



Universiteit
Leiden
The Netherlands

Yiatrosafia yia ton Anthropon: Indigenous Knowledge of Medicinal, Aromatic and Cosmetic (MAC) Plants in the Utilisation of the Plural Medical System in Pírgos and Práitoria for Community Health Development in Rural Crete, Greece

Aiglsperger, J.

Citation

Aiglsperger, J. (2014, November 18). *Yiatrosafia yia ton Anthropon: Indigenous Knowledge of Medicinal, Aromatic and Cosmetic (MAC) Plants in the Utilisation of the Plural Medical System in Pírgos and Práitoria for Community Health Development in Rural Crete, Greece*. Retrieved from <https://hdl.handle.net/1887/29757>

Version: Corrected Publisher's Version

License: [Licence agreement concerning inclusion of doctoral thesis in the Institutional Repository of the University of Leiden](#)

Downloaded from: <https://hdl.handle.net/1887/29757>

Note: To cite this publication please use the final published version (if applicable).

Cover Page



Universiteit Leiden



The handle <http://hdl.handle.net/1887/29757> holds various files of this Leiden University dissertation.

Author: Aiglsperger, Judith

Title: Yiatrosafia via ton Anthropon: Indigenous Knowledge of Medicinal, Aromatic and Cosmetic (MAC) Plants in the Utilisation of the Plural Medical System in Pírgos and Práitoria for Community Health Development in Rural Crete, Greece

Issue Date: 2014-11-18

Yiatrosafia yia ton Anthropon:

Indigenous Knowledge of Medicinal, Aromatic and Cosmetic (MAC) Plants
in the Utilisation of the Plural Medical System in Pargos and Pratoria for
Community Health Development in Rural Crete, Greece

Yiatrosafia yia ton Anthropon:

Indigenous Knowledge of Medicinal, Aromatic and Cosmetic
(MAC) Plants in the Utilisation of the Plural Medical System in
Pirgos and Praitoria for Community Health Development in
Rural Crete, Greece

Proefschrift

ter verkrijging van

de graad van Doctor aan de Universiteit Leiden
op gezag van de Rector Magnificus Prof.mr. C.J.J.M. Stolker
volgens besluit van het College van Promoties
te verdedigen op dinsdag 18 november 2014
klokke 16.15 uur

door

Judith Aiglsperger
Geboren te Friesach, Oostenrijk
in 1984

Promotiecommissie:

Promotor: Prof. Dr. L. J. Slikkerveer

Overige Leden: Prof. Dr. E. F. Smets
Prof. Dr. C. Lionis (University of Crete, Greece)
Prof. Dr. A. Philalithis (University of Crete, Greece)
Dr. B. A. Reith

This study has been made possible thanks to the gracious support of the Leiden Ethnosystems and Development (LEAD) Programme of the Faculty of Science.
The Leiden University Fund (LUF) and the Erasmus Mobility Grant for Staff Training have kindly supported several visits to the research area in Crete, Greece.

Yiatrosafia yia ton Anthropon:

Indigenous Knowledge of Medicinal, Aromatic and Cosmetic (MAC)
Plants in the Utilisation of the Plural Medical System in Pirgos and
Praitoria for Community Health Development in Rural Crete, Greece

Judith Aiglsperger

Leiden Ethnosystems and Development (LEAD) Programme Studies No. 9
Faculty of Science, Leiden University, The Netherlands.

*For I realise today that it is a mortal sin to violate the great laws of nature.
We should not hurry, we should not be impatient, but we should confidently
obey the eternal rhythm.*

Nikos Kazantzakis
(Zorba the Greek 1946)

ISBN: 978-94-6203-694-9

Cover Design: Mrs. Sofia collecting Chamomile from the wild in Pirgos.

Photograph: J. Aiglsperger (2012).

Printed by: Wöhrmann Print Service, Zutphen.

Copyright © Judith Aiglsperger, 2014.

With the exception of brief citation, no part of this book may be reproduced, transmitted or utilised in any form or by any means, electronic or mechanical, including photocopying and recording as well as any information storage system, without the written permission from the copyright owner.

This dissertation is dedicated to the people I have met in Pirgos and Praitoria, who have shared their knowledge, support, passion, kindness, friendship and joy with me and who have made this journey an unforgettable experience.

Preface

Since my late childhood, I have felt drawn to the people living in the South of Europe, particularly to the European countries bordering the Mediterranean Sea. Born and raised in the South of Austria, I first became acquainted with the people, culture and language of Italy, to which I undertook repeated visits with my family and later on my own. In addition to Italy, it was not until I left to study International Development at the University of Vienna when I increased my interest in the South of Europe to include Spain and Portugal. I have since deepened my understanding of Northern Spain on a rather personal level. Whilst studying in Vienna, my decision to join the Exchange Programme of Erasmus for a year, which was originally supposed to take me to Naples, Italy, eventually brought me to Leiden in The Netherlands. Hereafter, it was in the rather different northwestern part of Europe where I was offered the opportunity to deepen my interest in the cultural dimension of development and people's indigenous knowledge systems, as it had been stimulated during my studies in Vienna.

