

CONTENTS

	<u>Page</u>
Introduction	1
Aim of the Work	4
Review of Literature	5
A. History of Campylobacters.....	5
B. Nomenclature and Classification	8
C. Outline of Campylobacters.....	15
1. Campylobacter fetus.....	15
1a. Campylobacter fetus subsp. fetus.....	18
1b. " " " venerealis.....	22
2. Campylobacter jejuni.....	24
3. Campylobacter coli.....	24
4. Campylobacter sputorum.....	26
4a. Campylobacter sputorum subsp.sputarum...	28
4b. " " " bubulus.....	28
4c. " " " mucosalis...	30
5. Campylobacter concisus.....	32
D. Campylobacter jejuni.....	36
1. Ultrastructure.....	36
2. Morphology.....	37
2a. Morphology of the organism.....	37
2b. Morphology of the colony.....	38
3. Culture Requirements.....	39
3a. Media.....	40
3b. Temperature.....	46
3c. Atmospheric Conditions.....	47
4. Biochemical Reactions	50
5. Antigenic Structure and Serotyping.....	51
6. Immune Response.....	53
7. Biotyping.....	55

	<u>Page</u>
8. Laboratory Diagnosis	57
9. Antibiotic Sensitivity.....	61
10. Treatment of Campylobacter Enteritis.....	64
11. Clinical Features.....	67
11a. Signs and Symptoms.....	67
11b. Incubation Period.....	70
11c. Period of Communicability.....	70
11d. Pathogenesis.....	71
12. Epidemiology and Control.....	73
12a. Proof of Causation	73
12b. Prevalence and Incidence	75
12c. Geographic Distribution	78
12d. Temporal Distribution	78
12e. Age, Sex, Occupation and Other Factors....	79
12f. Reservoirs and Routes of Transmission.....	81
12g. Immunity.....	82
12h. Control and Prevention.....	83
Materials and Methods.....	84
Results.....	102
Discussion.....	123
Summary and Conclusion.....	131
References.....	136
Appendix.....	148
Arabic Summary.	

LIST OF TABLES

	<u>Page</u>
Table (1): Alternative Names of Species of Campylobacter.....	9
Table (2) : Differential Characteristics of Campylobacters.....	11
Table (3) : Biotyping System for Campylobacter jejuni.....	56
Table (4) : Age and Sex Distribution of studied cases.....	103
Table (5) : Clinical data of Campylobacter positive cases.....	104
Table (6) : Number of motions during the previous 24 hours.....	106
Table (7) : Duration of illness before seeking for treatment.....	107
Table (8) : Signs and Symptoms.....	108
Table (9) : Naked Eye Appearance of Stools.....	109
Table (10): Microscopic Examination of Stools.....	111
Table (11): Identified bacterial and Mycotic isolates	113
Table (12): Growth of C. jejuni on different media...	117
Table (13): Growth of C. jejuni at different temperatures.....	119
Table (14): Growth of C. jejuni under different atmospheric conditions.....	121