

ncers missed on mammography: How to Avoid Them

Thank you to :

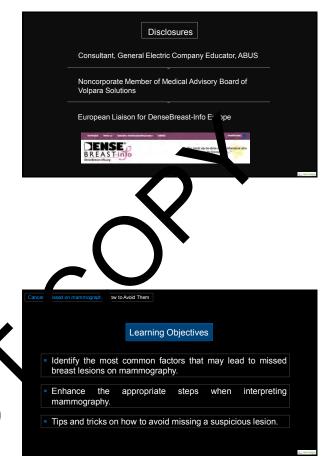
Advancing the Art of Breast Imaging

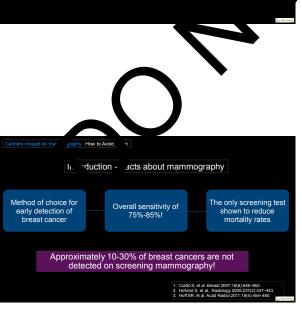
Cancers Missed on Mammography and
How to Avoid Them

Athina D. Vourtsis MD, PhD

Director of Diagnostic Mammography Center, Athens Greece
Founding President of the Hellenic Breast Imaging Society
European Lisaion of DenseStreat-Info.org

Chicago International Breast Course The Westin Chicago River North November 1-3, 2019

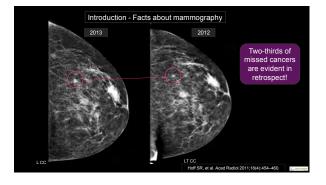




Acknowledgments

Ellen B. Mendelson, MD, FACR, FSBI, FSRU

Georgia Giakoumis Spear, MD





Implications of delayed diagnosis of breast cancer

More aggressive therapies needed!

Increased number of deaths!

How prevalent are breast cancer - related claims?

Radiologists are the top physicians involved in breast cancer - related claims

Definition of missed cancer vs false negative mammogram

Definition of a

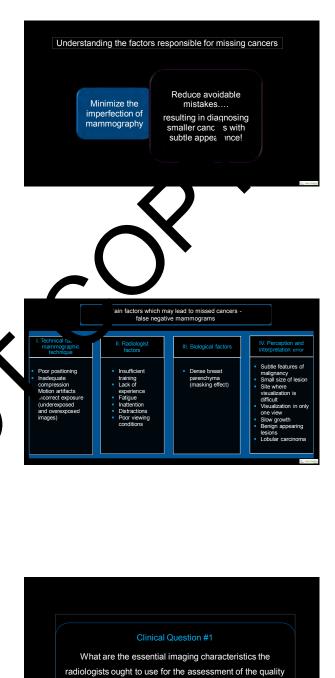
missed cancer:

A cancer

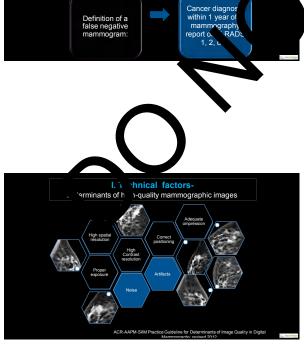
identified in

retrospect

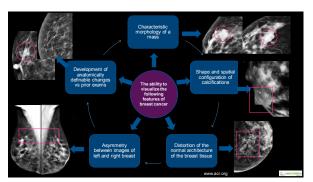
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of mammograms?

