BDIAP Slide Seminar 2017 Case 1

Cecily Quinn MD, FRCPath, FRCPI, FFPath

Clinical Professor, School of Medicine, University College Dublin & Consultant Histopathologist, Irish National Breast Screening Programme,

St. Vincent's University Hospital, Dublin, Ireland

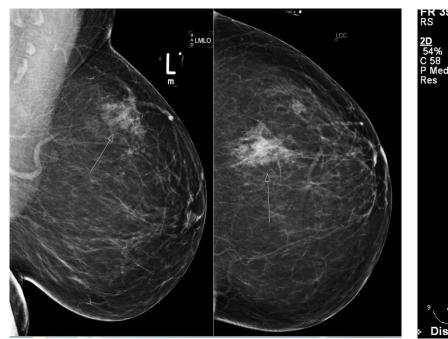


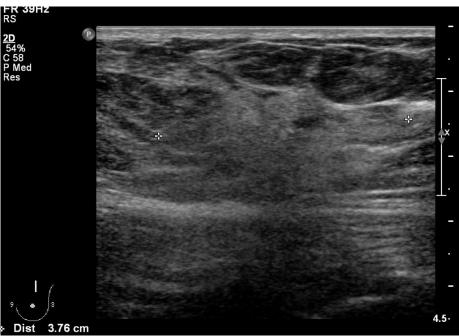




- 58 year old female
- Incident round screening mammogram

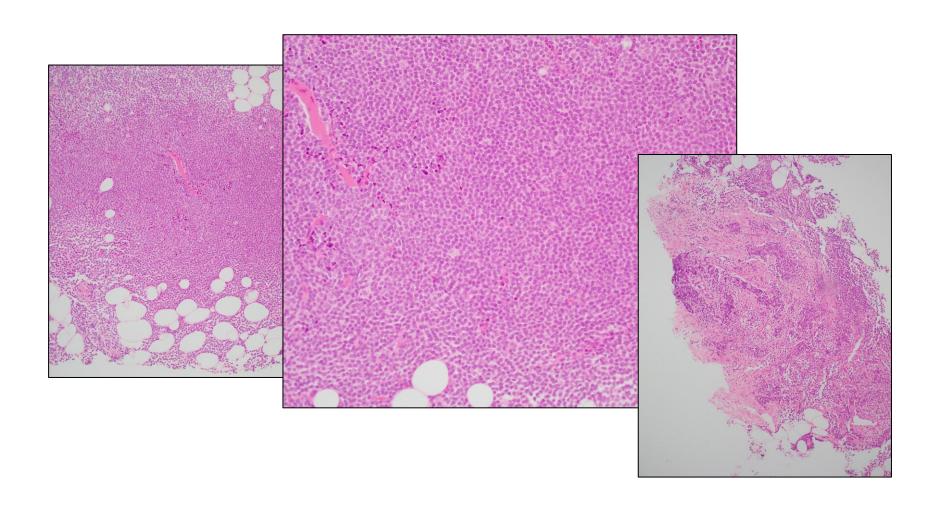






- 55mm asymmetry left breast
- Needle core biopsy
- ? Invasive lobular carcinoma but not typical
- R code 4

Needle core biopsy



Submitted diagnoses (N = 39)

