CASE 2 40 Y/O WOMAN

Brief history

Past historyDenied

Chief complain

A firm mobile left breast lump with mild erythema noted in recent one month

Imaging studies

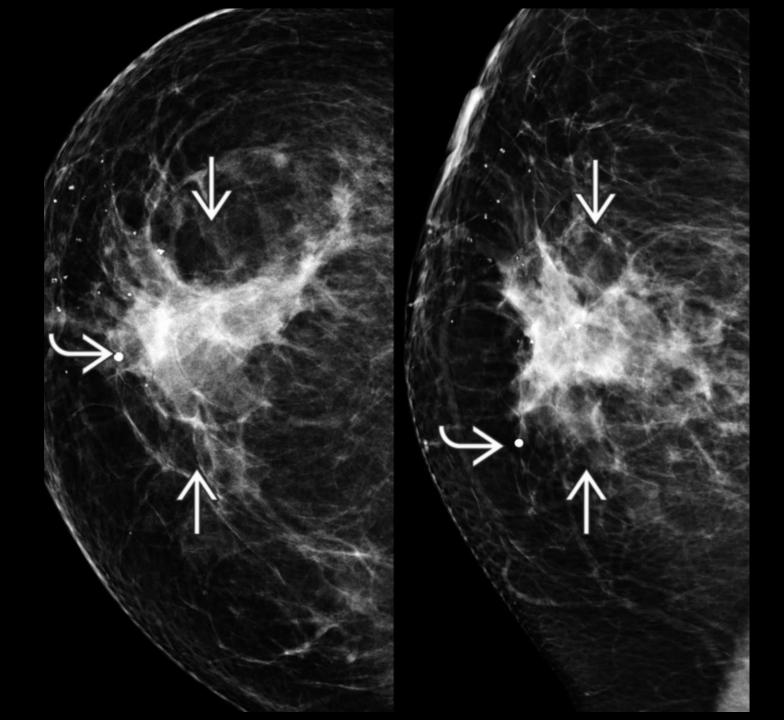
Digital mammography (2021.01.11)

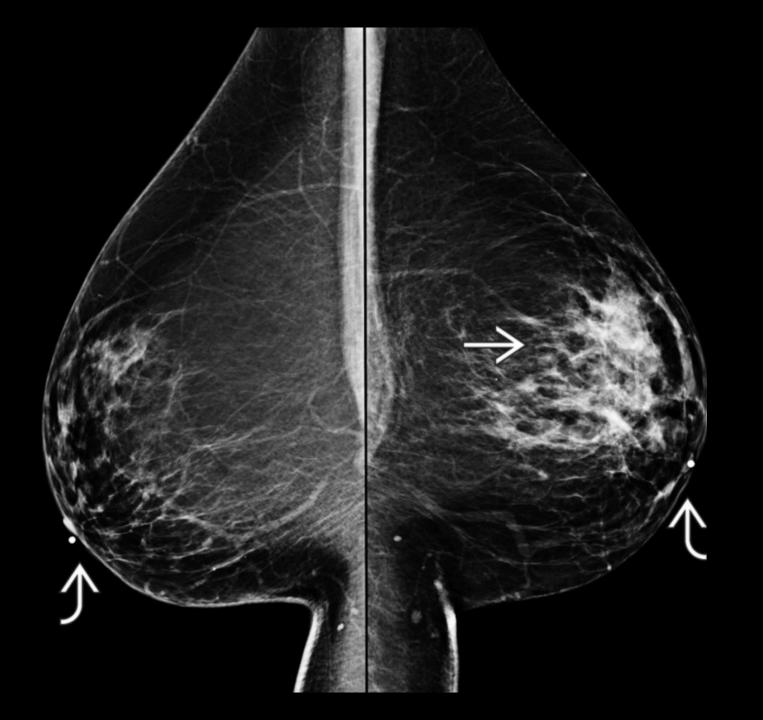
Imaging findings

- ✓ Focal asymmetric density in 9 o'clock direction of the left breast
- ✓ Grouped amorphous microcalcifications in UOQ of the left breast (BIRADS 0)
 - → grouped pleomorphic calcifications (BIRADS 4A)
 - → Core needle biopsy (9.5/2)
 Granulomatous mastitis (BIRADS 3)

Granulomatous mastitis

- a.k.a. idiopathic granulomatous mastitis
- Non-infective inflammatory condition of breast, characterized by lobulocentric, noncaseating granulomas
- Usually childbearing, late teens to 40s; typically post partum,
 Breastfeeding history very common
- Nulliparous women: Hyperprolactinemia or blunt trauma
- Idiopathic, probable autoimmune etiology
- Diagnosis of exclusion, especially cancer or tuberculosis
- Benign prognosis, but high rate of recurrence (16-50%)





Granulomatous	 Heterogeneous or extremely 	- Irregular hypoechoic mass	- Heterogeneous segmental T1
mastitis	dense parenchyma	usually with hypoechoic tubular	hypointense, T2 hyperintense signal
	 Asymmetry or irregular masses 	extensions	- Non-masslike enhancement on
	- Skin thickening	- Perilesional echogenicity	postcontrast dynamic T1-weighted
	 Axillary adenopathy 	- Vascularity of surrounding	-Heterogeneously enhancing irregular
	 Calcifications are rare 	tissues	lesions with gradual enhancement
		- Fistula formation	without washout
		- Skin thickening	-Skin thickening and nipple retraction
Acute	- Asymmetric density, mass, or	- Increased parenchymal	- Heterogeneous T2 signal correlating
Mastitis/Abscess	distortion	echogenicity	with parenchymal edema
	 Calcifications are rare 	- Multiloculated, nonvascular,	- Rim-enhancing irregular mass
	 Skin and trabecular thickening 	hypoechoic fluid collections	- Skin and trabecular thickening
	- Axillary adenopathy	- Skin thickening	
Inflammatory	- Skin and trabecular thickening	- Increased parenchymal	- Streaky T2 signal correlating with
breast cancer	- Global asymmetry	echogenicity	parenchymal edema
	 Axillary adenopathy 	- Increased diffuse vascularity	- Rapid enhancement with delayed
	 Less commonly multiple masses, 	- Skin thickening	washout; enhancing irregular masses,
	calcifications or architectural	- Dilated lymphatics	non-masslike enhancement or
	distortion		reticular/dendritic enhancement
			- Skin thickening and enhancement

- Irregular, hypoechoic vascular

mass with indistinct, angular or

- Perilesional echogenicity

spiculated margins

MRI

Irregular enhancing mass or

segmental area of non-masslike

early washout kinetics (Type 3)

enhancement, which demonstrates

US

XR

- Irregular mass with spiculated or

indistinct margins

- Architectural distortion

Axillary adenopathy

May have calcifications

Invasive breast

carcinoma