

DR ABHISHEK AGARWAL (MS ORTHOPEDICS),SPORTS INJURY SPECIALIST FELLOWSHIP IN ISRAEL ,SINGAPORE IN SHOULDER ARTHROSCOPY ASSOCIATE PROFESSOR, KGMU,LUCKNOW

# APROACH TO A CASE OF PAIN SHOULDER

### HISTORY

### EXAMINATION

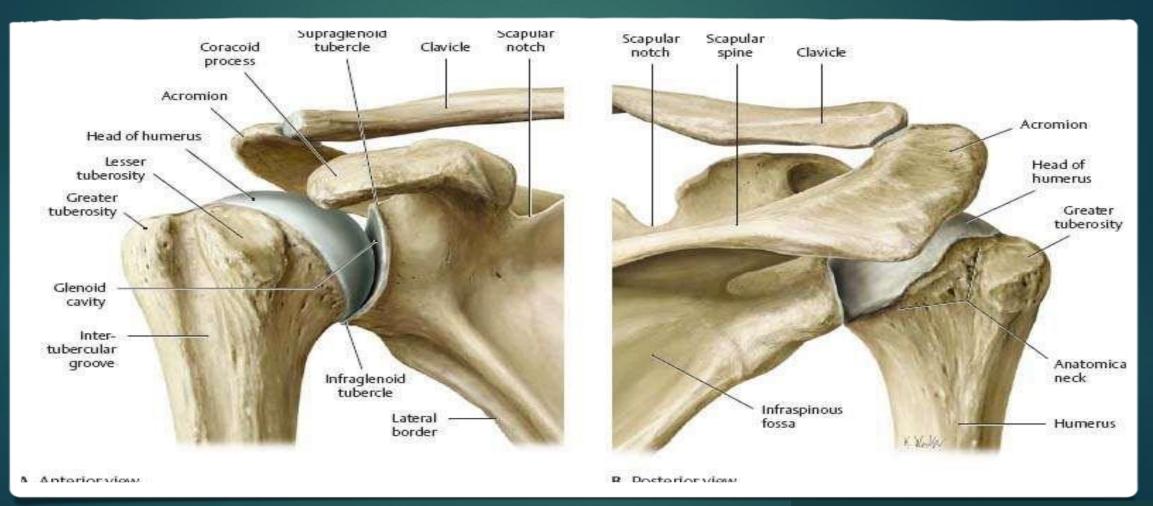
### INVESTIGATIONS

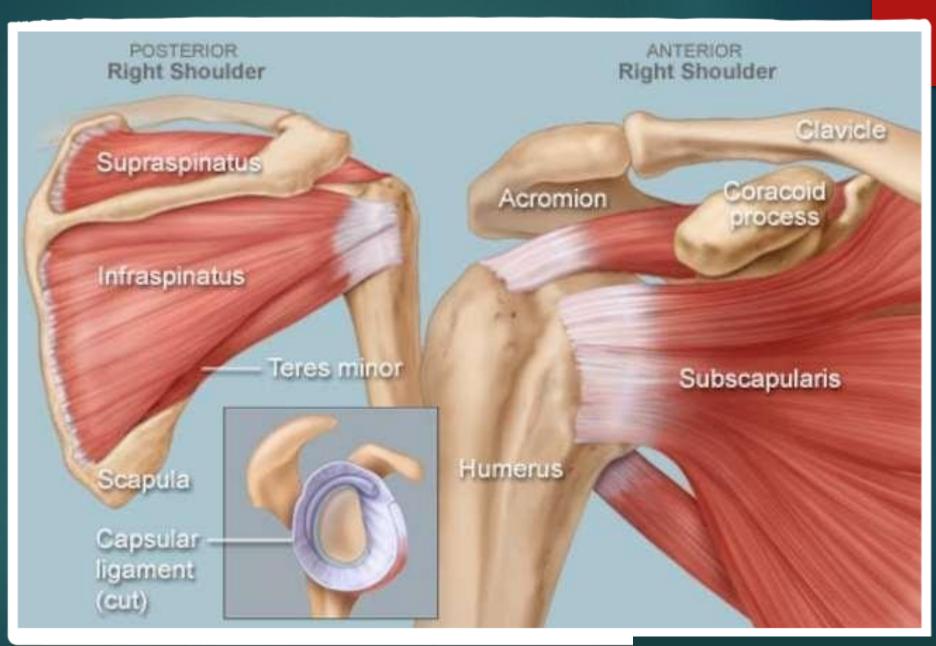
### GUIDING TREATMENT

### **BACK OF KNOWLEDGE**

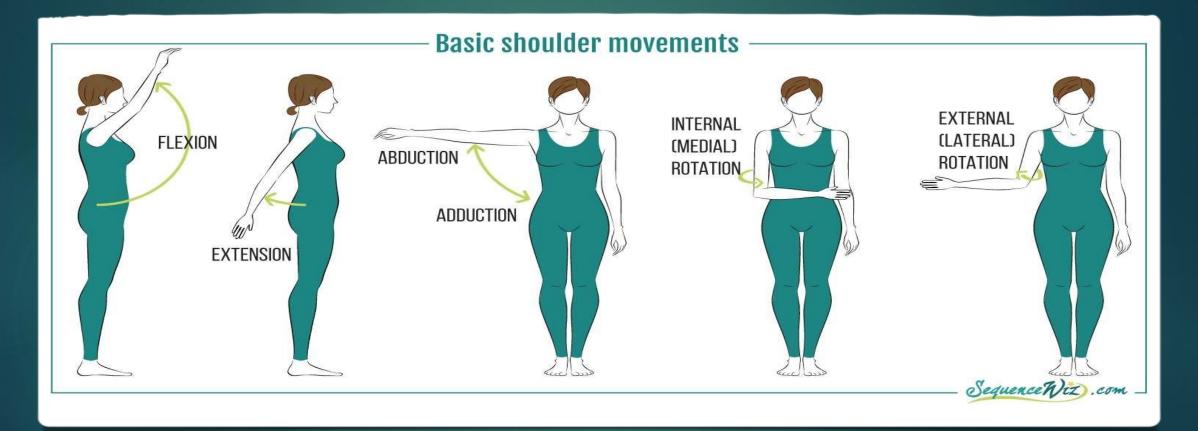
# ANATOMY

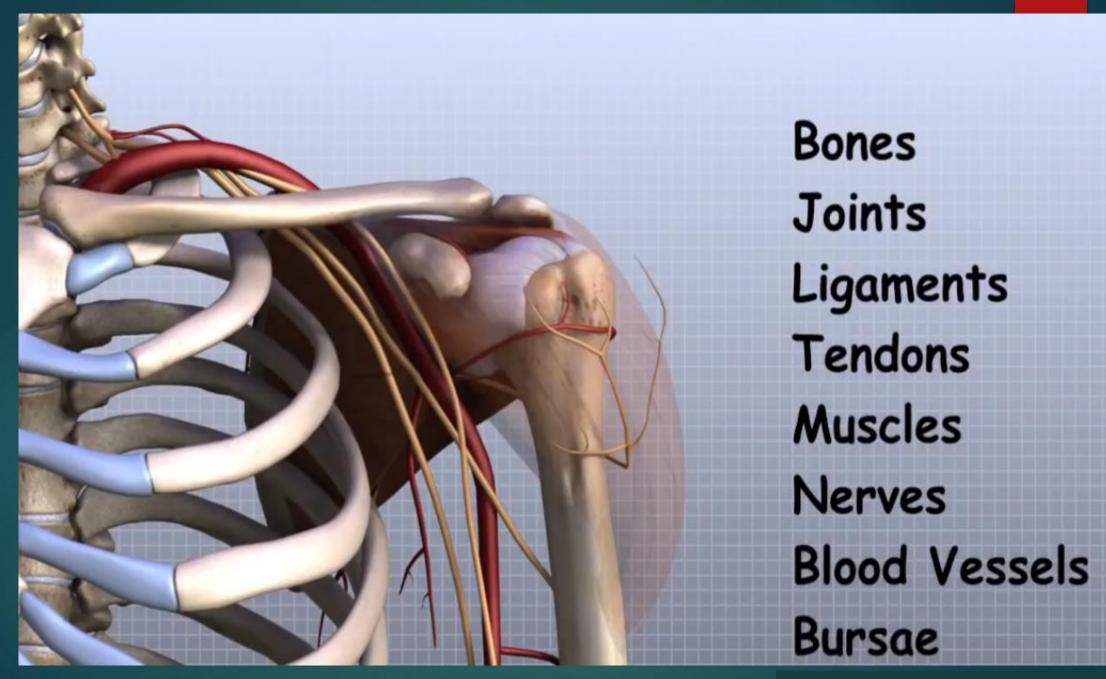
# **Bony Anatomy**





# **Examination (ROM)**





# EITIOLOGY OF DISEASE

CONGENITAL DEVELOPMENTAL TRAUMATIC INFECTIVE INFLAMMATORY NEOPLASTIC DEVELOPMENTAL DEGENERATIVE IDIOPATHIC

