

A CASE CONTROL STUDY OF
BRUCELLOSIS
AT JAHRA DISTRICT , STATE OF KUWAIT

THESIS
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BY

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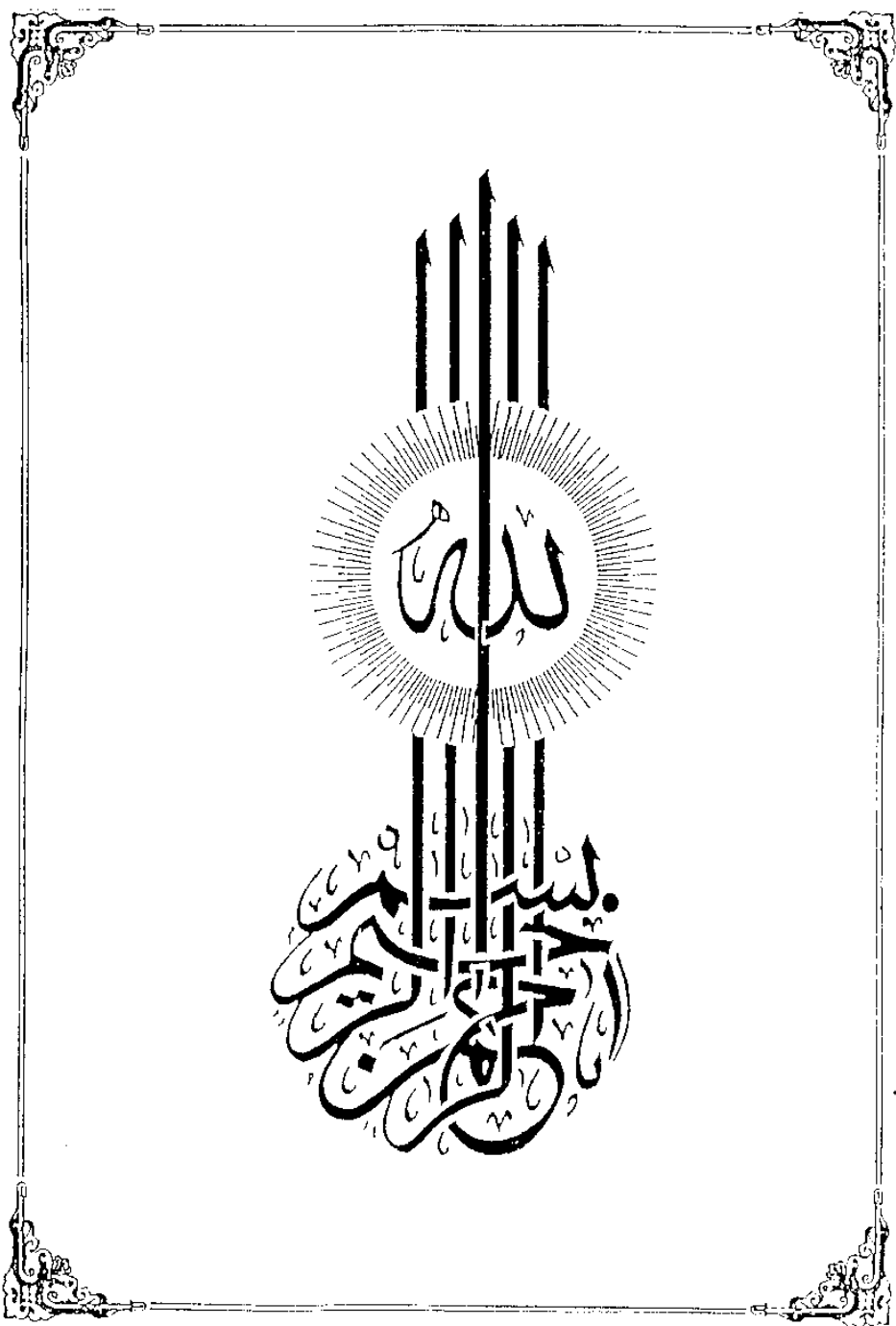
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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

وَأَنْ لَّكُمُ فِي الْأَنْعَامِ لَعِبَةٌ^{٢٩}
تَشْقِيكُمْ^{٣٠} مَا فِي بُطُونِ ذَيْنِ^{٣١}
فَرْثٍ وَدَمٍ لَبَنًا خَالِصًا^{سَائِغًا لِلْبَاشَرِينَ}

صَدَقَ اللَّهُ الْعَظِيمُ

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ABBREVIATIONS

Br. : Brucella.

T.A.T. : Tube agglutination test for brucellosis.