Lymphoma

Lymphoma vs lymphocytic lobulitis

Lymphoma vs invasive lobular carcinoma

Lymphoid proliferation B3

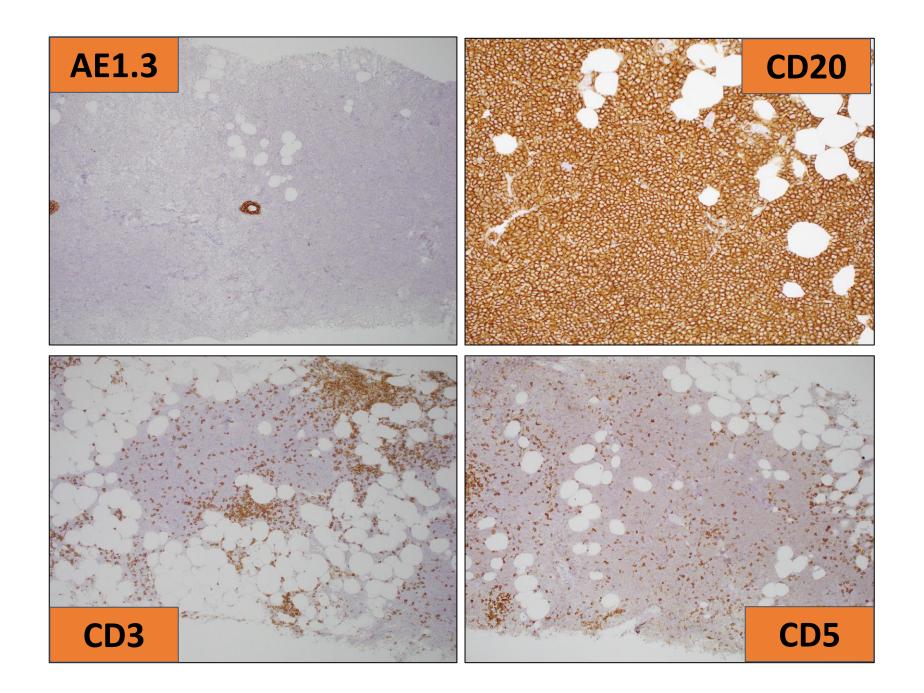
Small blue cell tumour

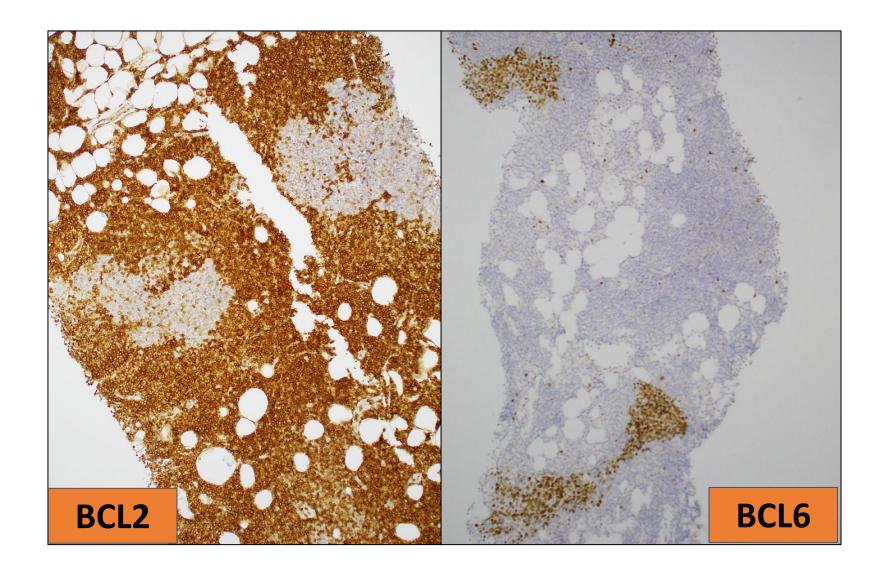
Malignant tumour B5

Neuroendocrine carcinoma

Invasive lobular carcinoma, solid variant

Clear cell carcinoma? metastases





Extranodal marginal zone lymphoma of MALT

- MALT lymphoma of breast
- Rare < 0.1% breast malignancies
- Primary or secondary in breast
- Female adults in 6th or 7th decade
- Cause unknown
 - ? association with autoimmune disease
- Solitary breast mass
- +/- regional node involvement

Extranodal marginal zone lymphoma of MALT

- Diffuse proliferation of small intermediate sized lymphocytes
- Hyperplastic lymphoid follicles
- Lymphoepithelial lesions
 - May not be seen in breast
- IHC + CD20, CD79a, Pax5, BCL2
- o IHC CD3, CD5, BCL6, Cyclin D1

Published online 2016 Jun 2. doi: 10.1016/j.ijscr.2016.05.041

Marginal zone lymphoma of the breast—A diminished role for surgery

PMCID: PMC4909752

Suman B. Koganti, MD, Alejandra Lozada, MD, Ernesto Curras, MD, and Ajay Shah, MD, FACS

