

# Evidence-based Synthesis Program (ESP)

Family Involved Psychosocial Treatments For Adult  
Mental Health Conditions

A Review of the Evidence

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# Evidence-based Synthesis Program (ESP)

## Acknowledgements

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# Evidence-based Synthesis Program (ESP)

## Disclosure

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# Evidence-based Synthesis Program (ESP)

## VA Evidence-based Synthesis (ESP) Program Overview

- **Sponsored by VA Office of Research & Development, Quality Enhancement Research Initiative (QUERI).**
- **Established to provide timely and accurate syntheses/reviews of healthcare topics identified by VA clinicians, managers and policy-makers, as they work to improve the health and healthcare of Veterans.**
- **Builds on staff and expertise already in place at the Evidence-based Practice Centers (EPC) designated by AHRQ. Four of these EPCs are also ESP Centers:**
  - **Durham VA Medical Center; VA Greater Los Angeles Health Care System; Portland VA Medical Center; and Minneapolis VA Medical Center.**

# Evidence-based Synthesis Program (ESP)

- Provides evidence syntheses on important clinical practice topics relevant to Veterans, and these reports help:
  - develop clinical policies informed by evidence,
  - the implementation of effective services to improve patient outcomes and to support VA clinical practice guidelines and performance measures, and
  - guide the direction for future research to address gaps in clinical knowledge.
- Broad topic nomination process – e.g. VACO, VISNs, field – facilitated by ESP Coordinating Center (Portland) through online process:

<http://www.hsrd.research.va.gov/publications/esp/TopicNomination.cfm>

# Evidence-based Synthesis Program (ESP)

- Steering Committee representing research and operations (PCS, OQP, ONS, and VISN) provides oversight and guides program direction.
- Technical Advisory Panel (TAP)
  - Recruited for each topic to provide content expertise.
  - Guides topic development; refines the key questions.
  - Reviews data/draft report.
- External Peer Reviewers & Policy Partners
  - Reviews and comments on draft report
- Final reports posted on VA HSR&D website and disseminated widely through the VA.

<http://www.hsrd.research.va.gov/publications/esp/reports.cfm>

# Evidence-based Synthesis Program (ESP)

## Current Report

### Family Involved Psychosocial Treatments For Adult Mental Health Conditions

A Review of the Evidence

June, 2012

Full-length report available on ESP website:

<http://www.hsrd.research.va.gov/publications/esp/reports.cfm>

# Family Involved Psychosocial Treatments

## Overview

1. Need for Review
2. Key Questions
3. Search Strategy
4. Analyses and Approach
5. Results
  - Describe RCTs Broadly
  - Address Key Question 1 by Condition
  - Address Key Question 2 by Condition
6. Summarize
7. Limitations
8. Future Research

# Poll Question #1

**What is your primary roll in the VA?**

1. Student, trainee, or fellow
2. Clinician
3. Researcher
4. Manager or other policy maker
5. Other

# Family Involved Psychosocial Treatments

## Rationale

- Shifts in VA Care
  - Greater emphasis on including families
  - Expanding VA authority to provide family services
- Need to Identify
  - Efficacious and promising family interventions
  - Which family interventions are superior to alternative approaches (individually-oriented or family-oriented)
  - Physical and Mental Health

# Poll Question #2

**My knowledge of evidence based family treatments for mental health conditions is**

- This is my first exposure
- Novice
- Moderately familiar
- I have training in family mental health treatment(s)
- I deliver or research family mental health treatment(s)

# Present Study

## Key Questions

### Key Question 1: Efficacy

- What is the efficacy of family involved interventions in improving outcomes for adult patients with mental health conditions
  - compared to no psychosocial treatment: (a) waitlist/no treatment or (b) medication management only