# CONGENITAL

KLIPPEL FIELD SYNDROME ERBS PALSY KLUMPKES PARALYSIS

# DEVELOPMENTAL

DYSPLASIAS

TORTICOLIS

# TRAUMATIC

FRACTURE

AVULSION

DISLOCATIONS FIRST EPISODE RECURRENT

SUBLUXATION

CUFF TEAR



R





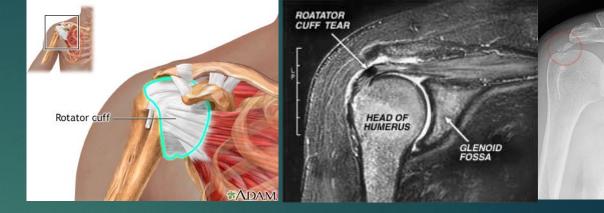


# INFECTIVE

PYOGENIC SEPTIC ARTHRITS

TUBERCULAR CARRIES SICCA

# INFLAMMATORY



### TENDINITIS/TEAR

### ROTATOR CUFF (PASSIVE MOVEMENTS ARE PRESERVED)

CALCIFIC

### BURSITIS

#### Acromian process Subacromial bursa Coracoacromial ligament - Coracoid process - Supraspinatus muscle



### CAPSULITIS

### FROZEN SHOULDER (BOTH MOVENT ARE REDUCED)



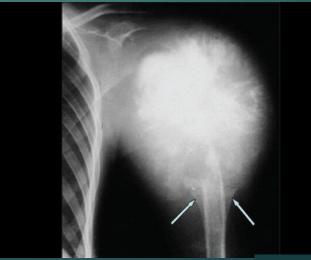
RHEUMATOID

# NEOPLASTIC

### BENIGN

### MALIGNANT



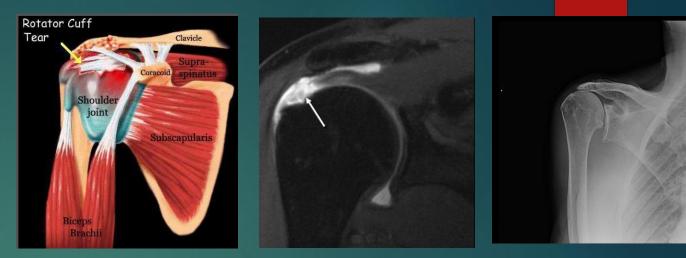




### **RELATIVELY SPARED**

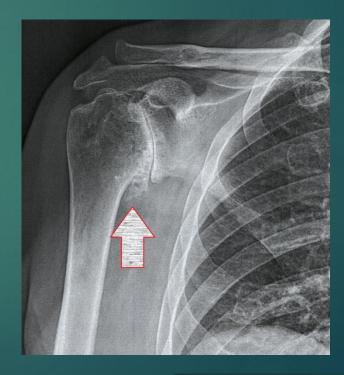
# DEGENERATIVE

### ROTATOR CUFF ARTHROPATHY



### GLENOHUMERAL ARTHRITIS

### AC JOINT ARTHRITIS



# IDIOPATHIC

AVASCULAR NECROSIS OF HEAD OF HUMERUS

Avascular of the SI



### HISTORY

### AGE

- <25 YRS INSTABILITY
- 25-50 YRS INSTABILITY TENIDINITIS (INFLAMMATION
- >40 YRS ROTATOR CUFF TENDINITIS (INFLAMMATION ARTHRITIS

