BREAKING THE POVERTY CODE

BREAKING THE POVERTY CODE

An Integrative Approach to Measuring Multidimensional Poverty in Mexico

BY

YEDITH BETZABÉ GUILLÉN-FERNÁNDEZ Universidad Nacional Autónoma de México, UNAM, Mexico City



United Kingdom – North America – Japan – India Malaysia – China Emerald Publishing Limited Howard House, Wagon Lane, Bingley BD16 1WA, UK

First edition 2023

Copyright © 2023 Yedith Betzabé Guillén-Fernández. Published under exclusive licence by Emerald Publishing Limited.

Reprints and permissions service

Contact: www.copyright.com

No part of this book may be reproduced, stored in a retrieval system, transmitted in any form or by any means electronic, mechanical, photocopying, recording or otherwise without either the prior written permission of the publisher or a licence permitting restricted copying issued in the UK by The Copyright Licensing Agency and in the USA by The Copyright Clearance Center. Any opinions expressed in the chapters are those of the authors. Whilst Emerald makes every effort to ensure the quality and accuracy of its content, Emerald makes no representation implied or otherwise, as to the chapters' suitability and application and disclaims any warranties, express or implied, to their use.

British Library Cataloguing in Publication Data

A catalogue record for this book is available from the British Library

ISBN: 978-1-83753-521-7 (Print) ISBN: 978-1-83753-520-0 (Online) ISBN: 978-1-83753-522-4 (Epub)



CONTENTS

List	of Figures	vi
List	of Tables	i>
Abo	About the Author	
Ack	Acknowledgements	
Ab	Abstract	
1.	Introduction	1
2.	The Consensual Approach and the Social Rights as Converging Views	27
3.	Measuring Multidimensional Poverty in Mexico Based on Social Consensus	49
4.	Conclusion	95
Арј	oendix	107
Bibliography		115
Index		151

LIST OF FIGURES

Chapter 1		
Figure 1.1.	Multidimensional Poverty Trends in Mexico, 2008–2020 (Percentages).	3
Figure 1.2.	Social Deprivations Presented by the Population in Mexico, 2020 (Percentages).	4
Chapter 2	,	
Figure 2.1.	Comparative Framework Between the Consensual Approach and the Social Rights-Based Approach.	42
Chapter 3		
Figure 3.1.	Percentage of Respondents Perceiving Adult Activity or Household Item as Necessary or Unnecessary.	52
Figure 3.2.	Perceptions of Social Necessities: Comparing Men and Women.	53
Figure 3.3.	Perceptions of Social Necessities by Comparing Households' (Enough vs. Not Enough) Perceived Income.	54
Figure 3.4.	Poverty Thresholds Compared Between the Social Consensus and the MMPM.	56
Figure 3.5.	ANOVA Models.	70
Figure 3.6.	Equivalized Disposable Mean Income Estimated Based on the Consensual Method.	74
Figure 3.7.	P-P and De-trended P-P Plots of the Non-Normally Distributed Equivalized Disposable Mean Income.	75
Figure 3.8.	Percentage of Overlaps of Being Poor by Method.	80
Figure 3.9.	Contribution Percentages by Cumulative Deprivation Scores and Types of Social Deprivations.	84

LIST OF TABLES

Chapter 1		
Table 1.1.	Dimensions and Indicators to Measure Multidimensional Poverty by CONEVAL.	21
Chapter 2		
Table 2.1.	Satisfiers and Resources Related to Four Types of Needs, Included Within the Human Flourishing Approach.	32
Table 2.2.	Comparative Framework of the Theories, Concepts and Measures on Multidimensional Poverty Developed in the United Kingdom and Mexico.	35
Chapter 3		
Table 3.1.	Percentage of People that Experience Social Deprivations	3
	in Mexico, in 2020. CONEVAL's Official Estimates vs. the Consensual Approach.	61
Table 3.2.	Odds Ratio for Social Deprivation Indicators and Low Income, by Different Poverty Measures.	65
Table 3.3.	Reliability Analysis of the Components of Social Deprivations.	68
Table 3.4.	Proportion of the Mexican Population With Each Deprivation Index Score and the Average Equivalized Disposable Mean Income.	<i>7</i> 3
Table 3.5.	Univariate Summary of the Equivalized Disposable Mean Income (Mexican Pesos per Month, in 2020 and	n 76
Table 3.6.	Approximate US Dollar Equivalent). ANOVA and Logistic Regression Models to Find the Optimum Position for the Poverty Threshold.	78
Table 3.7.	Percentage of Poor in Mexico by Different Methods, 2020.	82
Table 3.8.	Poverty Rates (%) and the Logistic Odds of Being Poor in Mexico, 2020, for the Consensual Approach and the MMPM.	86

