
Table of Contents

Acknowledgements	v
Summary.....	ix
Zusammenfassung	xi
List of Tables.....	xiv
List of Figures	xv
List of Abbreviations	xvi
1. Introduction	1
1.1. History of brucellosis in Mongolia	2
1.2. Current control efforts and epidemiological knowledge.....	3
1.3. A review of camels in Mongolia.....	5
1.4. Brucellosis in Mongolian camels	6
1.5. Goal, Objectives and Hypotheses	7
2. General Methodology	9
2.1. Epidemiology of camel brucellosis in Mongolia	9
2.1.1. Target population	9
2.1.2. Study design.....	9
2.1.3. Sample size calculation.....	11
2.1.4. Random multi-stage cluster sampling	12
2.1.5. Field team.....	15
2.1.6. Data management and analysis	16
2.1.7. Ethical considerations	16
2.2. Assessment of serological diagnostic tests for camels in Mongolia	16
2.2.1. Serological tests	16
2.2.1.1. Rose Bengal Test	17
2.2.1.2. Complement Fixation Test.....	18
2.2.1.3. Indirect Enzyme Linked Immunosorbent Assays	19
2.2.1.4. Competative Enzyme Linked Immunosorbent Assays	20
2.2.1.5. Fluorescence polarization assay	20
2.2.2. Assessment of serological tests for camels and test comparisons	21

8.2. Overall methodology	96
9. Recommendations	101
References	103
Appendix 1 Additional files for Chapter 4	111
Appendix 2 Supplementary data for Chapter 5	119
Appendix 3	121
1. Photos from the field	121
2. Photos from the laboratory	126