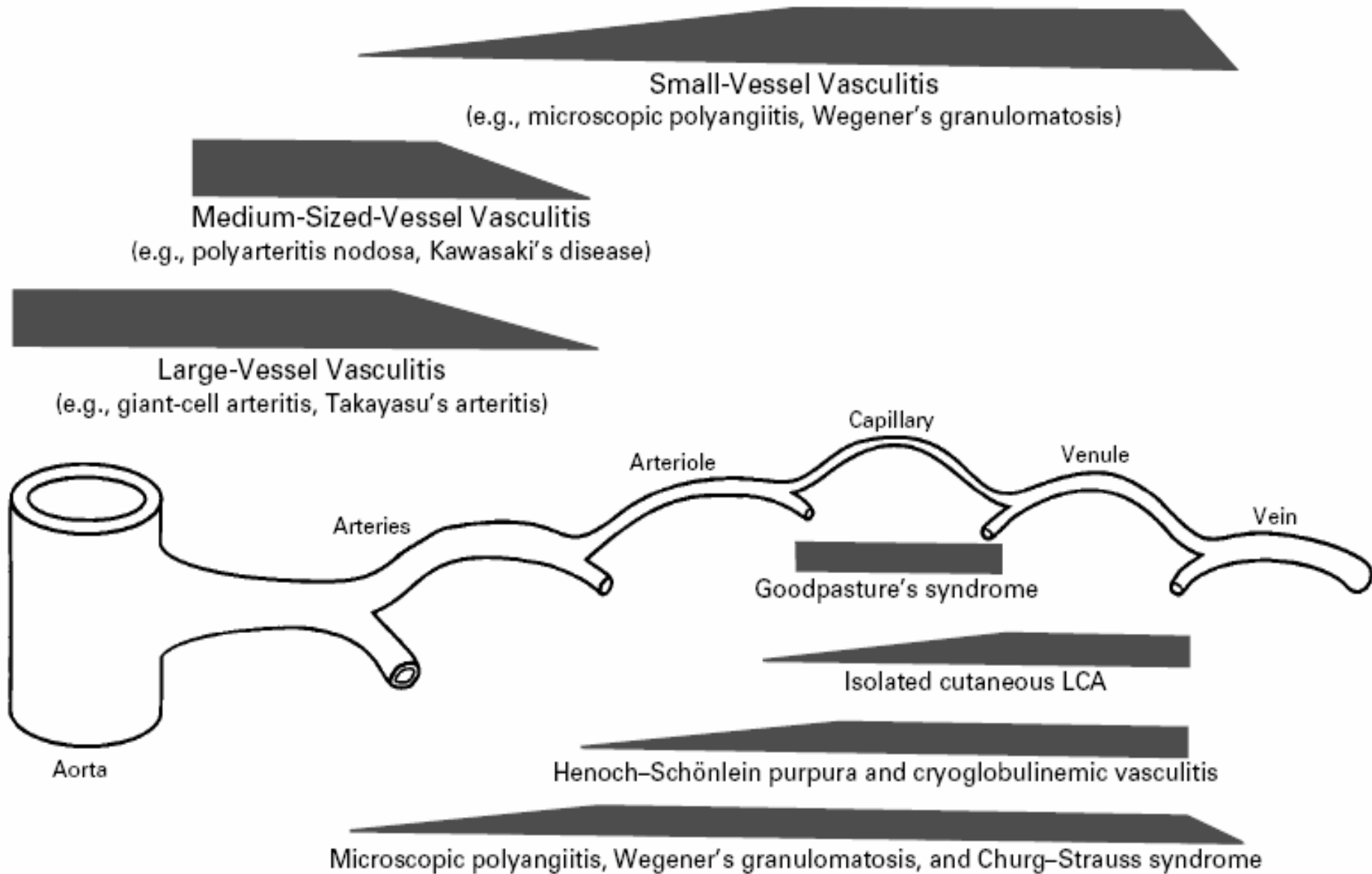


E9-0: Vasculitis Syndrome

- A rare disease with a incidence of 2- 3/10⁵ population-
- Manifested by skin palpable purpura or ulceration-



Classification of Vasculitis by Blood Vessel Size



Classification of vasculitis by blood vessel size and possible etiology



• **Small vessels (venules, arterioles):**

- **Drug-induced and serum sickness**
- **Henoch-Schönlein purpura**
- **Cryoglobulinemia**
- **Vasculitis associated with systemic rheumatic diseases**
- **Vasculitis associated with Malignancy**
- **Hypocomplementemic urticarial vasculitis**
- **Vasculitis associated with infections**