Author infor	Case Reports in Hematology		
Abstra	Volume 2016 (2016), Article ID 1831792, 6 pages http://dx.doi.org/10.1155/2016/1831792	Go to: ☑	
Introduc	Case Report		
Primary l of region armamen	Primary MALT Lymphoma of the Breast Treated with Definitive Radiation	vement tment	
Present	Mohammad Hissourou III, ¹ Sayyad Yaseen Zia, ² Mahfood Alqatari, ³ James Strauchen, ³ and Richard L. Bakst ²		
A 62 yea diagnosti up was p localized received	¹ Icahn School of Medicine at Mount Sinai, New York, NY 10029, USA ² Department of Radiation Oncology, Icahn School of Medicine at Mount Sinai Hospital, New York, NY 10029, USA ³ Department of Pathology, Icahn School of Medicine at Mount Sinai, New York, NY 10029, USA	work- o have a ast. She	
	Received 11 February 2016; Revised 14 April 2016; Accepted 17 April 2016		

Primary MALT
lymphoma of
breast is generally
an indolent
process



Breast lymphoma facts

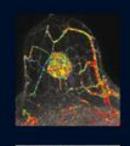
- Primary or secondary
- Rare
 - < 0.5% all breast malignancies
 </p>
 - 1% NHL
 - < 3% extranodal lymphomas</p>
- Age range 12 90 years
- 98% female



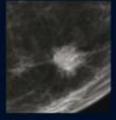


WHO Classification of Tumours of the Breast

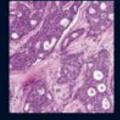
Edited by Sunil R. Lakhani, Ian O. Ellis, Stuart J. Schnitt, Puay Hoon Tan, Marc J. van de Vijver

