



Supporting Evidence-Based Home Visiting to Prevent Child Maltreatment

Cross-Site Evaluation of the Supporting Evidence-Based Home Visiting Grantee Cluster: Evaluation Design—Volume 1

October 30, 2009



MATHEMATICA
Policy Research, Inc.



ChapinHall
at the University of Chicago

Cross-Site Evaluation of the Supporting Evidence-Based Home Visiting Grantee Cluster: Evaluation Design—Volume 1

Contract Number:
GS-10F-0050L/HHSP233200800065W

Mathematica Reference Number:
6552-702

Submitted to:
Children's Bureau
Office on Child Abuse and Neglect
Children's Bureau, ACYF, ACF, HHS
8th Fl, Rm 8127, 1250 Maryland Ave, SW
Washington, DC 20024
Project Officer: Melissa Lim Brodowski

Submitted by:
Mathematica Policy Research
P.O. Box 2393
Princeton, NJ 08543-2393
Telephone: (609) 799-3535
Facsimile: (609) 799-0005

Co-Project Directors: Kimberly Boller,
Deborah Daro (Chapin Hall at the
University of Chicago)

Suggested citation:

Koball, Heather, Heather Zaveri, Kimberly Boller, Deborah Daro, Jean Knab, Diane Paulsell, Margaret Hargreaves, Debra A. Strong, Lizabeth Malone, Patricia Del Grosso, and Yange Xue.
"Cross-Site Evaluation of the Supporting Evidence-Based Home Visiting Grantee Cluster: Evaluation Design Volume 1." Children's Bureau, Administration for Children and Families, U.S. Department of Health and Human Services. 2009 Oct. Contract No.: GS-10F-0050L/HHSP233200800065W. Available from Mathematica Policy Research, Princeton, NJ.

October 30, 2009

Heather Koball
Heather Zaveri
Kimberly Boller
Deborah Daro
Jean Knab
Diane Paulsell
Margaret Hargreaves
Debra A. Strong
Lizabeth Malone
Patricia Del Grosso
Yange Xue



**Supporting Evidence-Based
Home Visiting to Prevent
Child Maltreatment**

MATHEMATICA
Policy Research, Inc.



ChapinHall
at the University of Chicago

ACKNOWLEDGMENTS

The authors would like to thank the many people who contributed to the research design plan presented in this report. First, the EBHV grantees and their local evaluators were instrumental in developing a research design plan that met their needs as well as the needs of the EBHV Cross-Site Evaluation. We would like to thank the members of the expert panel who provided their insights on the proposed measures and the representatives of the six grantee-selected program models who met with us to help us understand their program, data collection, and reporting requirements. We also want to thank the Office of the Assistant Secretary for Planning and Evaluation at the U.S. Department of Health and Human Services for their ongoing support. We would like to extend a special thank you to Melissa Lim Brodowski, our project officer at the Children's Bureau within the Administration for Children and Families (ACF), for her comments on this report and guidance throughout the first year of the evaluation planning. Also from ACF, Catherine Nolan, Rosie Gomez, Lauren Supplee, Nancy Margie, and Sacha Klein reviewed an earlier draft of the design report and provided input throughout the planning year.

A number of staff at Mathematica Policy Research and Chapin Hall at the University of Chicago also played important roles in the creation of this report and the EBHV Cross-Site Evaluation Design. Brenda Jones Harden (University of Maryland) and Cheri Vogel provided insightful feedback on the cross-site evaluation design, as well as on the evaluation plans of the individual grantees. Kirsten Barrett helped develop the data instruments and Tom Campbell provided guidance on data collection plans. Rachel Shapiro and Laura Guy supported communications for the Peer Learning Network. They and Megan Hague Angus, Brianna English, Pia Caronongan, and Russell Cole each provided assistance assembling information for the report. John Love and Diane Herz provided quality assurance review, Jill Miller and Marjorie Mitchell provided word processing support, Cindy George, Patricia Ciaccio, and Bill Garrett provided editing support, and Laura Watson-Sarnoski provided production support.

