# What Is the Treatment for Vasculitis?

Currently, there is no cure for vasculitis. Effective treatment is available to control inflammation, limit organ damage and prevent relapse. Individualised treatment is prescribed based on the type of vasculitis, age and disease severity. Treatment includes:

- Patient education
- Medication corticosteroids, immunosuppressants, biologics
- Invasive treatment plasma exchange and dialysis (temporary or permanent) for severe kidney damage
- Lifestyle changes quit smoking, exercise regularly, have adequate rest, keep your fingers/toes warm

For more information and support, scan the QR code below or access

https://www.vasculitis.org.uk to find out more.



Scan here for more information on vasculitis

### Can the Condition be Cured?

Early diagnosis and treatment are critical in providing the best chances in controlling the inflammation and preventing permanent damage to organs and tissues.

Overall, the outcome depends on the type of vasculitis, disease severity and individual response to treatment. Symptoms often take about 6-12 months to achieve good control. Suppression of symptoms can be life-long but long term maintenance therapy is needed. Condition left untreated is associated with high risk of permanent organ damage and even death.

Cover photo retrieved from RheumNow.



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Scan the QR Code with your smart phone to access the information online or visit http://bit.ly/TTSHHealth-Library

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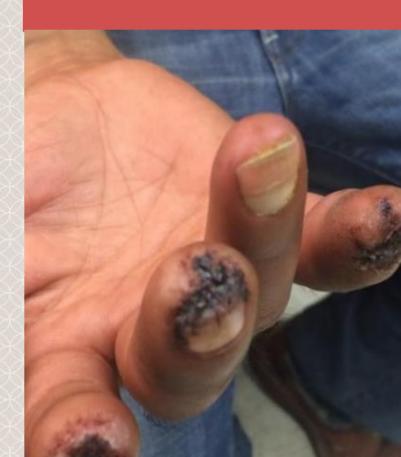
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RHEUMATOLOGY, ALLERGY AND IMMUNOLOGY

# **Vasculitis**

Department of



#### What is Vasculitis?

Vasculitis refers to the inflammation of blood vessels. It affects blood vessels of different types, sizes and location, ranging from the small blood vessels (capillaries) in the skin to large vessels like the aorta. As a result of inflammation, blood vessel walls may become weakened, leading to further narrowing and scarring. These changes can reduce blood flow, resulting in organ and tissue damage.

#### What Causes Vasculitis?

The causes of vasculitis are largely unknown. Certain types of vasculitis may be due to infection (caused by bacteria and viruses) or medication.

#### Who are at Risk of Vasculitis?

Vasculitis is uncommon. It is estimated that 100 to 300 in every million are affected worldwide. The onset of symptoms varies across different age groups and genders depending on the type of vasculitis.

Factors that increase the risk of vasculitis include smoking, chronic hepatitis B or C and having underlying autoimmune diseases (e.g. systemic lupus erythematosus, rheumatoid arthritis).



Above ↑: Affected artery in the head (located at the temple) due to Giant cell arteritis (GCA), a type of vasculitis. Photo retrieved from Nature.

Right→: Leg rash caused by vasculitis. Photo retrieved from British Medical Journal.



# What are the Types of Vasculitis?

The types of vasculitis are categorised by the size of blood vessels involved.

## Large Vessels

- Takayasu's arteritis affects large arteries, particularly the aorta; mainly affects people below 40 years old
- Giant cell arteritis (GCA) affects large vessels that supply to the head and neck; mainly affects people above 50 years old

## Medium-sized Vessels

 Polyarteritis nodosa (PAN) – affects mediumsized arteries, particularly those supplying blood to the gut and kidneys

## Medium to Small-sized Vessels

- Granulomatosis with polyangiitis (GPA) affects small and medium-sized vessels; associated with certain types of antibodies
- Eosinophilic granulomatosis with polyangiitis (eGPA) – affects small and medium-sized vessels; associated with adult-onset asthma and certain types of antibodies
- Behcet's syndrome causes oral / genital ulcers and eye inflammation; may affect small and medium-sized vessels in some cases

### Small Vessels

- Microscopic polyangiitis (MPA) affects mainly small-sized vessels, particularly in the kidneys and lungs; associated with certain types of antibodies
- Cryoglobulin-associated vasculitis affects small-sized blood vessels; mainly affects the skin, kidneys and nerves
- Henoch-Schonlein Purpura (HSP) / IgA Vasculitis

   affects small-sized vessels, particularly in the skin, gut and kidneys; associated with IgA antibody deposits in the blood vessels

# Symptoms and Signs of Vasculitis

People with vasculitis often feel unwell with fever, fatigue and experience weight loss.

Common symptoms include:

- Skin rash, ulcers
- Lungs coughing up blood, breathlessness
- Nerves tingling (pins and needles), pain, weakness (in the arms and legs)
- Kidneys kidney failure, blood in urine, frothy urine (protein leakage from the kidneys), decrease amount of urine
- Brain headaches and stroke
- Fingers and toes turn white or blue when exposed to cold conditions
- Others jaw pain, eye problems (e.g. sudden blurring/loss of vision)

Symptoms vary depending on the body part(s) affected by the blood vessel inflammation.

# How is Vasculitis Diagnosed?

Diagnosis can be challenging as the symptoms and signs may be similar to other conditions (e.g. infection). Diagnosis is based on assessment of symptom, laboratory tests and imaging studies.

## Tests include:

- · Blood tests, including full blood count
- · Renal & liver function tests
- Inflammatory marker tests
- · Urine and protein tests
- Autoantibody tests
- Imaging tests: X-rays, CT-scan, MRI and angiography

Specialist referral may also be needed for further tests. Examples include biopsies of body tissues (e.g. skin, blood vessels, kidney, nerve) and examination of ear, nose and throat.