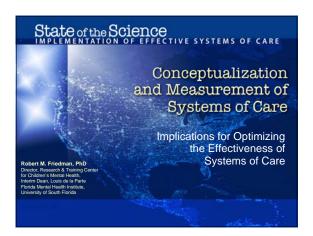
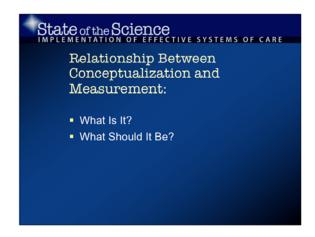
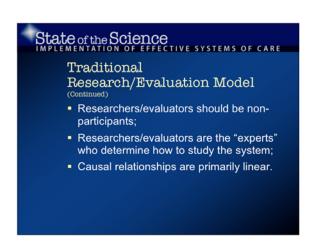
Robert M. Friedman, PhD

Director, Research & Training Center for Children's Mental Health, Interim Dean, Louis de la Parte Florida Mental Health Institute, University of South Florida

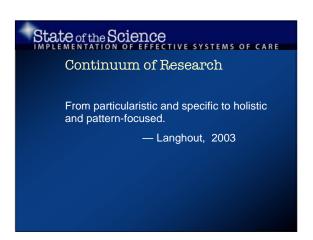




State of the Science IMPLEMENTATION OF EFFECTIVE SYSTEMS OF CARE Traditional Research/Evaluation Model The "System of Care" is the independent variable; Should be static; Should be replicable; Should be easily measurable; Measures should be objective;



State of the Science IMPLEMENTATION OF EFFECTIVE SYSTEMS OF CARE Results Should determine if it is "effective;" Should identify what it takes to make them work.



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State of the Science IMPLEMENTATION OF EFFECTIVE SYSTEMS OF CARE Alternate Model Based on Research/Theory from Fields of Organizational Development, Systems Theory, and Complexity Theory Effective systems are iterative, evolving, changing, dynamic, always emerging; Frequent reflective processes, based on multiple sources of data and multiple perspectives, is essential; Relationships/connections/integrative mechanisms between agents and components are critical; Responsiveness to contextual issues is one key;

State of the Science IMPLEMENTATION OF EFFECTIVE SYSTEMS OF CARE Alternate Model (Continued) - Values, principles, culture, and goals are the key foundation; - Causal relationships are primarily non-linear and complex; - The "system" exists in the eye of the beholder; - Key to understanding systems is relationships, recurring patterns, implicit as well as explicit rules.

State of the Science IMPLEMENTATION OF EFFECTIVE SYSTEMS OF CARE Implications for Research/Evaluation

- Longitudinal, holistic with a specific focus on interrelationships, non-linear effects and "rich" points;
- Contextual and in-depth;
- Multi-method, multi-source;
- Participatory and collaborative;
- Action and change-oriented

State of the Science Conference Presented in Tampa, March 2007Paul E.Greenbaum, Roger Boothroyd, and Krista Kutash

A National Study to Assess the Status of System of Care Implementation Presented by Paul E.Greenbaum, Roger Boothroyd, and Krista Kutash 20th Annual Research Conference March 5, 2007 Tampa, Florida USF UNIVERSITY OF SOUTH FLORIDA

Introduction RTC interested in understanding what is the state of systems of care (SOC) nationally Multiple factors believed to contribute to development and implementation of systems of care

Study Rationale No data available that describe the distribution and implementation of either particular factors or, more broadly, the overall level of integrated systems of care for children and adolescents in the United States. To address these issues, RTC has been developing a population-based survey of system-of-care implementation factors in US counties

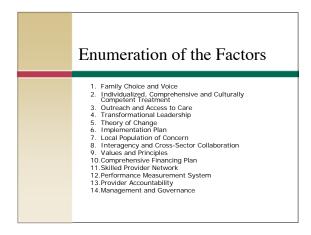
Study Goals Assess the level of SOC implementation nationwide Understand the relationships between the various implementation factors Understand how various contextual factors (e.g., population size, level of poverty) are related to overall SOC implementation and the individual factors