EVIDENCE-BASED HOME VISITING GRANTEES

Grantee	Project Director
County of Solano, California Department of Health and Social Services	Linda Orrante
Rady's Children's Hospital, San Diego, California	Charles Wilson and Laine Alexandra
Colorado Judicial Department	Lilas Rajace-Moore
Delaware Children & Families First	Vicky Kelly
Hawaii Department of Health	Cindy Hirai
Illinois Department of Human Services	Denise Simon and Ralph Schubert
Minnesota Department of Health State Treasurer	Mary Jo Chippendale
New Jersey Department of Children and Families	Sunday Gustin
Society for the Prevention of Cruelty to Children, Rochester, New York	Laurie Valentine
Ohio St. Vincent Mercy Medical Center	Connie Cameron
The University of Oklahoma Health Services Center	Jane F. Silovsky
Rhode Island Kids Count	Leanne Barrett
The Children's Trust Fund of South Carolina	Grace Stewart and Joan Hoffman
Child and Family Tennessee	Rebecca Kelly
Tennessee Le Bonheur Community Outreach	Ruth A. Hamblen
Texas DePelchin Children's Center	Debbie Arnold
Utah Department of Health	Robyn Lipkowitz

This report was developed by Mathematica Policy Research, Inc and Chapin Hall at the University of Chicago. MPR-CH is funded by the U.S. Department of Health and Human Services, Administration for Children, Youth and Families, Children's Bureau, Office on Child Abuse and Neglect, under Contract No. GS-10F-0050L/HHSP233200800065W. The contents of this publication do not necessarily reflect the views or policies of the funders, nor does mention of trade names, commercial products or organizations imply endorsement by the U.S. Department of Health and Human Services. This information is in the public domain. Readers are encouraged to copy portions of the text which are not the property of copyright holders and share them, but please credit the authors.

CONTENTS

Chapter	Page
I	INTRODUCTION 1
	EBHV Grantees and Their Selected Program Models..... 3
	Design Process 6
	Participatory Design Process with a Utilization Focus 6
	Stakeholder Involvement 8
	Design Challenges Confronted During Cross-Site Planning 10
	Challenges Related to EBHV Grantee Diversity..... 10
	Challenges Related to the EBHV Grantee-Selected Model Diversity..... 11
	Cross-Site Evaluation Design Overview 11
	Evaluation Domains and Research Questions 12
	Cross-Domain Research Questions 12
	Data Collection Strategy 13
	Analytic Approach 13
	Evaluation Technical Assistance..... 14
	Utilization-Focused Reporting and Dissemination 15
	Report Road Map 15
II	DESIGN PLAN FOR ASSESSING SYSTEMS CHANGE 17
	Overview of Domain and Key Research Questions 17
	Systems-Based Evaluation Concepts..... 18
	Systems-Based Evaluation 18
	System Attributes 19
	Infrastructure Capacity 19
	Infrastructure Levels 21
	Infrastructure Development Goals 22
	EBHV Theory of Change 22
	Research Questions 23
	Systems Measures and Analytic Approach..... 25
	Working with Grantees to Create Infrastructure Development Logic
	Models at Baseline 26
	Tracking Grantees' Activities and Progress Toward Building
	Infrastructure Capacities..... 27
	Tracking Changes in System Attributes..... 28
	Tracking Achievement of EBHV Goals..... 29

Chapter	Page
III	DESIGN PLAN FOR ASSESSING FIDELITY TO THE EVIDENCE-BASED MODEL 31
	Overview of Domain and Key Research Questions 31
	Initial Fidelity..... 33
	Ongoing Fidelity 34
	Fidelity Indicators and Analytic Approach..... 36
	Sample 37
	Fidelity Indicators 37
	Constructing Key Fidelity Indicators..... 41
	Qualitative Fidelity Data..... 41
IV	DESIGN PLAN FOR ASSESSING COSTS OF HOME VISITING PROGRAMS 43
	Overview of Domain and Key Research Questions 43
	Cost Measures and Analytic Approach 45
	Aggregate Program Costs..... 45
	Program Component Costs..... 46
	Analytic Approach 48
V	DESIGN PLAN FOR ASSESSING FAMILY AND CHILD OUTCOMES 51
	Overview of Domain and Key Research Questions 51
	Family and Child Measures and Analytic Approach..... 53
	Outcome Domains, Constructs, and Measures 55
	Recommended Periodicity of Data Collection and Information Submission Requirements to Support the Cross-Site Design..... 61
	Ensuring Data Quality 62
	Systematic Review of Evidence 63
VI	DESIGN PLAN FOR THE PROCESS STUDY 65
	Overview of Domain and Key Research Questions 65
	Process Study Data and Analytic Approach..... 71
VII	DATA COLLECTION PLAN 75
	Web-Based System 75
	Strategies for Minimizing Grantee Burden 76
	Web-Based System Users 76
	Web-Based System Design 76
	Web-Based System Content..... 77

