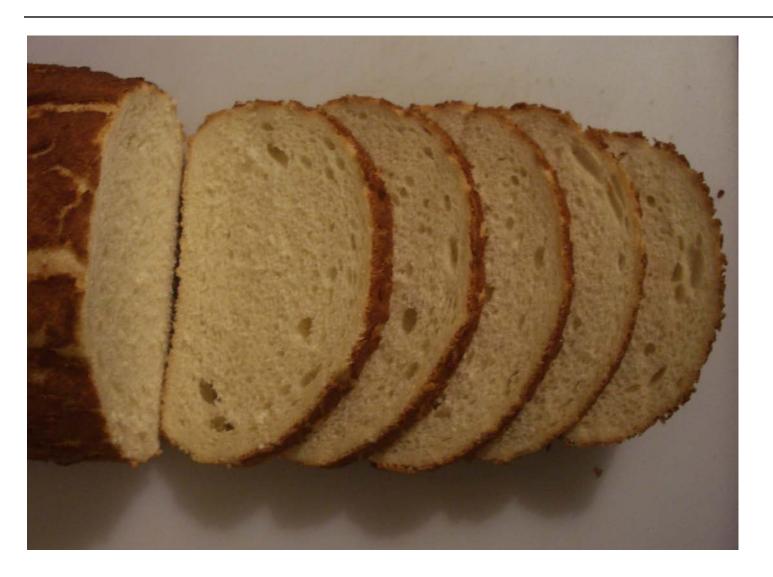
Venting the Spleen: spleen pathology in an era of morcellation

Bridget S Wilkins
BLPG/BDIAP Meeting May 2014

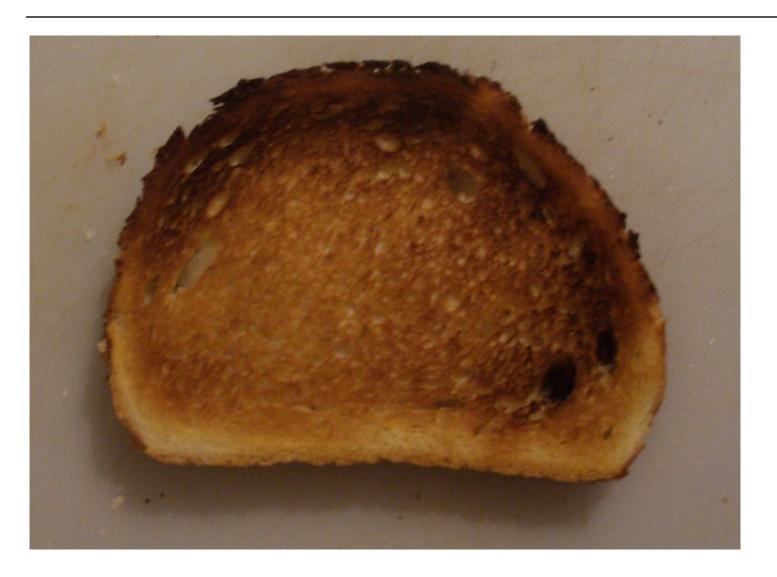
Whole Spleens don't Fix



Slicing Technique for Whole Spleen



Slicing Technique for Whole Spleen



Slicing Technique for Whole Spleen



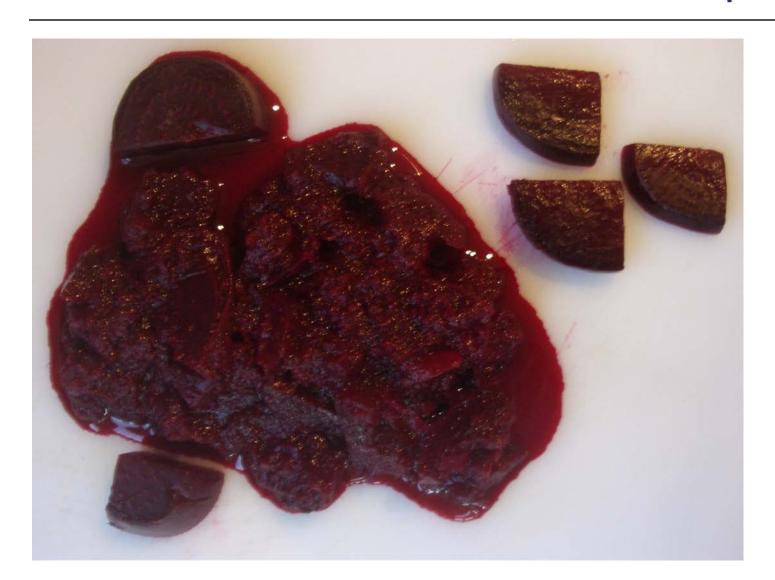
What to do with 'Beetroot Soup'



What to do with 'Beetroot Soup'



What to do with 'Beetroot Soup'



Why is splenectomy done?

- Damaged by trauma
- 'Spontaneous' rupture
- Focal lesion (+/- enlargement; often incidental finding during CT or U/S imaging for other pathology
- Enlargement for diagnosis
- Enlargement for treatment
- Hypersplenism (+/- enlargement; e.g., ITP, AIHA, hereditary spherocytosis

Why do spleens enlarge?

O Diffuse:

- Congestion
- Sequestration
- Infection
- Non-Hodgkin lymphoma
- Extramedullary haemopoiesis
 - Incidental
 - OSignificant
- Peliosis

Why do spleens enlarge?

- Focal/mass lesions:
 - Cyst
 - Abscess
 - Vascular lesions
 - Non-Hodgkin lymphoma (high grade)
 - Hodgkin lymphoma
 - Metastatic solid tumour

Why do spleens enlarge?