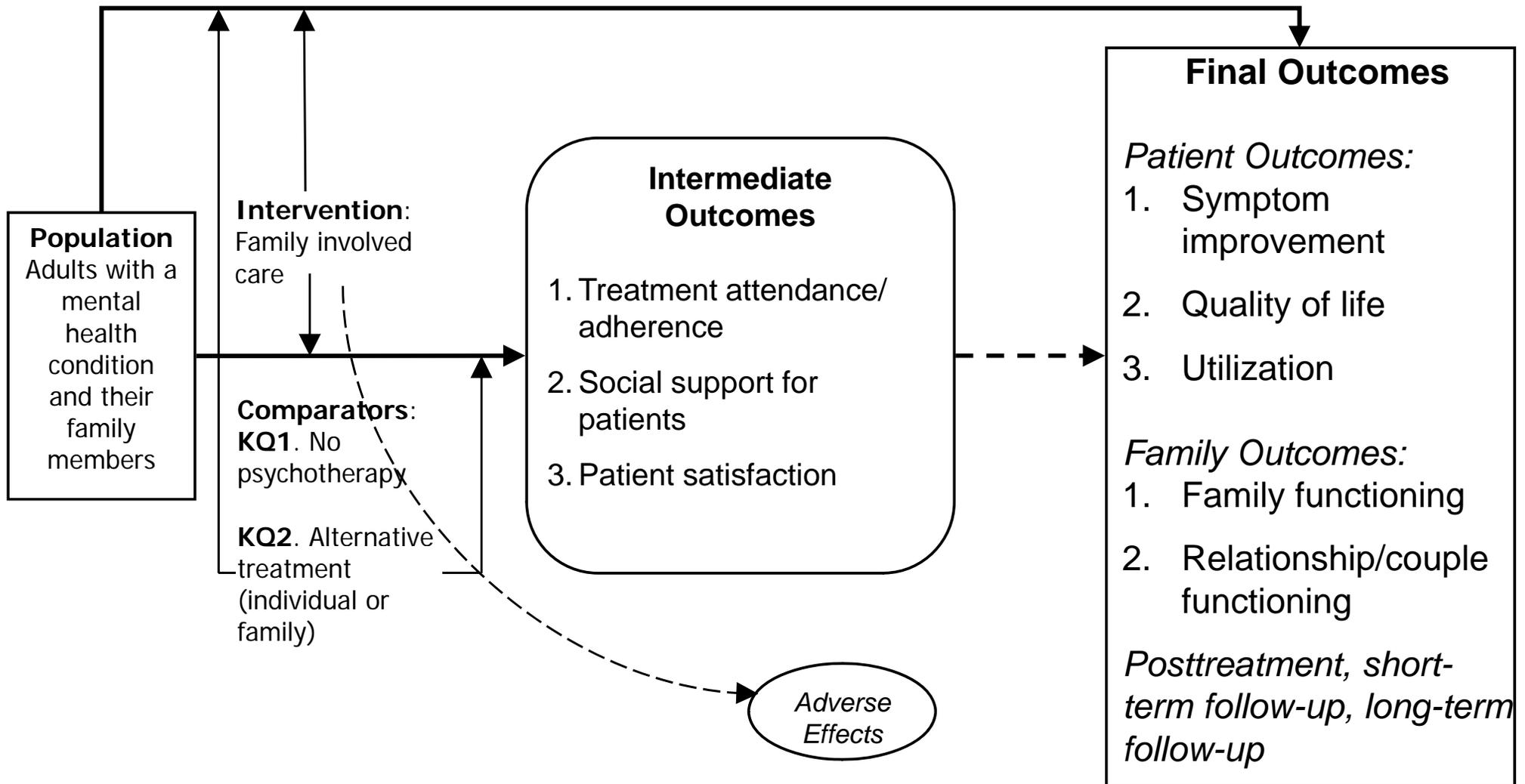
# Present Study

## Key Questions

### Key Question 2: Specificity

- What is the effectiveness of family involved interventions *compared to alternative interventions* in improving outcomes for adult patients with mental health conditions
  - compared to any (a) individually-oriented or (b) alternative family-oriented psychosocial intervention

# Analytic Framework with Patient (vs Caregiver) Focused Outcomes



# Search Strategy

- Literature Search:
  - MEDLINE and PsycINFO
  - Search terms included:
    - family, couples, home nursing, legal guardians, grandparents  
OR
    - couple therapy, family therapy, and marital therapy
- **Inclusion Criteria**
  - 1996 to Nov 2011
  - English
  - RCT/RCT review
  - Family-involved psychosocial treatment
  - Mental health condition
- **Exclusion Criteria**
  - Age < 18
  - Non-US study
  - No outcomes of interest
  - Not a condition of interest

# Analyses

**For all interventions, we rated their efficacy, strength of evidence, and quality of each RCT**

## Efficacy

- Efficacious and specific: superior in at least 2 RCTs conducted by independent research teams compared to placebo, nonspecific, or an alternative intervention
- Efficacious: superior in at least 2 RCTs conducted by independent research teams compared no psychosocial treatment
- Possibly efficacious or possibly efficacious and specific: above criteria are met by a 1 study

