CARDIAC SARCOIDOSIS

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SUMMARY

Cardiac sarcoidosis is a rare complication which occurs in 1-5% of sarcoidosis. We report here a case seen in Olabisi Onabanjo University Teaching Hospital, Sagamu, who presented with heart failure.

INTRODUCTION

Heart Failure is defined as an abnormality of cardiac function in which the ventricles do not deliver an adequate amount of blood to the tissues at rest or during normal activity. The mechanism of myocadiac failure is complex, and even an approximate understanding of it demands knowledge of cardiac funciton, heamodynamic states, water and electrolte metabolism, renal and endocrine funciton. In most patient, heart failure results from anatomic lestions of the myocardial, heart valves or pericadium. The list of factors precipitating this, is listed in table 1. When fully developed, the syndrome is characterized by dyspnea, odema, venous congestion, hepatomegaly ans often by pleura effusion. There will be variation in the details, depending to the extent of the underlying type of heart disease, but the general pattern is consistent.

Involvement of the heart, by sarcoidosis is rare but may precede the appearances of sarcoidosis elsewhere in the body by several years. The usual manifestation is an arrhythmia but congestive cardiac failure may occur and rarely there may be mitral incompetence from papillary muscle involvement³

CASE REPORT

A 64 year old man came to the emergency department with abdominal swelling, swollen feet, vomiting, cough ans difficulty in breathing of two weeks duration. he also had a complaint of general body weakness and pyreria. On examination the patient was in cardiogenic shock with fast thready pulse of 114/min and cold extremities. He had prominent jugular veins. The bloo 1 pressure was 150/110 mmHg The respiratory rate was 44/min with few basal crepitations. An abdominal examination showed tender hepatosplenomegaly of abour 10cm below costal margin. An electriocardiogram showed sinus tachycardia with left atrial enlargement.

The white cell count was normal and the creatinine level was 1.3mg/100ml.. The electroytes were normal but the CA++ level was slightly raised 12.2mg. A chest radiograph was interpreted as showing bilateral hilar lymphadenopathy with a right sided pleura effusion.

A diagnosis of sarcoidosis was made based on characteristic clinical featurs and radiological appearance. The patient was transfered to the medical ward for management. Patient was pleased in cardiac position after the administration of frusemide and aminophylline. Intranasal Oxygen was given PRN. Sputum test done for AFB was negative. Mantoux test was also negative.

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The patient died within 48 hours of treatment. Post mortem was done, and histology report showed that the lesion effected mainly the myocardium which consisted of aggregates of epithelloid cells with relatively few hymphocytes and little or no necrosis. This is consistent with sarcoidosis.

DISCUSSION

Sarcoidosis is a multisystem granulomatous disorder of unknow aetiology. Sarcoidosis is seen indifference parts of India and other developing countries with almost similar frequency as in the West. It was largeely due to lack of awareness and non-availability of Investigation for diagnosis that the disease was reported to be rare in the past. A combination of clinical, radiology and histology criteria are used to diagnosis sarcoidosis. A confidant excision of other causes of granuloma formation, especially tuberculosis is required. The characteristic radiological finding is a bilateral symmetrical hilar lymphadenopathy.

The histology appearance is non-caseating epithelioid cell granulomas with or without giant cell. The therapy of choice for sarcoidosis is glucocorticoid. Cardiac Sarcoidosis occurs in 1-5% of sarcoidosis patient². A symptomatic manifestation of the myocardium is possible, in these cases arrhythmias are most common symptom³. Cardiac sarcoidosis may mimic and even present as hypertrophic cardiomyopathy. Other cardiac abnormalities include Echocardiographi abnormalities, increase thickness of the intervenricular and selective coronary artery cineangiography⁴. This article is aimed at alerting the physician to the possibility of cardiac sarcoidosis in adults with unexplained heart failure.

TABLE 1: CAUSES OF HEART FAILURE

Pulmonary embolism

Infection

Anaemia

Throtoxicosis

Pregnancy

Arrythmias

Myocarditis

Bacterial endocarditis

Physical exertion

Sodium excess

Severe hypertension

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