Hypersplenism

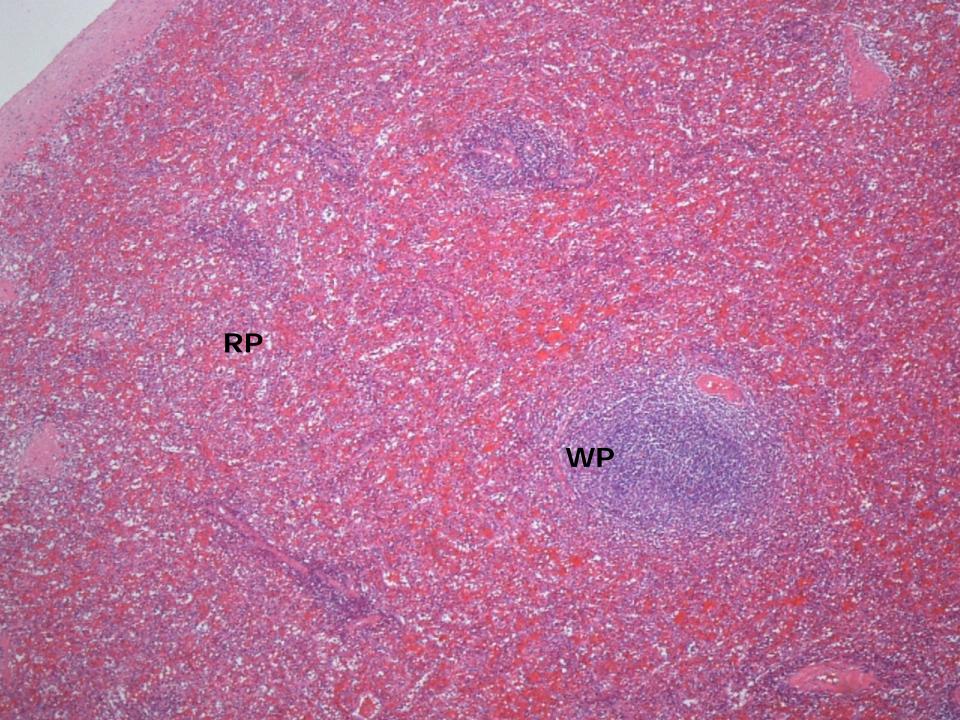
- May supervene in any pathology causing the spleen to enlarge
- What is it?
- What does is look like?
 - Increased intrasinusoidal phagocytosis
 - Activation of sinusoidal endothelium
 - Increased sequestration in cords

How are spleens removed?

- Open abdominal surgery; intact unless removed following rupture.
- Laparoscopic surgery; variably morcellated.
- (Spleens may also be sampled by fine needle aspiration or needle core biopsy).