- ► FRACTURE (TRAUMA)
- ► INFECTION
- ► TUMOR

# INSTABILITY



### RECURRENT SHOULDER DISLOCATION

- ► LABRUM TEAR (BANKART LESION)
- ► HILL SACH'S LESION
- ► SLAP LESION











SITE



### **BILATERALUSUALLY ASSOCIATED WITH CERVICAL SPONDYLOSIS**

# DURRATION

### ACUTE

SUB ACUTE

CHRONIC

WAXING AND VAINING

# CHARECTER OF PAIN

SHARP

DULL ACHING

## RADIATION/REFFERED PAIN

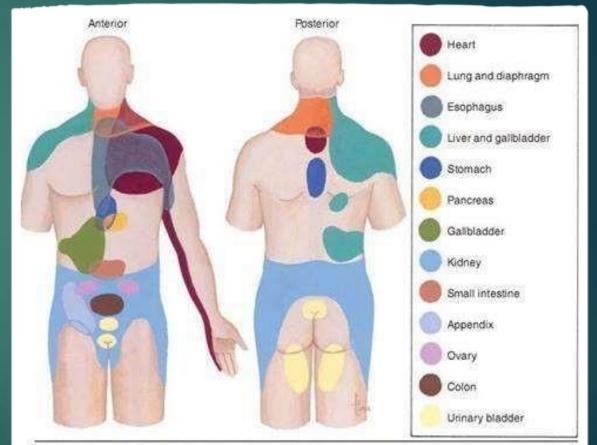
### CERVICAL C6-7

### BRACHIAL NEURALGIA

MYOCARDIAL

### DIAPHRAGMATIC

### LIVER/GALL BLADDER



Referred pain. The sites for referred pain from various organs are shown.

# DIURNAL VARIATION

NIGHT PAIN

AWAKENING IN SLEEP

SEVERITY

## ASSOCIATED FACTORS

FEVER

INFECTION

NECK PAIN

CERVICAL

VERTIGO

CERVICAL

WEAKNESS IN SHOULDR NEUROPATHY, ROTATOR CUFF TEAR

STIFNESS

ADHESIVE CAPSULITIS, FROZEN SHOULDER

## AGGREVATING / RELIEVING FACTOR

MOVEMENT SHOULDER NECK

THROWING

LIFTING OBJECTS

# OTHER HISTORY

TRAUMA

DIABETES

# CLINICAL EXAMINATION

SWELLING TEMPERATURE REDNESS SPECIFIC TESTS TESTS FOR DISLOCATED SHOULDER TESTS FOR FRACTURE AROUND SHOULDER TESTS FOR REURRENT SHOULDER DISLOCATION TESTS FOR ROTATOR CUFF DISEASE TESTS FOR BICIPITAL TENDINITIS TESTS FOR SUBACROMIAL PATHOLOGY TESTS FOR ARTHRITIS

# TESTS FOR DISLOCATED SHOULDER

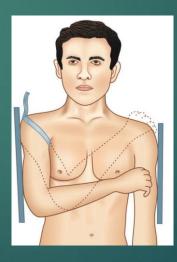
### CONTOUR

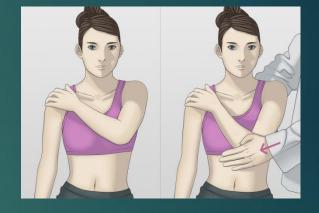
DUGA'S TEST

### HAMILTON RULER TEST

### CALLAWAYS TEST







CALLAWAY'S TEST

Vertical axillary circumference increased



# TESTS FOR FRACTURE AROUND SHOULDER

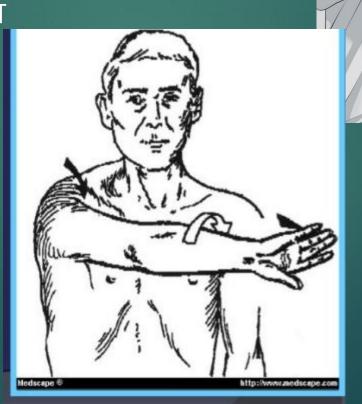
- ► SWELLING
- ► TENDERNESS
- ► LOSS OF MOVEMENT
- ► ABNORMAL MOBILITY

