

Vasculitis

Disease	Site	Special	Cause	Clinical Features	Diagnosis & Treatment
Giant-Cell (Temporal) Arteritis	large to small-sized arteries temporal arteries Rarely the aorta	Chronic, granulomatous inflammation	Unknown cause Likely immune, T cell-mediated	> 50 years Vague symptoms facial pain or headache painful to palpation	Biopsy Treatment: corticosteroids
Polyarteritis Nodosa (PAN)	Systemic Small or medium-sized muscular arteries ONLY involving renal and visceral vessels but sparing the pulmonary circulation	all stages of activity coexist in different vessels or in the same vessel 30% of patients have hepatitis B antigenemia	Complications : Vessel rupture Ulcerations Infarcts Ischemic atrophy Haemorrhages in the distribution of affected vessels may be the first sign of disease	Largely young adults Fever and weight loss Renal (arterial) cause death Hypertension, Abdominal pain and melena Diffuse muscular aches and pains Peripheral neuritis	Biopsy corticosteroids results in remissions or cures in 90%
Microscopic Polyangiitis	capillaries as well as arterioles and venules <i>pulmonary capillaritis are particularly common</i>	<i>All lesions tend to be of the same age Necrotizing glomerulonephritis (90% of patients) p-ANCAs are present in more than 70% of patients autoantibodies are specific for myeloperoxidase (MPO)</i>	antibody response to antigens, drugs (penicillin), microorganisms (streptococci), heterologous proteins, or tumor proteins is the presumed cause This can result in immune complex deposition, or it may trigger secondary immune responses	Depending on the organ involved, major clinical features include: Hemoptysis Hematuria and proteinuria Bowel pain or bleeding Muscle pain or weakness Palpable cutaneous purpura	
Wegener Granulomatosis	small to medium-sized vessels Associated with C-ANCAs target antigen is proteinase-3 (PR3)	<i>Focal necrotizing, often crescentic, glomerulitis Acute necrotizing granulomas</i> of the upper and lower respiratory tract	40-50 years Without Rx -> 80% die With Rx -> 90% live (not cured) The Rx -> immunosuppression		
Churg-Strauss syndrome	small vessels Associated with p-ANCAs. autoantibodies are specific for myeloperoxidase (MPO)	Eosinophil-rich and granulomatous inflammation involving the respiratory tract	strong association with Allergic rhinitis Bronchial asthma Eosinophilia	Vessels in the lung, heart, spleen ... are frequently involved by: intravascular and extravascular granulomas infiltration of vessels and perivascular tissues by eosinophils is striking	
Thromboangiitis obliterans (Buerger disease)	of medium-sized and small arteries Tibial and radial arteries, with occasional secondary extension into extremity veins and nerves	Segmental, thrombosing acute and chronic inflammation	vascular insufficiency caused by atherosclerosis, in Buerger disease the insufficiency tends to be accompanied by severe pain , even at rest, related undoubtedly to the neural involvement Unknown cause	Chronic ulcerations of the toes, feet, or fingers may appear, perhaps followed in time by frank gangrene	Heavy smoker Begins before the age of 35 Superficial nodular phlebitis Cold sensitivity of the Raynaud type in the hands Pain in the instep of the foot induced by exercise (so-called <i>instep claudication</i>)