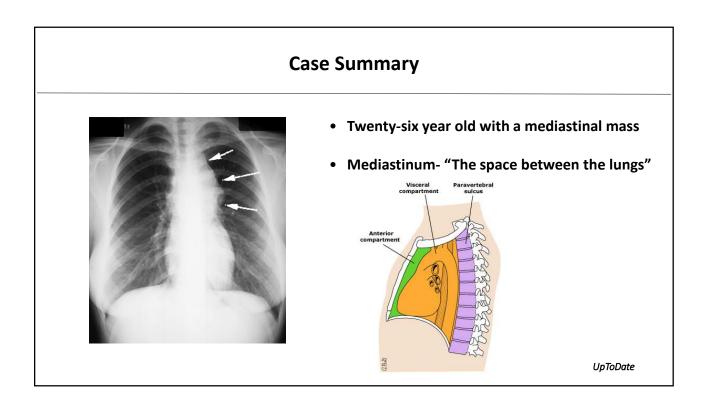
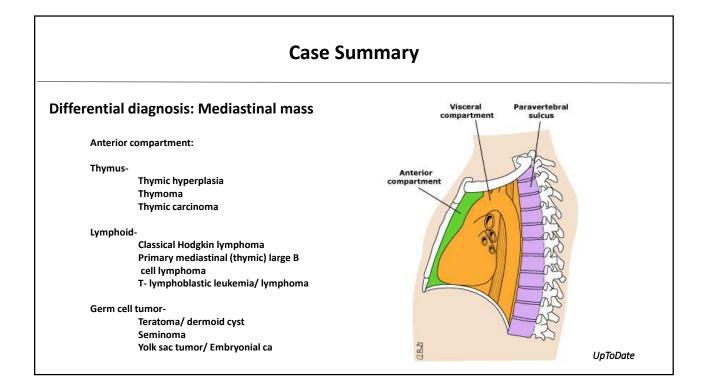


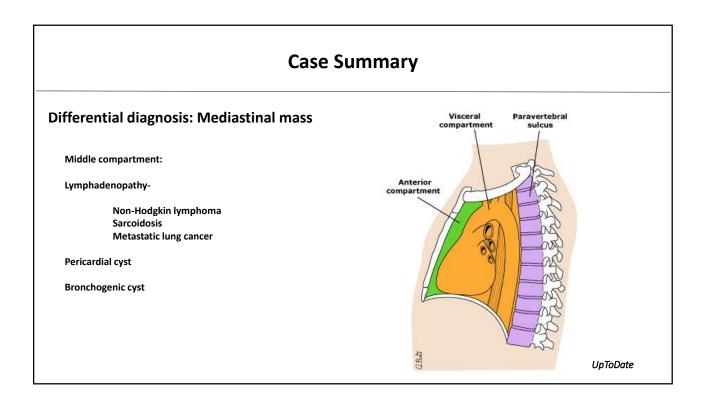


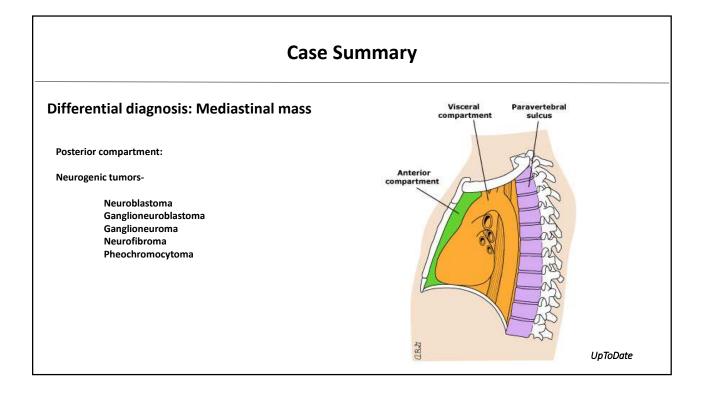
Primary Mediastinal Large B-cell Lymphoma and B-cell Lymphoma, Unclassifiable, with Features Intermediate Between DLBCL and CHL

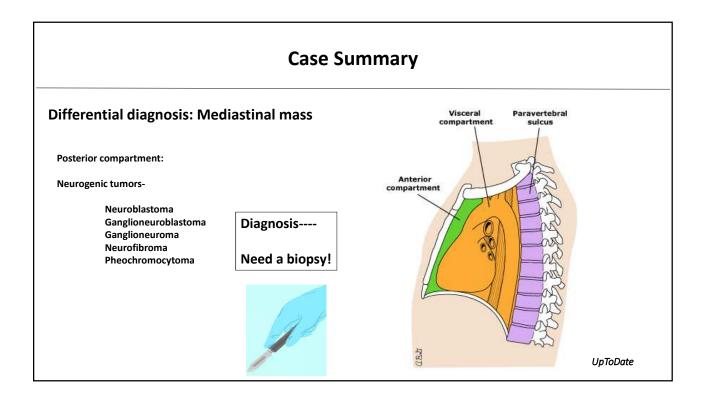
> Scott Rodig, M.D., Ph.D. Professor of Pathology Brigham & Women's Hospital Dana-Farber Cancer Institute Harvard Medical School