Of all the classes, which I took during my academic year in Leiden, it was the Post-Graduate Course 'Medical Anthropology and Sociology of Developing Countries 2005-2006', coordinated by Prof. Dr. L.J. Slikkerveer, which fascinated me beyond my insomniac life as an Erasmus-student. I have always been convinced that the key to development must lie in the hands of the participants, that is of the local people, and that any development strategy imposed on people from the outside was bound to fail. In this respect, I have also come to realise that working in the field of development involves much more learning rather than teaching.

The local strategies applied by people in a way to deal with the challenges of everyday-life in various sectors of the society, such as medicine or agriculture, which are embedded in the socio-cultural context of every community, provide the evidence that these people share an invaluable knowledge about how to ensure their survival, not at least under the most difficult circumstances. The Course, which I followed during my Erasmus-year in Leiden, really struck a chord with me and provoked me to come back to Leiden a year later in order to write my MA-thesis on '*Native versus Naïve - The Role of Indigenous Knowledge in Sustainable Water Resource Management in Bali, Indonesia*' under the supervision of Prof. Dr. L.J. Slikkerveer. Following my return to Leiden, I was lucky to become acquainted with the Members of the 'Leiden Ethnosystems and Development (LEAD) Programme', which had initially been established in 1986 at the Department of Anthropology, but as an International Programme on Ethnoscience was later relocated to the Faculty of Science of Leiden University to specialise in the ethnoscience field of *Indigenous Knowledge Systems and Development* (IKS&D).

The LEAD Programme has supported the provision of a substantial number of studies, which have been carried out in various subfields of ethnoscience, such as ethnomedicine, ethno-agriculture, traditional ecological knowledge systems, ethnobotany and integrated microfinance management. The basis for these innovative studies has been laid by the specifically in Leiden developed methodology for the study of IKS, known as the '*Leiden Ethnosystems Approach*'. To be more precise, ethnosystems encompass local people's indigenous knowledge and practices, as well as their generations' long experience in culture-specific concepts, beliefs and perceptions. In this way, the 'Ethnosystems Approach' broadens the perspective of culture and allows for a study of cognitive and behavioural concepts in a rather holistic way, in which the participants' view is crucial. Furthermore, the approach adopts a more dynamic historical perspective on local systems of knowledge, practice and belief, thereby analysing processes of transculturation and acculturation, as well as the interaction between local and international knowledge systems. In view of these phenomena, it is the overall aim of the 'Leiden Ethnosystems Approach' to design practical models, in which indigenous and cosmopolitan knowledge systems are integrated and upon which community development can successfully be advanced, namely from a 'bottom-up' rather than from a 'top-down' perspective.

In this way, the Members and Associates of the LEAD Programme have conducted research in fields such as traditional medicine, Traditional Ecological Knowledge (TEK) and Indigenous Agricultural Knowledge Systems (INDAKS), thereby elaborating a comparative analytical model for INDAKS. In the international debate on IKS, the LEAD Programme established together with the 'Centre for Indigenous Knowledge for Agriculture and Rural Development' (CIKARD) at Iowa State University in 1987 the *Global Network for Indigenous Knowledge Systems* and has contributed to the establishment of national IKS Research Centers in different countries, such as the Kenyan Resource-Centre for Indigenous Knowledge (KENRIK) of the National Museums of Kenya in Nairobi and the Indonesian Resource-Centre for Indigenous Knowledge (INRIK) of Padjadjaran University in Bandung. In partnership with CIKARD, the LEAD Programme has not only initiated a network of individuals and experts working in the fields of indigenous knowledge, but has also advocated the publication of the *IK Newsletter*, which provided a sound basis for the later publication of the *Indigenous Knowledge and Development (IK&D) Monitor* between 1993 and 2001 with the 'Centre for International Research and Advisory Networks' (CIRAN) in The Hague, The Netherlands. In cooperation with KENRIK, INRIK, the Department of Social and Family Medicine of the University of Crete (UoC) and the Mediterranean Agronomic Institute of Chania (MAICH) in Crete, Greece, the LEAD Programme moreover oversaw a series of publications in the *Indigenous Knowledge Systems Research and Development Studies* (cf. Slikkerveer 1989; Leakey & Slikkerveer 1991b; Slikkerveer 1995; Slikkerveer & Quah (2003).

Since 1987, the LEAD Programme has maintained a close collaboration with the University of Crete in Greece in an effort to enable students to receive post-graduate fieldwork training and to carry out research in rural Crete. As Slikkerveer (1997: 20) explains: '*In the field of research and fieldwork training in the Mediterranean region, LEAD initiated in 1987 a collaboration programme with the University of Crete and the Spili Health Centre in Crete, in which specific attention was given to medical anthropological research in the use of traditional herbal medicine in rural Crete*'. While the main counterpart in Crete was originally located at the Regional Health Centre of Spili in the Prefecture of Rethymnon, collaboration between the LEAD Programme and the University of Crete nowadays involves primarily the Department of Social and Family Medicine, located at the University of Crete in Iraklion (cf. Slikkerveer & Dechering 1995). On the basis of this collaboration, the area of rural Central Crete has been subject to community-based research on various topics, such as local medical knowledge systems, utilisation of Medicinal, Aromatic and Cosmetic (MAC) plants, the use of herbs in the local diet and for the treatment of specific diseases, the doctor-patient relationship, utilisation of over-the-counter medicines, the phenomenon of the illness-management groups, maternal and child health, aging and longevity, as well as local perceptions of health care delivery. This impressive body of community-oriented research has accumulated in about 20 MA-Theses over a period of time of about 25 years (cf. Map 0.1).

