


## Caregiver Involvement: Service Planning and Positive Outcomes


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## Purpose of Presentation

- Report findings from an analysis examining the impact of caregiver involvement on outcomes at one system-of-care site
- Discuss rationale for the study and conceptual model informing research questions and hypotheses
- Describe statistical techniques employed to analyze less than ideal longitudinal data




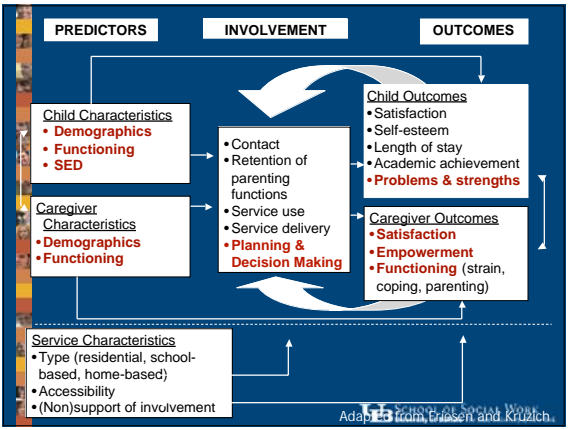
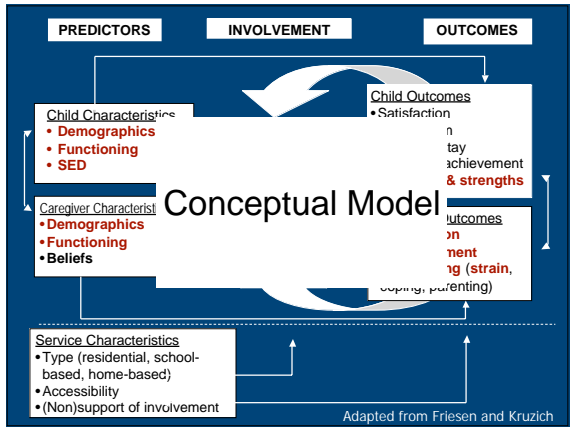
## Background: Why Caregiver Involvement?

- Trends in education and other human service fields
- Research in children's mental health promising, but limited
- Advocacy
- Policy




## Study Aims

- To advance knowledge in this area by:
  - Examining the impact of involvement on outcomes for children with SED and their caregivers.
  - Examining the relationship between child outcomes and caregiver outcomes.
  - Using advanced methods for analysis and to address data issues


### Research Questions

1. How do caregivers perceive their involvement in planning services and treatment?
2. Do child and caregiver outcomes vary by caregiver involvement in planning?
3. What is the relationship between child and caregiver outcomes?

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### Methods

- Secondary data analysis
- Oregon System-of-Care site
- 5 waves
- Primary caregivers of children receiving services in 2 systems
- Self-report measures
- **Same respondent across waves**

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### Measures: Involvement in Planning

- Degree of Involvement ( $\alpha = .86$ )
- To what extent:
  - Were you included in the planning of the most influential service/treatment your child received?
  - Was there a role for you in carrying out the treatment or service?
  - Were you involved in reviewing the child's progress in treatment?
- Response choices
  - 4 "A lot", 3 "Some", 2 "A little", 1 "Not at all"

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### Measures: Outcomes

**Child**

- BERS Strengths Quotient (Epstein & Sharma, 1998) ( $\alpha = .98$ )
- Child Behavior Checklist (Achenbach, 1991)
  - Internalizing Problems ( $\alpha = .79$ )
  - Externalizing Problems ( $\alpha = .73$ )

**Caregiver**


- Satisfaction (CMHS) ( $\alpha = .87$ )
- Objective Strain ( $\alpha = .73 - .91$ ) (Brannan, 1997)
- Services Empowerment ( $\alpha = .89$ ) (Koren et al., 1992)

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### Data Preparation and Analysis

- Addressing Missing Data
  - Nonresponse
  - Conditional
  - Invalid
- Random Imputation
- Generalized Estimating Equations

	N	%	N	%	N	%	N	%	N	%
	miss		miss		miss		miss		miss	
involvement	73	29	84	19	61	28	42	38	29	37
empowerment	94	9.6	99	4.8	79	7.1	61	1.3	43	6.5

