

Objectives

- Examine process of innovation diffusion of an evidence-based practice in two publicly-funded mental healthcare settings

Methods

- Collective case-based methodology
- Participants
 - 2 urban, publicly-funded mental health clinics
 - 35 outpatient and school-based clinicians randomized to one of two arms
 - 10 social workers; 6 counselors; 1 psychologist

Methods (continued)

- Quantitative Data
 - Children's Services Organizational Climate Survey
 - Provider Attitude Survey
 - Children's Depression Inventory (eligibility screen)
- Qualitative Data
 - Medical record review
 - Therapy audiotapes
 - Supervision records
 - Field notes
 - 16 key informant interviews

Stages of the Innovation-Decision Process

Stage/Variable	Appraisal	Acceptance	Adoption	Assimilation
Adolescent/ Family			X	
Intervention	X			
Provider		X	X	X
Organization	X			X
Environment				X

Stages

- Appraisal
 - Stakeholders have sufficient knowledge of and evaluate feasibility, acceptability, compatibility of CBT
- Acceptance
 - Stakeholders commit to adoption of and preparation for CBT
- Adoption
 - Stakeholders implement CBT with high degree of fidelity
- Assimilation
 - Stakeholders continue to implement CBT with moderate to high levels of fidelity

Inhibiting/ Activating Factors

- Adolescent/Family
- Intervention
- Clinician
- Organization
- External Environment

Results

- Appraisal
 - Buy-in from management (2 clinical directors and 2 quality improvement managers per site)
 - IRB protocol and individual site authorizations
 - Clinician selection, education and recruitment
 - Intervention options
 - Procedures for adolescent screening, enrollment, and treatment
 - Considerations for research and EBP implementation

Results (cont.)

- Acceptance
 - Of 35 eligible clinicians, 25 agreed to participate and were randomized (11 intervention; 14 usual care)
 - 9 completed training; 10 remained in usual care arm; 6 dropped out)
 - 74%, 63% and 84% had no experience with a CBT treatment manual, formal training or supervision, respectively
 - 25% said they plan to *never or rarely* use an EBT for youth depression in the next 6 months

Results (cont.)

- Adoption
 - 87 adolescents screen positive for depression
 - 70 agree to be contacted; 44 were eligible; 34 agree to participate
 - 16 and 18 adolescents assigned to intervention and usual care clinicians, respectively
 - In 63% of intervention cases, clinicians adhere closely or very closely to CBT protocol

Results (cont.)

- Assimilation
 - 8/9 clinicians participate in at least 3 monthly supervision sessions
 - One clinician attends all supervision sessions
 - 5/9 clinicians report using CBT at follow-up (3 use manual; 2 use "CBT skills")
 - 4/9 clinicians report no longer using CBT (2 use other interventions for depressed adolescents; 2 no longer provide direct service to depressed adolescents)

Appraisal Checklist

Adolescent/ Family	<ul style="list-style-type: none"> □ General expectations of treatment consistent with EBP □ Concordance on EBP target condition □ Minimal co-morbid conditions interfering with treatment □ Initial satisfaction with clinic/provider
Clinician	<ul style="list-style-type: none"> □ Level of prior exposure to EBP □ Positive expectations about EBP □ Able and willing to participate in training □ Proportion of clinicians devoted to full-time status □ Core of innovative, risk-taking clinicians □ Clinician meeting productivity requirements
Intervention	<ul style="list-style-type: none"> □ Strong evidence base □ Applicable to population □ Compatible with other treatment components □ Broad inclusion criteria □ Acceptable training requirements □ Feasible to implement in setting

Stages of CBT Implementation: Appraisal through Assimilation

Teresa L. Kramer, Ph.D.*

Division of Health Services Research
UAMS College of Medicine

Barbara J. Burns, Ph.D.

Center for Services Effectiveness Research
Duke University

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Appraisal Checklist (cont.)

Organization	<ul style="list-style-type: none"> ❑ Leadership advocates for EBP ❑ Organization supports new learning ❑ Leadership identifies, resources champions ❑ Milieu supports quality care ❑ Infrastructure working effectively to assist clinicians with productivity requirements ❑ Organization offers services compatible with EBP ❑ Resources available for EBP application ❑ Supervisory structure in place
Environment	<ul style="list-style-type: none"> ❑ Extent to which EBP is favored by external stakeholders (e.g., payers) ❑ Financial support provided for EBP initiation ❑ Incentives offered for EBP initiation ❑ Performance appraisals tied to EBP provision

Acceptance Checklist

Adolescent/ Family	<ul style="list-style-type: none"> ❑ Commitment to treatment ❑ Resources to initiate treatment ❑ Knowledge and acceptance of EBP ❑ Able to cognitively understand EBP approach to treatment ❑ Agree to treatment plan
Clinician	<ul style="list-style-type: none"> ❑ Attends training ❑ Competent to detect depression ❑ Willing to learn manual, workbook ❑ Confident about skills ❑ Willingness to take risks with new learning ❑ Not overwhelmed with productivity, paperwork ❑ Competent at completing authorization to treat ❑ Positive attitude toward EBP implementation

Acceptance Checklist (cont.)