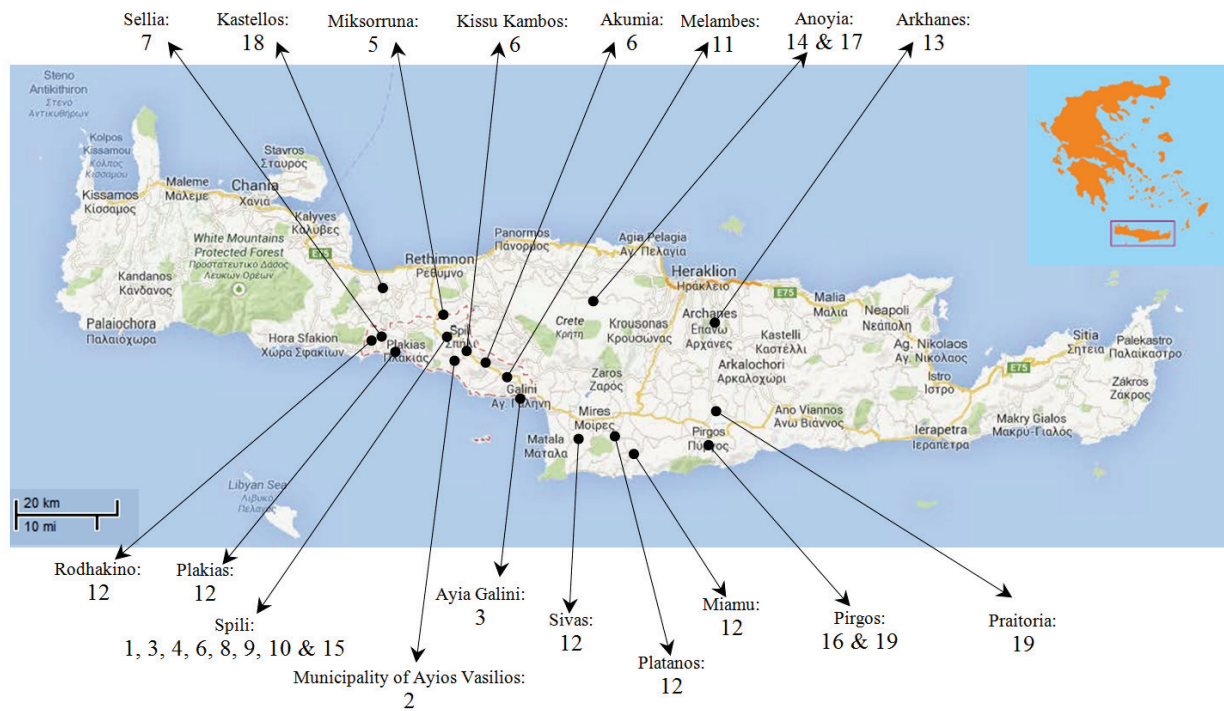
It is within the context of the collaboration between the LEAD Programme of Leiden University and the Department of Social and Family Medicine at the University of Crete that I as a Member of the LEAD Programme was offered the unique opportunity to conduct PhD-research on the topic of indigenous knowledge and practice of MAC plants within the process of health care utilisation by the local people in rural Crete. In this way, I have been able to not only pursue my interest in people's indigenous knowledge systems, but also to combine this interest with my passion for the Mediterranean Region.

With this research, I hope to make my own contribution to the aspect of development in terms of promoting community health among a population group living in rural Crete. The present study follows an alternative and more sustainable approach on the basis of advancing the concept of *Indigenous Knowledge Systems and Development* (IKS&D) within the field of medicine and hereby links up with the comprehensive strategy of community health development (cf. Slikkerveer 1995). My research took off around the time when Greece was faced with one of the biggest financial crises of its recent history, thereby providing a new impetus to the concept of

community development in this part of Europe. Moreover, with this study I hope to give a voice to the local people, who have recently had to deal with growing criticism from the outside about their traditional ways of life and cultural habits, and who have been asked to adapt to externally designed adjustment programmes. Instead of hearing the latest news, I chose to listen to the inhabitants of rural Crete, who have not only overwhelmed me with their knowledge and wisdom, but have also reinforced my belief that the key to development in fact lies in the hands of the participants. In this respect, I have come to realise that this part of the Mediterranean Region, albeit its relative scarce financial resources, is rich in indigenous knowledge and practices of bio-cultural diversity conservation.

Eventually, I had to ask myself whether a population group, which is rich in indigenous knowledge and bio-cultural diversity, may perhaps be better suited to deal with a major socio-economic crisis than a similar group, which lacks such great knowledge and diversity. In view of the fact that a financial crisis could hit any country at any moment, it is not unimaginable that one day, the experts will look at this part of Europe to find answers on how to deal with socio-economic crisis.