Steps in Designing the Study Theoretical model: Conceptual definitions of the constructs and how they are related Operationalizing the constructs into observables and developing indicators to measure the constructs Developing a research design to empirically assess the construct

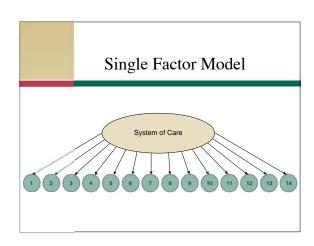
Theoretical Model Certain factors that, when put into practice within communities, contribute to establishing well-functioning systems of care for children with serious emotional disturbances and their families and much of the power of these factors comes from the way in which they "come together and are interconnected to fulfill some purpose" (Pisek, 2001, p.309, Institute of Medicine, (Eds.) Crossing the quality chasm: A new health system for the 21st century).

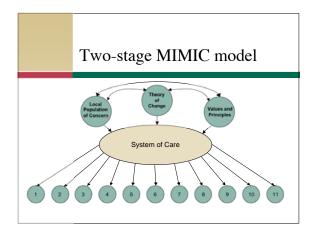
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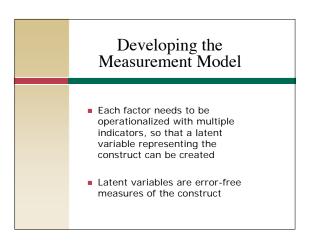
Identifying the factors Reviewing research and theory on systems of care Tapping the experiences of the RTC in conducting research within systems of care Incorporating findings from a survey of state children's mental health directors and concept mapping with a panel of experts in systems of care Obtaining feedback on the initial model from parent and professional leaders in children's mental health



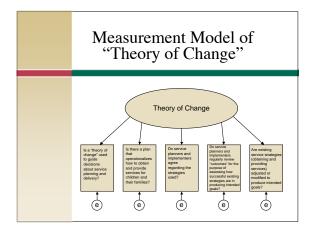
Conceptual Models of How Interconnected Single factor model: All factors are of equal importance and indicators of the SOC Two-stage MIMIC model: Three factors are emergent, 11 factors are indicators of the SOC



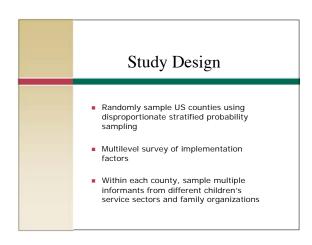




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Developing the Measurement Model In-house experts select indicators of each factor Reviewed and revised by Director and Study PIs Expert panel review Reviewed and revised based on expert panel scores and comments Cognitive interviewing Revised Pilot testing the Os. Revised Final review by family members Final revision



S	Table 2. Sampling Frame and Projected Sample Cell Sizes for U. S. Counties Stratified by Population Size and Poverty					
Populati	on Size Participants Per County		< Median Poverty		> Median Poverty	
1,000,00	0+ 15	17	[9]	17	[9]	34
500,000	-999,999 13	46	[15]	24	[14]	70
250,000	-499,999 12	101	[19]	26	[19]	127
100,00 0	1-249,999 8	195	[26]	85	[26]	280
50,000	-99,999 5	224	[14]	153	[15]	377
25,000	49,999 5	308	[15]	216	[15]	524
	25,000 5	696	[14]	1004	[15]	1670
Total	1959 Median Powerty" emuls 14 15%		[112] sing in the county are living belo		[113] verty level. Numbers	3082
	represent the number of counties		ving in mecounty are riving best	winebo	verty sevel. Numbers	шмрите

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Conceptualizing and Measuring Systems of Care

Case Studies of System Implementation

Sharon Hodges, PhD State of the Science March 6, 2007

Research Team Kathleen Ferreira, MSE Nathaniel Israel, PhD Jessica Mazza, BA



Research Issues in Children's Mental Health

- Research in a diffused service setting and around implementation of complex reform initiatives
 - How do we understand the whole of a system that is made of so many individual components parts?
 - ◆ How do we understand the individual components of the system when we cannot isolate them from their multiple influences and interconnections?

