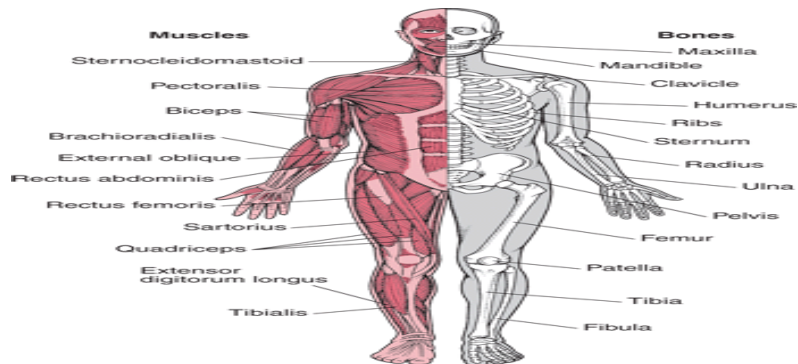


## MUSCULAR SYSTEM ( 20100-29999)



BONES = OSTEO

MUSCLES = MYO

TENDON = TISSUE WHICH CONNECTS BONE TO MUSCLE

LIGAMENT = TISSUE CONNECTS BONE TO BONE

FASCIA = TISSUE WHICH CONNECTS SKIN WITH MUSCLE

JOINTS =( ARTHRO) PRESENT BETWEEN TWO BONES

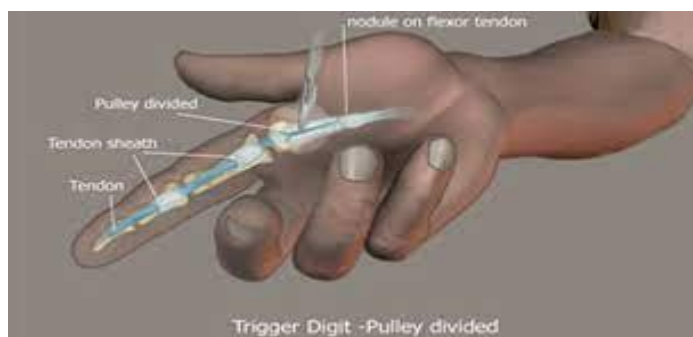
INCISION OR OPEN = CUT

PERCUTANEOUS INCISION = CUT THROUGH THE SKIN.

20206 – BIOPSY OF MUSCLE PERCUTANEOUS NEEDLE

20240 - BIOPSY OF BONE OPEN

1)INJECTIONS PROCEDURES ON TENDON :



2) 20551 - single tendon origin/ insertion2)

## COMMON TRIGGER POINTS



- No of muscle

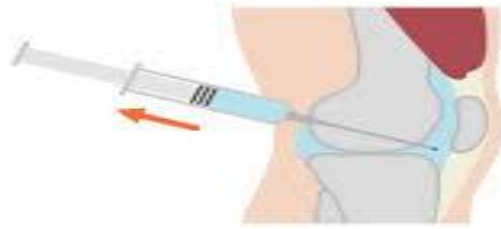
2) 20553 - single or multiple trigger points, 3 or more muscles

20553

20552

20552

3) **ARTHROCENTESIS** : surgical puncture to remove fluid joints from joints.



To code arthrocentesis see

- 1) TYPE OF JOINTS – ex ( small joints like (fingers, toes ) , intermediate joints like ( wrist , elbow, ankle) , major joints like ( shoulder, hip,knee)
- 2) With ultrasound guidance or without ultrasound guidance.

20600 – arthrocentesis, aspiration or injection, small joint ( fingers, toes): without ultrasound guidance.

20604 - with ultrasound guidance.

20605 – arthrocentesis aspiration or injection, intermediate joint (wrist or elbow or ankle ): without ultrasound guidance.

20606 - with ultrasound guidance.

20610 – arthrocentesis aspiration or injection, major joint ( shoulder , hip , knee, ) : without ultrasound guidance.

20611 – with ultrasound guidance.

