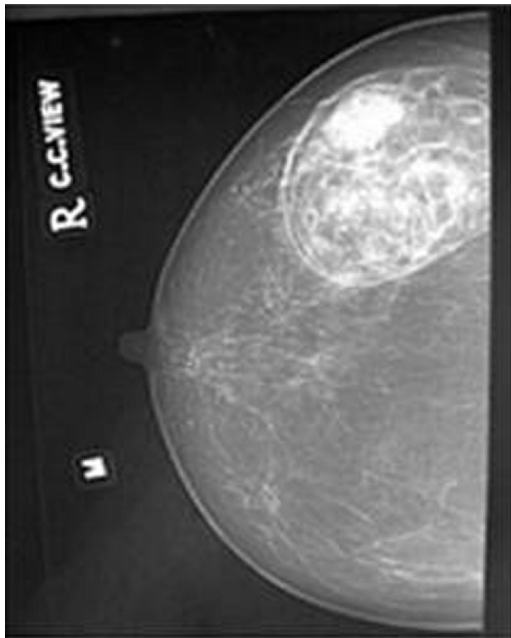


QUIZ 2

Submitted by: Farheen Rizwan, Ahmed Swaleh
Advanced Radiology Clinic (Pvt.) Ltd., Karachi, Pakistan.

PJR July - September 2009; 19(3): 106-107



A



B

Questions _____

- Q.1 Describe the mammographic features?
- Q.2 What is the probable diagnosis?
- Q.3 What are the features on ultrasound and M.R.I ?
- Q.4 Briefly describe the incidence, etiopathology and differential diagnosis.

QUIZ 2

Answers

Answer 1: Well defined oval mass in outer half of the breast, surrounded by a smoothly demarcated thin pseudocapsule.

- Mixed density due to presence of fat and fibroglandular tissue with mottled center.
- There is typical "Breast-within-a-breast" appearance.

Answer 2: Fibroadenolipoma or Hamartoma.

Answer 3:

On Ultrasound:

- Oval shaped circumscribed mass.
- Heterogenous internal echogenicity.
- Pseudocapsule has variable echogenicity.
- The nodule must be compressible and deformable with the pressure.
- Color Doppler shows no hypervascularity.

On M.R.I :

T1WI:

Well-circumscribed round/oval lesion with pseudocapsular demarcation.

Intermediate signal intensity for parenchymal and high signal intensity for fat component.

T2WI:

Intermediate signal intensity for parenchymal and fat components.

T1W Contrast Enhanced Images:

Contrast enhancement may be present or absent.

Answer 4: Incidence is 2-16 /10,000 mammograms. Age incidence is 20-80 years, mean age is 45 years.

Etiopathology:

It is a focal developmental pseudotumor composed of normal breast tissue components.

This is varying mixture of prominent fat and fibroglandular tissue elements (fibroadenolipoma) surrounded

by a pseudocapsule which is due to the compressed breast parenchyma. Rarely malignant changes have been observed within these lesions, presence of pleomorphic microcalcifications or spiculated area in the lesion are suggestive of malignant transformation.

Differential diagnosis:

Asymmetries
 Fibroadenoma
 Lipoma
 Cowden's disease
 Fibrolipoma
 Non-fatty hamartoma
 Galactocele
 Fat necrosis

References

1. Dahnert W, Radiology review manual. 6thed. Lippincott Williams Wilkins, 2007;571.
2. Berg Birdwell, Diagnostic imaging Breast. 1sted. Amirsys/Elsevier, 2006;**IV(2)**;28-30.
3. Hessler C, schnyder P, Ozzello L. Hamartoma of the breast: diagnostic observations of 16 cases. Radiology 1978; **126**: 95-8.
4. Feder JM, shaw de paredes E, Hogge JP, Wilken JJ. Unusual breast lesions: radiologic-pathologic correlation. Radiographic 1999; **19**: S11-S26.