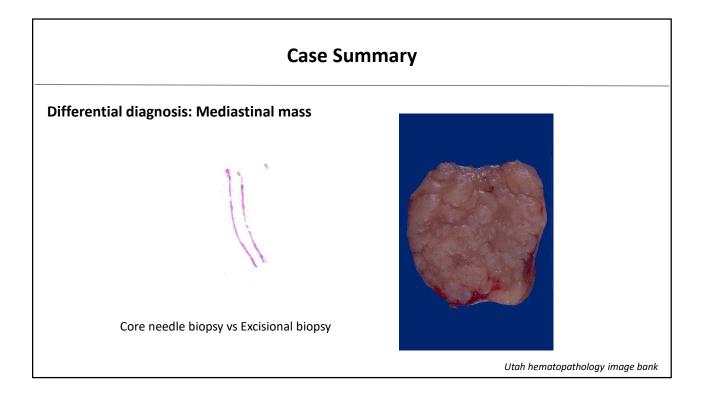


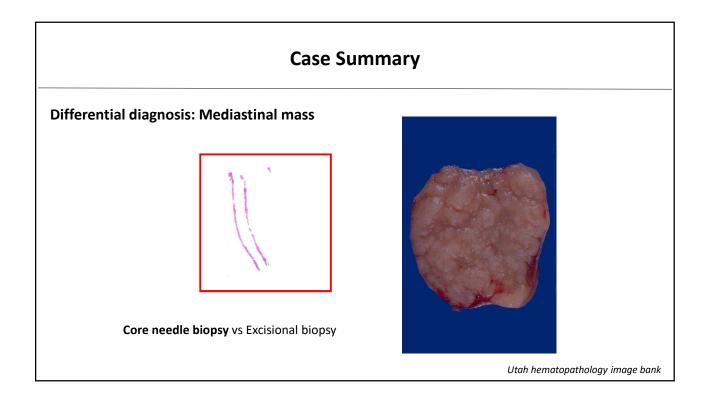








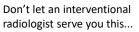




Case Summary

Differential diagnosis: Mediastinal mass

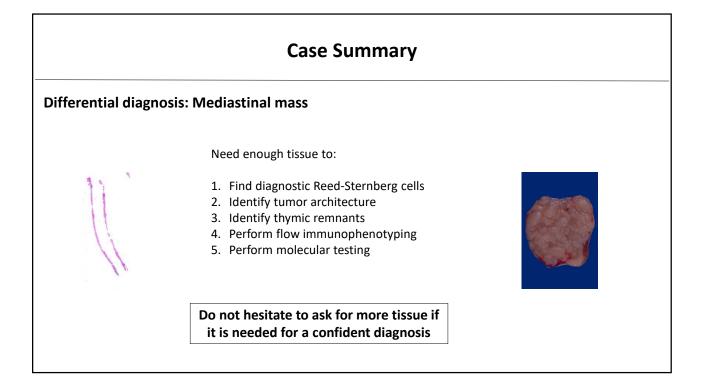


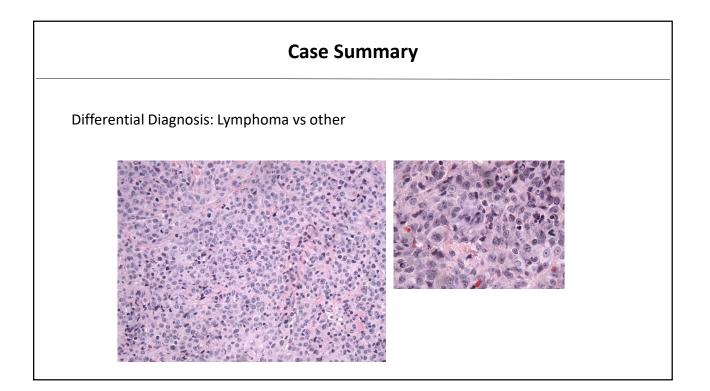


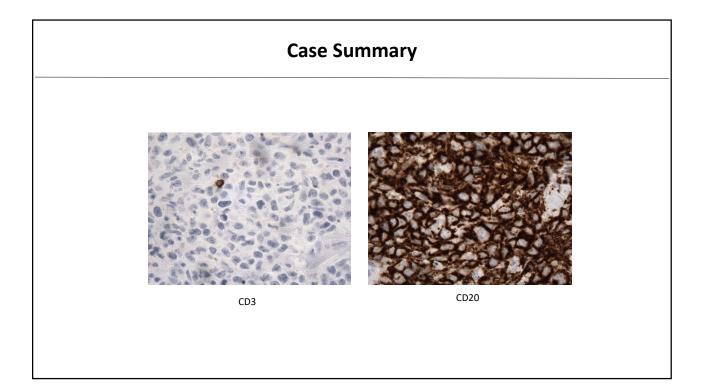
When a surgeon will serve you this

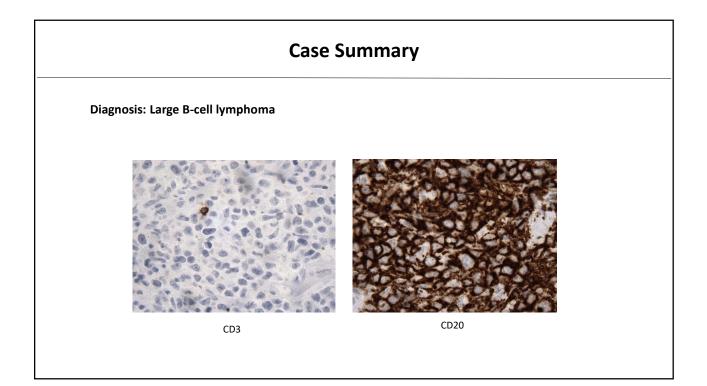
Core needle biopsy vs Excisional biopsy

Case Summary Differential diagnosis: Mediastinal mass					
	May have not sampled lesion				
35	• May have sampled only a portion of the lesion				
	•May have to ask for more				
11	Difficult to resolve-				
	•Thymoma from thymic carcinoma	and the second s			
10	•Thymoma from T-lymphoblastic leukemia				
	•Classical Hodgkin lymphoma- no HRS cells				
