# Cutaneous Infiltrates Lymphomatous and Leukemic (Weedon Chapter 41) Paul K. Shitabata, M.D.

Dermatopathology Institute

#### Prognosis of Cutaneous Lymphomas

Lymphoma	Indolent	Intermediate or Aggressive
Mycosis fungoides		
Large B-cell lymphoma of the leg		
Lymphomatoid papulosis		
Large cell cutaneous T- cell lymphoma, anaplastic CD30+		
Large cell cutaneous T- cell lymphoma, pleomorphic CD30-		

#### Prognosis of Cutaneous Lymphomas

Lymphoma	Indolent	Intermediate or Aggressive
Mycosis fungoides	+	
Large B-cell lymphoma of the leg		+
Lymphomatoid papulosis	+	
Large cell cutaneous T- cell lymphoma, anaplastic CD30+	+	
Large cell cutaneous T- cell lymphoma, pleomorphic CD30-		+

### Immunohistochemical Markers

Immunostain	Predominately B-cells	Predominately T-cells
CD <sub>3</sub>		
CD <sub>4</sub>		
CD10		
CD20		
CD68		
CD79a		

## Immunohistochemical Markers

Immunostain	Predominately B-cells	Predominately T-cells
CD <sub>3</sub>		+
CD <sub>4</sub>		+
CD10	+	
CD20	+	
CD68		
CD <sub>79</sub> a	+	

## Comparisons

Histopathology	B-Cell Lymphoma	B-Cell Hyperplasia
Bottom heavy infiltrate		
Monotonous appearance of follicles		
Minimal to absent mantle zones		
Abundant tingible-body macrophages		
B-cell monoclonality		

## Comparisons

Histopathology	B-Cell Lymphoma	B-Cell Hyperplasia
Bottom heavy infiltrate	+	
Monotonous appearance of follicles	+	
Minimal to absent mantle zones	+	
Abundant tingible-body macrophages		+
B-cell monoclonality	+	

## T or B-cell Disorder?

Disease	T-cell disorder	B-cell disorder
Lymphomatoid granulomatosis		
Pagetoid reticulosis		
Intravascular large cell lymphoma		
Subcutaneous panniculitis-like lymphoma		
Borrelia infection		
Lymphomatoid drug eruption		

## T or B-cell Disorder?

Disease	T-cell disorder	B-cell disorder
Lymphomatoid granulomatosis		+
Pagetoid reticulosis	+	
Intravascular large cell lymphoma		+
Subcutaneous panniculitis-like lymphoma	+	
Borrelia infection		+
Lymphomatoid drug eruption	+	

# What are the differentiating markers for these B-cell lymphomas?

Disease	bcl-1	bcl-2	bcl-6	CD <sub>5</sub>	CD10	CD23
Follicle center cell						
Marginal zone						
Mantle zone						
CLL						

# What are the differentiating markers for these B-cell lymphomas?

Disease	bcl-1	bcl-2	bcl-6	CD <sub>5</sub>	CD10	CD23
Follicle center cell	-	+/-	+	-	+/- (+40%)	-
Marginal zone	-	+	-	-	-	-
Mantle zone	+	-	-	+	-	-
CLL	-	-	-	+	-	+