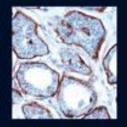


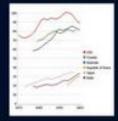


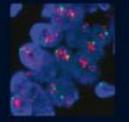


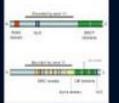
















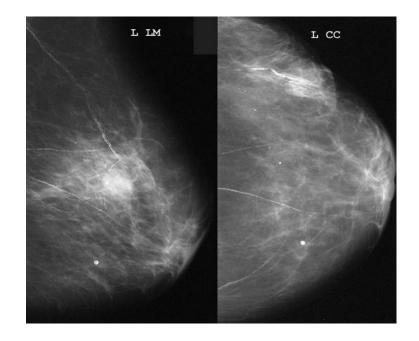




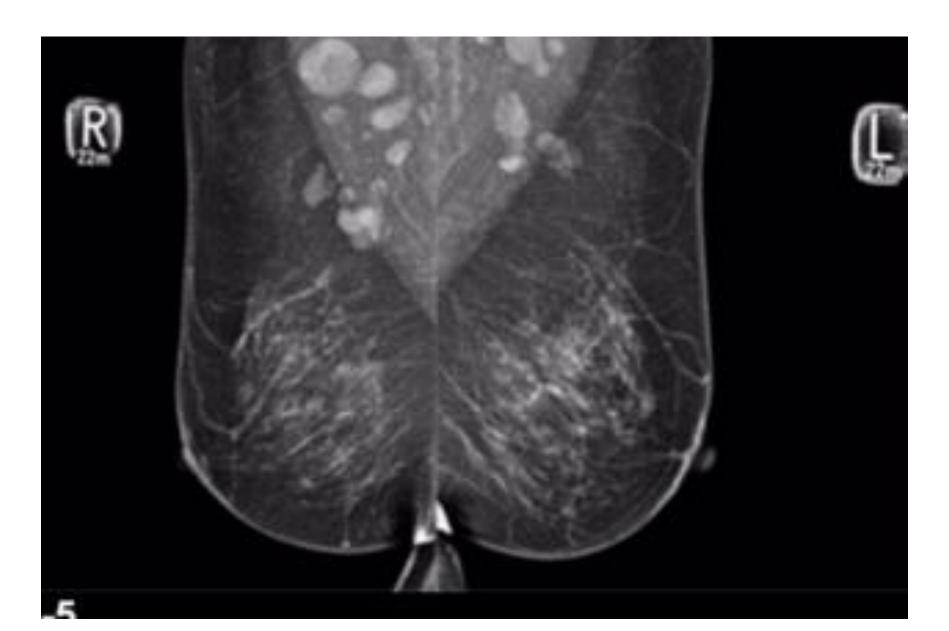
Presentation



20%



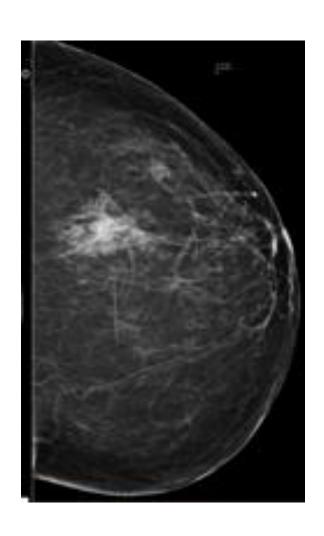
80%



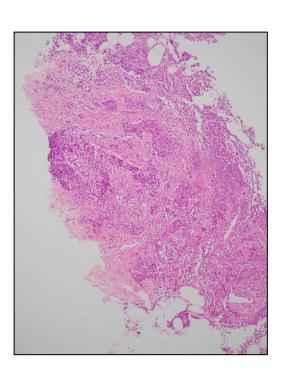
Breast lymphomas

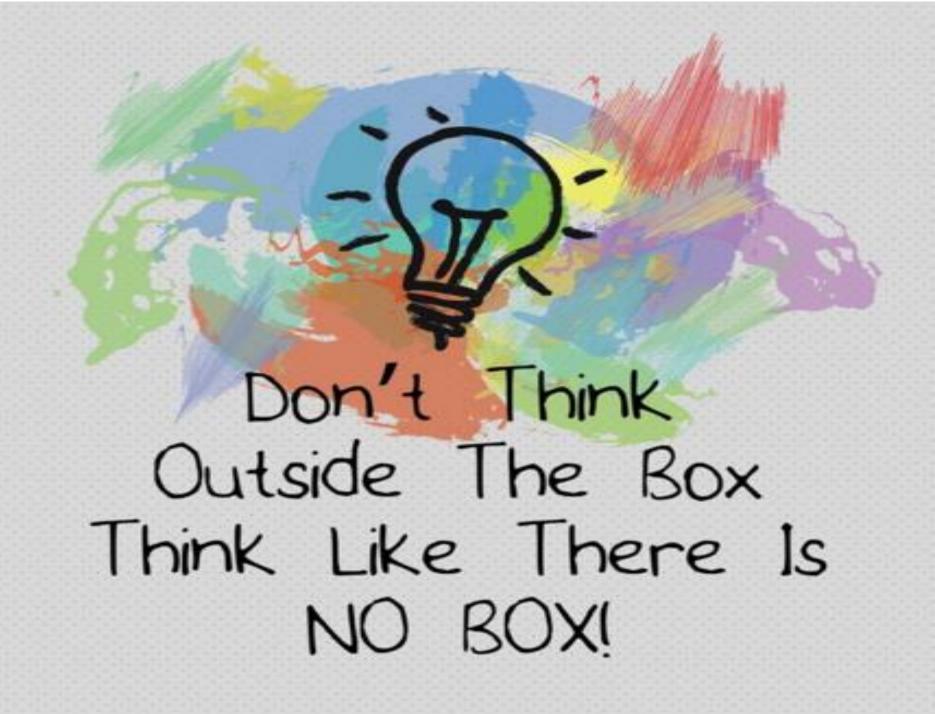
Diffuse large B ce	60-80%	
Marginal zone	10-30%	
Follicular	90% B cell	10-20%
Burkitts	<6%	
Implant associate	<1%	
Chronic lymphati	<1%	
Peripheral T cell	<1%	
Hodgkins disease	<1%	
Others	<1%	