Intervention	<ul style="list-style-type: none"> ❑ Adaptable for population ❑ Manual easy to master ❑ Training and materials available at minimal cost ❑ Addresses co-morbid conditions, crises, family concerns
Organization	<ul style="list-style-type: none"> ❑ Screening mechanisms in place ❑ Referrals provided for clinicians trained in EBP ❑ Monitoring system available to track EBP provision ❑ Specialty clinic, treatment algorithms in place ❑ Leaders enthusiastic, supportive ❑ Champions receive incentives for EBP "coaching" ❑ Positive staff morale
Environment	<ul style="list-style-type: none"> ❑ Reimbursements for care setting ❑ Authorizations streamlined for care ❑ Care setting amenable to EBP components

Adoption Checklist

Adolescent/ Family	<ul style="list-style-type: none"> ❑ Adheres to weekly/bi-weekly treatment regimen ❑ Minimal crises or ability to work with crises within the context of EBP ❑ High engagement in treatment ❑ Resources continue to be available for treatment ❑ Adolescent not diverted to other service agency ❑ Completes homework, in-session activities
Clinician	<ul style="list-style-type: none"> ❑ Participates in role plays in training, rehearses EBP components ❑ Able to engage adolescent/family in EBP process ❑ Willing to initiate EBP with 1-2 adolescents/families ❑ Maintains regular contact with agency, champion and EBP facilitator ❑ Maintains productivity requirements ❑ Accountable, accepts responsibility for learning ❑ Able to deal well with crises

Adoption Checklist (cont.)

Intervention	<ul style="list-style-type: none"> ❑ Incorporates strategies for engagement, motivation ❑ Supervision provided consistently in a feasible manner (e.g., transportation, continuing education, scheduling, location, modality) ❑ Instructions provided for "diversions" ❑ Parent(s) concerns addressed in an ongoing basis
Organization	<ul style="list-style-type: none"> ❑ Organization provides incentives to intervention therapists ❑ Champion remains engaged in EBP implementation ❑ Minimal paperwork requirements ❑ Leadership remains committed ❑ No major changes in organizational operations

Adoption Checklist (cont.)

Environment	<ul style="list-style-type: none"> ❑ No major changes in authorization procedures, paperwork requirements ❑ Incentives to organization for EBP implementation ❑ Continuing education framework
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Assimilation Checklist

Adolescent/ Family	<ul style="list-style-type: none"> ☐ Completes treatment regimen ☐ Continues to use EBP skills ☐ Receives "booster" sessions as needed
Clinician	<ul style="list-style-type: none"> ☐ Remains in current treatment setting ☐ Treats targeted population ☐ Retains interest, enthusiasm for EBP ☐ Receives ongoing supervision or "booster" sessions as needed ☐ Receptive to feedback to improve skills ☐ EBT becomes part of clinical repertoire
Intervention	<ul style="list-style-type: none"> ☐ Training and training materials easily replicated ☐ Ongoing supervision feasible ☐ Manuals can be reproduced, distributed widely

Assimilation Checklist

Organization	<ul style="list-style-type: none"> ☐ High retention of staff ☐ Infrastructure in place to continue screening ☐ Consistent service delivery model ☐ Referrals to trained clinicians sustained ☐ Incentives for trained clinicians to practice EBP ☐ Long-term financial sustainability for organization ☐ Milieu supports short-term treatment interventions ☐ Champion support, resources continue
Environment	<ul style="list-style-type: none"> ☐ Reimbursement for targeted condition(s)/EBP ☐ Sustained external funding ☐ Minimal leadership, policy changes ☐ Recognition by others external to organization of EBP implementation efforts

- ## Conclusions
- Implementation is a complex, dynamic process determined by multiple, interacting variables
 - Successful implementation requires long-term strategies that address activating and inhibiting variables at different stages
 - Of the clinicians who adopted CBT, none stated that organizational and environmental variables **facilitated** their work. However, non-adopters stated organizational and environmental variables **inhibited** their work.

- ## Clinical Implications
- Training and training manuals must provide explicit instructions on how and when to deviate from and return to the protocol
 - Protocols should address co-morbid symptoms, particularly aggressive behaviors, ADHD and trauma-related problems
 - Training and supervision must include strategies to confront adolescent and family non-adherence, e.g., greater focus on motivation interviewing techniques

- ## Clinical Implications
- Individually-oriented EBP may be most effective when augmented by case management in highly volatile families
 - Thorough assessment of activating and inhibiting variables relevant to the settings and development of counter-strategies are critical to successful implementation