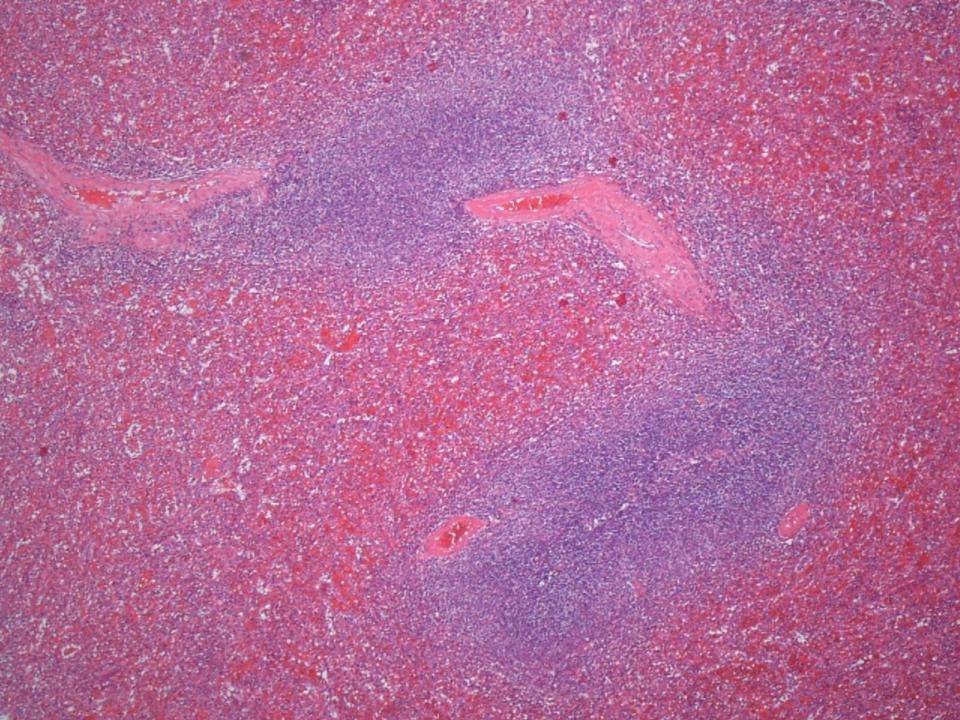
The Normal Spleen

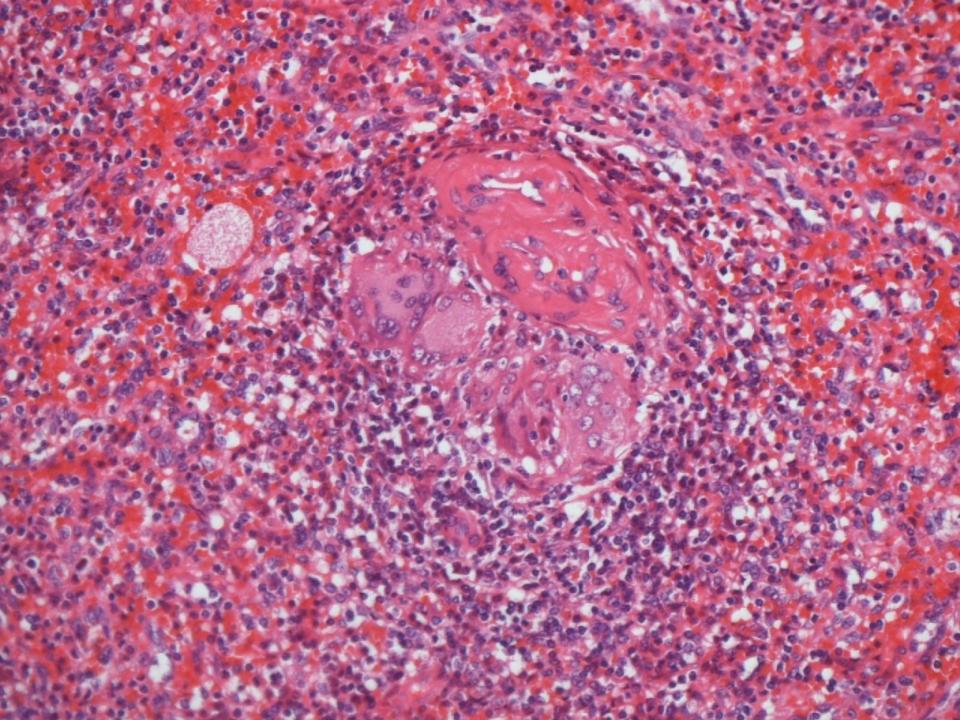
- 10g at birth
- 100-150g normal adult weight
- 50-100g with age-related atrophy
- Internal architecture not visible naked eye
 - parenchyma appears uniform and red
 - larger blood vessels may be apparent
- Thin, transparent capsule
- Hilar lymph nodes invisible