# TESTS FOR REURRENT SHOULDER DISLOCATION/INSTABILITY

APPREHENSION TEST

**RELOCATION RELEASE TEST** 

O'BRIEN TEST



## TESTS FOR ROTATOR CUFF DISEASE

FULL CAN TEST EMPTYCAN TEST

BELLY PRESS TEST

LIFT OFF TEST

# TESTS FOR BICIPITAL TENDINITIS

SPEED'S TEST



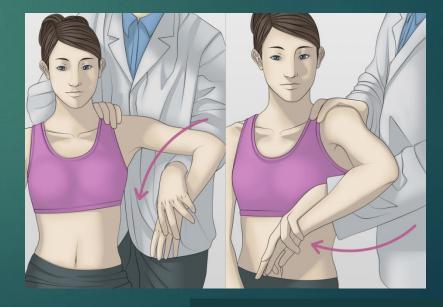
# TESTS FOR SUBACROMIAL PATHOLOGY

PAIN FULL ARC



NEER'S TEST

HAWKINS TEST



### TESTS FOR ARTHRITIS

Painful stiffness with bony block

### INVESTIGATION

XRAYS

MRI

HRUSG

BLOOD WORKS

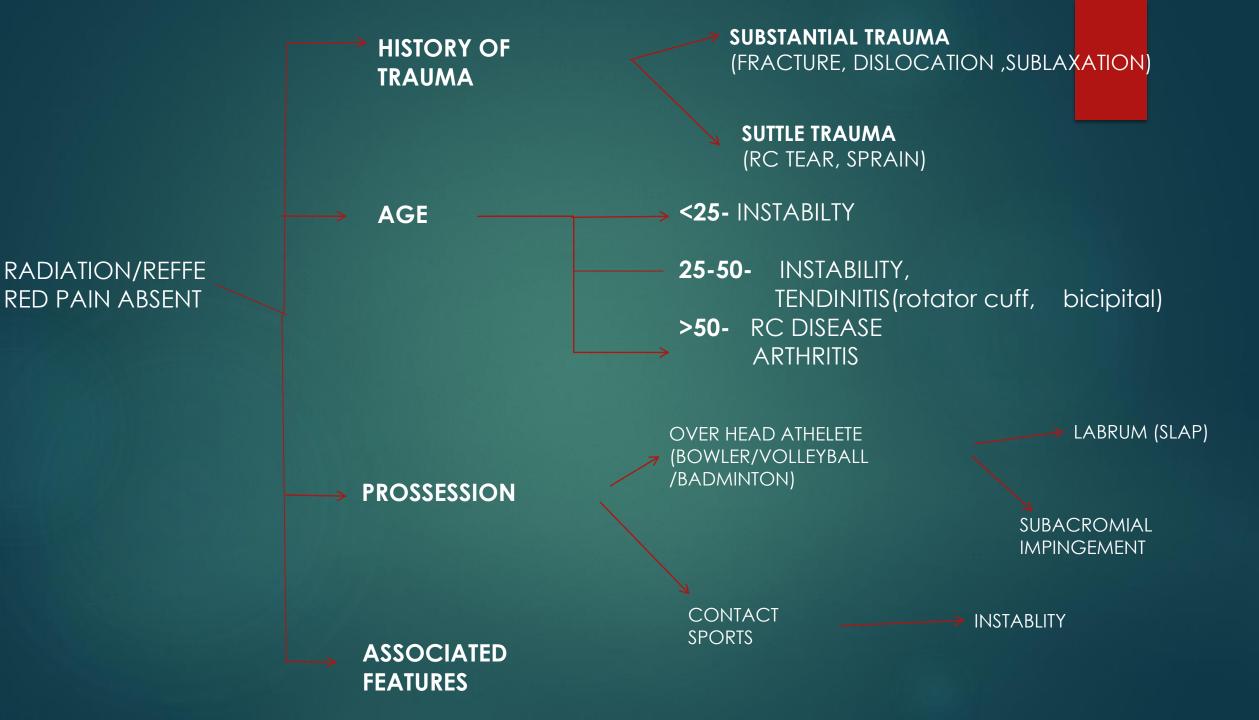
#### PAIN OVER SHOULDER

#### RADIATION/ REFFERED PAIN



-CARDIAC -DIAPHRAGMATIC -LIVER/GALL BLADDER -NECK PAIN ABSENT

-HISTORY OF TRAUMA -AGE -PROFESSION -ASSOCIATED FEATURES



#### ASSOCIATED FEATURS

-FEVER (Infection)

-CATCHING POPPING (Instability, Labrum disease)

-RECURRENT (Instablity)