X List of Tables

Appendix

1. Mexican Surveys of Socially Perceived Necessities in	
Mexico	107
2. Percentage of People Claiming Items or Activities as	
Indispensable or Necessary	107
3. Social Deprivation Indicators and Sub-indicators, and	100
Their Thresholds	109

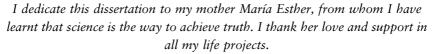
ABOUT THE AUTHOR

Dr Yedith B. Guillén-Fernández is a Full-Time Researcher at the Economic Research Institute of the National Autonomous University of Mexico and Lecturer in Poverty Studies and Health Economics of the Postgraduate Programme in Economics at UNAM. She holds a PhD in Social Policy, specialised on multidimensional poverty at the University of Bristol, England, and she also did a Master of Philosophy programme focused on research methods in Bristol. She holds a Master's degree in Demography from El Colegio de México. She did a degree in Economics at the Universidad Michoacana in Mexico. She did her post-doctorate work on the subject of child poverty and health deprivation and a Diploma in Human Rights indicators at UNAM. She has specialized in the topics of Multidimensional Poverty and Health Economics. Yedith has worked on international research projects from a comparative perspective on health and wellbeing, malnutrition, child poverty, health-care systems and did research stays at the University of Gothenburg, Bristol University, the National University of Seoul, at CLEAR (Regional Centers for Learning on Evaluation and Results), at the University College of Ireland and the Mexican Academy of Sciences. In the field of teaching, Dr Guillén Fernández has taught courses at UNAM, Princeton University, the University of Bristol and has participated in international conferences, for instance, the European Parliament, at the United Nations Organization for the Food and Agriculture (FAO), in CROP Poverty, among others. She was Director of Poverty Measurement Standards and Methodologies at the National Council for Social Development and Policy (CONEVAL), where she conducted research on multidimensional poverty and effective access to health services. She has published articles in national and international indexed journals, both in English and Spanish. She is a member of the National System of Researchers in Mexico (CONACYT).

ACKNOWLEDGEMENTS

I would like to mention that this book is an adaptation of my PhD dissertation 'Multidimensional poverty measurement from a relative deprivation approach: A comparative study between the United Kingdom and Mexico'. This research work resulted from my PhD studies at the University of Bristol and from The Townsend Centre for International Poverty Research. I thank my supervisor Professor David Gordon for the knowledge I have acquired.

I also thank the Institute for Economic Research at the National University of Mexico (UNAM) for providing me with a computer and software to use datasets, through the Support Program for Research and Technological Innovation Projects (PAPIIT, Programa de Apoyo a Proyectos de Investigación e Innovación Tecnológica) in the topic of Wellbeing and health from the Social Rights-based approach (code IA302322).



This book is dedicated to academics and students who are motivated to study poverty for contributing to its eradication. I hope this study helps define objective criteria for the measurement of multidimensional poverty.

This research represents a vote for the eradication of poverty.

ABSTRACT

This study formulates a theoretical and empirical link to integrate two frameworks for measuring multidimensional poverty in Mexico, which are the 'Consensual approach' and the 'Social Rights-based approach', with the purpose of updating the living standards established in the Mexican norms and evaluating the official Multidimensional Poverty Measurement Methodology in Mexico (MPMM). The Consensual approach, developed by Mack and Lansley (1985) in the United Kingdom, will help us to inform the socially perceived necessities for identifying new needs and updated poverty thresholds. On the other hand, the Social Rights-based approach has been officially advocated in Mexico for the measurement of multidimensional poverty since 2008. Both frameworks are based upon social needs and aim at promoting that every person must achieve a decent standard of living, as well as to acknowledge that all citizens should accomplish their entitlements for being free of poverty. Also, both approaches lead us to understand that needs are determined socially and can be defined based on 'social consensus'. However, the Mexican legal frameworks do not inform continuously about the changing needs resulted from the socio-economic and technological progress, because of its normative nature. Therefore, the consensual approach creates an important association with the social rights, not only for the evaluation of the official method of multidimensional poverty in Mexico but also to inform institutions and scholars about objective poverty measuring criteria, as well as to show a more accurate picture of poverty. This research also contributes with a statistical application for obtaining an objective poverty measurement for Mexico, based on the application of multivariate statistical techniques as part of the 'Consensual Method'.

Yedith Betzabé Guillén-Fernández