	 Primary mediastinal (thymic) large B cell 				
	lymphoma from DLBCL, NOS				
	 Low-grade B-cell lymphoma from reactive 				









Case Summary

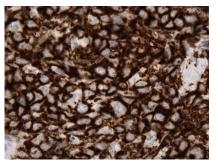
Diagnosis: Large B-cell lymphoma

<u>1. But is it-</u>

• Primary mediastinal (thymic) large B-cell lymphoma (PMLBCL)

• Diffuse large B-cell lymphoma, NOS (DLBCL) involving mediastinum (mediastinal LN)

•B-cell lymphoma, unclassifiable, with features intermediate between DLBCL and classical Hodgkin lymphoma (mediastinal grey zone lymphoma)



CD20

Case Summary

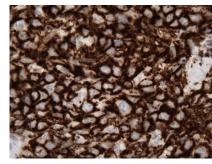
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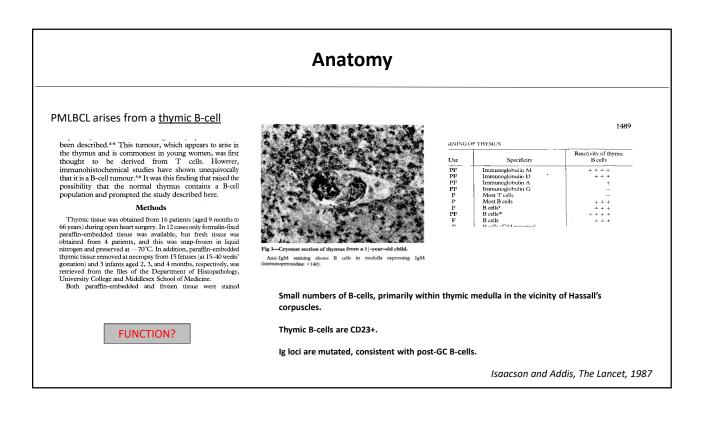
•B-cell lymphoma, unclassifiable, with features intermediate between DLBCL and classical Hodgkin lymphoma (mediastinal gray zone lymphoma, GZL)