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# FINDINGS

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### Child Characteristics

	N = 104		N	%
Male			76	73.1
White			92	88.5
Diagnosis				
ADHD			47	45.2
Mood Disorder			18	17.3
Referral Source				
Mental Health			58	55.8
School			18	17.3
Received care in-home			95	91.4
	<i>M</i>	<i>SD</i>	<i>Range</i>	
Age	14.3	2.8	5.6 – 17.4	
Presenting Problems	7.7	5.2	1 - 23	
Services used prior to study	2.6	1.1	0 - 5	
Risk factors	2.1	1.7	0 – 7	

### Caregiver Characteristics

	N = 104		N	%
Female			91	87.5
H.S. diploma or less			49	46.7
Some college+			55	53.3
Biological/Step-parent			86	82.7
Biological mother has sole custody			49	47.1
	<i>M</i>	<i>SD</i>	<i>Range</i>	
Age	47	9.4	28.5 – 72	
Household size	3.8	1.3	2 – 8	
Family Risk Factors	3.0	1.5	0 - 5	
Perceived adequacy of resources	3.6	0.6	1 - 5	
	<i>Mdn</i>	<i>Range</i>	<i>Range</i>	
Annual Family Income	\$20K - \$24,999	<\$5K - \$100K+		

- ### Findings: Involvement
- Caregivers ratings of perceived degree of involvement were relatively high
    - 3.27 – 3.48
    - corresponding to “some” – “a lot”
  - Higher Ratings for Involvement
    - Caregivers of girls ( $z = -2.28, p < .05$ )
    - Caregivers with more family resources ( $z = 2.04, p < .05$ )
    - Model  $R^2 = .21$

### Pearson's r Bivariate Analysis

	Involvement
Externalizing Problems	-.05
Internalizing Problems	-.09
Strengths	.01
Objective Strain	.02
Empowerment	<b>.20**</b>
Satisfaction <sup>1</sup>	<b>.24**</b>

<sup>1</sup>Analysis at wave 2      \* $p < .10$  \*\* $p < .05$  \*\*\* $p < .01$

- ### Findings: Outcomes
- Involvement
    - **No** direct effects on child outcomes
    - Significant direct effects on caregiver outcomes
      - Caregiver empowerment ( $R^2 = .67; z = 2.22, p < .05$ )
      - Satisfaction with involvement ( $R^2 = .37; z = 3.35, p < .01$ )


### Caregiver and Child Outcomes: Pearson's Partial Intercorrelations

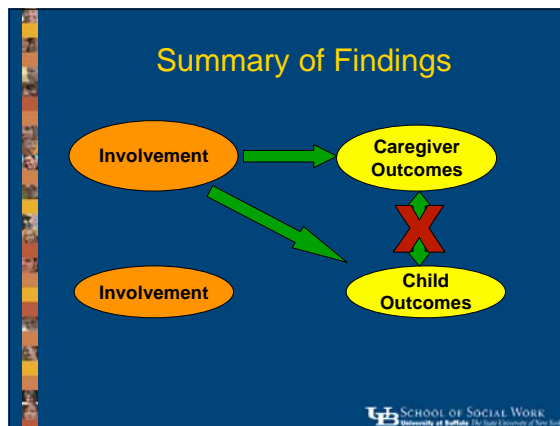
	Empowerment <sup>a</sup>	Satisfaction <sup>b</sup>
Internalizing	-.17***	-.20**
Externalizing	-.17**	-.24***
Strengths	.25***	.26***


Notes. Lag terms of the child outcomes are partialled out. <sup>a</sup> $n = 300$ ; <sup>b</sup> $n = 146$ . \* $p < .10$  \*\* $p < .05$  \*\*\* $p < .01$

### Multivariate Analysis: Predictors of Child Outcomes

Outcome	Predictor	z	p
Strengths	<b>Involvement</b>	<b>2.26</b>	<b>.02</b>
	Empowerment	-.01	ns
	Involvement	.99	ns
Internalizing Problems	Satisfaction	2.22	.03
	Involvement	1.46	ns
Externalizing Problems	Satisfaction	-1.94	ns
	Involvement	3.09	ns
Problems	Empowerment	12.59	.0004
	<b>Involvement</b>	<b>2.26</b>	<b>.02</b>
	Satisfaction	-.04	ns

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- ### Discussion – What does it mean?
- Contributions
  - Implications
    - Practice – assessment as intervention
    - Policy – continued funding
    - Education – family provider partnerships
    - Future Research
      - Larger more diverse sample
      - Mechanisms of change
      - Fit
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