-thickness tear is a focal hypoechoic area, or more commonly a mixed hyperechoic and hypoechoic area within either the articular side, bursal side or intra-substance of the tendon.

# Primary Signs of a Rotator Cuff Tear Nonvisualization of the cuff Localized absence or focal nonvisualization Discontinuity Focal abnormal echogenicity Herniation of the deltoid muscle or of the subacromial-subdeltoid bursa in the cuff

## Secondary Signs of a Rotator Cuff Tear Cortical irregularity of the greater tuberosity Cartilage interface sign Effusion in the biceps tendon sheath Effusion in the subacromial-subdeltoid bursa Glenohumeral joint effusion