Once more, I have been reassured that development work is more successful when it applies a learning- rather than a teaching-approach. In conclusion, I herewith hope to inspire others and not the least myself to continue on this path towards the provision of an audience to those, who are rarely heard, but who have so much to say.



Legenda:

-- The Municipality of Ayios Vasilios

- (1) 'De Gezondheidszorg in Ontwikkeling op het Platteland van Kreta: Een descriptief en exploratief Medisch-Anthropologisch Onderzoek' (Visser 1986)
- (2) 'Obstetrische Zorg voor Provincie Aghios Vassilios, Kreta' (Neus 1989)
- (3) 'Het District Ag. Vasiliou: Een Beschrijving van de Gezondheidszorg en een Sociografisch Profiel van de Bevolking' (Smak Gregoor & Zwiép 1990)
- (4) 'Aged People and Illnesses on Crete' (Van Beelen 1990)
- (5) 'The Medical Knowledge System in Mixorouma (Crete): A Comparison between two Generations' (Van der Hoeven 1992)
- (6) 'Maternal and Child Health in the Area Agios Vasilios, Crete: A descriptive Inquiry to the Beliefs and Practices of Young Mothers and Pregnant Women regarding Child Care' (Van Bommel 1993)
- (7) '"Blood is Thicker than Water": The Role of the Illness-Management Group towards the Patient in the Village Sellia, Crete' (Van de Kerk 1993)
- (8) *Research Proposal*: 'Indigenous Knowledge of Medicinal Plants of Crete, Greece: The Use of Medicinal Plants against Rheumatic Diseases' (Van der Steur 1993)
- (9) 'Implementation of Primary Health Care in Agios Vasilios District' (Wondimu 1993)
- (10) 'The Use of Over the Counter Drugs in Rural Crete' (Hanepen 1997)
- (11) 'Changing Perspectives: The Doctor-Patient Relationship in Crete' (Hagoort 1998)
- (12) 'Indigenous Medical Knowledge and Use of Medicinal Plants in Crete' (Legel 1998)
- (13) 'Στην υγεία!!! Local Medical Knowledge and Practice in Rural Crete' (Molenaar 1999)
- (14) 'Primary Health Care in Greece: A Focus on Hepatitis A in a Rural Area of Crete' (Bouma 2000)
- (15) 'Health and Illness in Rural Crete' (Van den Akker 2002)
- (16) 'The Use of Local Herbs in the Traditional Cretan Diet: Its Effect on Dyspepsia' (Palstra 2003)
- (17) 'Herbs in Treating Dyspepsia: The Use of Herbs in the Overall Treatment of Dyspepsia in Anogeia (Crete)' (Dijkstra 2005)
- (18) 'The Role of Socio-Cultural Factors in the Use of Medicinal and Aromatic Plants in Relation to Human Longevity' (De Vries 2007)
- (19) present study

Map 0.1 Community-based Research carried out in Crete between 1986 and 2014.

Source: LEAD Archives; Map data ©2014 Google (*edited*).

Acknowledgements

The present study would not have been possible without the wholehearted support of a number of individuals, who have assisted me during the different stages of my research, from the first acquaintance with this topic and field to the months of fieldwork, the analysis of data and the eventual writing-up of this dissertation.

In this way, I am deeply thankful to my Supervisor and ‘Promotor’ Prof. Dr. L.J. Slikkerveer, who has supported my scholarly ambitions from the very first moment and has offered me his expert guidance and professional advice throughout the course of this research. I, furthermore, express my profound gratitude to Mrs. Drs. M.K.L. Slikkerveer MA, who has provided me with assistance, advice and kindness over the years. I would moreover like to thank Prof. Dr. C. Lionis of the University of Crete, Greece, who has given me invaluable support and advice, particularly during the periods of fieldwork. Hereafter, I would like to say special thanks to Prof. Dr. G.R. de Snoo, Dean of the Faculty of Science, Drs. G.J. van Helden, Director of the Faculty of Science, Prof. Dr. E.F. Smets, Scientific Director of the Naturalis Biodiversity Center, Prof. Dr. P. Baas and Dr. B. Gravendeel of the Naturalis Biodiversity Center and Dr. B.A. Reith of Leiden University. Similarly, I express my sincere gratitude to Prof. Dr. A. Philalithis and Prof. Dr. I.G. Pallikaris of the University of Crete, Greece.

Regarding the completion of my fieldwork, I am extremely thankful for the advice and support given to me by Dr. F. Anastasiou and Mrs. G. Aspraki as well as by the staff of the Department of Social and Family Medicine of the University of Crete. Furthermore, I am indebted to Mr. P. Emmanouilidis and Mrs. P.M. Mens-Omtzigt as well as to Mr. A. Frogakis for helping me to overcome the challenges of the Greek language. Hereafter, I would like to express my sincere thanks to a number of people, who have assisted me during the stage of data collection in Pirgos and Praitoria: Mrs. E. Martavatzi and her family; Mr. P. Mihelakis; Mr. M. and Mrs. A. Karkavatsos; Pater K. Kopanakis and his family; Pater K. Papadopoulos and his family; Mr. A. and Mrs. S. Tsirigotakis; Mrs. F. Velegraki and her family; Mrs. M. Mihelaki; Mr. Y. Lazaridis; Mr. Y. Kefalakis; Mr. Spiros and Mrs. Kleanthi from Pirgos; Mrs. Eleni from Pirgos; Mrs. Georyia from Praitoria; and Mr. Y. Stamatakis and his family. Moreover, I express my gratefulness to the Editor of my draft manuscript and to Mr. X. Larrañaga Garcia de Baquedano for their contribution to the editing of my dissertation.