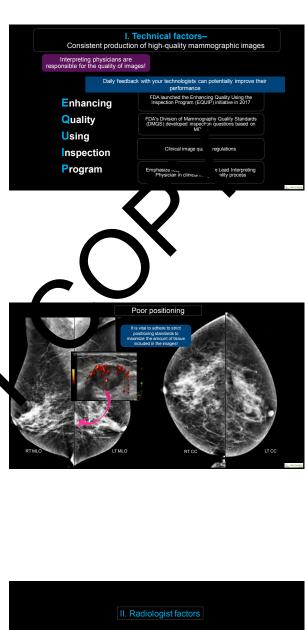


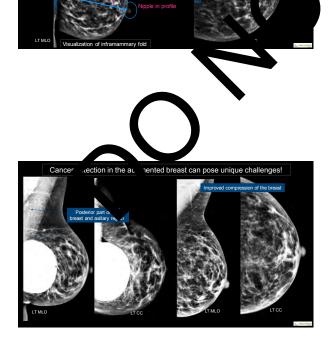


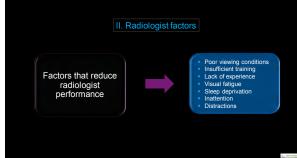


Adhere to strict positioning standards

Inclusion of lateral









Reading environment can affect the radiologist's performance

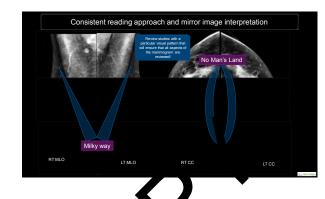
Ambient light should be low and consistent

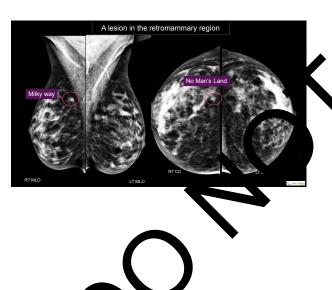
Reflections on image surfaces should be avoided

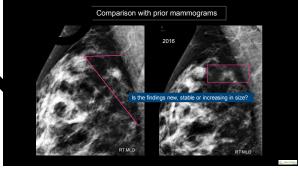
Optimize interpretation conditions

Avoid distractions

Maintain optimal temperature



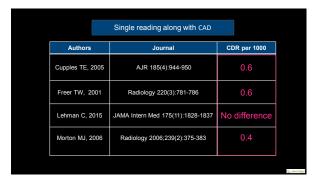




	A lesior. the retromammary region	
2017	2016	
	16.0	
transverse		
	Histopathology:IDC	
sagittal	Grade III, Node negative	
2	RTCC	

	Double reading of mammography				
Journal		CDR per 1000	Type of study		
AJR Am J Roentgenol. 200 (5):1461-7	03; 180	0.4	Blinded double reading		
Radiol Med. 2011;116(4):5	75-83	0.9	Informed (not independent) double reading		
Eur J Cancer 2015;51(3);	391-9	0.9	Blinded double reading		
Eur Radiol. 2016;26(9):32	62-71	0.4	Blinded double reading		
Eur J Radiol. 2017;96:4	0-49	0.4	Meta-analysis		







RADS 3 Strictly follow the BI-RADS criteria

Short (6 month) interval follow-up mammography

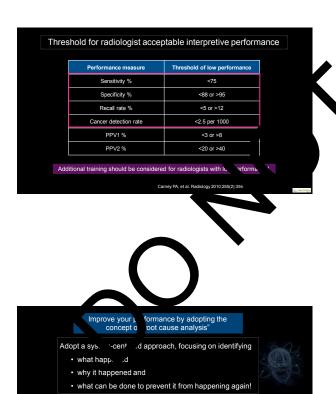
and then periodic mammography surveillance!

Solitary group of punctate calcifications if no prior mammograms

Non-calcified circumscribed solid mass (new).

Focal asymmetry that spreads out with spot views.

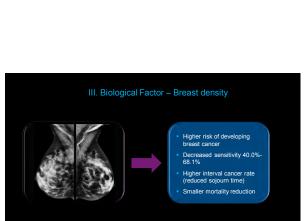
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Accelerate your learning process

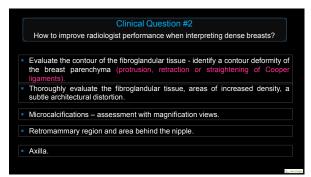
 Use this as educational material to gain experience from numerous images of subtle malignancies