# Analyses

## Study Quality (fair, good, poor)

- Allocation concealment, blinding, intention-to-treat analysis, reporting of withdrawals/drop-outs (Higgins, 2011)
- Treatment integrity: Use of manuals, supervision, fidelity to manual

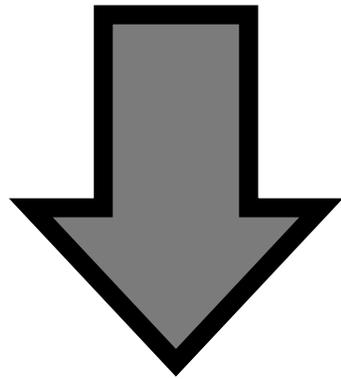
## Strength of Evidence (low, moderate, high):

- Confidence that the evidence reflects true effect and additional research is unlikely to change estimate of the effect (Owens, 2010)

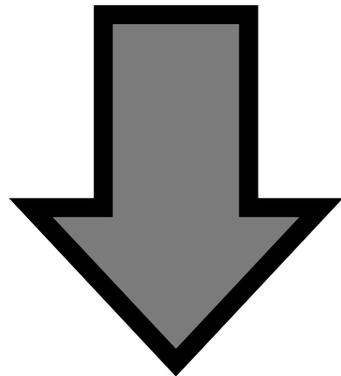
## Pooled analyses

- Behavioral couples therapy for substance use
- Weighted mean differences and Hedges'  $g$  adjusted for sample size using a random-effects model (.2 small, .5 medium, .8 large effect size)

# Literature Search Results



**Screening:** 2,469 abstracts reviewed  
(excluded 2,025); 444 full text articles  
reviewed



**Full Text Review:** 444 articles  
(excluded 397); hand search/author  
correspondence added 4

**Included: 51 articles**

**39 unique RCTs**

# Overview of RCTs

Mental Health Condition	Unique Trials	Veteran Trials
Substance Use Disorders	22	3
Bipolar	6	NR
Schizophrenia Spectrum	4	NR
Posttraumatic Stress Disorder (PTSD)	2	1
Erectile Dysfunction	2	NR
Depression	1	NR
Binge Eating Disorder	1	NR
Nicotine Dependence	1	NR
Total	39	4

NR = not reported

# Overview of RCTs

21 different active family treatments

Most of fair quality

- 10 good, 20 fair, 9 poor

Exclusions

- Active psychosis, suicidality, intimate partner violence, pregnancy or counter-indicated medical conditions when medication was required (e.g., psychotic disorders, erectile functioning)
- Dual substance use disorders

KQ1 (efficacy): 8 with waitlist or medication only

KQ2 (specificity): 33 with an alternative intervention (less, similarly, or more intensive)

# Key Question 1: Efficacy *vs Waitlist or Medication*

**Mixed evidence with non-significant findings or findings favoring family treatment across 6 mental health conditions**

Improved symptoms and marital adjustment

- Depression (1 trial)
  - Brief, disorder specific, cognitive behavioral couple therapy

Improved initiation/attendance

- 2 trials: PTSD and substance use
  - Family involving in aftercare planning while in detox
  - Coffee and Family Education and Support groups (CAFES)

# Key Question 1: Efficacy *vs Waitlist or Medication*

No differences in symptoms

- Bipolar disorder (2 trials)
  - Better global functioning and medication adherence
  - *Distressed families*: lower mood episodes
- Erectile dysfunction (2 trials)
  - Greater satisfaction with treatment
- PTSD (1 trial)
  - Initially better outcomes erode with time
  - Higher drop out
- Binge eating disorder (1 trial)
  - Lower binge eating, but similar to individually-oriented intervention

# Key Question 2: Specificity

## *Substance Use Disorders*

### **Substance use disorders (21 trials)**

- BFT or BCT (16 trials)
  - Pooled analyses comparing BCT/BFT to individual therapy
    - 9 pooled on substance use outcomes (percent days abstinent)
    - 10 pooled on relationship adjustment (Dyadic Adjustment Scale)
- CRAFT (3 trials)
- Single trial interventions (2 trials)

# Key Question 2: Specificity

## *Substance Use Disorders*

### **BCT/BFT versus individual therapy**

Slower rate of relapse for the BCT/BFT

- Intervention effects eroded more slowly

#### Meta-Analyses

- BCT/BFT greater days abstinent post treatment, short term, and long term follow-up compared to individually-oriented treatment
  - Post: weighted mean difference (WMD) = 4.43% days abstinent, 95% CI = 2.16, 6.70
  - 6 months: WMD = 11.21% days abstinent, 95% CI = 7.17, 15.24
  - 12 months: WMD = 11.93% days abstinent, 95% CI = 7.82, 16.04.