I also wish to acknowledge the gracious support, assistance and useful advice given to me during the various stages of this research by the fellow Members of the Leiden Ethnosystems and Development (LEAD) Programme, particularly: Mr. Drs. J.C.M. de Bekker; Mrs. R. La Grange MA, Mrs. Dr. L.N. Leurs; Mr. Dr. M.M. Chirangi; Mrs. Dr. S.C. Djen Amar; Mrs. Dr. P. Ambaretnani; Mrs. Dra. W. Erwina MA; Mr. K. Saefullah M.Ec., Mr. H. Dimas M.Ec.; Mrs. H. Rainathami M.Si.; Mr. N. Prahatmaja S.Sos., M.A.; Mr. P.M. Maundu MA; Dr. H. Boon-Chuan and Mr. D. van Helden LLM. Likewise, I would like to thank the following friends and associates of the LEAD Programme, who have supported this research over the years: Drs. L.E.H. and Mrs. G. Vredevoogd; Mr. A.A.E. Bakker; Dr. J.B. Mols and Mrs. H. de Wolf.

Furthermore, I owe much to my friends in The Netherlands, in Austria and elsewhere, whereby I would like to recognise the support and friendship of Mr. Dr. A.G. Reed, Mrs. A.S. Tadjoeidin and Mrs. Dr. A.M. Towns. Furthermore, I would like to express my sincere gratitude to the members of my immediate and extended family, particularly to my parents Mag. K.H. and Dipl.-Päd. U. Aiglsperger, to my sister Mag. I. Aiglsperger and to my brother Mr. K. Aiglsperger as well as to my parents-in-law Mr. A. Larrañaga Odiaga and Mrs. M.C. Perez Badiola for their support and appreciation. Finally, I would like to express my most heartfelt gratitude to my husband Mr. J.A. Larrañaga Perez MSc, who has stood by me offering invaluable help, infinite patience and love at all times and without whom I would not have been able to make this journey.

Contents

Preface		xi
Acknowledgements		xv
List of Tables		xx
List of Figures		xxii
List of Illustrations		xxii
List of Maps		xxiii
Transliteration		xxiv
Chapter I	INTRODUCTION	1
1.1	The Great Cretan Heritage of Herbal Medicine	4
1.1.1	Crete: The Cradle of European Civilisation	4
1.1.2	MAC Plants: The Fame of Cretan Dittany (<i>Origanum Dictamnus</i> L.)	8
1.1.3	<i>Stin Iyia Mas</i> : The Local Wish of Good Health	11
1.2	The Challenge of the Study of Medical Pluralism	12
1.2.1	The New Paradigm of Indigenous Knowledge Systems (IKS)	12
1.2.2	The Concept of Medical Pluralism in Rural Crete	14
1.2.3	The Importance of the Voice of the Community	15
1.3	A New Approach to Community Health Promotion	18
1.3.1	The Significance of the Study of MAC Plants in Crete	18
1.3.2	Advanced Research in Patterns of Health and Illness Behaviour	19
1.3.3	From Primary Health Care to Community Health Development	21
1.4	General Aim and Specific Objectives	24
1.5	Structure of the Study	25
Chapter II	THEORETICAL ORIENTATION	29
2.1	Medical Traditions and Developments	29
2.1.1	Humoural Medicine and Healing in Ancient Greece	29
2.1.2	Between Indigenous and Cosmopolitan Medicine	33
2.1.3	The Revival of Herbal Medicine	37
2.2	The New Field of Ethnoscience	40
2.2.1	Ethnobotanical Knowledge Systems (EKS)	40
2.2.2	Ethnomedicine and Medical Anthropology	44
2.2.3	Medicinal, Aromatic and Cosmetic (MAC) Plants	46
2.3	Promotion of Community Health	49
2.3.1	Primary Health Care and Community Health	49
2.3.2	The Health Care Seeking Process	52
2.3.3	The Utilisation of Medical Systems	55
2.4	Components of Plural Medical Systems	57
2.4.1	The Traditional Medical System	57
2.4.2	The Transitional Medical System	59
2.4.3	The Modern Medical System	62