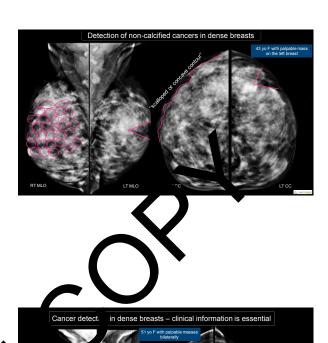
· Review mammograms of cancer patients at time of

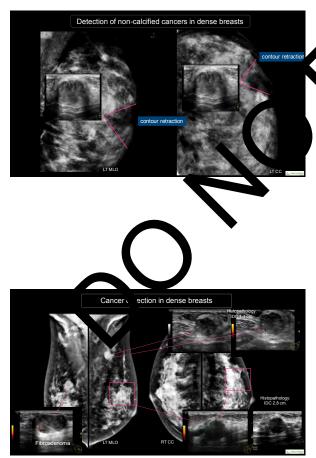


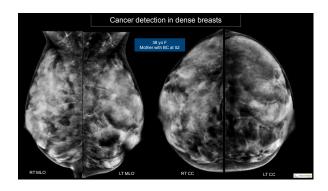
Van der Waal D, et al. Int J Cancer 2017;140:41-49. Arora N, et al. Ann Surg Oncol 2010;17 Suppl 3:211-2