• **Small and medium muscular arteries:**

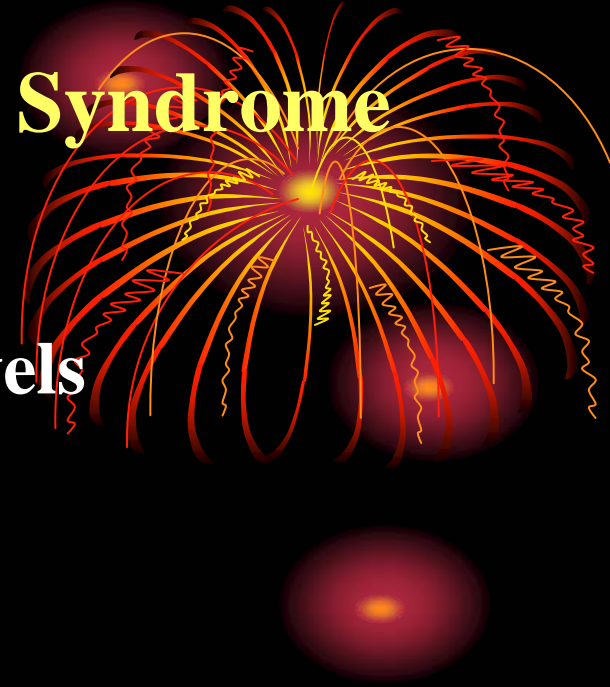
- **Classic polyarteritis nodosa (PAN)**
- **Microscopic polyangiitis**
- **Wegener's granulomatosis**
- **Churg-Strauss syndrome**
- **Kawasaki syndrome**
- **SLE**

• **Large arteries:**

- **Giant cell or temporal arteritis/polymyalgia rheumatica**
- **Takayasu's arteritis**

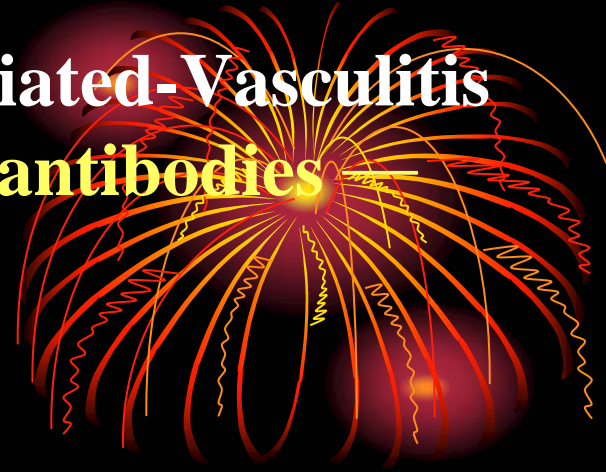
Laboratory Tests in Vasculitis Syndrome

- Positive ANA
- Decreased serum complement levels
- Leukocytosis with eosinophilia
- Increased ESR and CRP
- Increased immune complexes
- Hypergammaglobulinemia
- Increased rheumatoid factors
- Increased serum IgA
- **Presence of anti-neutrophil cytoplasmic antibodies
(ANCA)**
- Impaired liver and/or renal functions
- Cryoglobulinemia



