

## Differential Diagnosis of Breast Mass

Breast Mass	Goroll & Mulley	Porter	Labus & Kowalak	Gomella	Paulman	Seller	Rafferty & Lim	Total	Collected cases
Cancer – breast	x	x	x	x	x	x	x	7	14
Fibrocystic changes	x	x	x	x	x	x	x	7	
Fibroadenoma	x	x	x	x	x	x	x	7	2
Breast infection – mastitis	x	x	x		x		x	5	2
Abscess – breast	x		x		x		x	4	1
Paget’s disease	x		x		x			3	
Fat necrosis				x		x	x	3	
Mammary duct ectasia	x		x					2	
Galactocele		x					x	2	
Intraductal papilloma					x			1	
Phylloides tumor							x	1	1
Lymphoma									1
Cyst									3
Sebaceous cyst									1
Lipoma									1
Epidermoid inclusion cyst									1

<b>Breast Mass</b>		
<b>Cause</b>	<b>Clinical Features</b>	<b>Imaging Findings</b>
<b>BREAST PARENCHYMA</b>		
Breast cancer	Breast nodule.	Mass, asymmetry, malignant calcifications, architectural distortion, dilated duct(s) upstream from obstructing lesion.
Fibrocystic breast	Breast nodule.	Mass (cyst or collection of cysts), asymmetry.
Fibroadenoma	Breast nodule.	Mass, benign calcifications.
Breast abscess	Breast nodule, erythema, fever, Peau d'orange. Breast discharge (pus).	Mass. US shows a multiloculated hypoechoic avascular lesion with acoustic enhancement.
Paget disease	Red, swollen, tender breast.	Mass, asymmetry, calcifications.
Fat necrosis	History of trauma or breast reduction. Breast nodule, erythema, nipple retraction.	Mass, peripherally calcified, centrally fat-density lesions.
Ductal ectasia	Breast nodule, erythema, itching, lymphadenopathy, nipple discharge, nipple retraction, Peau d'orange	Dilated ducts; rod shaped calcifications.
Mastitis	Breast nodule, erythema, fever, nipple retraction,.	Mass, asymmetry.
Infected sebaceous cyst	Breast nodule, erythema.	Mass in a subcutaneous position.
Intraductal papilloma	Breast nodule.	Mass in an intraductal location; distended duct(s) upstream from the lesion.
Phyllodes tumor	Breast nodule.	Mass.
<b>BREAST SKIN</b>		
Breast cancer	Breast nodule.	Skin thickening, skin retraction.
Paget disease	Red, swollen, tender breast.	Skin thickening.
Mastitis	Breast nodule, erythema, fever, nipple retraction,.	Skin thickening.
Infected sebaceous cyst	Breast nodule, erythema.	Subcutaneous skin lesion.
<b>AXILLARY TISSUE</b>		
Breast cancer	Breast nodule.	Mass (primary axillary tail tumor), lymphadenopathy (metastases).
Breast abscess	Breast nodule, erythema, fever, Peau d'orange. Breast discharge (pus).	Lymphadenopathy (reactive or infectious)
Mastitis	Breast nodule, erythema, fever, nipple retraction,.	Lymphadenopathy (reactive or infectious)
Infected sebaceous cyst	Breast nodule, erythema.	Lymphadenopathy (reactive or infectious)

## References

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