Indigenous Peoples' food systems & well-being interventions & policies for healthy communities

Edited by 🦃 HARRIET V. KUHNLEIN 📽 BILL ERASMUS 📽 DINA SPIGELSKI 📽 BARBARA BURLINGAME

The designations employed and the presentation of material in this information product do not imply the expression of any opinion whatsoever on the part of the Food and Agriculture Organization of the United Nations (FAO) concerning the legal or development status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. The mention of specific companies or products of manufacturers, whether or not these have been patented, does not imply that these have been endorsed or recommended by FAO in preference to others of a similar nature that are not mentioned.

The views expressed in this information product are those of the author(s) and do not necessarily reflect the views or policies of FAO.

ISBN 978-92-5-107433-6

© FAO 2013

FAO encourages the use, reproduction and dissemination of material in this information product. Except where otherwise indicated, material may be copied, downloaded and printed for private study, research and teaching purposes, or for use in non-commercial products or services, provided that appropriate acknowledgement of FAO as the source and copyright holder is given and that FAO's endorsement of users' views, products or services is not implied in any way.

All requests for translation and adaptation rights, and for resale and other commercial use rights should be made via www.fao.org/contact-us/licence-request or addressed to copyright@fao.org.

FAO information products are available on the FAO website (www.fao.org/publications) and can be purchased through publications-sales@fao.org.

For further information, please contact:

Nutrition Division,
Food and Agriculture Organization
of the United Nations,
Viale delle Terme di Caracalla, 00153 Rome, Italy
E-mail: nutrition@fao.org / Web site: www.fao.org

Harriet V. Kuhnlein Centre for Indigenous Peoples' Nutrition and Environment (CINE), McGill University 21,111 Lakeshore Rd., Ste. Anne de Bellevue, Quebec, Canada Fax (1) 514 398 1020

E-mail: harriet.kuhnlein@mcgill.ca Web site: www.mcgill.ca/cine

Table of contents

ix Preface

Myrna Cunningham, United Nations Permanent Forum on Indigenous Issues

米

xi Foreword

Bill Erasmus, Assembly of First Nations and Dene Nation

类

xiii Acknowledgements

OVERVIEWS

3 Chapter 1

Why do Indigenous Peoples' food and nutrition interventions for health promotion and policy need special consideration? Harriet V. Kuhnlein and Barbara Burlingame

9 Chapter 2

Health disparities: promoting Indigenous Peoples' health through traditional food systems and self-determination *Grace M. Egeland and Gail G. Harrison*

23 Chapter 3

Global environmental challenges to the integrity of Indigenous Peoples' food systems

Nancy J. Turner, Mark Plotkin and Harriet V. Kuhnlein

39 Chapter 4

Infant and young child complementary feeding among Indigenous Peoples

Grace S. Marquis, Susannah Juteau, Hilary M. Creed-Kanashiro and Marion L. Roche

X CASE STUDIES

53 Chapter 5

Promotion of traditional foods to improve the nutrition and health of the Awajún of the Cenepa River in Peru Hilary M. Creed-Kanashiro, Miluska Carrasco, Melissa Abad and Irma Tuesta

75 Chapter 6

The Dalit food system and maternal and child nutrition in Andhra Pradesh, South India
Buduru Salomeyesudas, Harriet V. Kuhnlein, Martina A. Schmid,
Periyapatna V. Satheesh and Grace M. Egeland

101 Chapter 7

Gwich'in traditional food and health in Tetlit Zheh, Northwest Territories, Canada: phase II Harriet V. Kuhnlein, Lauren Goodman, Olivier Receveur, Dina Spigelski, Nelida Duran, Gail G. Harrison, Bill Erasmus and Tetlit Zheh

121 Chapter 8

Inga food and medicine systems to promote community health *Sonia Caicedo and Ana María Chaparro*

141 Chapter 9

The value of Inuit elders' storytelling to health promotion during times of rapid climate changes and uncertain food security *Grace M. Egeland, Sennait Yohannes, Looee Okalik, Jonah Kilabuk, Cassandra Racicot, Marcus Wilcke, Johnny Kuluguqtuq and Selina Kisa*

159 Chapter 10

Culture-based nutrition and health promotion in a Karen community Solot Sirisai, Sinee Chotiboriboon, Praiwan Tantivatanasathien, Suaijeemong Sangkhawimol and Suttilak Smitasiri

177 Chapter 11

The Nuxalk Food and Nutrition Program for Health revisited Nancy J. Turner, Wilfred R. Tallio, Sandy Burgess and Harriet V. Kuhnlein