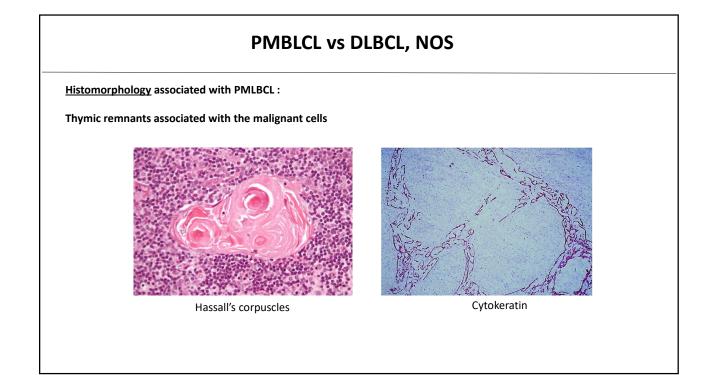


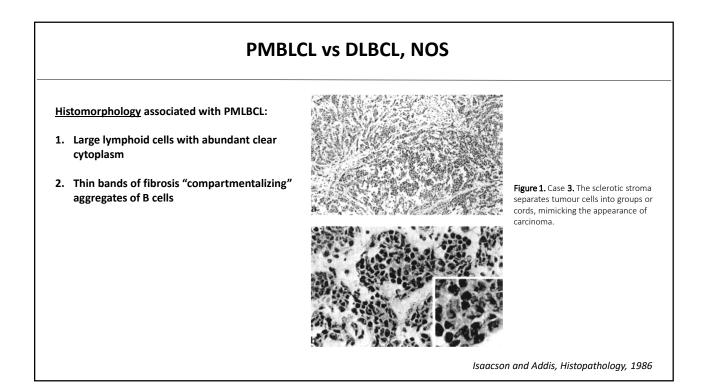
CD20

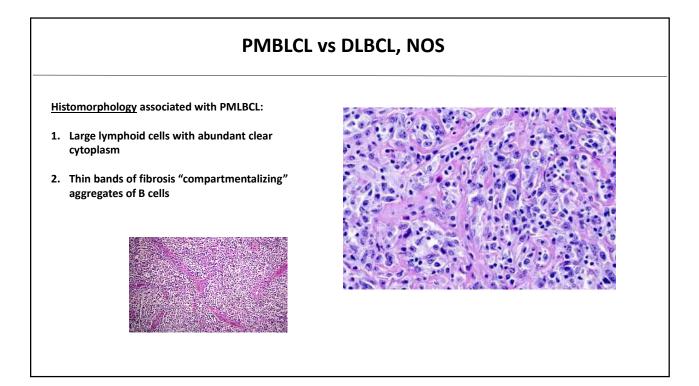
2. Does it matter?

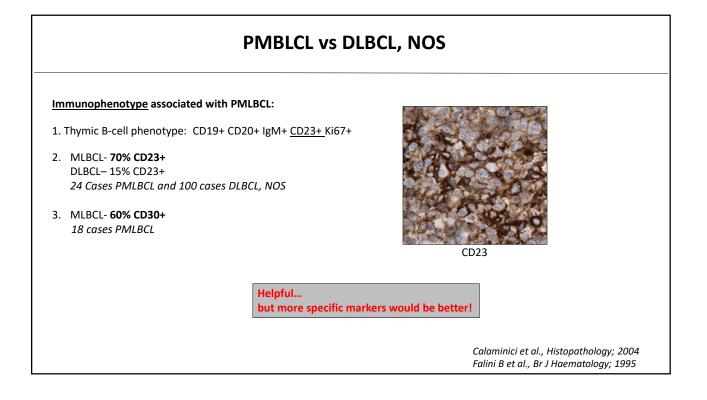
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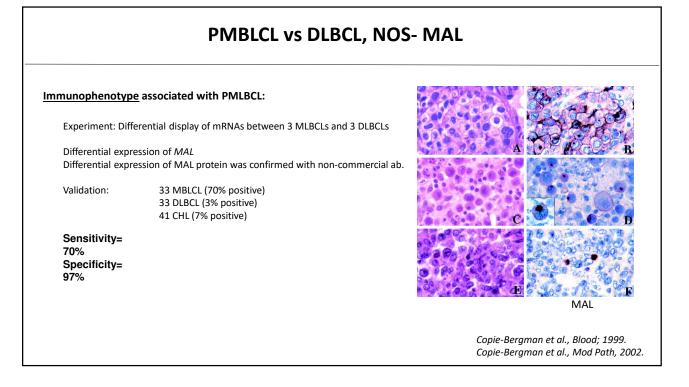


