

PenProfiler

Evidence Based Medicine based on imaging attributes correlated with biopsy pathology.

Only PenRad offers this exclusive patented diagnostic feature.

Profiler offers insight to increase TP (True Positive) and reduce FP (False Positive).

As the abnormality is described using breast lexicon terminology, the small Profiler button renders a match quantity of malignant and benign biopsied counts for the facility and accumulated statistics.

Tapping on the Profiler button exposes detailed biopsy outcomes and quantity. Tapping on pathology finding provides direct access to your patients with matching imaging lexicon abnormalities descriptors.

Ab Type Index Satellite Possible Developing Multiple Cluster of Various size Mass Mass solid Mass part solid Mass skin	Profile Ab Shape Irregular Oval Round Reniform Round Margin Circumscribed Indistinct Microlobulated Microlobulated Obscured Spiculated Density High density Low density Equal density Fat containing Cent lucent	Assoc Calc Generic calcs Amorphous Branching Coarse Dystrophic Fine Heterogeneous Indistinct Layering Linear Lucent-centered Milk of calcium Spherical Suture Vascular	Assoc Findings Archit distortion Axillary adenop Brachy tube Bx clips Bx clips Chest wall invas Gold Seed Nipple retract Hematoma Post-surgical scar Seroma Skin involvement Skin lesion Skin retraction	Consistent with Likely represents Most likely Resembles w/differential diagnosis Abscess Carcinoma Carcinoma known Cluster of cysts Cyst Cyst Oil DCIS Fat necrosis Fibroad. degenerating Fibroadenolipoma Fibroadenoma Fibrocytic change Fibroglandular tissue Fibrosis Hamartoma Hematoma Intramam node Lipoma Lymph node Mass Solid Mastitis Papillary lesion Post lumpec scar Post-surg scar Prev biopsy Prev surgery Prev trauma Radial scar Seroma Skin lesion	Impression & Recs <change birds> Highly suggestive of malign. Unless previous show no change Diagnostic Mammogram Dx mammo & US Ultrasound Poss. Ultrasound Biopsy BX base on clinical Clinical correlation Core Biopsy Diagnostic aspiration FNA biopsy MRI 3D Imaging 3D spot CC 3D spot MLO 3D spot ML 3D spot LM MRI Biopsy Needle loc. & surg bx US loc. & surg bx Poss. core bx Poss. stereo vac bx Poss. US bx Poss. vac bx Sclerimammography Stereotactic bx Surgical Consult Surgical consult & bx Surg/oncological consult Ultrasound guided bx Vacuum Bx		
Changes New Not sig chg. Stable	Changes No long seen Part removed Incr in size Decr in size Less prom. More prom. Incr in number Decr in number Incr in calcs Incr in calcs Represents change	Calc. Dist Clustered Diffuse Grouped Linear Regional Scattered Segmental	Corresponds with US sz < US sz > US MRI sz < MRI sz > MRI Palpated sz < palp sz > palp Pain Concern Redness Tender Post-op Scabi Ductog. Aspir Incidental find Biopsy Surgery Skin marker Prior ex. Outside Nipp.Dischg.	Not Prev Seen On C.Exam US Duct Mammo MRI Outside exam	Special Circumstances Only on Tomo Visible ML only Not sig if nt palpable Not on prev study	Add Views Confirm Do not Confirm	Dem By Prior US Aspir Biopsy MRI
Size/Dist/Axis Ab dimensions>> Parallel/skin Perpendic/skin In skin Inframammary Hide clock on rpt Hide location Hide depth Use in/out/up/low Ref.Slices>>							
Add Text	OK	Cancel	m15:b3-i212 m1519:b189-i5450	Set Defaults & Macros	Help		

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The Detailed Profiler displays the quantity of the matching abnormalities combined with the selected lexicon elements for the distribution of pathological findings for facility exams and accumulated cases.

Matching Exam's Pathology Findings									
	Result	#Local	% of Result	#National	% of Result	Code	Findings		
1	malignant	4	26.67%	1164	76.63%	ID	Invasive Ductal Carcinoma		
2	malignant	3	20%	29	1.91%	FA	Fibroadenoma		
3	malignant	2	13.33%	117	7.7%	IL	Invasive Lobular Carcinoma		
4	malignant	2	13.33%		%	IPC	Invasive Papillary Carcinoma		
5	malignant	1	6.67%	11	.72%	CC	Mucinous Carcinoma, Invasive		
6	malignant	1	6.67%	25	1.65%	CI	Comedocarcinoma (Intraductal)		
7	malignant	1	6.67%	12	.79%	DCL	Intraductal Carcinoma, low grade		
8	malignant	1	6.67%		%	FS	Fibrosarcoma, Mesenchymal Tumors		
9	malignant	1	6.67%		%	ICP	Intracystic Papillary Carcinoma		
10	malignant	1	6.67%	7	.46%	MC	Medullary Carcinoma, Invasive		
11	malignant		%	64	4.21%	*	Other malignant		
12	malignant		%	11	.72%	ADC	Adenoid Cystic Carcinoma		
13	malignant		%	3	.2%	AP	Apocrine Carcinoma		
14	malignant		%	14	.92%	DCIS	Ductal Carcinoma In Situ		
15	malignant		%	25	1.65%	DS	Intraductal Carcinoma, Noninvasive		
16	malignant		%	17	1.12%	II	Invasive and In-situ Cancer		
17	malignant		%	16	1.05%	NOS	Malignant, Non-Specific		
18	malignant		%	3	.2%	RM	Recurrent Malignancy		
19	malignant		%	30	1.97%	TC	Tubular Carcinoma, Invasive		
20	benign	1	33.33%		%	ADM	Adenoma		
21	benign		%	6	3.17%	*	Fibrosis		
22	benign		%	45	23.81%	*	Other benign		
23	benign		%	3	1.59%	AB	Abscess		
24	benign		%	4	2.12%	ADH	Atypical Ductal Hyperplasia		
25	benign		%		%	ALH	Atypical Lobular Hyperplasia		
26	benign		%	11	5.82%	AM	Apocrine Metaplasia		
27	benign		%	14	7.41%	BC	Benign Cyst(s)		
28	benign		%	4	2.12%	DHU	Ductal Hyperplasia, Usual		
29	benign		%	29	15.34%	FC	Fibrocystic Changes		
30	benign		%	3	1.59%	FM	Fibromatosis		

Print List Show Exams Exit Help

By tapping on the path type, exposes facility patients with matching combined breast lexicon elements.

Exams w/pathology: ID - Invasive Ductal Carcinoma					
Sel	Date	Description	Patient Name	PID	Rad Name
1	09/15/2005	Mammogram	Soonpaa, Adeline K	8823544	Anderson, Christine, M.D.
2	12/14/1995	Mammography Examination	Lee, Julie P	3755	Anderson, Christine, M.D.
3	12/05/2008	Mammogram	Eagle, Angela W	43418	Black, Jenny, M.D.
4	09/02/2010	Mammogram	Arzaga, Dale H	45903	Frej, Petter, M.D.

View patient priors Print List Show all exams with finding - unfiltered by procedure type or selections Show Findings Exit Help

By tapping on a patient the complete exam history is exposed (screen not shown) to offer review of exams. If desired, tapping the export button enables our PenFetch module to bring images to the reading workstation for research and/or investigation.

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