Research Challenge

 To do rigorous research in the absence of the framework that is provided by well-defined linear relationships

Case Studies of System Implementation

- To identify strategies that local communities undertake in implementing community-based systems of care
- To understand how factors affecting system implementation contribute to the development of local systems of care

Research Questions

- What structures and processes produce systems of care?
- Are there certain conditions that trigger successful system implementation?
- Are there fundamental mechanisms for change?
- What is the relationship among factors that affect system implementation?

Assumptions of this Study

- Meaning is situated in context
- Context influences how people think, act, and interact
- Meaning is created through shared understanding & negotiation
- Meaning is created as individuals interact with one another and participate in shared activities
- What people know & believe to be true about the world around them develops as people interact

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Case Study Design ■ Multi-case embedded case study design Phenomena in real-life context Processes that evolve over time Not under control of researcher Compare how communities conceptualize, operationalize, implement systems of care

Site Selection

Criteria for Participating Sites:

- Expressed commitment to systems-of-care values and
- Identified need for local population of children with serious emotional disturbance
- Goals for identified population of children with serious emotional disturbance that are consistent with systemsof-care values and principles
- Outcome information that demonstrates progress toward these goals
- · Ability to reflect on key transitions in system development
- Sustainability over time

Data Collection

- Document Review
- Local Factor Identification and Definition
- Direct Observation
- Semi-Structured Key Informant Interviews
- Documented Aggregate Outcome Data

Research Approach: "Rapid Ethnographic" Methods

- Data collection lasting 1 week several months
- Limited time on site
- Multi-method inquiry
- Strong reliance on qualitative methods such as group and individual interviews, observation, document
- Emphasis on qualitative, but does not preclude
- quantitative data collection and analysis Team-based data collection & analysis in which intensive team approach substitutes for longer term site-based data collection & analysis by single individual

When to Use "Rapid" Ethnography

Rapid ethnographic approaches are most appropriate when:

- The research setting is complex and requires detailed understanding of local context
 There is a need to understand group behavior, practice,
- belief
 There is a need to understand multiple local

and utility of results

- perspectives
 The extended presence of researchers would be burdensome to participating sites
- Resource constraints prevent long-term field-based data collection A "rapid" process is necessary for real-time application

Iterative Data Collection & Analysis

- Data collection and analysis are ongoing rather than discrete events, each process continuously informing
- Additional data collection (e.g. observations, interviews, document reviews) results from questions that arise as research progresses
- Iterative process allows "quick" transition from preliminary insight to detailed understanding

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Triangulation of Researchers, Data, Methods

- Multiple data sources are necessary to produce comprehensive assessment
- Purposive sampling is used to access multiple perspectives
- Repetition of questions, discussions, observations is a strategy used to seek information from multiple
- perspectives

 Meaningful patterns and/or awareness of their absence can be identified
- Multi-disciplinary team composition supports diversity of perception and understanding in data collection & analysis

Intensive Team Interaction

- Rapid assessment involves at least two researchers
- Intensive teamwork is key to triangulating data
- Intensive advance teamwork prepares researchers for field-based data collection
- Intensive field-based teamwork ensures opportunities for on-site data collection are used to greatest advantage

Iterative Process **March British but of car buttor of brown parameters** **Process** **Proceed ** **Process** **Process** **Process** **Process** **Proc

Ensuring Meaningful Results

- Rapid does not mean rushed or sloppy.
- Methodological rigor is required even if timeframe is compressed.
- Collaboration with people in field ensures that research questions are relevant, data collection strategies are appropriate and reasonable, and provides an ongoing validity check.

Strategies to Meet the Challenge

- Explore and advance methods that integrate scientific rigor with real world experience
- Develop partnerships that will help us understand and intervene in the multilayered behavioral health system
- Bring multiple perspectives into our knowledge base