191 Chapter 12

Let's Go Local! Pohnpei promotes local food production and nutrition for health

Lois Englberger, Adelino Lorens, Podis Pedrus, Kiped Albert, Amy Levendusky, Welsihter Hagilmai, Yumiko Paul, Pelihna Moses, Rally Jim, Sohse Jose, Douglas Nelber, Gibson Santos, Laura Kaufer, Kathay Larsen, Moses E. Pretrick and Harriet V. Kuhnlein

221 Chapter 13

Tasty *tonoto* and not-so-tasty *tonoto*: fostering traditional food culture among the Ainu people in the Saru River region, Japan *Masami Iwasaki-Goodman*

FUTURE DIRECTIONS

237 Chapter 14

What food system intervention strategies and evaluation indicators are successful with Indigenous Peoples? Harriet V. Kuhnlein

257 Chapter 15

Human rights implications of Indigenous Peoples' food systems and policy recommendations

Siri Damman, Harriet V. Kuhnlein and Bill Erasmus

279 Chapter 16

Policy and strategies to improve nutrition and health for Indigenous Peoples

Harriet V. Kuhnlein, Barbara Burlingame and Bill Erasmus

0			
0			
0			
米			
*			
*			
*			
米			
米			
米			
米			
米			
ij.			

297	References
231	1 CICICIICCS

Appendices

- 355 Identifying Indigenous Peoples
- 358 United Nations Declaration on the Rights of Indigenous Peoples
- 366 The Right to Food and Indigenous Peoples FAO Document
- 370 AFROFOODS Call for action
- **371** Index

Photographic section (out of text)

Indigenous Peoples have historically faced the denial of their rights, been victims of ancestral knowledge theft and experienced the destruction of their livelihoods. Nevertheless, they still possess rich and diverse cultural knowledge, language, values, traditions, customs, symbolism, spirituality, forms of organization, standards of living, world views and conceptions of development. These components form the basis of their cultural heritage, and allow them to interact with and have a positive influence on the economic, social and political dynamics of any region or country.

Traditional knowledge has been stored in the collective memory of Indigenous Peoples for centuries, and is seen through the day-to-day activities of men and women. This knowledge is expressed through stories, songs, folklore, proverbs, dances, myths, cultural values, beliefs, rituals, community laws, local language, agricultural practices, tools, materials, plant species and animal breeds. In essence, the natural environment is what makes the knowledge of each people unique and different from that of any other.

Indigenous Peoples' greatest and most laborious achievement so far is the United Nations Declaration on the Rights of Indigenous Peoples. This was adopted by the General Assembly of the United Nations in the belief that Indigenous Peoples' control over the events that affect their lands, territories and resources will maintain and strengthen their institutions, cultures and traditions and promote the development of individuals according to their aspirations and demands.

However, there is still need for targeted strategies and policies that facilitate and foster Indigenous Peoples' use, processing and management of their natural resources for food security and health through self-determination and autonomy. These policies should be effective at the local, state, national, international and regional levels if they are to be successful; they should stress the importance of using cultural knowledge to develop health promotion activities and improve overall health (mental, emotional, spiritual, physical) and well-being.

I find it important to mention some of the cultural indicators for food security, food sovereignty and sustainable development according to Indigenous Peoples, in order to understand the importance of linkages between traditional knowledge and traditional foods:

- access to, security for, and integrity of lands, territories, natural resources, sacred sites and ceremonial areas used for traditional food production;
- abundance, scarcity and/or threats regarding traditional seeds, plant foods and medicines, food animals, and the cultural practices associated with their protection and survival;
- use and transmission of methods, knowledge, language, ceremonies, dances, prayers, oral histories, stories and songs related to traditional foods and subsistence practices, and the continued use of traditional foods in daily diets;
- Indigenous Peoples' capacity for adaptability, resilience and/or restoration regarding traditional food use and production in response to changing conditions;
- Indigenous Peoples' ability to exercise and implement their rights to promote their food sovereignty.

Indigenous Peoples' right to food is inseparable from their rights to land, territories, resources, culture and self-determination. An integral human rights-based approach will open constructive dialogue on what policies, regulations and activities are needed to ensure food security for all, regardless of adaptation. Encouraging meaningful participation by all parties may be the key to building trust and resolving ongoing resource conflicts. Needless to say, the United Nations Permanent Forum on Indigenous Issues will address this issue in upcoming sessions.

