

Image in Medicine

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Quiz 1

Radiograph of Pelvis of a 20 year male who came with complain of chronic Low Back Pain.

Questions :

- (1) What is the diagnosis?
- (2) What are the associations of this condition?
- (3) What are the other differential diagnosis?

Answers :

(1) Multiple sclerotic bone islands clustered around joints of pelvis consistent with osteopoikilosis.

(2) Osteopoikilosis is a sclerosing bone dysplasia and is commonly seen associated with osteopathia striata and melorheostosis.

(3) The differential diagnosis of multiple sclerotic bone lesions are : Bone Islands (Enostoses), Sclerotic Metastases, Osteosarcoma, Lymphoma, Osteoid Osteoma, Paget Disease.



Quiz 2

Contrast CT Scan images of brain of a 56 year old male who presented with recurrent Headache and Visual disturbance.

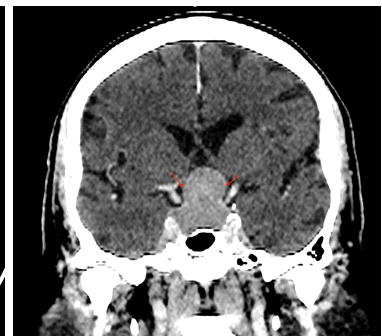
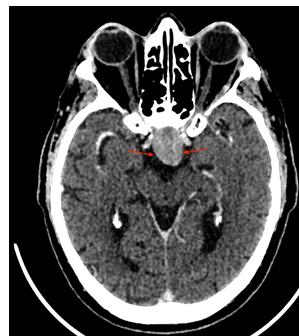
Questions :

- (1) What is the diagnosis?
- (2) What are the complications associated with this lesion?
- (3) What are the differential diagnosis?

Answers :

(1) Well defined homogeneously enhancing lesion is seen in the sella extending into suprasellar region, inseparable from pituitary gland. Lesion shows a characteristic dumbbell or figure of 8 configuration ("snowman sign"). There is also widening of the sella turcica. These imaging features are suggestive of pituitary macroadenoma.

(2) The common complications associated with pituitary macroadenoma due to local invasion are – optic chiasm compression and cavernous sinus invasion.



Rarely pituitary apoplexy may present acutely.

(3) The differential diagnosis of sellar lesions are :

Craniopharyngioma – more likely cystic and have calcification.

Meningioma – separate pituitary is usually identifiable. Dural tail is seen.

Pituitary metastasis – less well defined, bone destruction rather than remodeling seen.

Saccular cerebral aneurysms

Rathke cleft cyst



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