Chapter	III	RESEARCH METHODOLOGY	65
	3.1	Choice of Research Strategies	66
	3.1.1	The ‘Leiden Ethnosystems Approach’	66
	3.1.2	The Multivariate Model of Transcultural Health Care Utilisation	67
	3.1.3	Operationalisation of the Conceptual Model	72
	3.2.	Research Methods and Techniques	78
	3.2.1	Selection of the Research Area	78
	3.2.2	Target and Sample Population	79
	3.2.3	Development of Research Instruments	80
	3.3	Data Collection and Analysis	81
	3.3.1	Qualitative Data Collection: Key-Informants	81
	3.3.2	Quantitative Data Collection: Household Surveys	83
	3.3.3	Data Analysis	84
Chapter	IV	RESEARCH SETTING: GREECE AND CRETE	89
	4.1	Greece: Focus on the Mediterranean Region	89
	4.1.1	The Geography of Greece in the Mediterranean Region	89
	4.1.2	Greece: History and Recent Developments	94
	4.1.3	Culture, Population and the Greek Orthodox Church	98
	4.2	Crete: The Largest Island of Greece	100
	4.2.1	Geography, Climate and Flora of Crete	100
	4.2.2	The Unique History of Crete	103
	4.2.3	Socio-Economic Developments and Cultural Icons	105
Chapter	V	THE COMMUNITIES OF PIRGOS AND PRAITORIA	109
	5.1	Between the Asterousia Mountains and the Mesara Plain	109
	5.1.1	Location of the Research Communities in South-Central Crete	109
	5.1.2	Administration, Surroundings and Size	113
	5.1.3	Patterns of Migration and Settlement	115
	5.2	Characterisation of the Local Population	119
	5.2.1	Age, Gender and Communal Networks	119
	5.2.2	Nationality, Religion and Cretan Character	126
	5.2.3	Education, Occupation and Socio-Economic Profile	128
	5.3	Social Organisation of the Research Communities	135
	5.3.1	Housing and Communal Institutions	135
	5.3.2	Adhering to the Religious Canon: A Selection of Rituals and Celebrations	138
	5.3.3	Spiritual Belief, Calendar and the Local Diet	143
Chapter	VI	THE PLURAL MEDICAL SYSTEM IN CRETE	149
	6.1	A Historical Perspective on Medicine in Crete	149
	6.1.1	Early Forms of Medical Practice	149
	6.1.2	The Development of the Plural Medical System	151
	6.2	The Traditional Medical System	152
	6.2.1	Traditional Medicine and <i>Yiatrosofia</i>	152
	6.2.2	Between <i>Votana</i> and <i>Yities</i> : The Traditional Medical System	156
	6.2.3	The Provision of Traditional Health Care	166
	6.3	The Transitional Medical System	170
	6.3.1	The Extension of the Transitional Medical System	170
	6.3.2	Local Examples of Commercial Pharmaceutical Medicines	172
	6.3.3	The Provision of Commercial Pharmaceutical Health Care	173

	6.4	The Modern Medical System	176
	6.4.1	The Greek National Health Care System	176
	6.4.2	The Availability of Modern Health Care in Rural Crete	181
	6.4.3	The Provision of Modern Health Care	186
Chapter	VII	COMMUNITY HEALTH CARE IN CRETE	191
	7.1	Health and Illness in Rural Crete	191
	7.1.1	General Profile of Health and Disease	191
	7.1.2	The Perception and Promotion of Health	195
	7.1.3	Local Concepts of Illness	199
	7.2	Reported Illnesses and Patterns of Health Care Utilisation	206
	7.2.1	Health and Illness in the Research Area	206
	7.2.2	Utilisation of the Plural Medical System	212
	7.2.3	Specific Patterns of Illness Behaviour	216
	7.3	Utilisation of the Plural Medical System	219
	7.3.1	Utilisation of the Traditional Medical System	219
	7.3.2	Utilisation of the Transitional Medical System	221
	7.3.3	Utilisation of the Modern Medical System	223
Chapter	VIII	PATTERNS OF TRANSCULTURAL HEALTH CARE UTILISATION BEHAVIOUR	227
	8.1	Preparation of the Data Set	227
	8.1.1	Factors and Variables	227
	8.1.2	Independent and Intervening Variables	230
	8.1.3	Dependent Variables	237
	8.2	Quantitative Data Analysis	239
	8.2.1	Bivariate and Mutual Relations Analysis	239
	8.2.2	Nonlinear Canonical Correlation Analysis: OVERALS	253
	8.2.3	Multiple Regression Analysis	260
	8.3	Results of the Analysis and Interpretation of Findings	263
	8.3.1	The Differential Utilisation of the Plural Medical System	263
	8.3.2	Determinants of Health Care Utilisation Behaviour	265
	8.3.3	Influence of Qualitative Factors on Behavioural Patterns	273
Chapter	IX	CONCLUSION	275
	9.1	Conclusions	275
	9.2	Implications of the Research	285
	9.2.1	Theoretical Implications of the Research	285
	9.2.2	Methodological Implications of the Research	286
	9.2.2	Practical Implications of the Research	287
Bibliography			289
Appendix			309
Summary			321
<i>Samenvatting</i>			328
<i>Curriculum Vitae</i>			336