# Key Question 2: Specificity

## *Substance Use Disorders*

### Sensitivity Analysis

Weighted Mean Difference between BCT/BFT and Individual Treatment			
Difference in Days Use	Post	6m	12m
Per month (all trials) <sup>1</sup>			
Per month (other labs) <sup>2</sup>			
Per year (all trials) <sup>1</sup>			
Per year (other labs) <sup>2</sup>			

<sup>1</sup>9 trials; <sup>2</sup>2 trials; <sup>3</sup>1 trial

# Key Question 2: Specificity

## *Substance Use Disorders*

### Sensitivity Analysis

Weighted Mean Difference between BCT/BFT and Individual Treatment			
Difference in Days Use	Post	6m	12m
Per month (all trials) <sup>1</sup>	1.3	3.4	3.6
Per month (other labs) <sup>2</sup>	3.8	4.1	3.7 <sup>3</sup>
Per year (all trials) <sup>1</sup>	16.2	40.9	43.5
Per year (other labs) <sup>2</sup>	46.4	49.7	44.9 <sup>3</sup>

<sup>1</sup>9 trials; <sup>2</sup>2 trials; <sup>3</sup>1 trial

# Key Question 2: Specificity

## *Substance Use Disorders*

### Sensitivity Analysis

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<sup>1</sup>9 trials; <sup>2</sup>2 trials; <sup>3</sup>1 trial

# Key Question 2: Specificity

## *Substance Use Disorders*

### Relationship Adjustment Outcomes

- Significant group differences favoring BCT at all time points

Indicator	Post	6m	12m
BCT Average DAS <sup>1</sup>			
Individual Therapy Average DAS <sup>1</sup>			
Effect Size			
Confidence Interval			

*Note.* Below 97.5 used as a screen for relationship distress (scores range from 0 – 151; Christenson et al. 2004). <sup>1</sup>Weighted Means.

# Key Question 2: Specificity

## *Substance Use Disorders*

### Relationship Adjustment Outcomes

- Significant group differences favoring BCT at all time points

Indicator	Post	6m	12m
BCT Average DAS <sup>1</sup>	112.7	106.8	101.2
Individual Therapy Average DAS <sup>1</sup>	100.5	93.5	90
Effect Size	0.75	0.78	0.52
Confidence Interval	0.56-0.93	0.52-1.03	0.16-0.88

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# Key Question 2: Specificity

## *Substance Use Disorders*

### BCT Alterations

- BFT vs. individual therapy (2 trials)
  - One trial found no differences in substance use
  - The other trial favored BFT at 18 months
    - differences eroded at 30 months
- BCT vs. brief BCT (2 trials)
  - outcomes largely similar

# Key Question 2: Specificity

## *Substance Use Disorders*

### Some BCT Alterations and Subgroups

#### BCT vs. BCT + relapse prevention (2 trials)

- One trial found no differences
- The other trial, a *Veteran study*, BCT + relapse prevention superior on substance use 18 months posttreatment
  - Differences eroded at 30 months
  - For BCT alone: relationship adjustment improved from pre through 12 months
  - For BCT + relapse prevention: relationship adjustment improved from pre through 24 months
  - Strongest difference among distressed couples

# Key Question 2: Specificity

## *Substance Use Disorders*

### **CRAFT (3 trials)**

- Compared to alternative family interventions
  - Improves initiation by 30 to 48%
  - No significant difference in substance use (2 trials)
  - No significant difference in couple/family functioning (2 trials)

### **2 Additional Opioid Interventions**

- Greater heroin use and less partner support among men with dual using, treatment seeking, pregnant partners
- Improved family functioning but not substance use among opioid users

# Substance Use Disorders: *Initially Efficacious and/or Specific*

Family Intervention

Comparator

Outcome

Efficacy Evidence

ND = No Differences; 1 = Efficacious & Specific; 2 = Efficacious; 3 = *Possibly* Efficacious & Specific (1 study); 4 = *Possibly* Efficacious (1 study); Moderate = moderate confidence evidence reflects true effect. Low = Low confidence evidence reflects true effect. <sup>a</sup>7 of 9 trials conducted by a single laboratory.

