





















Takayasu Disease (TAK);

Inflammation in TA is around the vasa vasorum and at the medio-adventitial junction, leading to panarteritis causing stenosis or aneurysms.

Inflammatory infiltrates are ; macrophages and various lymphoid cells, including CD4+ and CD8+ T cells, GD T cells, natural killer (NK) cells, and B cells.

Genes:Human leukocyte antigen (HLA) class I and class II.

Vascular remodeling;

-Stenosis:Three stages: the "prepulseless" phase (stage I), the "pulseless" phase (stage II), and "fibrotic" phase (stage III).

-Aneurysm formation :

Severe or rapid inflammation cause the destruction of smooth muscle cells in the media result in the weakening of the arterial wall, leading to vascular dilatation and aneurysm formation

Takayasu Diseas	se (TAK);	
2022 ACR-EULAR Classificatio	n Criteria for Takayasu's Arteritis	
Criteria Absolute Requirements		
Age ≤ 60 years at the time of diagnosis		Classification and
Evidence of vasculitis on imaging ¹		epidemiology of vasculitis
Criteria Items		Emerging concepts
Clinical Features		Ecclestone T Watts RA
Female sex Angina or ischemic cardiac pain Arm or leg claudication Vascular bruit ² Reduced pulse in upper extremity ³ Carotid artery abnormality ⁴ Systolic blood pressure difference in arms ≿ 20 mm	+1 +2 +2 +2 +2 +2 +2 +2 +2 +2	Best Pract Res Clin Rheumatol. 2023 Jul 17:101845. doi: 10.1016/j.berh.2023.101845. Online ahead of print.PMID: 37468418 Review
	Sum the scores fr A score of ≥ 5 is needed for th	or all items, if present. e classification of Takayasu arteritis
	 Existence of securities in the active to serve an frag, communication many public/valueties bandling emission tomographic/. Bruit detected by the acculation of a large ant brackal, renal, or inidemonia attenties. Bruite detected by the acculation of a large ant brackal, renal, or inidemonia attenties. Souther of attentia territorises with luminal dama angiographic values of public of the accented ant angiographic values and public of the actentia of the manging and the accented and the accented and termographic manging the accented and the accented and termographic manging compared in the accented and termographic manging compared in second, or a catheter to vascular territories: careful, dedivalue, merupan termographic feesonais, colonia, merupan 	tries must be confirmed by vacular imaging agnetic resonance angingraphy, ubrasond, or postero enclosed the surface confit, subclanka, authors, varianteno of the surface, touchis, authors, and the surface surface and the surface age (e.g., strongs, occusion, or angula retrefus; any or interfacers, being caroling along and the or right result array, classis, and the or right result array, classis, and the or right result array and or surface and any classis of a utilization and arrays of the or right result array arrays of the origin of the following pared arrays.



Behcet's Disease(BD);

Behçet syndrome(BD) is one of the ${\bf systemic}\ {\bf vasculitis}\ {\rm which}\ {\rm can}\ {\rm affect}\ {\rm almost}\ {\rm every}\ {\rm organ}.$

Arterial involvement affects 3-5% of the patients

Arterial aneurysms are the most common vascular lesion (47%) and the result of disrupted medial elastic fibres , and inflammatory cell infiltration, around the vasa vasorum.

Genes; HLA-B*51, HLA-I .

Post-op pseudo-aneurysms occur $30\%\mbox{-}50\%$ of cases after surgical repair at the anastomotic site .

EVAR/TEVAR seems to provoke less(wall stress) cytokine release and inflammatory response.

Nature reviews rheumatology Review article Check for updates Review Article Published: 21 Dece Vascular Behcet syndrome: from pathogenesis to treatment Assandra Bettol, Istan Aliba: Oner, Haner Direkkell, Guien Hatemi, David Sadoun, Enire Synki, Domenico P



Behcet's Disease(BD);

Front Cardiovas: Med. 01 September 2021.Ser. Andre Surgery and Endosuscular Repair, Volume 10 - 2023 | <u>them/skines/no2103/98/hem/2021.Ser. Andre Surgery and Endosuscular Repair</u>, 2023 Hybrid Surgery management challenges of a Behcet's disease patient with recurrence of aortic neurysms: a case report





A- abdominal aortic pseudoaneurysm (black arrow). B- CT Angiography after **pseudoaneurysm resection** and abdominal aorta reconstruction.

A.B. Angiography after completion of splanchnic artery branch reconstruction. andafter completion of steret placement. C-After 5 years of follow-up, CIA showed that the pseudoaneurysm cavity completely disappeared, and the stent and branch arteries were patent.







Rheumatoid Artiris;

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 fla áánanat cfla filiúning i filiúni áriáit A úNÁUÁ

RV is the most **serious extra-articular complication** and can cause **high rates of morbidity and mortality**.

Aortic aneurysms/dissection formation is very rare.

Cardiovascular manifestations of RA include predilection for accelerated atherosclerosis and endothelial dysfunction resulting in coronary artery disease (CAD), stroke, congestive heart failure, and peripheral arterial disease.



Rheumatoid Artiritis(RA); Case:60y ,M, rheumatoid arthritis,AAA having thick thrombosis was montoring for a while, at diameter of 65 mm EVAR had been applied.

Periarteritis Nodosa (PAN);

PAN is a necrotizing vasculitis.

Infectious : The reduction in the incidence of PAN may be related to the decrease in hepatitis B virus (HBV) infection due to widespread vaccination.

Genetic; DADA2 (Deficiency of adenosine deaminase 2) is resposable early-onset PAN.

Diagnosis: Negative ANCAs (Antineutrophil cytoplasmic antibodies)

 $\ensuremath{\text{DSA}}\xspace{-1}\$

estment:

Non-HBV-PAN: Corticosteroids and immunosuppressants

HBV-PAN: Antiviral agents, plasma exchanges and initial corticosteroids

DADA2:TNF inhibitors

Medium- and Large-Vessel Vasculitis Bavid Saadoun, Nathieu Vautier andPatrice Cacoub Originally published 19 Jan 2021 https://doi.org/10.1161/CIRCULATI