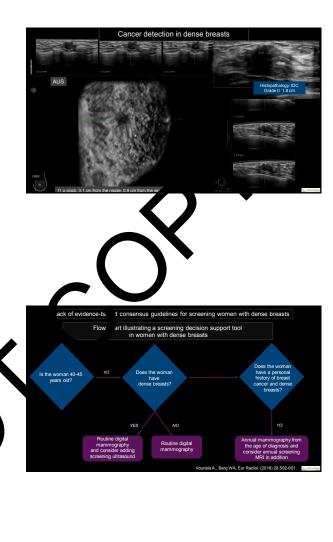


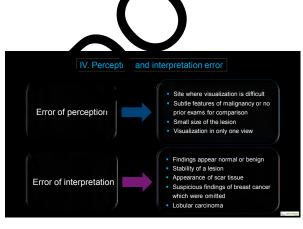


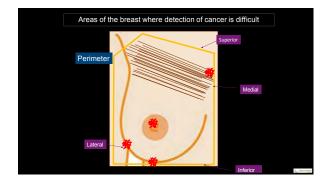
Cancer detection in dense breasts

Histopamology: IDC
Grade III.2.1 on

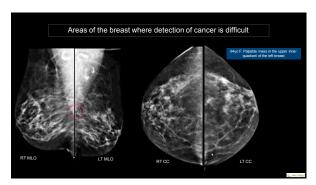
Cancer detection in dense breasts

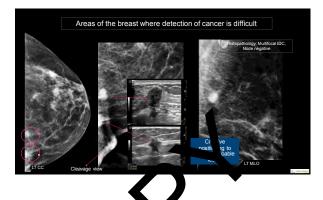


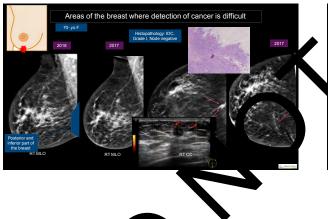






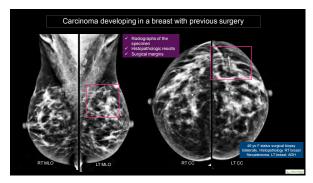




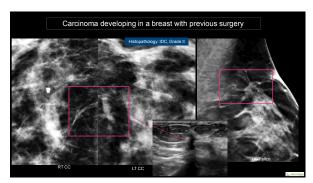


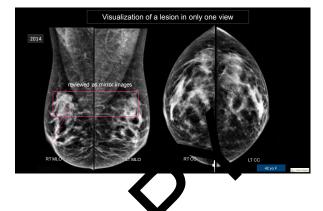


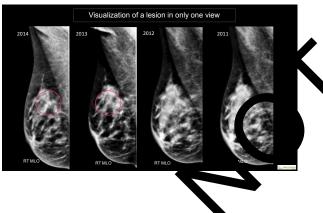


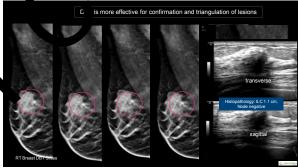


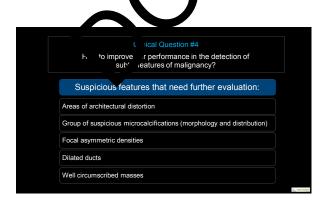


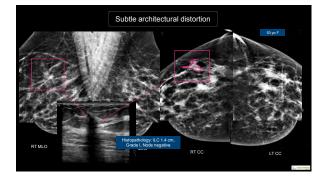




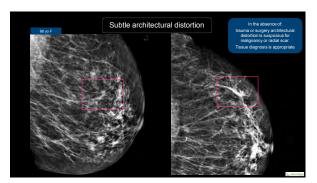


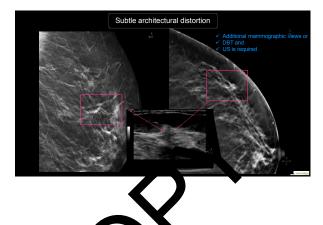


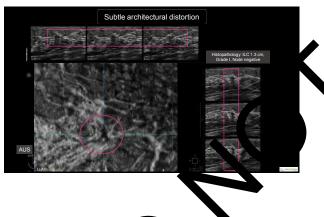


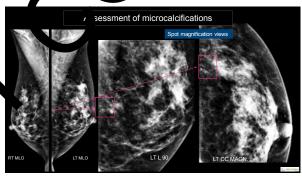


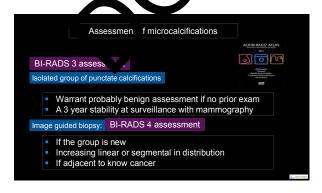


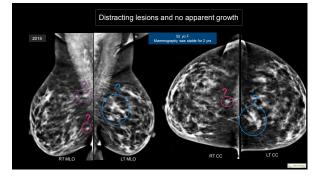




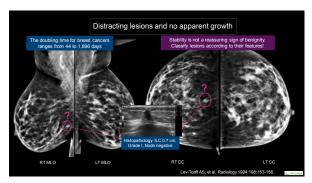


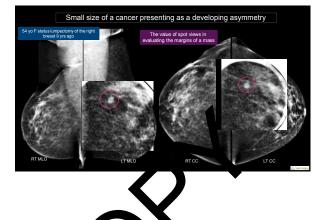


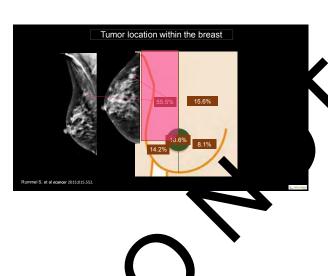


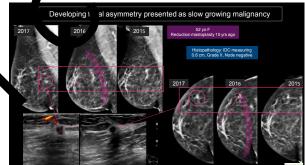


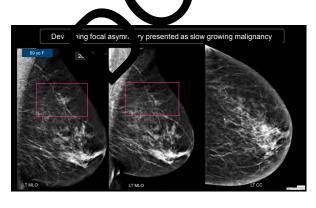


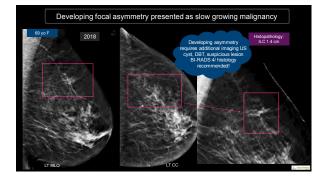














Adenoid cystic carcinoma

Circumscribed cancers of the breast appearing as benign lesions

Further assessment of a newly developed mass with spot compression and US to better characterize the finding

Invasive ductal Ca (NOS)

Medullary carcinoma

Mucinous carcinoma

Papillary carcinoma

Circumscribed cancers of the breast appearing as benign lesions