List of Tables

3.1	Independent Predisposing Factors: Socio-Demographic Factors.	74
3.2	Independent Predisposing Factors: Psycho-Social Factors.	75
3.3	Independent Enabling Factors.	75
3.4	Independent Perceived Morbidity Factors.	76
3.5	Independent Institutional Factors.	76
3.6	Intervening Factors.	77
3.7	Dependent Health Care Utilisation Factors.	77
5.1	The Population of the former Municipality of Asterousia (2001).	114
5.2	The Sample or Study Population of the Two Research Communities of Pírgos and Praitória (N=656).	114
5.3	Distribution of the Place of Birth of the Household Members of the Sample over the Two Research Communities (N=656).	115
5.4	Distribution of the Place of Birth of the Household Members of the Sample in the Municipality of Arkhanes-Asterousia over the Two Research Communities (N=656).	116
5.5	Distribution of the Age of the Household Members of the Sample over the Two Research Communities (N=656).	119
5.6	Distribution of the Gender of the Household Members of the Sample over the Two Research Communities (N=656).	120
5.7	Distribution of the Marital Status of the Household Members of the Sample over the Two Research Communities (N=656).	122
5.8	Distribution of the Size of the Household of the Sample over the Two Research Communities (N=656).	123
5.9	Distribution of the Relationship of the Household Members of the Sample to the Household Head over the Two Research Communities (N=656).	124
5.10	Distribution of the Nationality of the Household Members of the Sample over the Two Research Communities (N=656).	126
5.11	Distribution of the Religious Affiliation of the Household Members of the Sample over the Two Research Communities (N=656).	127
5.12	Distribution of the Level of Education Completed by the Household Members of the Sample over the Two Research Communities (N=656).	128
5.13	Distribution of the Main Occupation of the Household Members of the Sample over the Two Research Communities (N=656).	129
5.14	Distribution of the Estimated Annual Income of the Households of the Sample in Euro over the Two Research Communities (N=293).	134
5.15	Distribution of the Socio-Economic Status (SES) of the Household Members of the Sample over the Two Research Communities (N=656).	134
6.1	The Plural Medical System in Rural Crete.	151
6.2	Distribution of the Opinion on the Traditional Medical System of the Household Members of the Sample over the Two Research Communities (N=656).	155
6.3	Distribution of the Knowledge of the Traditional Medical System of the Household Members of the Sample over the Two Research Communities (N=656).	155
6.4	Emic Classification of MAC Plants and other Traditional Home Remedies.	157
6.5	List of Names of the 20 most frequently reported MAC Plants in the Research Area.	158
6.6	Distribution of the Accessibility of Institutions of the Traditional Medical System perceived by the Household Members of the Sample over the Two Research Communities (N=656).	169
6.7	Distribution of the Opinion of the Household Members of the Sample on the Transitional Medical System over the Two Research Communities (N=656).	172
6.8	Distribution of the Knowledge of the Transitional Medical System of the Household Members of the Sample over the Two Research Communities (N=656).	172

6.9	Distribution of the Accessibility of Institutions of the Transitional Medical System perceived by the Household Members of the Sample over the Two Research Communities (N=656).	176
6.10	Distribution of the Social Insurance Coverage of the Household Members of the Sample over the Two Research Communities (N=656).	179
6.11	Distribution of the Opinion of the Household Members of the Sample on the Modern Medical System over the Two Research Communities (N=656).	184
6.12	Distribution of the Knowledge of the Modern Medical System of the Household Members of the Sample over the Two Research Communities (N=656).	185
6.13	Distribution of the Accessibility of Institutions of the Modern Medical System perceived by the Household Members of the Sample over the Two Research Communities (N=656).	189
7.1	Main Causes of Death in Greece between 1990 and 2008 (standardised mortality rates/100 000 population).	192
7.2	Local Classification of Illnesses.	202
7.3	Distribution of the General Health Status of the Household Members of the Sample over the Two Research Communities (N=656).	206
7.4	List of reported Illnesses in the Research Area.	207
7.5	Rates of the Household Members' Utilisation of the Plural Medical System (N=452).	214
7.6	Frequency of the Utilisation of the Plural Medical System by the Household Members (N=452).	214
7.7	Distribution of the Utilisation of the Plural Medical System of all Patients of the Sample over the Two Research Communities (N=452).	215
8.1	Block of Factors, Names and Labels of all 30 Variables identified within the Multivariate Model of Transcultural Health Care Utilisation.	229
8.2	Distribution of the Socio-Demographic Variables of Respondents of the Sample over the Dependent Variables (N=452).	241
8.3	Distribution of the Psycho-Social Variables of Respondents of the Sample over the Dependent Variables (N=452).	245
8.4	Distribution of the Enabling Variables of Respondents of the Sample over the Dependent Variables (N=452).	246
8.5	Distribution of the Perceived Morbidity Variables of Respondents of the Sample over the Dependent Variables (N=452).	248
8.6	Distribution of the Institutional Variables of Respondents of the Sample over the Dependent Variables (N=452).	251
8.7	Distribution of the Intervening Variable of the Respondents of the Sample over the Dependent Variables (N=452).	252
8.8	Component Loadings of the two Sets of Variables with a Total of 30 Variables on two Dimensions (N=452).	257
8.9	List of Multiple Correlation Coefficients (ρ) calculated by means of a Multiple Regression Analysis of the Nine Blocks of Factors on two Dimensions (N=452).	261

