

#### TOURAINE-SOLENTE-GOLE SYNDROME: THE COMPLETE FORM

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#### INTRODUCTION

Primary familial or hypertrophic osteoarthropathy referred to pachydermoperiostosis (PDP) touraine solente gole syndrome. Autosomal dominant pattern of inheritance. M:F 9:1.

#### CASE SUMMARY

45/M presented with pandigital clubbing, thickened greasy &coarse skin, furrowed forehead with ptosis, palmoplantar hyperhidrosis, generalised seborrhic dermatitis& multiple folliculitis in both lower limbs & dyspepsia.

### IMAGING

X-Ray both hands&feet: Shows soft tissue thickening noted in all fingers & toes with e/o irregular periosteal thickening noted in metacarpals, metatarsals & proximal phalanges of both feet & hands.

forearm & X-Ray both legs:Irregular periosteal proliferation with cortical thickening of both radius, ulna & both tibia &fibula .E/O membrane interosseous ossification noted in Lforearm.

#### 99mTc-METHYLDIPHOSPHONATE BONE SCAN

Pericortical linear accumulation of radiotracer along the shaft of long bones & proximal phalanges.

## **UPPER GI ENDOSCOPY**

Prominent gastric mucosal folds with nodularity noted in entire stomach.

# CT ABDOMEN WITH IV & NEUTRAL CONTRAST

E/O uniform wall thickening (>1 cm) noted in the entire stomach & pylorus.

#### **MICROSCOPY**

E/O thickening& packing of collagen fibers in dermis with hypertrophy of epidermal appendages with seborrheic hyperplasia-suggestive of pachydermia.

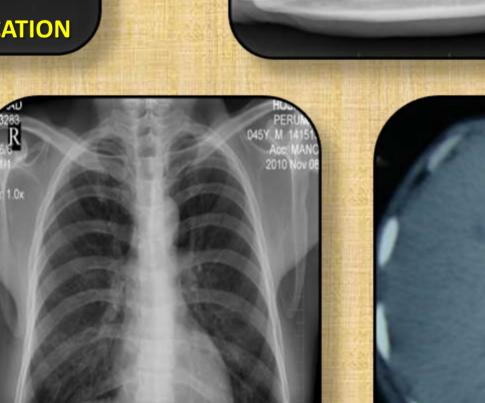




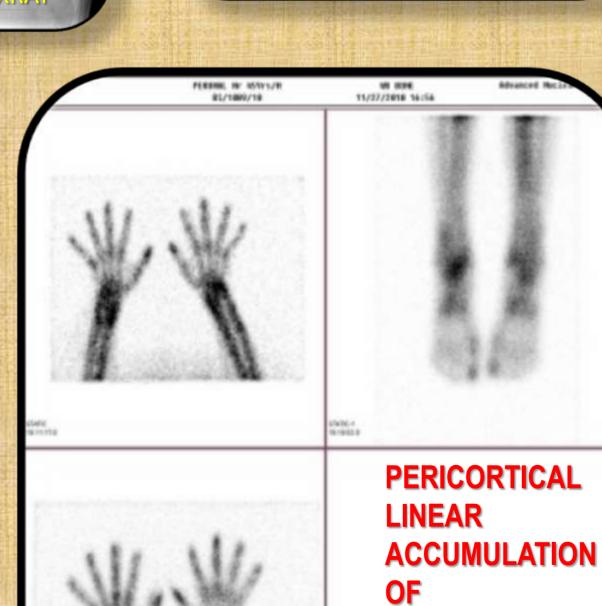


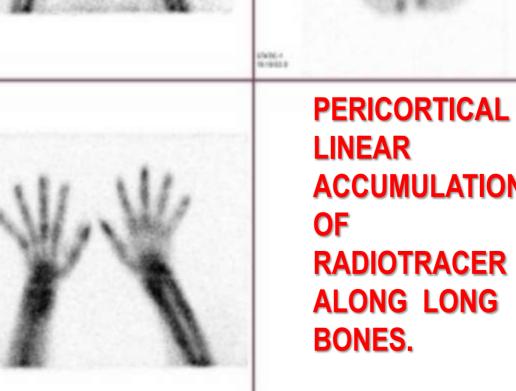
**RADIOTRACER UPTAKE ALONG** 

**SHAFT OF LONG BONES** 









Primary osteoarthropathy has to be differentiated from the secondary form.

	FEATURES	PRIMARY	SECONDARY
	AGE OF ONSET	Starts earlier	later
	COURSE	Remains static	progressive
	SKIN MANIFESTATION	Prominent	Less
	JOINT PAIN	Minimum	Severe
- Contains	EPIPHYSEAL INVOLEMENT	Yes	No
	UNDERLYING CAUSE	None	Ass. With bronchogenic CA, Bronchiect asis etc

#### DIAGNOSIS

Having excluded the secondary causes & with typical clinicoradiological features the diagnosis of TOURAINE-SOLENTE-GOLE SYNDROME with HYPERTROPHIC GASTROPATHY IS MADE.

### DISCUSSION

PDP is a rare hereditary disorder being classified into

a)Complete form-

pachydermia, clubbing, periostosis.

b)Fruste form-prominent pachydermia with minimal skeletal changes.

c)Incomplete form-no pachydermia.

#### COMPLICATIONS

May develop severe kyphosis, restricted motion, and neurologic manifestations.

## DIFFERENTIAL DIAGNOSIS

Acromegaly, Thyroid acropachy, Syphilitic periostosis.

#### TREATMENT&FOLLOW UP

NSAIDS, Colchicine, Pamidronate, Tamoxifen citrate & Isotretinoin. Progression typically caeses after 10 years.

## PATIENT EDUCATION

Genetic councelling to be offered to patients & their families.

## REFERENCES

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