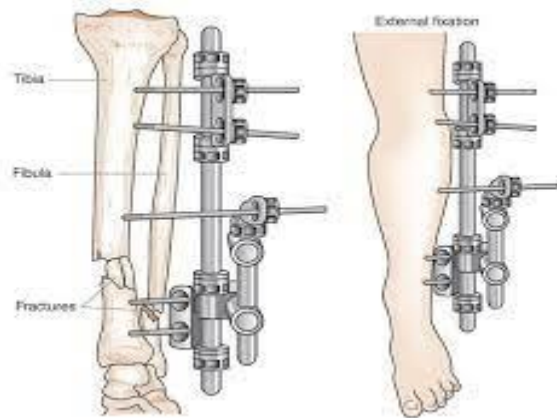
Q1) physician performed arthrocentesis on right hand fingers with ultrasound Guidance.

20604

Q2) physician performed arthrocentesis on left shoulder without ultrasound guidance.

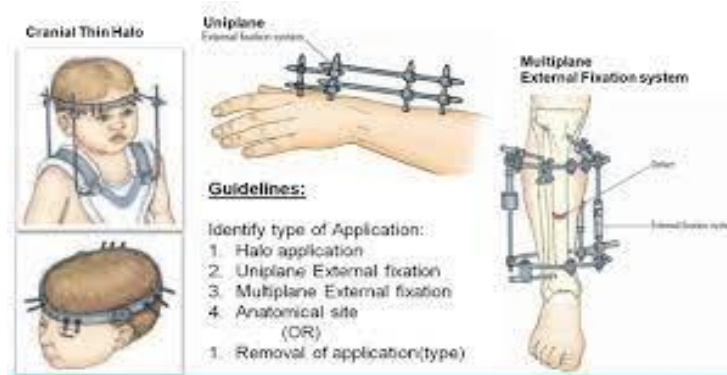
20610

4 ) EXTREMITAL FIXATION : outside support through the wire, pin,screw,metal band, rod or plate to treat the fractures from externally.



Three types

- 1) UNI PLANE external fixation
- 2) MULTI PLANE External fixation
- 3) Halo application

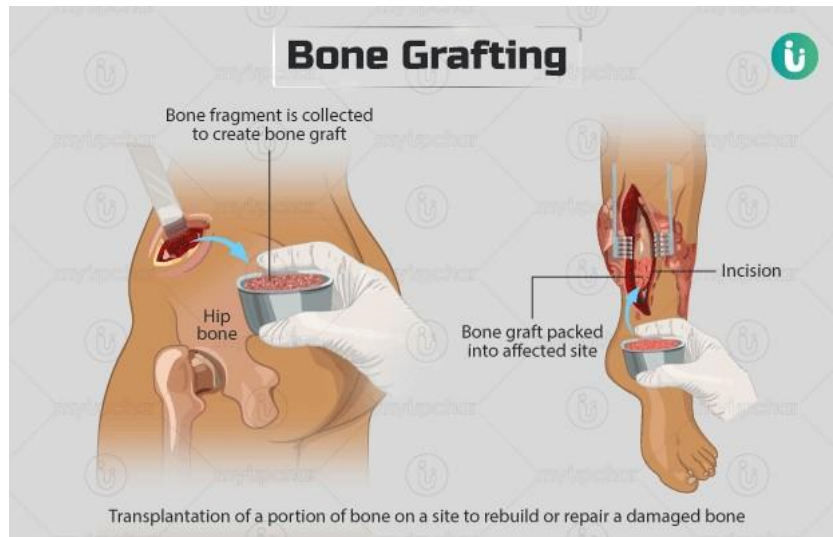


20664 – A cranial halo is placed on the head of the child whose skull is unusually thin due to congenital or developmenatal problems.

20690 - uniplane external fixation system

20692 – Multiplane external fixation system.

5 ) **BONE GRAFT** : Repairing bone with material from a persons own body.



20900 – Bone graft, any donor area : minor or small.