In brief, the importance of this book arises from its detailed documentation, using a participatory methodology for ten years in different agro-ecological contexts; it provides evidence on the nutrient composition of traditional diets, which supports the Indigenous Peoples' approach.

We hope the book motivates different actors to continue supporting traditional knowledge, to deal jointly with the crisis we face. Ultimately, we hope this book provides the first step in a detailed analysis of Indigenous Peoples' activities and influence in today's world.

Myrna Cunningham

Centre for Indigenous Peoples' Autonomy and Development Chairperson, United Nations Permanent Forum on Indigenous Issues Nicaragua, 2013

> Comments to: myrna.cunningham.kain@gmail.com

live in the community of Ndilo and am a member of the Yellowknives Dene First Nation. Our Lterritory is adjacent to Yellowknife, the capital of the Northwest Territories, Canada. As National Chief of the Dene Nation and Regional Chief of the Northwest Territories for the Assembly of First Nations my association with the Indigenous Peoples' Food Systems for Health Program has been a privilege and a responsibility, to ensure that the indigenous voice brings the credibility and relevance of this work to Indigenous Peoples everywhere. Having served for many years as Chair of the Governing Board of the Centre for Indigenous Peoples' Nutrition and Environment (CINE) at McGill University I know well the quality of the participatory processes and scientific work of CINE.

The Indigenous Peoples' Food Systems for Health Program is built on networks of partnerships at several levels. Each of the case studies we work with involves a network of partners, and the overall programme is built on these networks, which have met together at least once a year over the last ten years to share experiences and strategies on how to promote and use traditional food systems to enhance health. Each of the chapters in this book reflects understanding and commitment from collaboration among community and academic partners. Together we have worked to define processes and activities and how they are evaluated to improve food systems and health in the communities.

Working with Indigenous Peoples from 12 global regions has given important insights. Similarities in the circumstances faced by Indigenous Peoples are striking and have no boundaries. Indigenous Peoples have been colonized and are dealing with the forces of assimilation. Their land and resources have been assaulted and access to their own food has been threatened. Vastly different ecosystems and cultures of Indigenous Peoples have followed similar paths through time and development, witnessing similar changes in access to land and food. These include changes in and losses of animals and plants in the ecosystems where Indigenous Peoples live, and changes in health, which are manifested by both undernutrition and overnutrition (obesity) and the accompanying chronic diseases. There has been loss of cultural knowledge with the passing of elders in the circle of life and the imposed imperative to move from expressing the benefits of sharing and assisting others to embracing competition and the wage economy. Throughout this "modernization", Indigenous Peoples have been marginalized, vulnerable, living in extreme poverty and losing their sense of identity and self-determination.

The good news is that the programme described in this book has brought people together to work to improve these patterns. Indigenous Peoples are now expressing their human rights to self-determination and health, and are less isolated and demoralized. Instead, they are becoming increasingly aware that their original diets and local foods are very healthy. Indigenous Peoples have a great deal to share among themselves, and with all humankind. The wisdom inherent to their cultures and ways of knowing and doing demonstrate the all-encompassing connectedness of the land and food to their physical and mental health and spirituality.

Recognizing, understanding and dealing with the benefits and threats to Indigenous Peoples' ecosystems, and the biodiversity provided in their food helps them to know "who they are" and to "feel good about themselves", a confidence that is important to everyone. The way forward is to take things in hand, and work together at the community level with our partners in academia, government and nongovernmental organizations, with valuable support from the United Nations.

In this book you will find an inspiring array of methods, processes and activities that can mobilize leaders and their communities. The book will assist them in understanding their ecosystems and, whenever and however possible, using their local food to experience the benefits it gives to cultural expression, food security and health. The book is a natural sequel and partner to the preceding book in this series, Indigenous Peoples' food systems: the many dimensions of culture, diversity and environment for nutrition and health (FAO & CINE, 2009).

Bill Erasmus

Dene National Chief and Regional Chief, Assembly of First Nations Yellowknife, NWT, Canada 2013

Acknowledgements

Triting this section is very difficult for us. There are so many people and agencies to acknowledge that the task is indeed daunting. Each chapter in this book has its own section recognizing contributors in their various roles. So here we note important contributions to the overall effort and to this volume.

