RADIOLOGICAL AND IMAGING STUDY OF PERICARDIAL EFFUSION

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A THESIS

Submitted For Partial Fulfilment Of The

Master Degree In Radiodiagnosis

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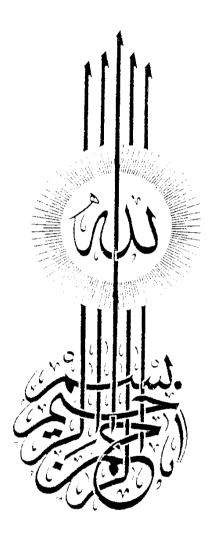
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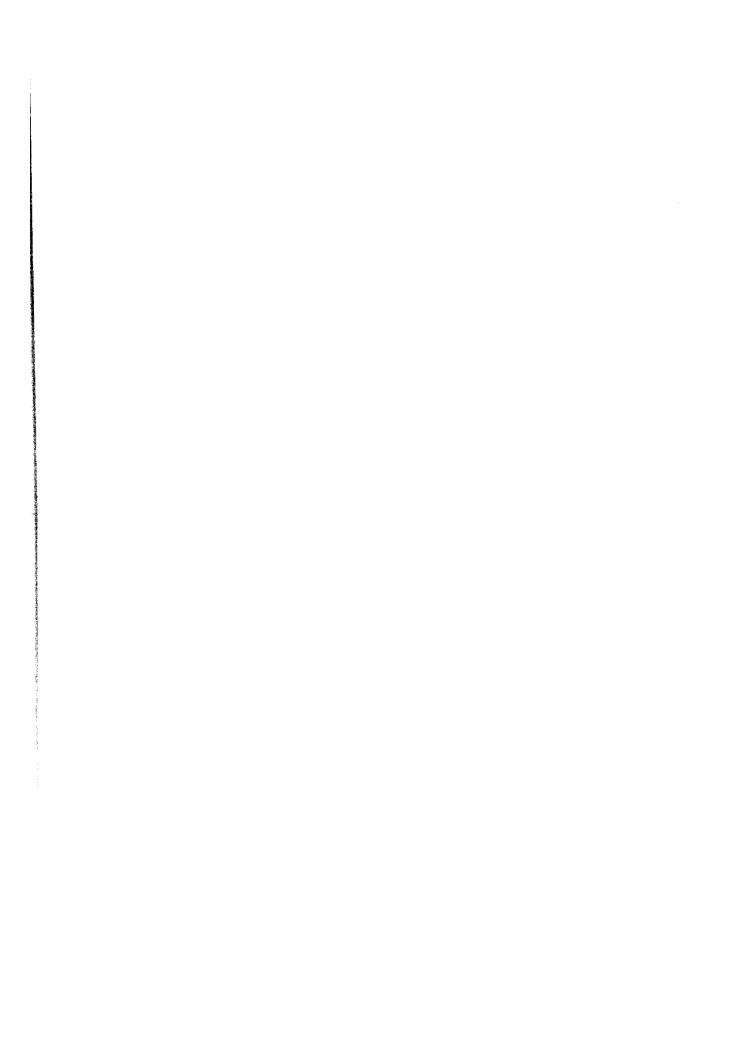
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			Page
	莽	INTROLUCTION	1
	*	PATROLGGY	2
:	*	CLINICAL FEATURES	10
	*	RADIOLOGICAL AND IMAGING INVESTIGA-	
		TIONS	15
	*	RADIOLOGICAL AND IMAGING PICTURE	25
	*	ILLUSTRATED CASES	47
	*	CONCLUSION	65
	*	REFERENCES	67
	*	ARABIC SUMMARY.	
!			