-FROZEN SHOULDER (Diabetes)

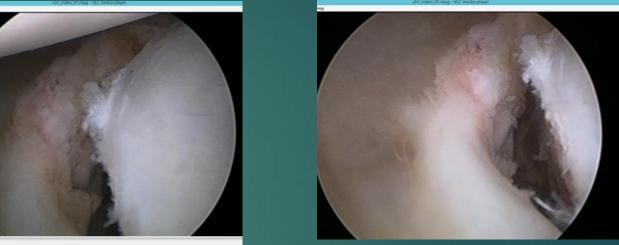
### TREATMENT

CONSERVATIVE

SURGICAL

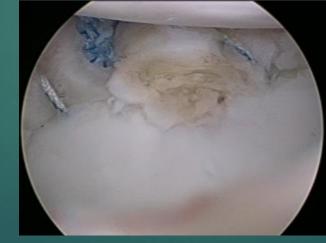
REHABILITATION

#### ARTHROSCOPIC BANKART REPAIR









A 15 YRS OLD YOUNG BOY COMES WITH THE HISTORY OF RECURRENT SHOULDER DISLOCATION, THE PATHOGNOMONIC LESION ?

- A) BICCIPITAL TENDINITIS
- B) BANKART LESION
- C) SUPRASPINATUS LESION
- D) SUBSCAPULARIS NODULE



A 50 YRS OLD DIABETIC FEMALE COMES IN ORTHOPEDIC OPD WITH PAIN AND STIFNESS OVER R SHOULDER FOR LAST 3 MONTHS, SHOULDER MOVEMENTS ARE MARKEDLY DECREASED (BOTH PASSIVE AND ACTIVE) AND PAINFULL, MOST PROBABLE CAUSE

- A) FROZEN SHOULDER
- B) ROTATOR CUFF DISEASE
- C) BICIPTAL TENDINITIS
- D) CALCIFIC TENDINITIS



A 55 YRS OLD MALE COMES IN ORTHOPEDIC OPD WITH PAIN AND STIFNESS OVER R SHOULDER FOR LAST 3 MONTHS, ACTIVE SHOULDER MOVEMENTS ARE MARKEDLY DECREASED BUT PASSIVE MOVEMENTS ARE PRESERVED MOST PROBABLE CAUSE

- A) FROZEN SHOULDER
- B) ROTATOR CUFF TEAR
- C) BICIPTAL TENDINITIS
- D) CALCIFIC TENDINITIS



10. When a 25-year-old patient comes into your practice with the following complaints: – Pain with overhead movements – Pain usually gets worse after activities and at night – Shoulder has been dislocated one year ago During the assessment you notice that the patient has pain when abducting and externally rotating his shoulder. Also, the patient's shoulder is clicking and popping during the assessment. What would you suspect the patient to have?

- A.Shoulder instability
- B.BICCIPITAL lesion
- C.Shoulder impingement
- D.Rotator cuff pathology



11. A 45-year-old man comes to the physician because of right shoulder pain that began after he chopped wood 2 days ago. Examination of the right upper extremity shows no obvious bone deformities or point tenderness. The pain is reproduced. When the patient is asked to externally rotate the shoulder against resistance; there is no weakness. In addition to the teresminor, inflammation of which of the following tendons is most likely in this patient?

(A) Infraspinatus
(B) Pectoralis
(C) Subscapularis
(D) Supraspinatus



11. A 65 YRS OLD MALE PRESENTS WITH PAIN LEFT SHOULDER WITH RADIATION TO UNDER ARMS UPTP LEFT ARM WITH TIGHTNESS IN CHEST FOR LAST ONE DAY MOST PROBLE LINE OF INVESTIGATION

(A) ECG(B) XRAY LEFT SHOULDER(C) CBC(D) HRUSG SHOULDER



11. A 45 YRS OLD FEMALE PRESENTS WITH PAIN LEFT SHOULDER WITH RADIATION TO ARMS UPTO LEFT HANDS AND FINGERS WITH NECK DISCOMFORT AND VERTIGO FOR 15 DAYSMOST CAUSE TO RULE OUT

(A) BRACHIAL NEURALGIA
(B) CERVICAL DISC DISEASE
(C) SUBACROMIUAL IMPINGEMENT
(D) NEOPLASM PROXIMAL HUMERUS



# THANK YOU





