



## IRA E-BULLETIN : ISSUE 1 | JANUARY 2020

### IMAGE BANK

Image Competition Winners (Blinded Review)

PRIZE	NAME	INSTITUTE	TITLE
Detailed Images (with description)			
1	Dr. Mohd Irfan, Dr. Pratyusha R, Dr. Liza R	NIZAM	Ochronosis : Nail, Palm, Ear, And Spine
2	Dr. Naveen R, Dr Avinash Jain	SGPGI	Malar malady- Malar Rash, Puffy hands, Puffy feet
3	Dr. Sundaram Dr Avinash Jain	SGPGI	Systemic sclerosis- Rat-tail esophagus
4	Dr. Devender Bairwa, Dr. Chengappa KG, Dr. Vir Singh Negi	JIPMER	Systemic Sclerosis- Finger to palm Distance
5	Dr. Sukanya, Dr. Sanket Shah, Dr. Chengappa KG, Dr. Vir Singh Negi	JIPMER	Diffuse Idiopathic Skeletal Hyperostosis
Images (with keywords alone)			
1	Dr. Lalit Duggal, Dr. Neeraj Jain, Dr. Mayank Gupta	Sir Ganga Ram Hospital	Olliers disease: a mimic of gout
2	Dr. Binoy Paul	Binoy arthritis and rheumatism Centre	Relapsing Polychondritis: Scleritis with ear chondritis

## Ochronosis : Nail, Palm, Ear and Spine

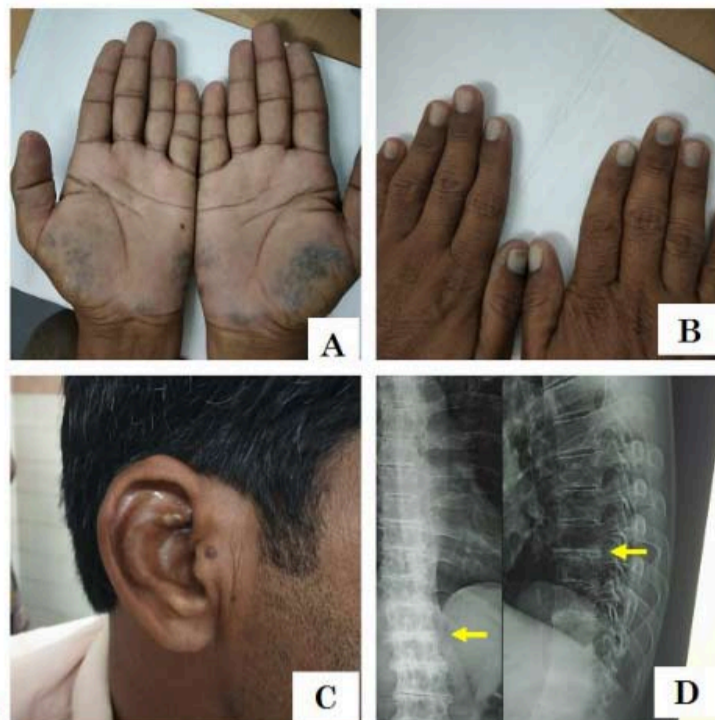
### 1. Image description

35 year old male who presented with mechanical back pain had findings of

- Image A -> Black pigmentation over palm
- Image B -> Nail with black color pigmentation
- Image C -> Darker ear helix due to Ochronosis
- Image D -> X ray spine showing Intervertebral disc calcification (arrow)

### 2. Learning points –

- Deficiency of the enzyme **homogentisate 1,2-dioxygenase(HG12DO)** leads to accumulation of oxidized homogentisic acid in the connective tissues, causing ochre-like pigmentation of the skin, sclera and cartilage
- Ochronotic arthropathy affecting the spine generally appears in the third decade.
- Narrowing of the intervertebral spaces and wafer-like disc calcification are diagnostic findings seen on spine radiographs.
- The disease may be misdiagnosed as AS, which is a close mimic



**Keywords :** Ochronosis, Intervertebral disc calcification



## Malar malady- Malar Rash, Puffy hands, Puffy feet

1. Erythematous, raised and puckered rash over malar area, forehead, with involvement of pinna, madarosis. Associated many a times with tenosynovitis hands and feet.
2. Raised and puckered type of malar rash with nodules and infiltrates in pinna. Associated tenosynovitis, thickened nerves.
3. Split skin smear positive for mycobacterium leprae.