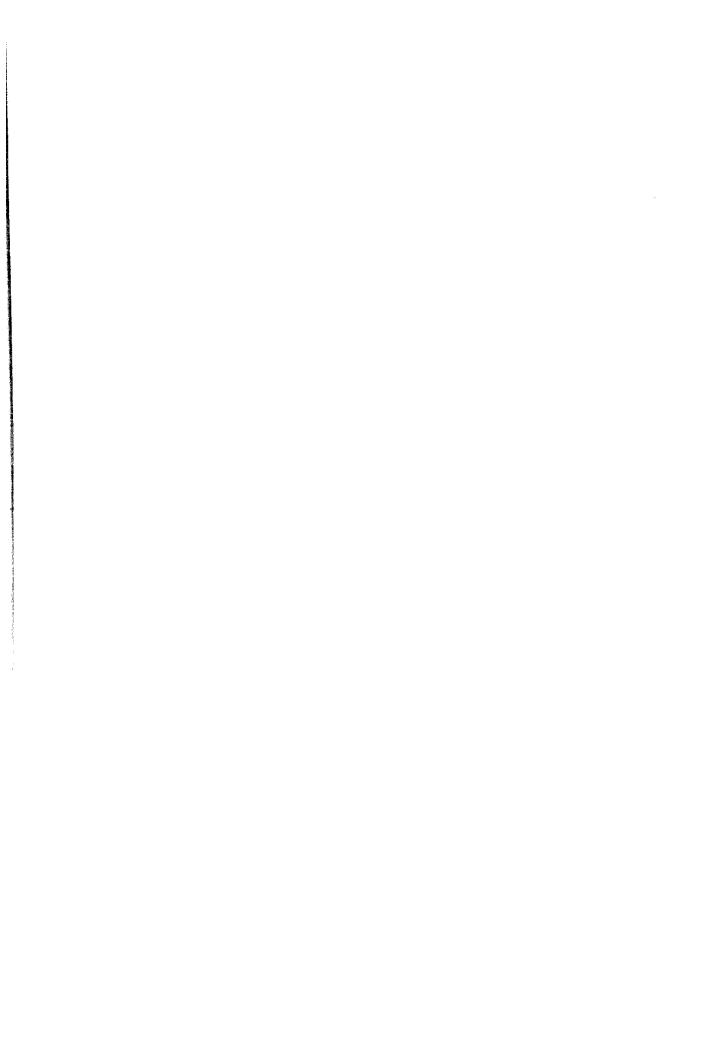
INTRODUCTION

Pericardial effusion is the increase of the amount of pericardial fluid [normal 40-50 ml]. Plain films are frequently the first indication for the presence of pericardial effusion, especially in silent cases. The maximum amount of fluid detected radiologically is somewhere between 300-500 ml. Echocardiography has the ability to detect the minimal amount of fluid.

The speed of accumulation determines the physiologic importance of the effusion. If it is accumulated slowly, it may produce no symptoms. However sudden accumulation of relatively small effusions may produce signs of cardiac tamponade. Shock and death may result if tamponade is not relieved.

The aim of this work is to verify the various radiological and imaging manifestations of pericardial
effusion and the findings that favor its diagnosis
and emphasize the role of radiology and imaging studies
achieving a correct diagnosis of pericardial effusion.

PATHOLOGY



PATHOLOGY

TYPES AND CAUSES OF PERICARDIAL EFFUSION:

1. EXUDATIVE EFFUSION [Seropericardium]

The fluid is clear, straw coloured, rich in protein and of specific gravity of 1020 and contain inflammatory cells, it follow inflammation of the pericardium in cases of:

a) Tuberculous pericarditis:

The commonest cause for pericardial effusion.

It is secondary to tuberculous infection elswhere:

Blood borne or as result of extension from pulmonary tuberculosis or ruptured tuberculous mediastinal lymph node. Occasionally the effusion may
be hemorrhagic. The lesion ends by fibrosis and
often followed by calcification in late stages
leading usually to constrictive pericarditis.

b) Rheumatic pericarditis:

Fibrinous pericarditis is the most common form but the exudate may be serofibrenous. However effusion is seldom large and , consequently, tamponade is rare. Healing is usually complete, but focal areas of adhesions or a diffuse adhessive pericarditis may persist, neither of which produce any cardiac disability