# Substance Use Disorders:

## *Initially Efficacious and/or Specific*

Family Intervention	Comparator	Outcome	Efficacy	Evidence
BCT	Individual Behavioral Therapy	Substance Use	1	Moderate <sup>a</sup>
		Relationship Adjustment	1	Moderate <sup>a</sup>
BCT + relapse prevention	BCT	Substance Use	3	Low
		Relationship Adjustment	ND	Low
BFT	Individual Behavioral Therapy	Substance Use	3	Low
		Family Functioning	3	Low

ND = No Differences; 1 = Efficacious & Specific; 2 = Efficacious; 3 = *Possibly* Efficacious & Specific (1 study); 4 = *Possibly* Efficacious (1 study); Moderate = moderate confidence evidence reflects true effect. Low = Low confidence evidence reflects true effect. <sup>a</sup>7 of 9 trials conducted by a single laboratory.

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BCT + relapse prevention	BCT	Substance Use	3	Low
		Relationship Adjustment	ND	Low
BFT	Individual Behavioral Therapy	Substance Use	3	Low
		Family Functioning	3	Low
CRAFT	Alternative Family Treatments	Substance Use	ND	Low
		Family Functioning	ND	Low
		Treatment Initiation	1	Moderate
Family aftercare for detox	Detox only	Substance Use	ND	Low
		Treatment Engagement	3	Low
Couple counseling, contingency management, & Naltrexone	Contingency management & naltrexone	Substance Use	ND	Low
		Family Functioning	3	Low

ND = No Differences; 1 = Efficacious & Specific; 2 = Efficacious; 3 = *Possibly* Efficacious & Specific (1 study); 4 = *Possibly* Efficacious (1 study); Moderate = Moderate confidence evidence reflects true effect. Low = Low confidence evidence reflects true effect. <sup>a</sup>7 of 9 trials conducted by a single laboratory.

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BFT	Individual Behavioral Therapy	Substance Use	3	Low
		Family Functioning	3	Low
CRAFT	Alternative Family Treatments	Substance Use	ND	Low
		Family Functioning	ND	Low
		Treatment Initiation	1	Moderate
Family aftercare for detox	Detox only	Substance Use	ND	Low
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Couple counseling, contingency management, & Naltrexone	Contingency management & naltrexone	Substance Use	ND	Low
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# Key Question 2: Specificity

## *Bipolar Disorder (5 trials)*

**Family Focused Treatment (FFT) superior to less intensive but no different from equally intensive interventions**

- FFT or FFT-Health Promoting Intervention (FFT-HPI): 4 trials
- Better symptom response than alternative, less intensive, family interventions (2 trials)
  - Mixed differences with individual therapy (2 trials)

- General Family Therapy vs. Disorder Specific Multifamily Groups: 1 trial
- No differences in recovery rates

# Bipolar Disorder:

## *Initially Efficacious and/or Specific*

Family Intervention	Comparator	Outcome	Efficacy	Evidence
FFT Health Promoting	Health Information DVDs	Symptoms	3	Low
FFT	Crisis Management with In-Home Family Sessions	Symptoms	3	Low
	Individual Psychoeducation	Symptoms	3	Low
	Cognitive Behavioral Therapy	Symptoms	ND	Low
	Interpersonal and Social Rhythm Therapy	Symptoms	ND	Low

*Note.* ND = No Differences; 1 = Efficacious & Specific; 2 = Efficacious; 3 = *Possibly* Efficacious & Specific (1 study); 4 = *Possibly* Efficacious (1 study); Moderate = Moderate confidence evidence reflects true effect. Low = Low confidence evidence reflects true effect.