Our work is grounded in understanding Indigenous Peoples' food systems for their scientific and social qualities, beginning with the very basics of scientific identification, nutrient composition and cultural value of the many foods contained in the rural ecosystems where Indigenous Peoples live. We have been fortunate to have the engagement of many interdisciplinary scholars within our team who have worked with us to focus on specific unique communities of indigenous people. This breadth in disciplines makes the research and its conclusions meaningful for recognizing and promoting Indigenous Peoples' food systems from many perspectives. Our results lead us to challenge the international community at all levels to give these food systems and the people who depend on them the respect and credibility they deserve for providing nutrition and good health. Therefore, we gratefully thank all of our partners for bringing this effort to fruition, and we also sincerely appreciate those who have responded to our work.

We thank McGill University and staff of the Centre for Indigenous Peoples' Nutrition and Environment (CINE) who have given immeasurably of their resources and time to undertake the work of the programme, including by providing the necessary management and office facilities. Several chapters have been developed with those who are or have been part of McGill/CINE as professors, affiliated members, graduate students and staff, or who are in leadership roles through the Governing Board of CINE. Kp-studios.com of Anacortes, Washington, United States of America provided most of the excellent photographs from the case study areas.

We thank the members of the International Union of Nutritional Sciences (IUNS) Task Force on Indigenous Peoples' Food Systems and Nutrition, recently renamed the Task Force on Traditional, Indigenous, and Cultural Food and Nutrition, who helped with the conceptual planning of the programme that has been implemented over the last ten years. Several lead authors of chapters in this volume were members of the task force and contributors to the meetings and satellite meetings of the International Congresses of Nutrition, sponsored by IUNS in Vienna, Durban and Bangkok in 2001, 2005 and 2009, respectively. IUNS and its executives have given exceptional support to the concepts of the task force and this programme, which evolved within it.

The Food and Agriculture Organization of the United Nations (FAO) has been a pillar of support for our work. In providing leadership for the publication process of our series of three books dedicated to the programme, FAO has given editorial and typesetting services as well as outstanding advice on aesthetic qualities in crafting the publication. FAO has provided Internet versions of the books and distributed hard copies free of charge through the United Nations publications distribution system, including FAO's regional offices, and university libraries. In addition,

FAO provided initial funding to kick-start several of the case studies described here. Case study leaders have presented their data and results in several venues sponsored by FAO. Without doubt, the world's attention to issues surrounding Indigenous Peoples' food systems, and our work in this realm have been fostered and promoted by FAO.

The Rockefeller Foundation's Bellagio Center on the shores of beautiful Lake Como in Italy provided grants to bring our team members together on three occasions, for meetings to stimulate our thinking about ways to make progress during the programme. This was essential for our within-programme communications and provided stimulation that was most welcome. We all extend a warm "thank you" to The Rockefeller Foundation for these opportunities in 2004, 2007 and 2008, and to the staff at the Bellagio Center for their unforgettably beautiful setting, hospitality, facilities and efficient service.

Primary funding for the research grants based from CINE was given by the Canadian Institutes of Health Research through the Institute of Aboriginal Peoples' Health, the Institute of Population and Public Health and the Institute of Nutrition, Metabolism and Diabetes. Funding for research and conference grants was given by the Canadian International Development Agency and the International Development Research Centre. Each of the case study intervention and evaluation efforts in this book gained additional funding from other agencies in the country concerned; these agencies are acknowledged in each chapter. We thank the Ernst Göhner Stiftung for assistance in the final months of preparing the publication, and for funds to prepare the videographic documentation of case studies at www.indigenousnutrition.org.

It is the people in the communities participating in the research described here to whom we are greatly indebted. Their wisdom, encouragement and enthusiasm emboldened the academic partners and led all of us to make the chapters reflect their thinking, their perspectives and their work. Thousands of Indigenous Peoples of all ages in seven countries are represented in this book. They built the knowledge base represented in all of the publications from the

programme. Hundreds of community associates, many of whom were volunteers, contributed and continue to contribute to the ongoing activities in each of the case studies.

The collective intention of chapter authors is to dedicate this book to children in communities of Indigenous Peoples, who will continue to face challenges to protecting their traditional knowledge and use of their local foods for physical, social and environmental health. We know that our books will give them power and strength.

Harriet V. Kuhnlein

Ph.D., F.A.S.N., F.I.U.N.S., LL.D. (hon.), Founding Director, CINE, and Emerita Professor, Human Nutrition, McGill University, Montreal, Canada

Bill Erasmus

National Chief, Dene Nation, Yellowknife, and Regional Chief, Assembly of First Nations, Ottawa, Canada

Dina Spigelski

R.D., M.Sc., Coordinator, Montreal, Canada

Barbara Burlingame

Ph.D., Principal Officer, Nutrition Division, FAO, Rome

2013