List of Figures

3.1	'Model of Stages in the Health Care Process'.	68
3.2	Conceptual Model of Transcultural Health Care Utilisation.	72
4.1	Uses of Wild Plants throughout the Mediterranean Region (plants have been reported to the MEDUSA database and are all native to the Mediterranean Region).	91
5.1	Frequency of the Age of the Household Members of the sample divided by the Gender of the Household Members of the sample (N=656).	121
5.2	'The Year for the Villagers of Magoulas'.	145
6.1	Flows of Financing and Delivery of Modern Health Care in Greece.	181
7.1	Decision Tree Illustrating the Patterns of Health Care Utilisation of all Patients of the Sample (N=656).	213
8.1	Model of the Mutual Relation Analysis of the Blocks of Variables.	254
8.2	Graphic Representation of the Projection of the Component Loadings of the two Sets of Variables onto the Canonical Space with a Total of 30 Variables on two Dimensions (N=452).	258
8.3	The Final Model of Transcultural Health Care Utilisation indicating the Strength of the Correlations between the Blocks of Variables.	264

List of Illustrations

1.1	Illustration from the <i>Juliana Codex</i> showing the Greek herbalist Pedanius Dioscorides receiving the Mandrake plant (<i>Mandragora officinarum</i>) from Heurisis, the Goddess of Discovery.	2
1.2	The famous Snake Goddess from Knossos (circa. 1600-1550 B.C.), discovered in 1903 by the British archaeologist Arthur Evans on the site of the 'Palace' of Knossos in Crete.	5
1.3	Illustration of the famous ancient fresco 'Prince of Lilies' at Knossos (circa 1550 B.C.), underscoring the significance of lilies as decorative flowers in the Minoan civilisation.	6
1.4	Cretan Dittany (<i>Origanum dictamnus</i> L.) cultivated in a pot next to a drawing of the legendary goat on a wooden stem.	10
4.1	Church of the Holy Trinity in Praitoria.	100
4.2	Mount <i>Yiukhtas</i> seen from Iraklion.	102
4.3	The Minoan Palace in Malia.	104
4.4	Tourism and caves along the beach in Matala.	106
5.1	Anapodaris River in Praitoria.	112
5.2	View of the Community of Pirgos from the south-eastern hillside against the backdrop of the Mesara Plain with the row of Eucalyptus trees framing the road between Praitoria and Kharakas. In the front, there are the ruins of the Venetian Occupation with the 'Kaloyeriko' on the western hillside on the left.	117
5.3	View of the Community of Praitoria from the South against the backdrop of the south-eastern foothills of the Psiloritis Mountain.	118
5.4	Olive Cultivation in Pirgos in Crete.	131
5.5	Rural Field House in South-Central Crete.	136
5.6	Icons and <i>Epitahphios</i> at the Church of Ayia Irini in Pirgos, Crete.	141
5.7	Traditional Egg Tapping on Easter Sunday.	141
6.1	Book on MAC Plants offered with an Edition of the TiVo Magazine.	154
6.2	Dried Chamomile (<i>Chamomilla recutita</i> (L.) Rauschert / <i>Matricaria chamomilla</i> L. / <i>Matricaria recutita</i> L.).	160

6.3	Votive Offerings in the Ayios Titos Cathedral in Iraklion.	165
6.4	The ‘ <i>Liokurno</i> ’ flanked by two branches of Marjoram (<i>Origanum majorana</i> L. / <i>Origanum microphyllum</i> (Bentham) Boiss.).	166
6.5	Sale of MAC Plants at the weekly market in Iraklion.	170
6.6	The Pharmacy at the western edge of the Market Street in Pírgos.	174
6.7	A shop specialised in the sale of MAC Plants in Iraklion.	175
6.8	The waiting room at the Health Post in Pírgos.	182
6.9	The waiting room at the Health Post in Práitoria	183

List of Maps

0.1	Community-based Research carried out in Crete between 1986 and 2014.	xiv
1.1	<i>Candia olim Creta</i> , hand coloured map of Crete (formerly Candia) and surrounding islands from the Latin edition of W.J. Blaeu’s Atlas Novus (1642).	7
4.1	The Mediterranean Sea.	90
4.2	Map of Greece.	92
4.3	Map of Crete.	101
5.1	The Two Research Communities in South-Central Crete.	111
5.2	Map of the Community of Pírgos, Crete.	117
5.3	Map of the Community of Práitoria, Crete.	118

Transliteration

Throughout the present study, a number of Greek words are transliterated into English. To be more precise, transliteration is applied to those words, for which no appropriate English translation has been found in the relevant literature. In this way, the majority of Greek concepts, expressions and phrases as well as local names of people, places and plants are transliterated into English. Conversely, the official English word is used to refer to historical and mythological figures and events, as well as to certain geographical locations. In order to transliterate from Greek to English in an adequate fashion, this study adopts the style suggested by Kenna (2001), who follows the format recommended by the *Journal of Modern Greek Studies*, as follows:

α	a	φ	f
β	v	χ	kh before a, o, u, consonants & after s h before i, e (except after s)
γ	gh before a, o, u & consonants y before i, e	ψ	ps
δ	dh	ω	o
ε	e	αι	e
ζ	z	αι	ai
η	i	γγ	ng
θ	th	γκ	g initially ng medially
ι	i	γχ	nh
κ	k	αι	ai
λ	l	ει	i
μ	m	ευ	ef before voiceless consonants ev before vowels, voiced consonants
ν	n	μπ	b initially mb medially
ξ	ks	ντ	d initially nd medially
ο	o	οι	i
π	p	οι	oi
ρ	r	ου	u
σ, ς	s	οϋ	oi
τ	t	ωι	oi
υ	i		