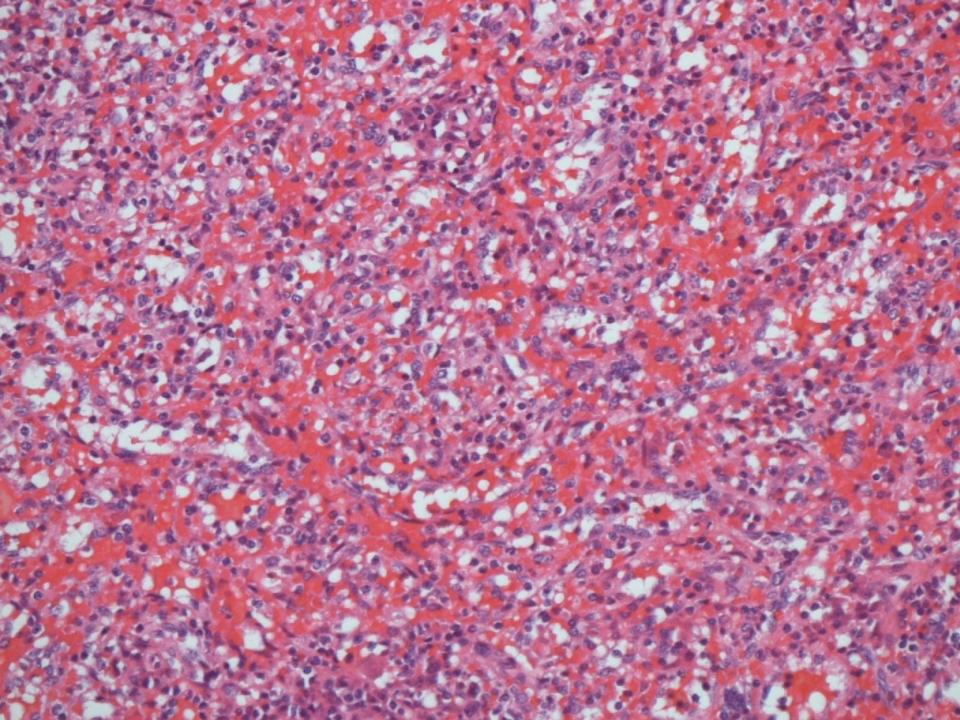


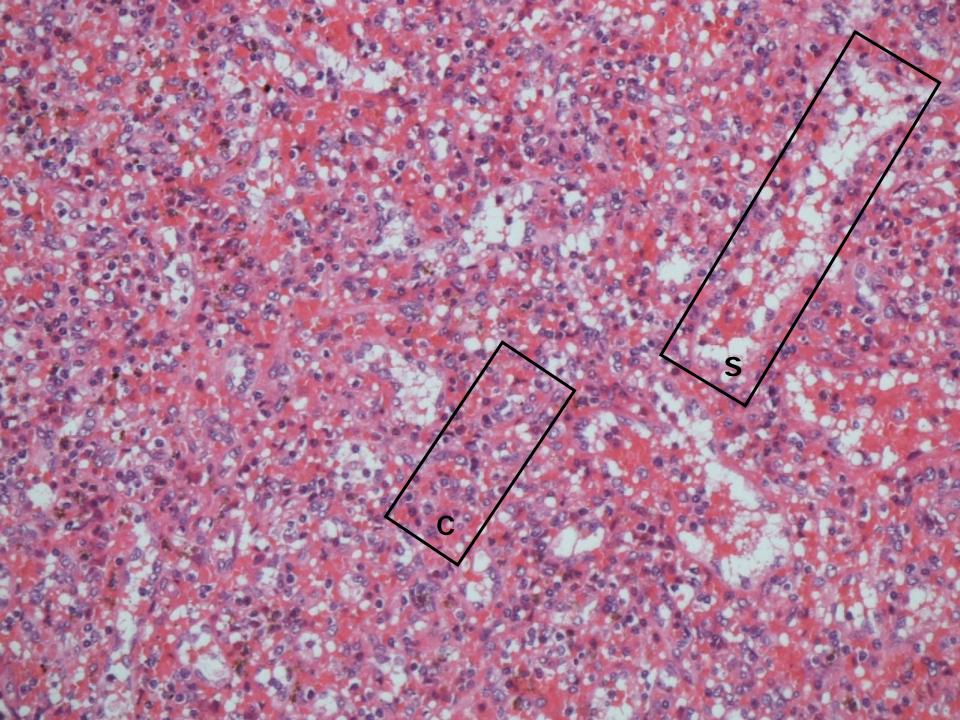




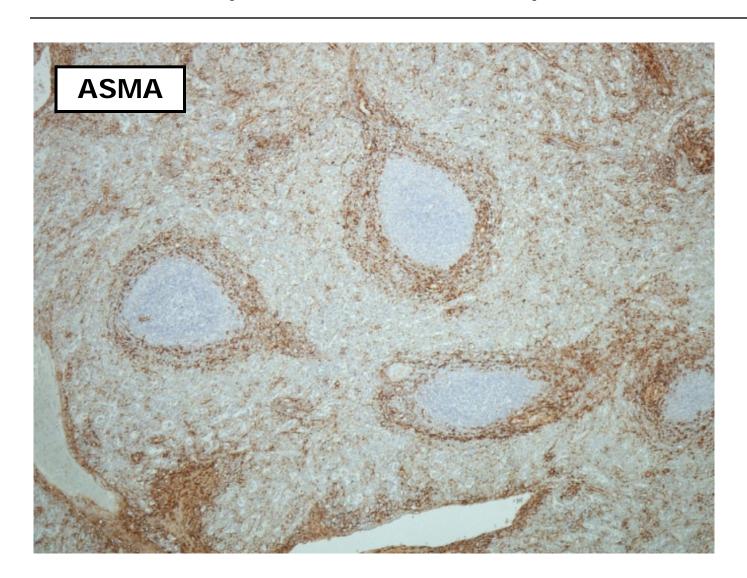


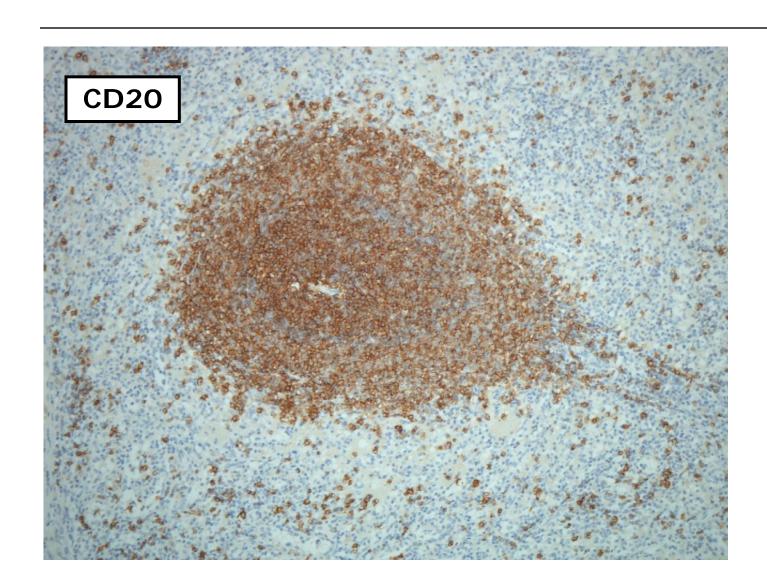