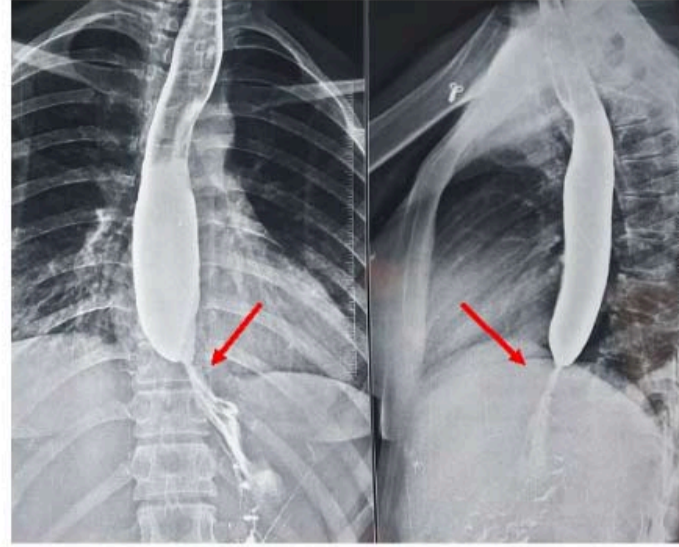


**Keywords :** malar rash, tenosynovitis, Hansen's



## Systemic sclerosis- Rat-tail esophagus

- Esophageal motility disorders and GERD are common in systemic sclerosis (SSc). More commonly patients have a patulous lower esophageal sphincter
- Fluoroscopic image of distal esophageal stricture, which is a rare complication of GERD in SSc. It is characterized by the rat-tail sign (solid arrow) seen on barium swallow.
- It is occasionally referred to as secondary achalasia.



Keywords : Systemic sclerosis, GERD, Rat-tail esophagus, achalasia



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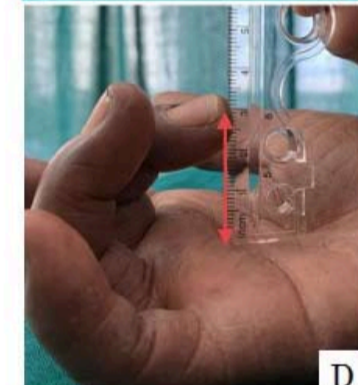


## Systemic Sclerosis- Finger to palm Distance

### Image description

1. Finger to palm distance in scleroderma patient
  - Fig(A): Mark a point on distal palmer crease aligning with middle finger
  - Fig(B): Draw a straight line to joint point on distal palmer crease and tip of the middle finger
  - Fig(C): Finger to palm distance (extension) can be measured from tip of the middle finger to point on distal palmer crease
  - Fig (D): Finger to palm distance (flexion) can be measured from tip of the middle finger to point on distal palmer crease while attempting maximal possible flexion at MCP, PIP and DIP joints of finger
- Medsger Systemic Sclerosis Severity Scale – FTP (flexion)
 

Normal – 0-0.9 cm	moderate – 2.0-3.9 cm
Mild – 1-1.9 cm	severe – 4.0-4.9 cm
End stage - >5.0 cm	



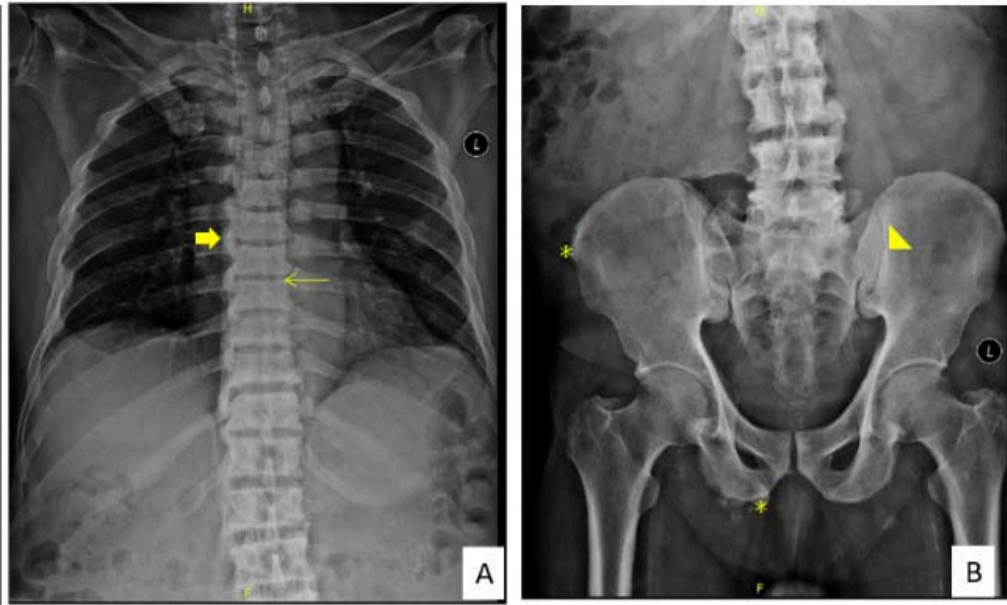
Keywords : Finger to palm distance, Systemic Sclerosis,



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## Diffuse idiopathic skeletal hyperostosis (DISH)

1. **Diagnosis: Diffuse idiopathic skeletal hyperostosis (DISH)**
2. **Findings**
  - Image A shows
    - Uninterrupted new bone may "flow" from one vertebra to another also termed as flowing candle wax ossification on right side of vertebral column (thick arrow)
    - Normal Intervertebral disc space (thin arrow)
  - Image B shows
    - Normal sacroiliac joint (Arrow head)
    - Pelvic Enthesophytes (asterisks)
3. **X ray:**
  - A –Thoracic spine PA view
  - B- Lumbosacral spine with pelvis AP view



**Keywords : DISH, flowing Candle wax, flowing syndesmophytes**

## Olliers disease : mimic of gout



**Keywords : Olliers disease, mimic of gout**



## Relapsing Polychondritis: Scleritis with ear chondritis



**Keywords : RP, Scleritis, Chondritis ear**



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