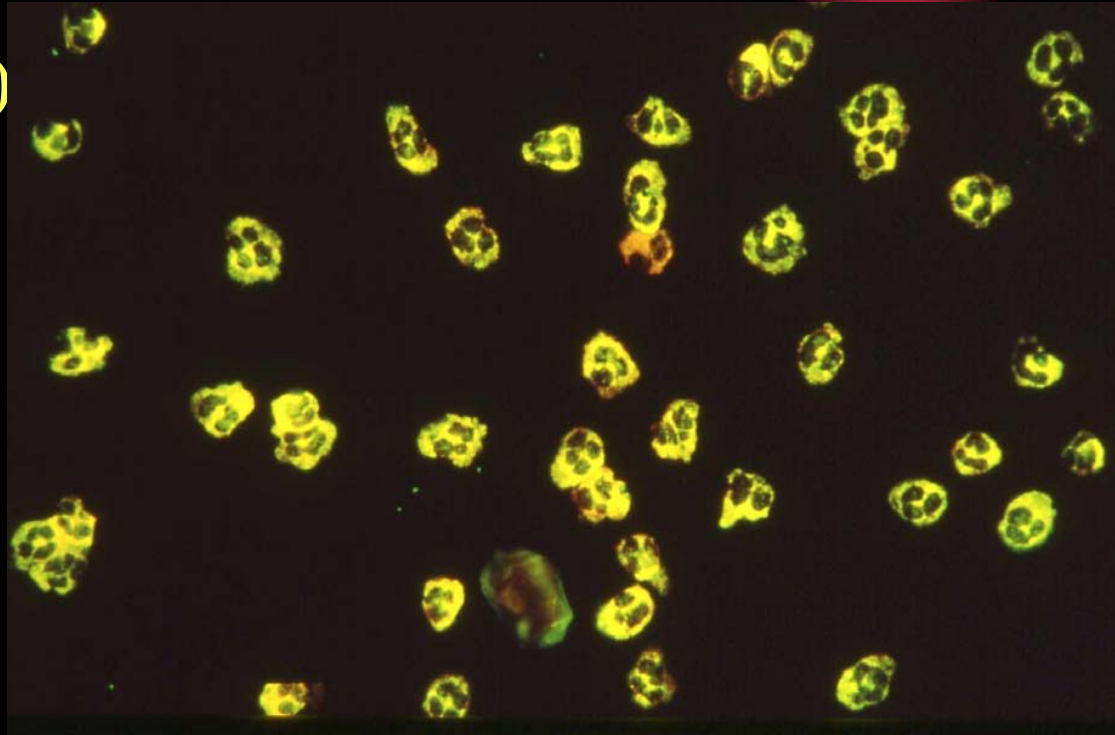
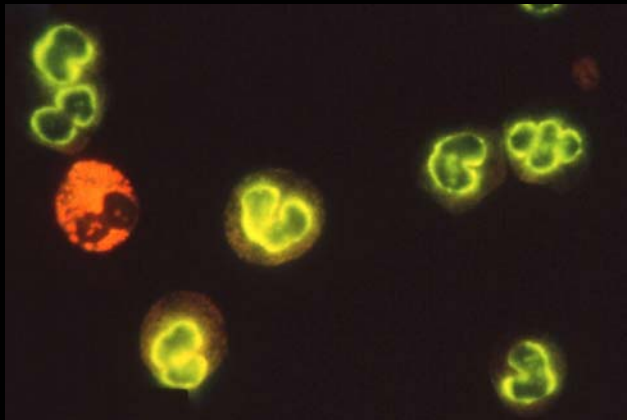
Useful Biomarkers in ANCA-associated-Vasculitis

—Anti-neutrophil cytoplasmic antibodies



- **cANCA: anti-proteinase 3**
(serine proteinase)