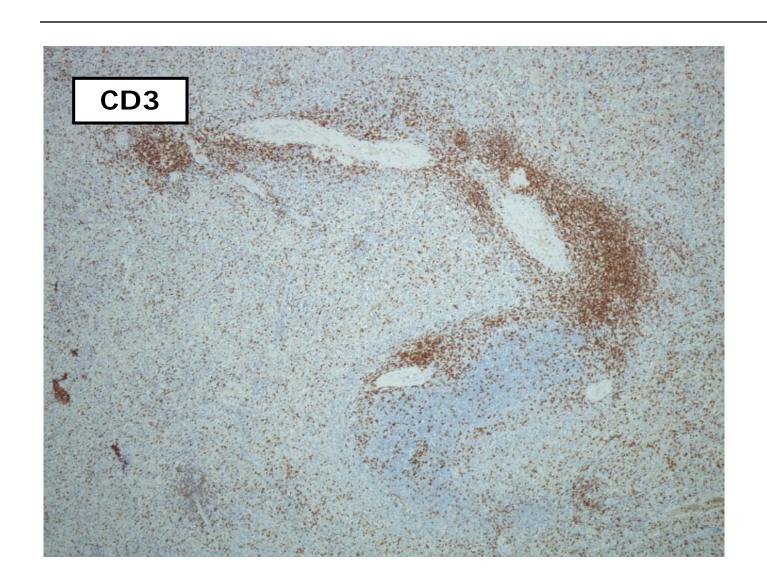


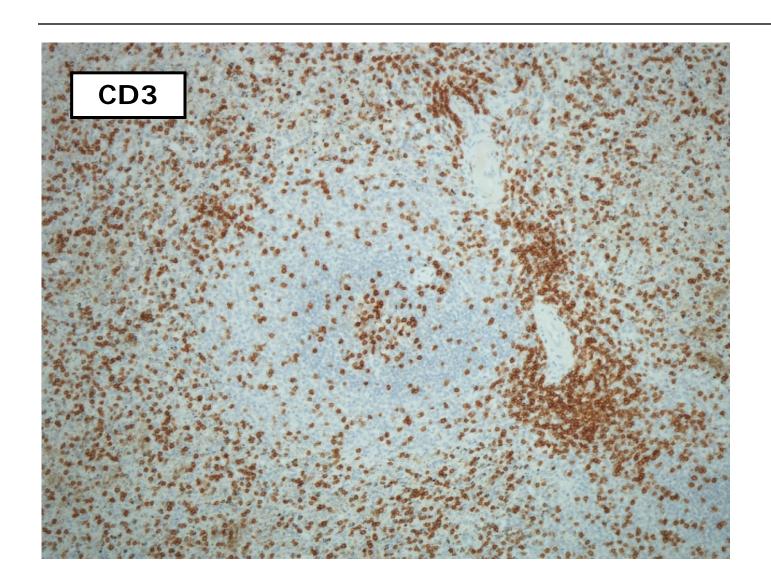


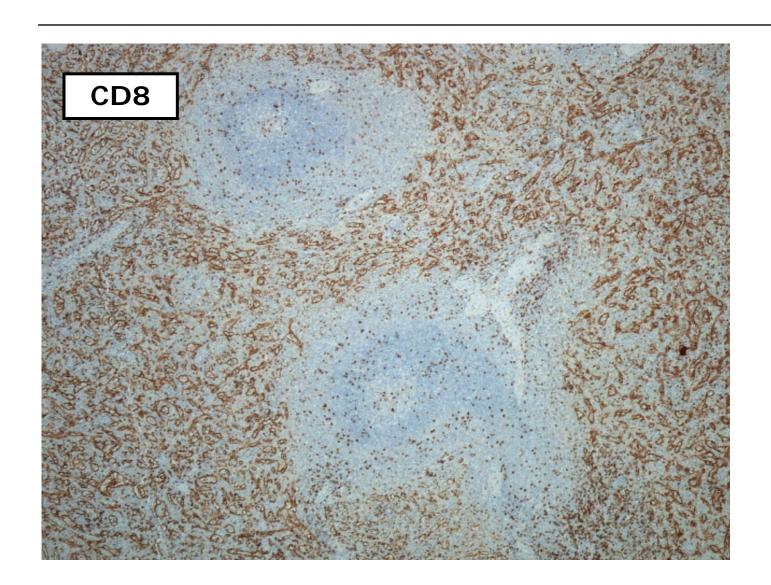
What keeps RP and WP apart?