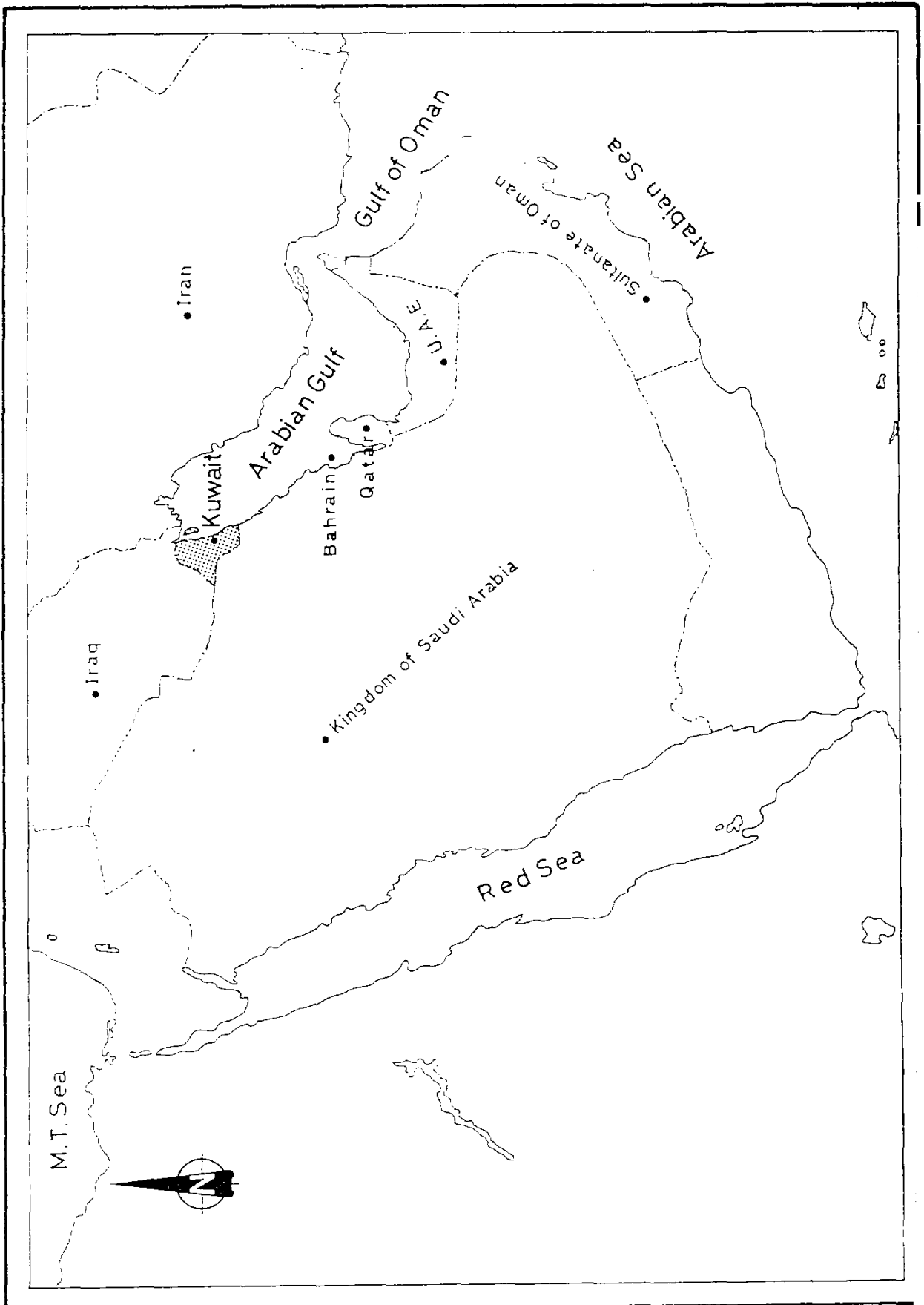
S.A.T. : Rose-Bengal slide agglutination test for
brucellosis.

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INTRODUCTION

Kuwait which is an inheritable principedom, is an arab Islamic Democratic state. The country is divided into four governorate: The City (The Capital), Hawalli, Ahmadi and Jahra. The total area of the state is 17,818 square kilometers. The state occupies the north-western corner of the Arabian Gulf which forms its eastern boundary. (Figure 1). In the South and West it is bounded by the kingdom of Saudi Arabia and in the north and west by the Republic of Iraq. (1) Due to Kuwait location in desert geographical province, its climate is characterized by long dry hot summer (average temperature 40°C and may exceeds 50°C) and sometimes short warm winter (temperature can fall to about 3°C by night). Rainfall has never exceeded 200 mm annually. Water supply is mainly from large sea water distillation plants. (2) The total population of Kuwait was 1.69 millions in 1985 (table 1). Kuwaitis constituted about 40 percent of the population in 1985 and expatriates constituted the other 60 percent. More than one hundred nationalities are present in Kuwait. The majority of the Arabs are from Jordan and Egypt (figure 2) and the Asian are from India, Sri Lanka and Pakistan. The male femal ratio of Kuwaitis was 0.9:1 while that of non-Kuwaitis was 1.6:1 in 1985. The age structure of the Kuwaiti segment of the population is typical of a young developing country (Figure 3. (1)

Fig.(1) Map of Kuwait



(Table 1)

Distribution of population by area of residence, nationality, and sex in Kuwait, census 1985.

Governorate	Population					
	Kuwaiti			Non-Kuwaiti		
	Male	Female	Total	Male	Female	Total
Capital (city)	29,693	30,845	60,538	74,023	33,307	107,230
Hawalli	129,077	129,841	258,918	405,874	279,647	685,521
Al-Ahmadi	73,425	74,404	147,829	103,370	53,863	157,233
Al-Jahra	106,601	107,402	214,003	43,234	22,792	66,029
Total	338,796	342,492	681,288	626,501	389,512	1,016,013

Source: Ministry of Planning (1986)