Contents

	PAGES
I. Introduction and Aim of work .	1
II. Review of Literature .	
i. Historical Background.	3
ii. Virology.	5
A. Size and Shape.	5
B. Antigenic structure.	6
C. Resistance to physical and	
chemical agents.	8
D. Growth in tissue cultures.	9
iii. Pathology and Pathogenesis.	13
A. Placenta - fetal infection .	14
B. Interference with organogenesis.	15
iv. Acquired rubella.	
A. Clinical manifestations.	17
B. Transmission of the disease.	23
C. Reinfection with rubella virus.	24
v. Congenital rubella .	25
vi. Infectivity and Epidemiology.	31
vii. Immune Response.	
A. Humoral immune response.	37
B. Cell mediated immune response.	39
C. Circulating immune complexes formation	. 40
viii. Laboratory diagnosis of rubella.	
A. Virus isolation.	41
B. Serologic diagnosis .	43
* Serology in pregnancy.	43
* Congenital infection .	45
* Prenatal diagnosis	45
* Available Rubella Serologic tests.	46

I	PAGES
ix . Rubella Vaccines .	56
* Duration of protection .	<i>57</i>
* Vaccination programmes, and re-infection	. <i>59</i>
* Vaccine virus and the fetus.	61
* Reactions to vaccine.	62
III. Subjects and Methods .	64
IV. Results.	79
V. Discussion.	87
VI. Summary and conclusion.	93
VII. References.	95
VIII Arabic summary	