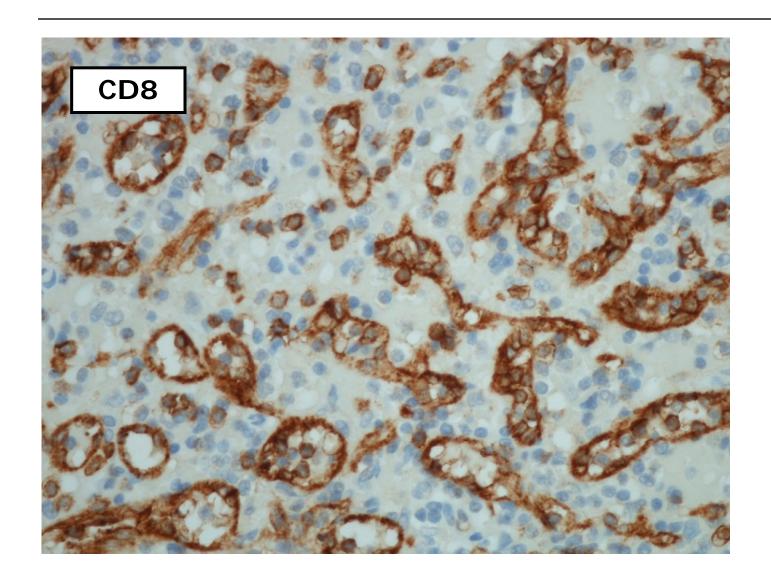


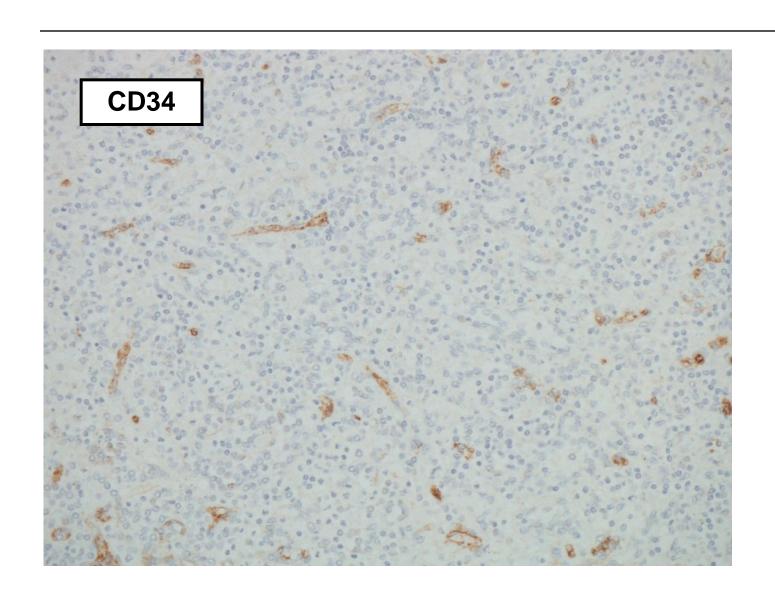


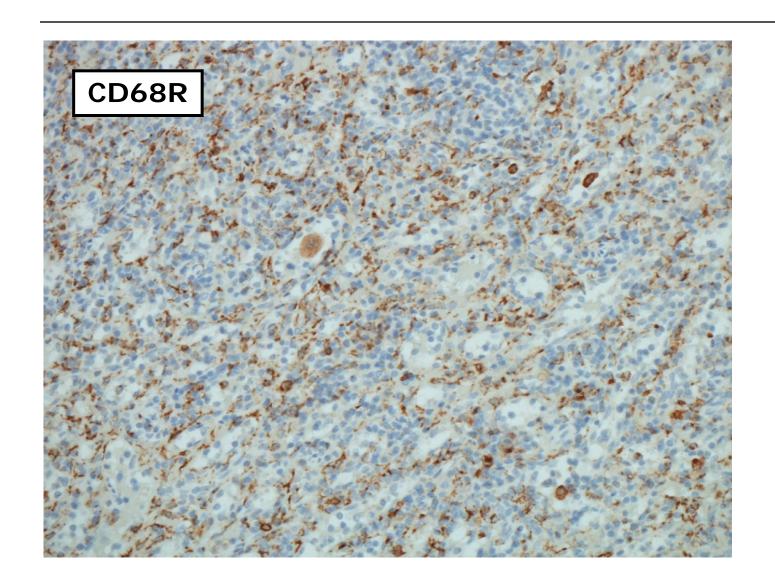




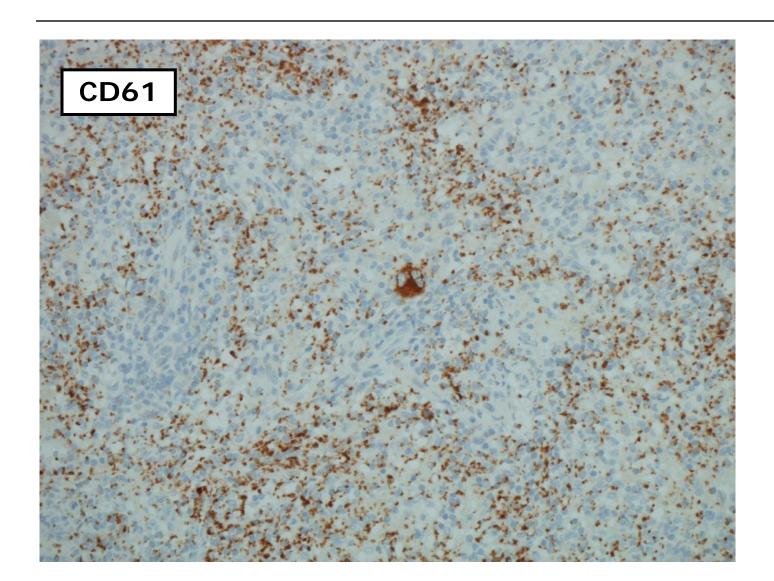




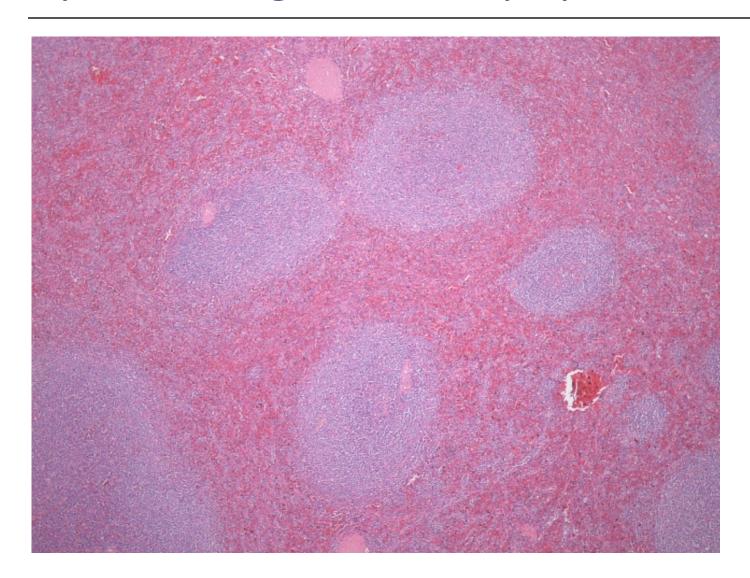




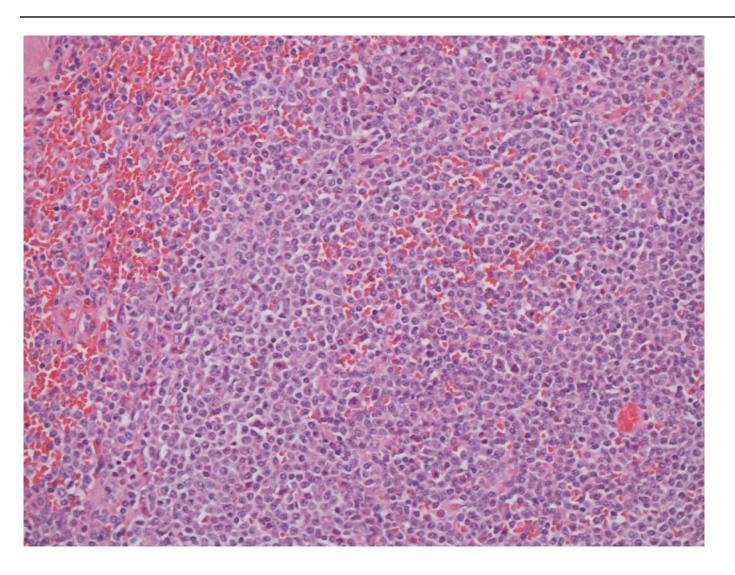
Platelets and MK in RP are Normal



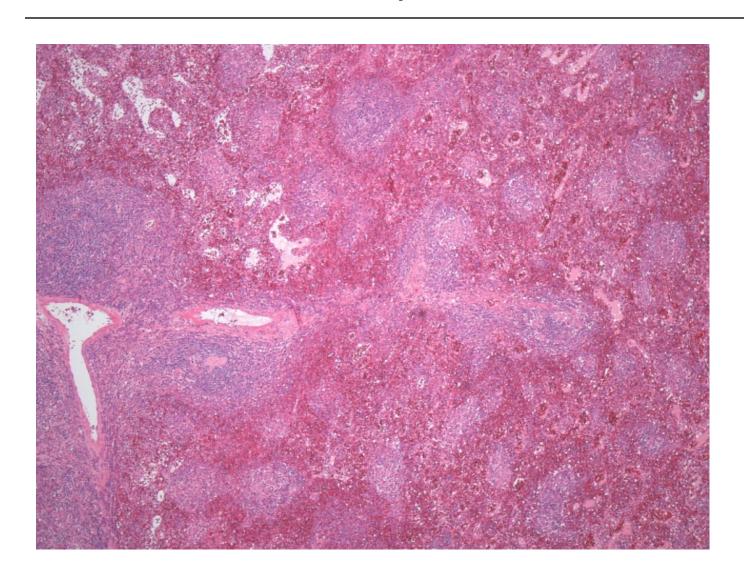