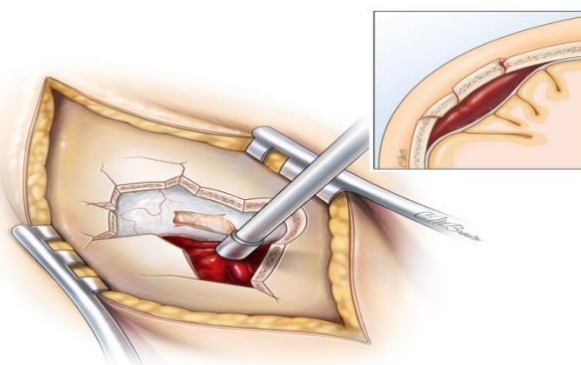
20902 - Major or large

## 6) FRACTURE CARE OR TREATMENT:

### 3 TYPES

- 1) Open treatment
- 2) Closed treatment
- 3) Percutaneous treatment

Open treatment key words :



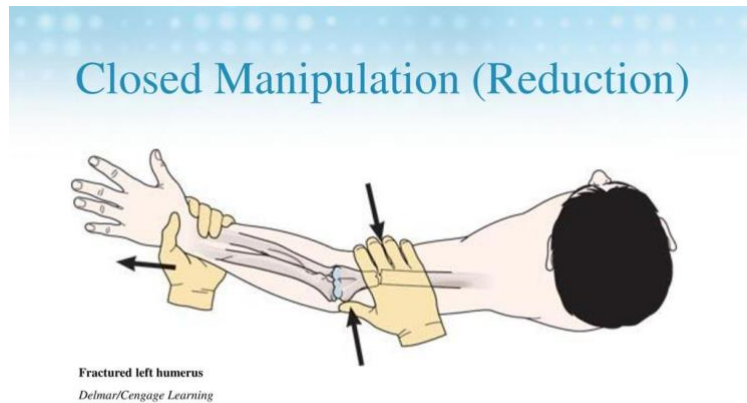
- Incision ( cut and open the site of fracture)
- Open treatment
- ORIF – open reduction & internal fixation

## Closed treatment KEY WORDS:

Two types

With manipulation and without manipulation

Manipulation : straightening of broken or dislocated bone by flexion, extension, Rotation, twisting , Reduction



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Without manipulation or with Stabilization : application of immobilizer splint – plaster of paris , application of cast these helps the movement of bone.



## GUIDELINES :

Whenever we are coding fracture treatment always we should consider type of fracture care or treatment but not type of fracture .

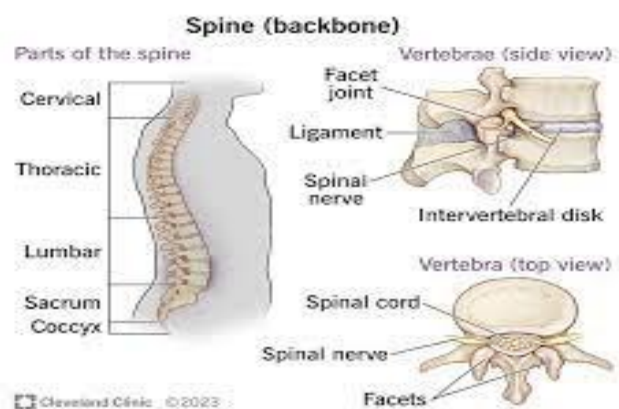
Example : 21315 – closed treatment of nasal bone fracture with manipulation : without stabilization

21320 - with stabilization.

21325 – open treatment of nasal fracture

21340 – percutaneous treatment of naso ethmoid complex fracture, with splint.

## 7) SPINE ( VERTEBRAL COLUMN)



### CERVICAL –C1-C7



Thoracic – T1- T12

Lumbar – L1- L5

Sacral

Coccygeal

## TO CODE SPINE (VERTEBRAL COLUMN) SURGERY WE SHOULD SEE

- 1) level of spine ( Anatomical site )
- 2) approach
  - anterior
  - posterior
  - lateral
  - antero posterior
- 3) no of vertebrae
- 4) no of intervertebral space
- 5) Instrumentation type :- segmental and non segmental
- 6 ) Type of bone Graft .

22100 – partial excision of posterior vertebral component ( spinous process, lamina or facet ) for intrinsic bony lesion, single vertebral segment : cervical

22101 - thoracic

22102 - lumbar

+22103 – each additional segment

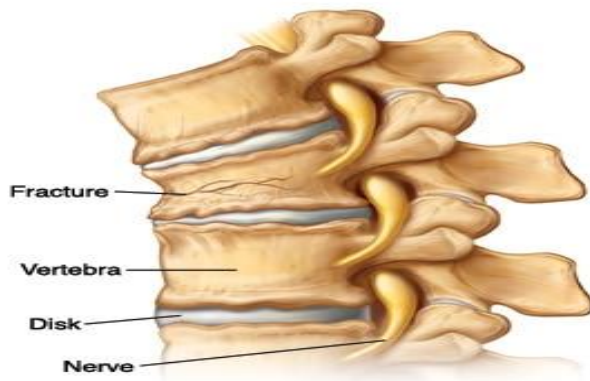
22210 – osteotomy of spine, posterior or posteriolateral approach, 1 vertebral segment : cervical

22212 : thoracic

22214 : lumbar

+22216 : each additional vertebral segment.