- **pANCA: anti-myelo-
peroxidase (MPO)**



Disease-Association of ANCA

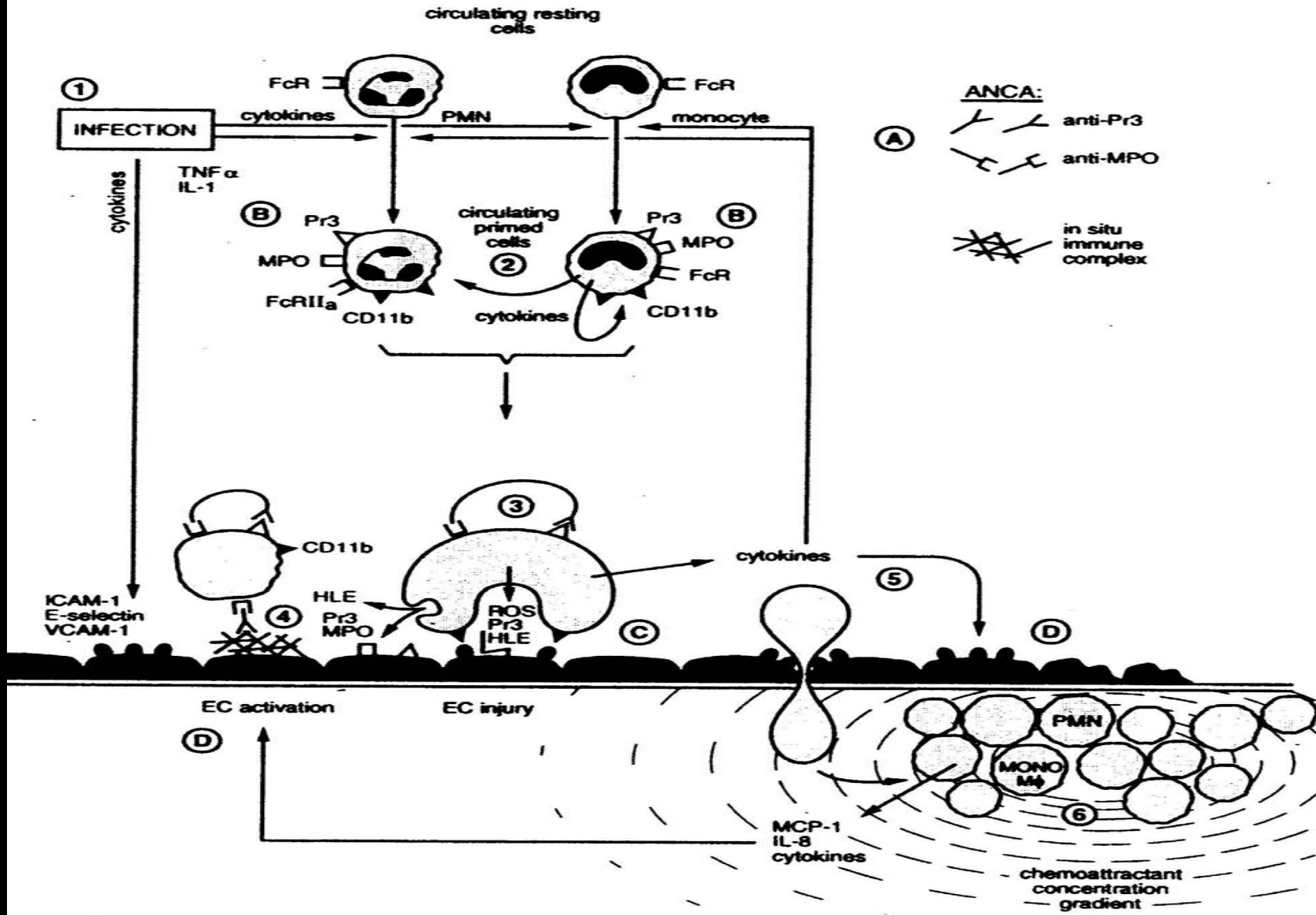


Table 4. Disease associations of anti-proteinase 3 antibodies and anti-myeloperoxidase antibodies

Disease entity	Sensitivity of	
	Anti-proteinase 3 %	Anti-myeloperoxidase %
Wegener's granulomatosis	85	10
Microscopic polyangiitis	45	45
Idiopathic crescentic glomerulonephritis	25	65
Churg-Strauss syndrome	10	60
Polyarteritis nodosa	5	15

Data are derived from the references cited in the text.

Pathogenesis of ANCA-associated Vasculitis

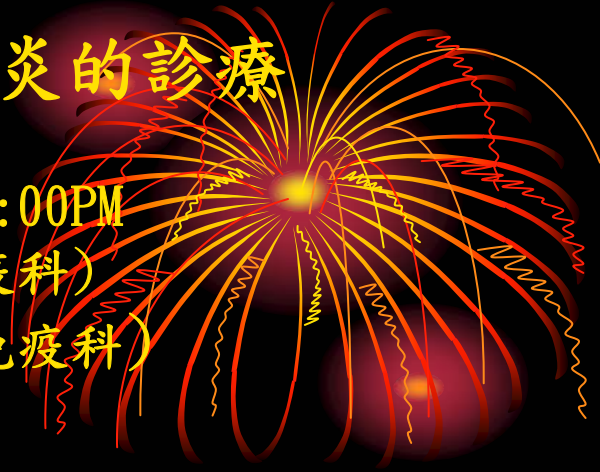


臺灣醫學會教育演講:血管發炎的診療

時間: 2009.11. 6 下午 2:00PM-5:00PM

主持人: 余家利 (台大醫院風濕免疫科)

張德明 (三軍總醫院風濕免疫科)



- (1) 前言 (10分): 余家利 (台大醫院 風濕免疫科)

- (2) 皮膚血管炎的分類及臨床表徵(30分): 邱顯清(台大醫院 皮膚科)

- (3) 血管炎的病態生理學(pathogenesis)及實驗室檢查(30分):

- 賴振宏(三軍總醫院 風濕免疫科)

- **Coffee Break (20分)**

- (4) 血管炎的治療(30分): 劉明輝 (成大醫院風濕免疫科)

- (5) 絲綢之路的血管發炎疾病--Behcet's disease (30分):

- 吳政翰 (台大醫院 風濕免疫科)

- (6) 血管炎的個案分析(30分): 蔡長祐(台北榮總風濕免疫科)