Splenic Marginal Zone Lymphoma



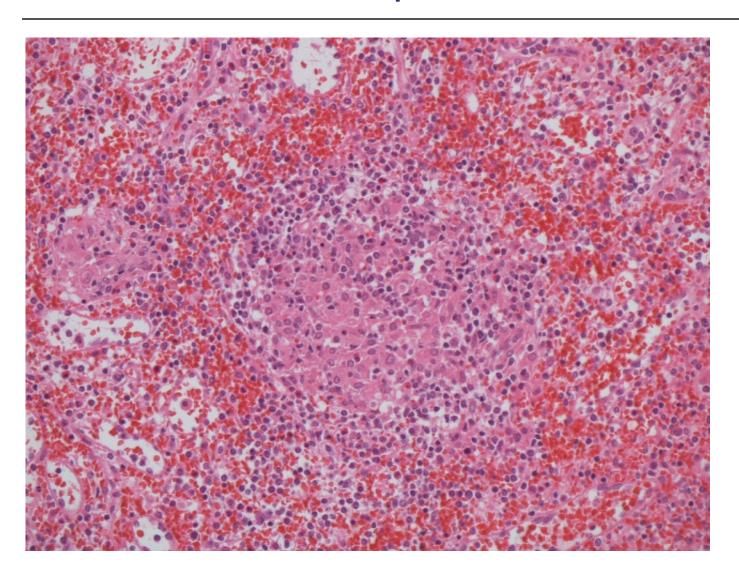
Splenic Marginal Zone Lymphoma



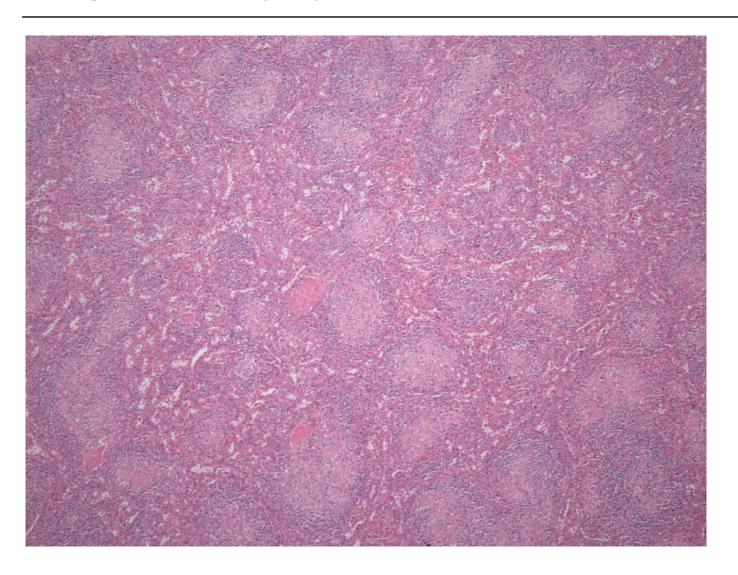
SMZL with Red Pulp Satellites



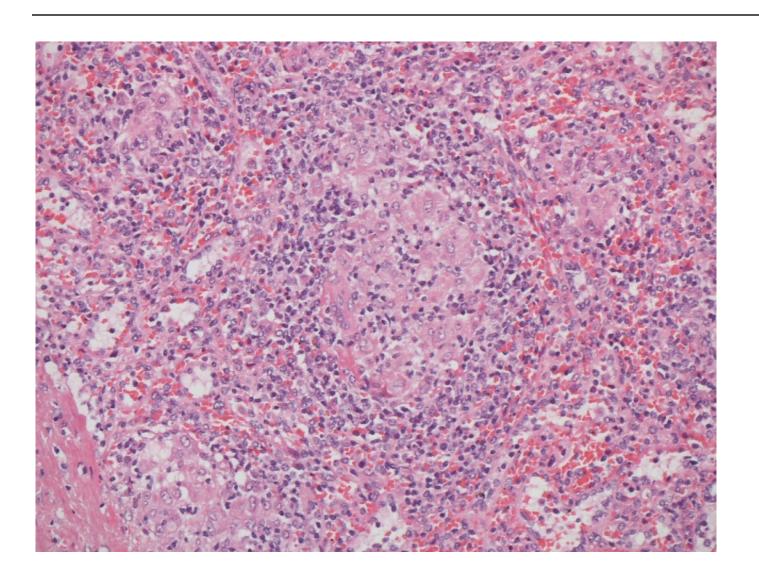
SMZL with Red Pulp Satellites



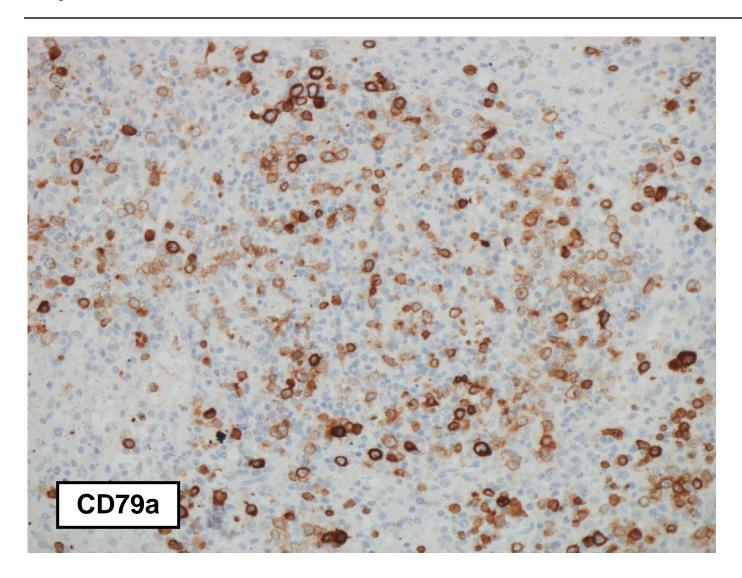