# Key Question 2: Specificity

## *Schizophrenia (4 trials)*

### **Long Term Interventions with Complex Patients and Mixed Findings**

#### Multifamily Psychoeducational Groups vs Individual Psychoeducational Intervention (1 trial)

- Mixed findings
  - One year into treatment: Favored multifamily groups in negative symptoms and 12% lower state hospitalization
  - One year after 2 year treatment: No differences in hospitalization or crisis care

# Key Question 2: Specificity

## *Schizophrenia (4 trials)*

### Intensive vs. Less Intensive Family Interventions (3 trials)

- No differences in
  - symptoms (2 trials), rates of hospitalization (2 trials), family adjustment (1 trial)
- Significant differences favoring intensive treatments in
  - Employment during 2 year treatment not by final assessment (1 trial)
  - Rates of family rejection (1 trial)
  - Schizophrenia symptoms for dual diagnosis patients (schizophrenia and substance use) but not lower substance use (1 trial)

# Schizophrenia:

## *Initially Efficacious and/or Specific*

Family Intervention	Comparator	Outcome	Efficacy	Evidence
Multiple Family Groups	Standard, individually-oriented care	Symptoms	3	Low
		Any Hospitalization State	ND	Low
		Hospitalization	3	Low
Applied Family Management	Family intervention	Symptoms	ND	Low
		Family Adjustment	ND	Low
		Patient Rejection	3	Low
Family Intervention for Dual Disorder	Short term psychoeducation	Schizophrenia Symptoms	3	Low
		Substance Use	ND	Low

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## Key Question 2: Specificity

### *Additional Single Trial Conditions (2 trials)*

#### PTSD

- No significant differences in PTSD symptoms between exposure therapy with or without family therapy for Vietnam Veterans
- Higher rates of drop out

#### Binge Eating Disorder

- No differences between CBT for binge eating with or without spouse involvement (partner-assisted)

#### Smoking among Pregnant Women

- No differences between individually oriented or partner assisted treatment

# Conclusions

**Since 1995, literature largely underdeveloped outside of substance use**

Outside of BCT and CRAFT, many trials did not compare conditions on

- Family/couple functioning
- Treatment adherence
- Satisfaction with care

**Many studies evinced mixed findings either favoring family treatment or demonstrating non-significant differences**

# Conclusions

## Two Exceptions: Few negative effects

- PTSD: Exposure therapy + disorder specific family therapy led to greater treatment drop out
- Heroin use: Family intervention for male opioid users with pregnant opioid dependent treatment-seeking patients led to greater heroin use and poorer support

# Conclusions

*Efficacious and Specific Interventions for Substance Use*

## **BCT or BFT (16 trials)**

- Improves substance use and relationship adjustment more than individual therapy
- Many trials in the same research group
- Most trials excluded participants where family had a substance use disorder

# Conclusions

*Efficacious and Specific Interventions for Substance Use*

## **CRAFT (3 trials)**

- Improves treatment initiation (intermediate outcome)
- Differences in substance and family functioning non-significant
- *CRAFT is designed in promote initiation*
  - Should be paired with an evidence based treatment to ensure adequate treatment response

# Conclusions:

## *Bipolar and Schizophrenia*

### FFT or FFT-HPI (4 trials)

- Better symptom response than alternative, less intensive, family interventions (2 trials)
- Mixed differences with equally intensive, individual interventions
- No family outcomes reported

### Schizophrenia studies

- Efficacy of family treatments established prior to this review
- Studies reviewed included complex cases (multiple diagnoses or problems), but provided little clarity regarding which family interventions are best

# Conclusions

## *Limitations among Trials Reviewed*

### **Most trials were**

- Fair to poor quality
- Mostly white, male samples, under 40 years old
- Excluded participants with co-occurring substance use, clinical crisis, history of family/partner violence
- Did not target or exclude participants with other co-occurring problems or disorders (2 RCTs for schizophrenia required complex cases for inclusion)
- Did not report on Veteran status (3 exceptions)

**Applicability to Veterans and complicated patients largely unknown**

# Limitations

Studies published since 1996

- Few studies addressing KQ1 (efficacy)

Studies conducted in the US

- Additional work exists outside the US, but applicability of these trials to US Veterans unknown

Only RCTs

- Numerous family interventions in various stages of development and evaluation

Only patient outcomes of interest

- Caregiver interventions and family perspectives are also important for further review

# Future Research

- RCTs with Veterans and understudied conditions
- Family interventions may be more effective with distressed couples
- RCTs addressing multiple problems/conditions with non-white, female, and older populations
- Preferences for individual versus family-oriented treatments
- Methods of motivating family and veterans for family care
- Alternative family and couple constellations

# Evidence-based Synthesis Program (ESP)

## Questions?

If you have further questions,  
feel free to contact:

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The full report and cyberseminar presentation is available on the ESP website:

<http://www.hsrp.research.va.gov/publications/esp/>