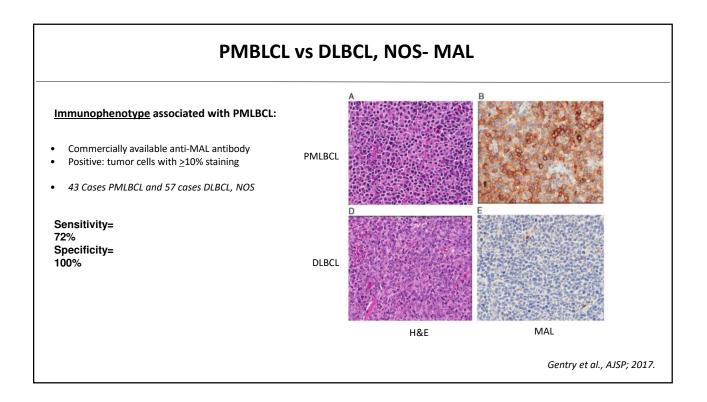


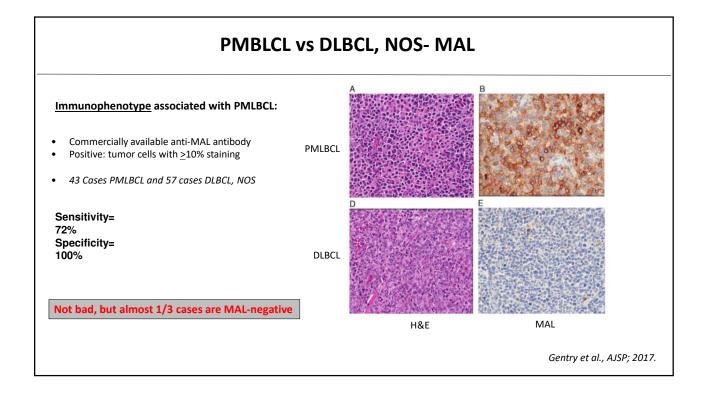


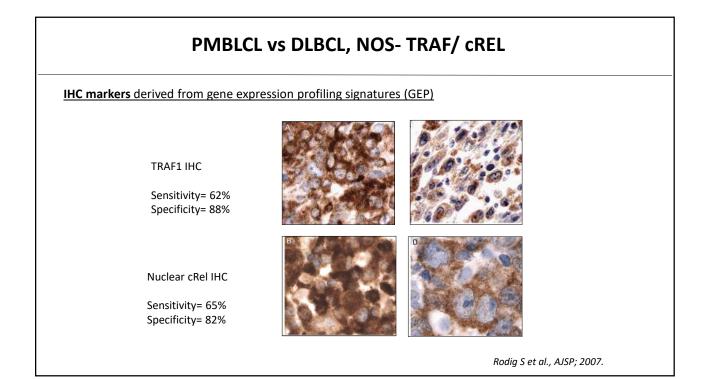


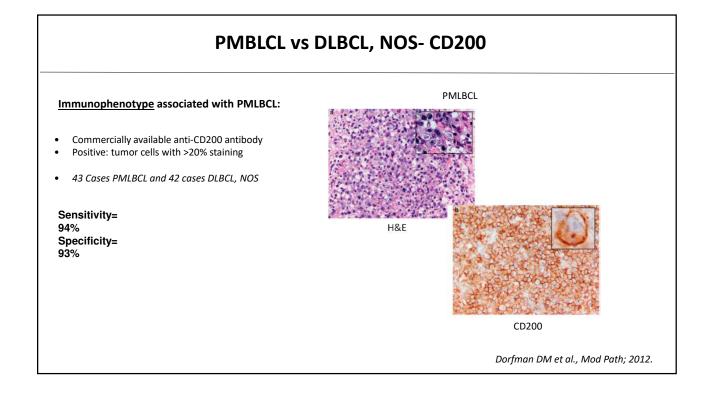


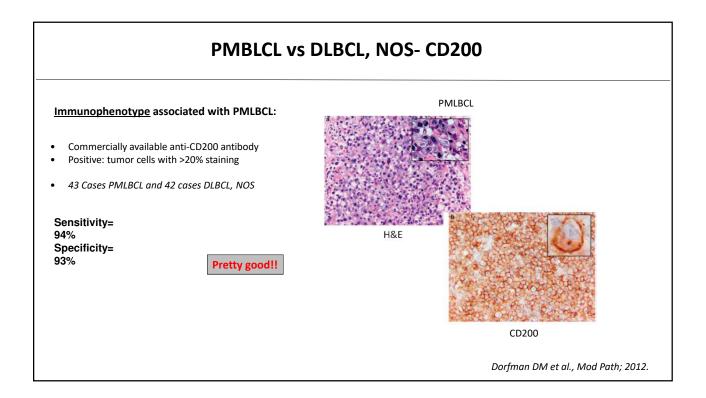




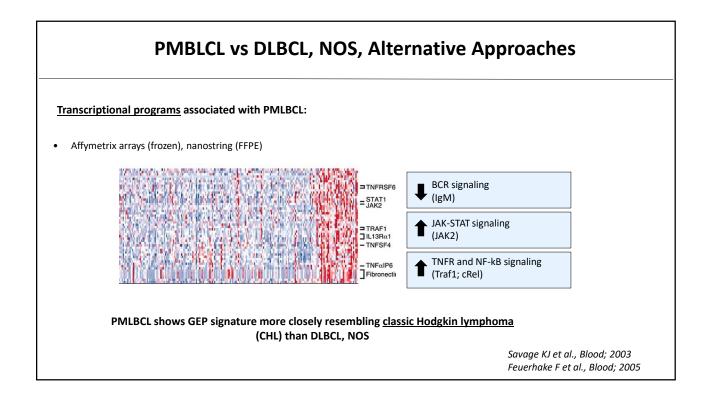


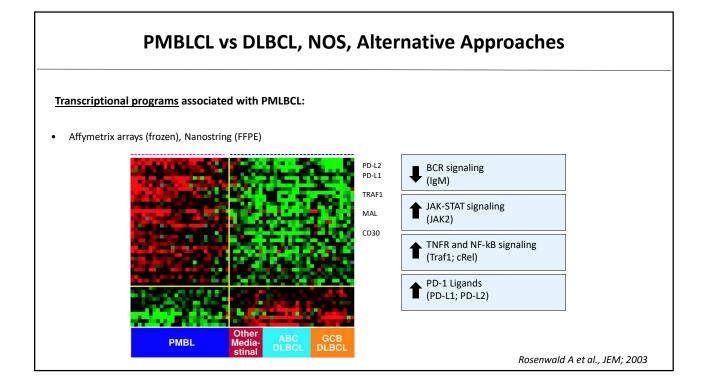


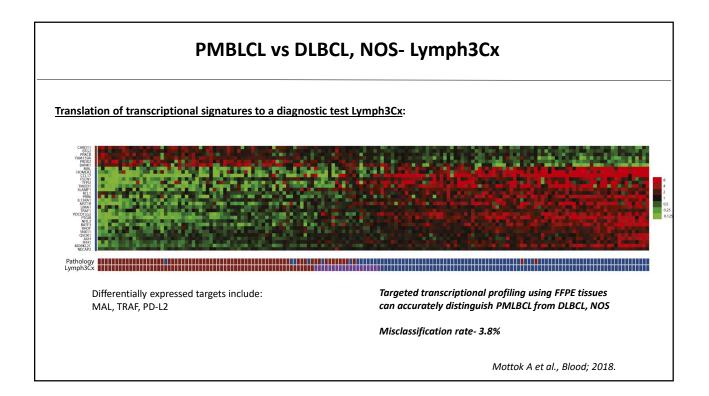


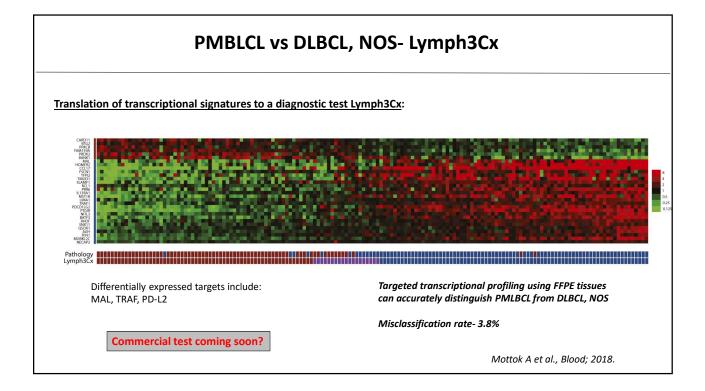


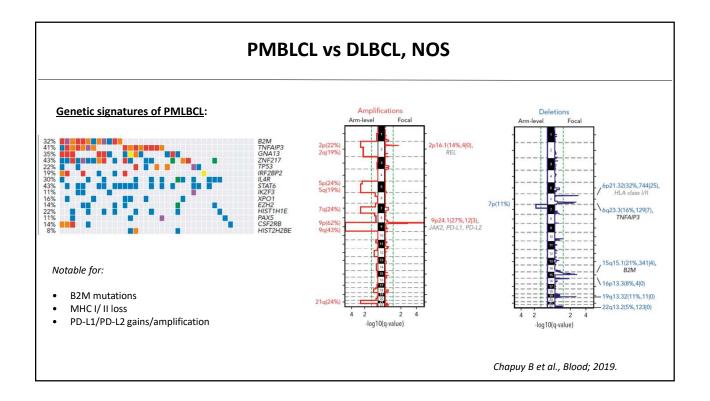