Splenic Micronodular T-cell/Histiocyte rich Large B-cell Lymphoma



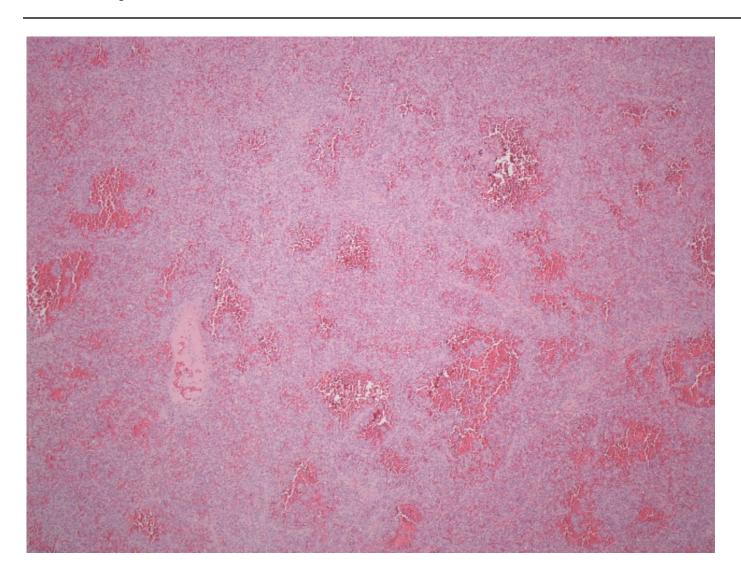
Splenic Micronodular THrLBL



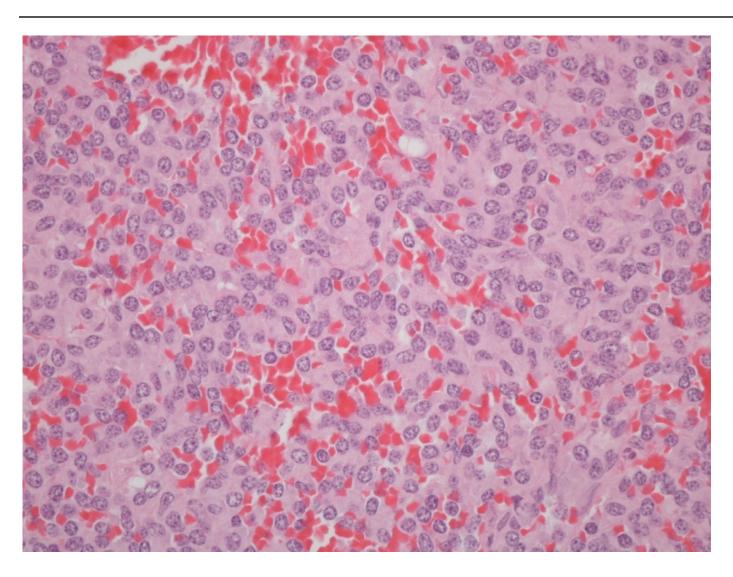
Splenic Micronodular THrLBL



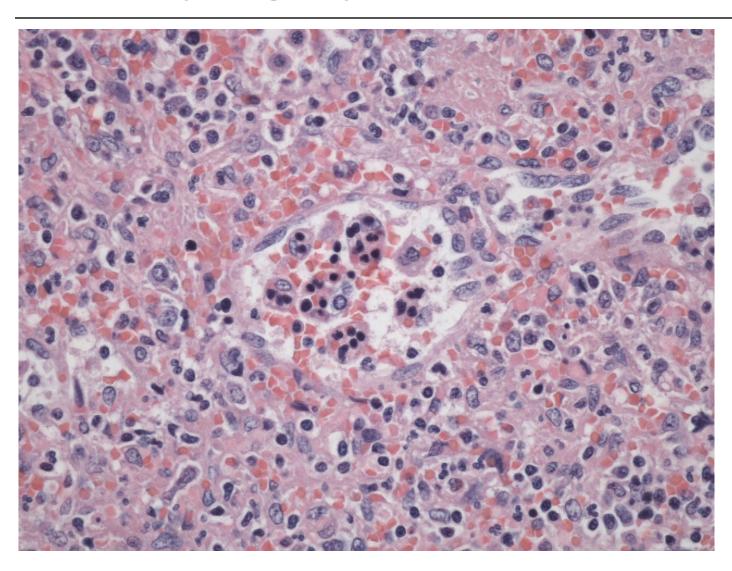
Hairy Cell Leukaemia



Hairy Cell Leukaemia



Haemophagocytosis



'Incidental' extramedullary haemopoiesis