## 8) FRACTURE AND DISLOCATION OF VERTEBRAL COLUMN:



22310 - closed treatment of vertebral body fractures , without manipulation, requiring and including casting or bracing.

22325 – open treatment and or reduction of vertebral fractures and dislocations , posterior approach,1 fractured vertebrae or dislocated segment : lumbar

22326 : cervical

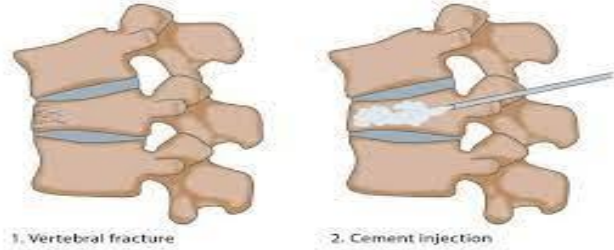
22327 : thoracic

+22328 : each additional fractured vertebrae or dislocated segment.

## 9) PERCUTANEOUS VERTEBROPLASTY AND VERTEBRAL AUGMENTATION;

PERCUTANEOUS VERTEBROPLASTY = Through the skin surgical repair of vertebrae by the processes of injecting a material (cement ) into the vertebral body to reinforce the structure by using imaging guidance.

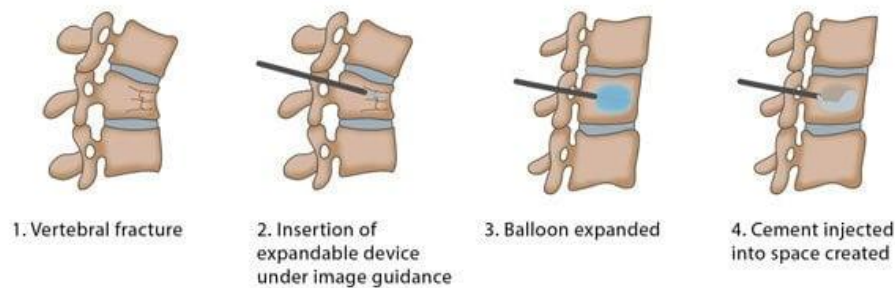
#### Percutaneous vertebroplasty



## VERTEBRAL AUGMENTATION;

: is a process of cavity creation followed by the injection of the material (cement ) under imaging guidance.

#### Vertebral augmentation



22510 – percutaneous vertebra plasty 1 vertebral body, unilateral or bilateral injection, of all inclusive imaging guidance : cervico thoracic.

22511 - lumbosacral

+22512 - each additional cervicothoracic or lumbosacral

22513 – 1vertebral body, unilateral or bilateral cannulation, inclusive of all imaging guidance percutaneous vertebral augmentation, including cavity creation using mechanical devices: thoracic

22514 - lumbar

+22515 - each additional thoracic or lumbar vertebral body.

## 10) ARTHRODESIS : SURGICAL FIXATION OF JOINTS.

TO CODE ARTHRODESIS SEE

- ANATOMICAL SITE – cervical, thoracic, lumbar
- NO OF SEGMENT – C1,C2,C3,C4,C5,C6,C7.
- APPROACH – lateral extracavitary approach technique, anterior or anteriolateral approach, anterior ,posterior