	PMBLCL vs DLBCL, NOS			
Immunophenotype associated with PMLBCL:				
Commercially avail	able antibodies			
	IHC Marker	Sensitivity	Specificity	
	CD200	.94	.93	
	MAL	.86	.97	
	CD23	.69	.93	
	CD30	.60	-	
	TRAF	.86	.77	
	Nuclear cRel	.77	.83	
	Nuclear cRel	.77	.83 Dorfman DM et	

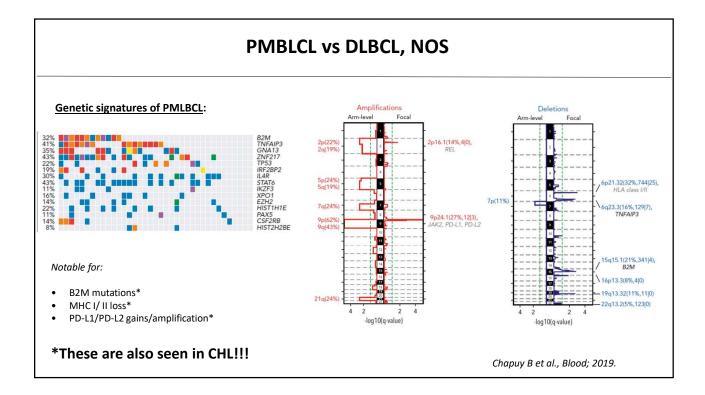


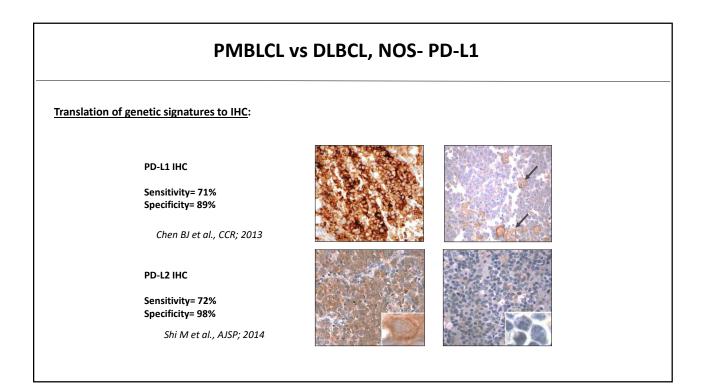












PMBLCL vs DLBCL, NOS- PD-L1

Translation of genetic signatures to IHC:

PD-L1 IHC*

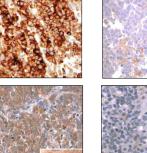
Sensitivity= 71% Specificity= 89%

Chen BJ et al., CCR; 2013

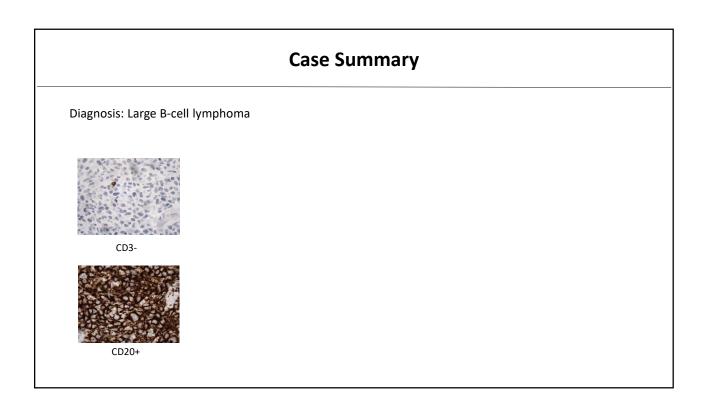
PD-L2 IHC*

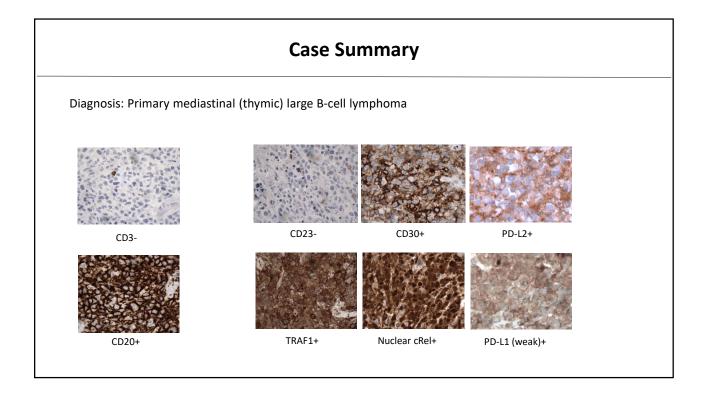
Sensitivity= 72% Specificity= 98%

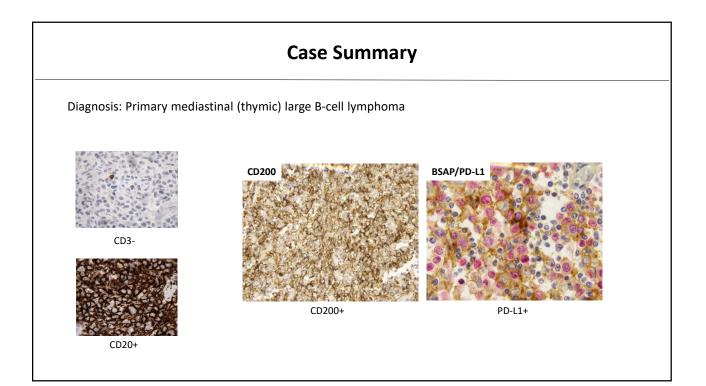
Shi M et al., AJSP; 2014

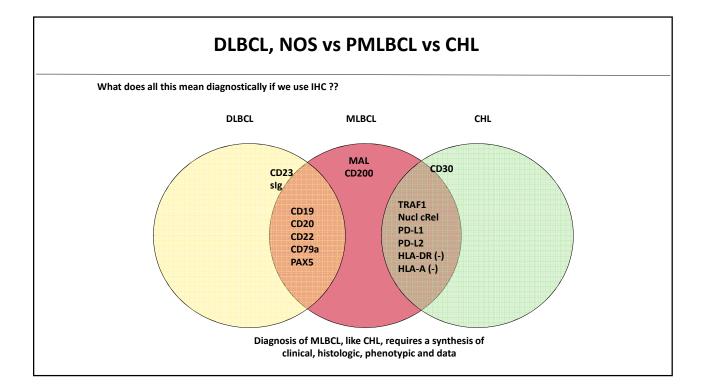


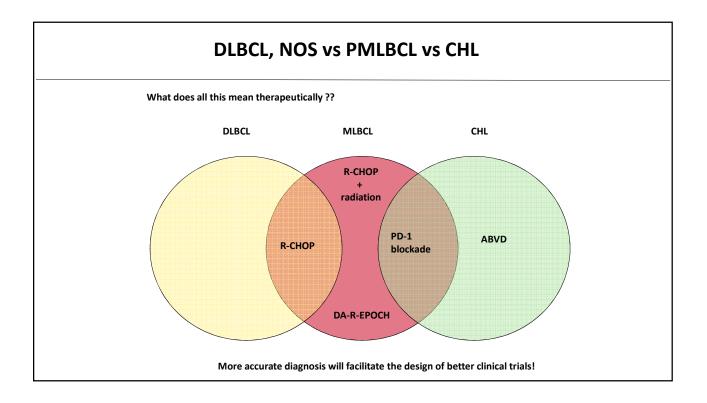
