INTRODUCTION
Takayasu arteritis (TA) is a chronic vasculitis of unknown aetiology involving the aorta and its major branches. It could also involve the coronary and pulmonary arteries. It was first noted in 1908 by a Japanese ophthalmologist, Mikijo Takayasu, who described the case of a 21 year old woman whose optic fundi exhibited peculiar anastomosis. The disease has a worldwide distribution, but it is more common in South East Asia. It affects mainly young women, who account for about 90% of all cases in a series from Japan. An international survey by Nunaro et al showed that the female to male ratio decreases as one moves from east to west. On the African scene, few cases have been reported. The cases that have been reported from South-West Nigeria were all females. We hereby report a case of TA in an adult Nigerian from the North. This to the best of our knowledge is the first case reported in a Nigerian male in literature.

CASE REPORT
V.G. was a 32 year old man was admitted with a diagnosis of dilated cardiomyopathy in congestive cardiac failure. He was referred to the Cardiology unit when his heart failure was adjudged refractory by the managing unit. Following evaluation which included multiple blood cultures that yielded positive result, aortic regurgitation and infective endocarditis (IE) were discovered. Absent left upper limb pulses and non-recordable blood pressures were noted and thought to be related to the IE. He did not show any sign of gangrene in the affected limb. He was appropriately treated, fared better and was later discharged.

He was re-admitted in heart failure soon after discharge. Further questioning revealed history of left upper limb claudication and hypertension early in life. Clinical examination revealed absent left radial and brachial pulses, collapsing right radial pulse, an aortic incompetence murmur (grade 3/6) and biventricular failure. His erythrocyte sedimentation rate was 51mm/hr (Westergren). Mantoux test, rheumatoid factor, HIV screening and Veneral Disease Research laboratory (VDRL) tests were all negative. Echocardiography revealed marked left ventricular dilatation that was hypokinetic, a dilated aortic root and moderate aortic incompetence. Selective aortography showed tubular left subclavian artery with stenosis just proximal to the axilla (fig. 1). A later film showed extensive collaterals (fig. 2).
DISCUSSION

It is now established that TA is far from being exclusively the disease of Asian women. However previous Nigerian reports suggest that the disease is very rare in our environment. This rarity, we suspect, may be in part due to underdiagnosis and under-reporting. Although a specific cause has not been found, the bulk of evidence favours an auto-immune aetiology. An association between the disease and certain HLA subtypes has been reported. In the early stage of the disease, there is active inflammation affecting the intima, media and adventitia of the aorta and its branches. The disease progresses at variable rates to a later sclerotic stage. The clinical manifestations of TA are usually localized pain and symptomatology of regional ischaemia from stenosis and thrombosis.

Involvement of the ascending aorta may cause aortic regurgitation. More acute progression causes aneurysms or rarely rupture of the involved arteries. Death usually results from complications of renovascular hypertension. Inflammatory markers are usually raised during the acute systemic phase. Diagnosis is confirmed by imaging assessment with arteriography, computed tomography, magnetic resonance and digital subtraction angiography. Early diagnosis with the aid of these modern facilities and thereby early treatment have made a better prognosis possible.

Our patient had features consistent with the American College of Rheumatology 1990 criteria for the classification of TA. He presented at < 40 years, had claudication of an extremity, absent brachial arterial pulse and arteriographic evidence of narrowing of the left subclavian artery. Unfortunately he, like all reported cases in Nigeria was diagnosed in the late sclerotic phase of the disease. He died suddenly at home apparently from complications of his refractory congestive cardiac failure.

It is said that vasculitis is a difficult diagnosis to establish with diagnosis being made only at autopsy. Biopsy, which should confirm it, is difficult here because of location of the affected vessels. Arteriographic evidence of a tubular vessel that narrows abruptly in a clinical setting where atherosclerosis is unlikely is therefore considered diagnostic. The clinical manifestations and the angiographic evidence of this case are typical.

In the absence of modern diagnostic facilities for early diagnosis in most Nigerian centers, a high index of suspicion becomes necessary. Early non-specific presentation of the disease often results in delayed diagnosis. TA may not
be as uncommon with us as previously believed. It is hoped that an increased awareness of this condition will generate interest in early diagnosis and therefore make treatment possible.

In conclusion, TA should be considered among diagnostic possibilities in Nigerian patients who present with unexplained systemic inflammation suggested by a high erythrocyte sedimentation rate. Where possible, angiography should be done to confirm diagnosis.

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REFERENCES


