

CONTENTS

Acknowledgement	
List of Abbreviation	
List of tables	
List of Figures	
Introduction	1
Aim of the work	3
Review of literature	4
Anatomy of heart	4
Systemic connective tissue disease	7
Cardiac manifestations in rheumatoid arthritis	19
Cardiac manifestations in systemic lupus erythematosus	31
Cardiac manifestations in other connective tissue diseases	53
Echocardiography	58
Patients and methods	69
Results	93
Discussion	118
Summary	131
Conclusions	133
Reference	136
Arabic summary	