* PD-L1 IHC is positive on Hodgkin Reed-Sternberg cells in >90% of CHLs!

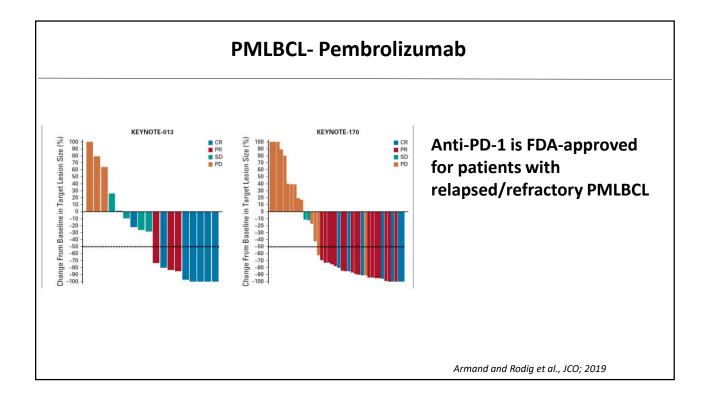


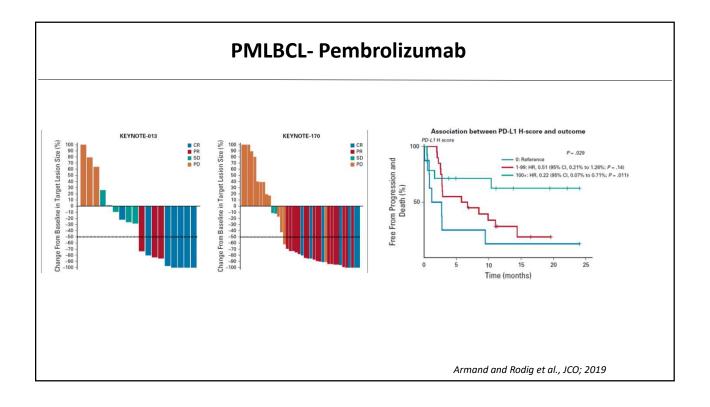


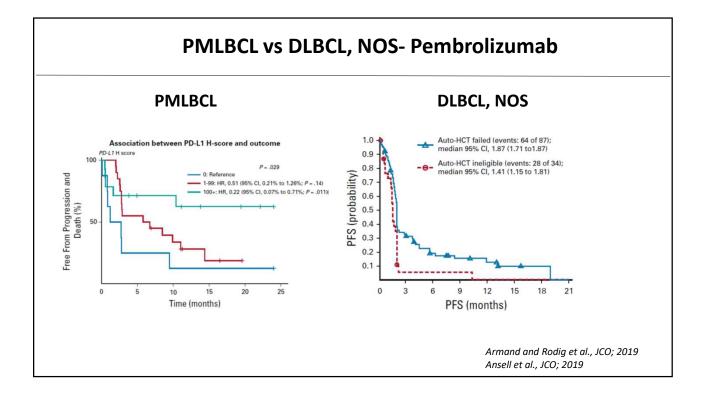


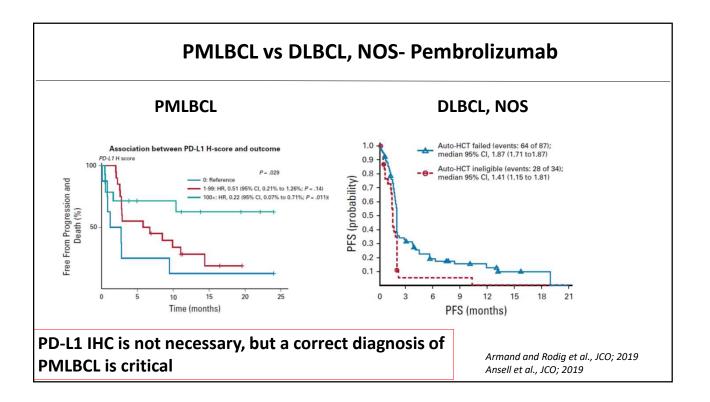












B-cell Lymphoma, Unclassifiable, with Features Intermediate Between DLBCL and CHL

What about Gray zone tumors?

Tumors with over-lapping features between PMLBCL and CHL