Daily practice vs slide seminar





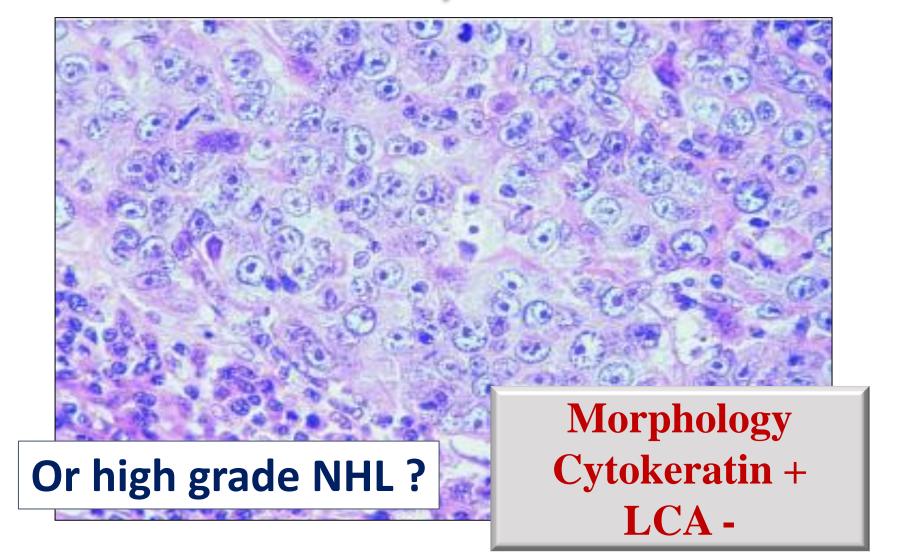




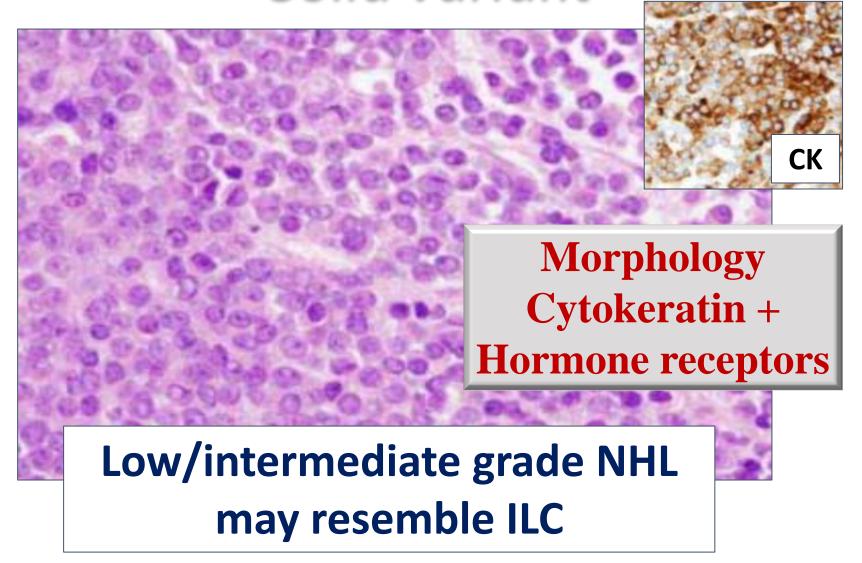
Diagnostic considerations?



Carcinoma with medullary features



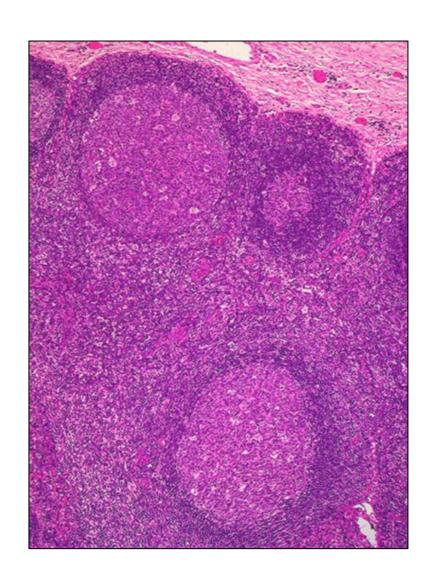
Invasive lobular carcinoma Solid variant



Triple negative breast tumour

- Invasive carcinoma, NST, grade 3
- Invasive lobular ca, pleomorphic
- Carcinoma with medullary features
- Apocrine carcinoma
- Metaplastic carcinoma
- Myoepithelial carcinoma
- Adenoid cystic carcinoma
- Metastasis
- Lymphoma

Intramammary lymph node





Radiology benign

Morphology +/- IHC Excise if in doubt

Other possible diagnoses

- Leukaemic breast involvement
 Granulocytic sarcoma
- Reactive inflammation
 Duct ectasia, ruptured cyst
- Florid lymphocytic lobulitis
- IgG4 related sclerosing mastitis
- Inflammatory fibroblastic tumour
- Lupus mastitis



Role of breast pathologist

Recognise as lymphoid

Exclude carcinoma

IHC

Reactive or neoplastic

Work up

Refer to HMDS