Chapter	Page
Schedule for Data Entry	79
Technical Assistance and Support for System Users to Ensure Data Quality	79
Site Visits	81
Interview and Focus Group Participants	81
Interview and Focus Group Guides	82
Site Visit Selection of Implementing Agencies and Locations	83
Planning and Scheduling Visits	84
Participant Identification and Recruitment	87
Site Visit Data Quality	87
Partner Survey	88
Survey Content and Development	88
Respondent Identification and Survey Administration	89
Other Data Collection	90
Grant Program Administration Documents	90
NFP Administrative Data	92
County-Level Child Abuse and Neglect (CAN) Data	93
VIII DATA ANALYSIS PLAN	95
Qualitative Analysis	96
Summarize Site Visit Interviews	96
Code Qualitative Data	97
Conduct Within- and Cross-Grantee Analysis	98
Quantitative Analysis	99
Analytic Approach	100
Within-Domain Analyses	101
Cross-Domain Analyses	105
Systematic Review of Evidence	107
Systems Change and Family and Child Outcomes	112
IX REPORTING AND DISSEMINATION	115
Annual Reports	116
Final Evaluation Report	117
Periodic Ad-Hoc Reports and Literature Reviews	119

Chapter	Page
Utilization-Focused Reporting	119
NDACAN Data Restricted-Use Data Files	120
REFERENCES	121
APPENDIX A: ALTERNATIVE AND SUPPLEMENTAL FAMILY AND CHILD OUTCOME MEASURES	A.1
APPENDIX B: SAMPLE SOCIAL NETWORK MATRICES AND SOCIOGRAMS	B.1
APPENDIX C: GROWTH CURVE MODEL OF ASSOCIATION BETWEEN SYSTEMS, PROGRAM COSTS, AND FIDELITY	C.1

TABLES

Table	Page
I.1	Summary of EBHV Grantee-Selected Program Models 5
I.2	Grantees' Selected Home Visiting Program Models, Implementation Status, and Number of Service Delivery Locations..... 7
I.3	Experts Consulted About the EBHV Cross-Site Evaluation Design..... 10
II.1	Infrastructure Capacity Categories by Types of Activities 20
II.2	Systems Domain Research Questions, Data Collection Modes, and Analytic Approach..... 24
II.3	Components Captured in EBHV Infrastructure Change Logic Models 26
III.1	Fidelity to Evidence-Based Model Domain Research Questions, Data Collection Modes, and Analytic Approach 32
III.2	Data Reporting Requirements for the EBHV Grantee-Selected Program Models 36
III.3	Ongoing Fidelity Data 38
IV.1	Cost Domain Research Questions, Data Collection Modes, and Analytic Approach 45
IV.2	Description of Essential Program Components and Infrastructure Capacities..... 47
V.1	Family and Child Outcomes Domain Research Questions, Data Collection Mode, and Analytic Approach 53
VI.1	Process Study Research Questions, Subtopics, and Respondents..... 66
VII.1	Web-Based Data Collection Domains and Measures, Frequency of Collection, and Data Reporters 77
VII.2	Implementing Agencies to Be Selected for Site Visits (Preliminary Estimates)..... 85
VII.3	Preliminary Spring 2010 Site Visit Activities, Participants, and Interview Time..... 86
VIII.1	Cross-Site Evaluation Domains by Analytic Approach 95
VIII.2	Frequency and Unit of Data Collection and Unit of Analysis by Domain 100

Table	Page
VIII.3	Overview of Design Elements by Research Design Rigor 108
VIII.4	Grantees' Proposed Evaluation Designs and Sample Sizes 109
VIII.5	Examples of Minimum Detectable Effects (MDEs) for Child Maltreatment and Maternal Depression Measures..... 110
IX.1	EBHV 2010-2014 Annual and Final Report Contents..... 118
A.1	Alternative and Supplemental Measures Collected for Local Evaluations A.3

FIGURES

Figure		Page
II.1	EBHV National-Level Theory of Change.....	23
VIII.1	Cross-Domain Relationships Examined in the Quantitative Analyses	106