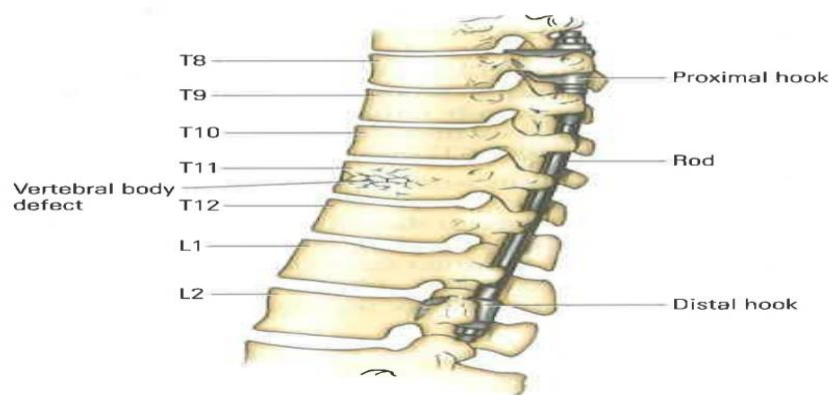
22548 – arthrodesis anterior transoral technique c1-c2 ( atlas- axis)

22590 – arthrodesis, posterior technique, craniocervical

11) NON – SEGMENTAL SPINAL INSTRUMENTATION : if the every segment does not have screws is called non segmental or fixation at each end of the construct.

### **Non-Segmental Spinal Instrumentation** 22840

Fixation at each end of the construct



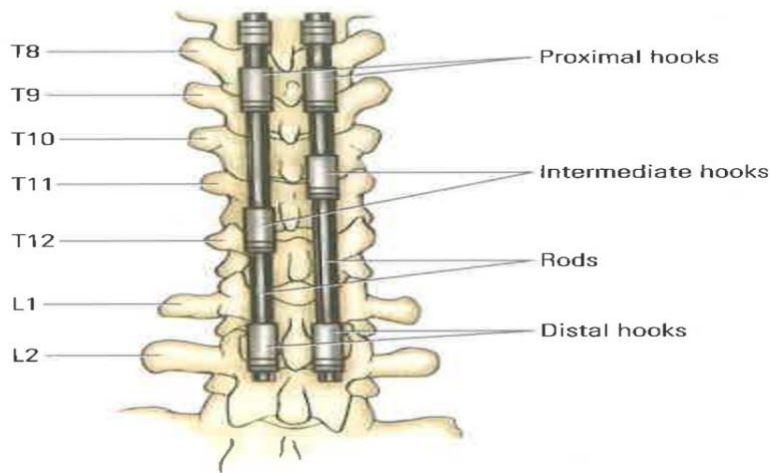
- these are add on codes gives after the procedure

+22840,+22841 etc

12) SEGMENTAL SPINAL INSTRUMENTATION : for every segment of vertebral column there will be a screw fixation.

## Segmental Spinal Instrumentation 22842-22844

Fixation at each end of the construct and at least one additional interposed bony attachment



+22845,+22846

## 13) HIP ARTHROPLASTY OR HIPREPLACEMENT



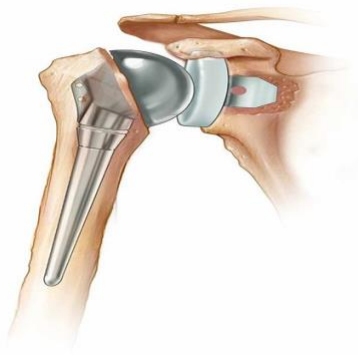
TOTAL HIP ARTHROPLASTY – BOTH FEMORAL HEAD AND ACETEBULAM  
REMOVAL AND REPLACE - 27130

PARTIAL HIP ARTHROPLASTY – ONLY FEMRAL HEAD IS REPLACED 27125

23470 – ARTHROPLASTY, GLENOHUMERAL JOINT : HEMI ARTHROPLASTY

23472 - TOTAL SHOULDER

Total shoulder arthroplasty



Reverse shoulder arthroplasty



#### 14 ) HALLUX REGIDIS CORRECTION WITH IMPLANT



28296 - With distal metatarsal osteotomy any method

#### 15 ) APPLICATION OF CASTS AND STRAPING



Casts application is included in fracture treatment we should not code additionally

If the patient only coming to cast application we should code

29035 - application of body cast shoulder to hips

#### 16) ARTHROSCOPY PROCEDURES:

- DIAGNOSTIC – Only for examination purpose

- SURGICAL - SURGERY PURPOSE



29830 – ARTHROSCOPY, ELBOW, DIAGNOSTIC, WITH OR WITHOUT SYNOVIAL BIOPSY

29834 – ARTHROSCOPY, ELBOW, SURGICAL , WITH OR WITHOUT SYNOVIAL BIOPSY.