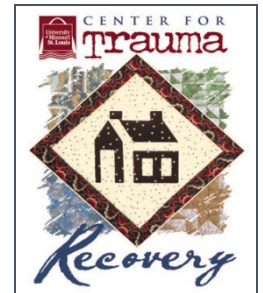


Cognitive Processing Therapy: Moving Towards Effectiveness Research

Courtney Chappuis, M.A., Chelsea Gloth, M.A.,
& Tara Galovski, Ph.D.

University of Missouri-St. Louis



Overview

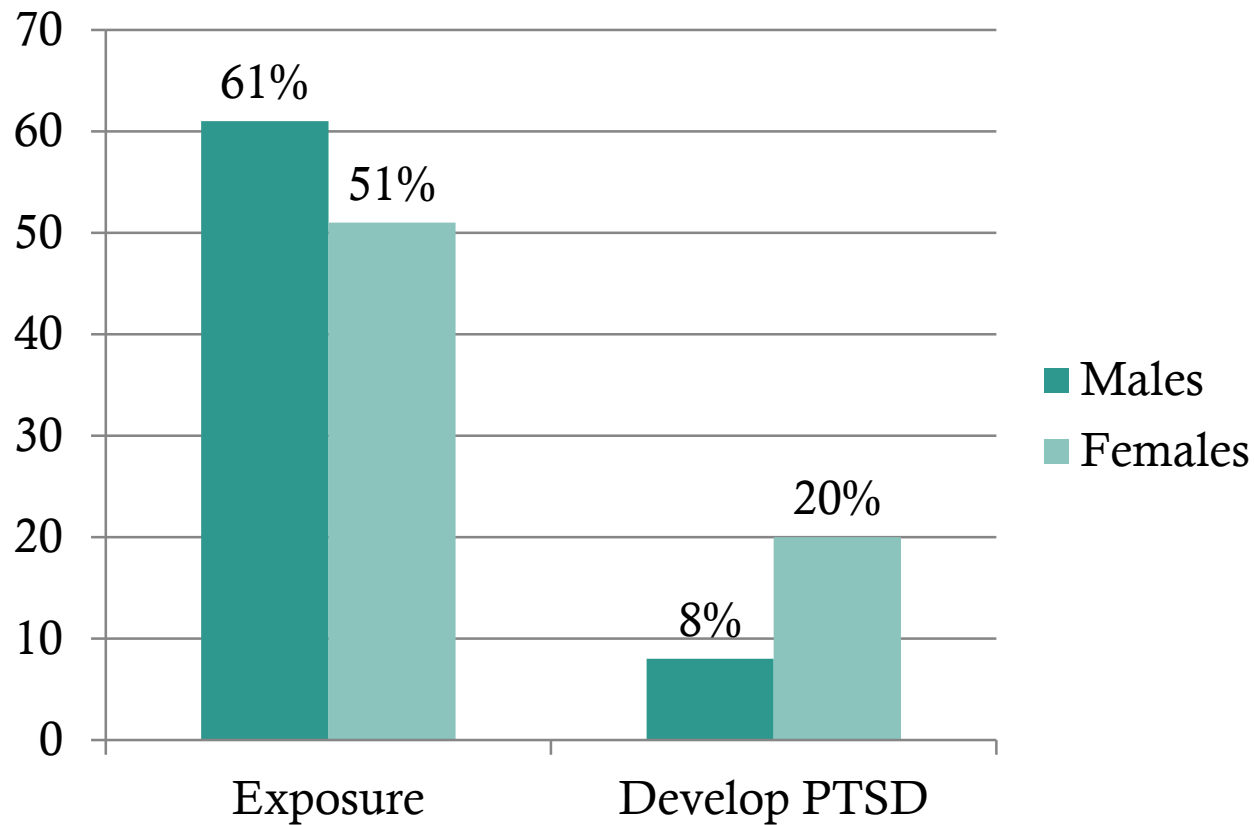
- Brief review of trauma and PTSD
- Overview of Cognitive Processing Therapy (CPT)
- Discussion of new developments
 - Flexing the structure of the manual
 - Coping with patient crises
 - Supplements to the CPT protocol
- Future research directions

Prevalence

- Trauma exposure
 - 40-60% of adults experience at least 1 lifetime trauma (Breslau, 1991; Norris, 1992)
- Psychopathology
 - Overall lifetime prevalence rate of PTSD for the general population ranges from 8% to 12% (American Psychiatric Association [*DSM-IV-TR*], 2000; Kessler, 2000)

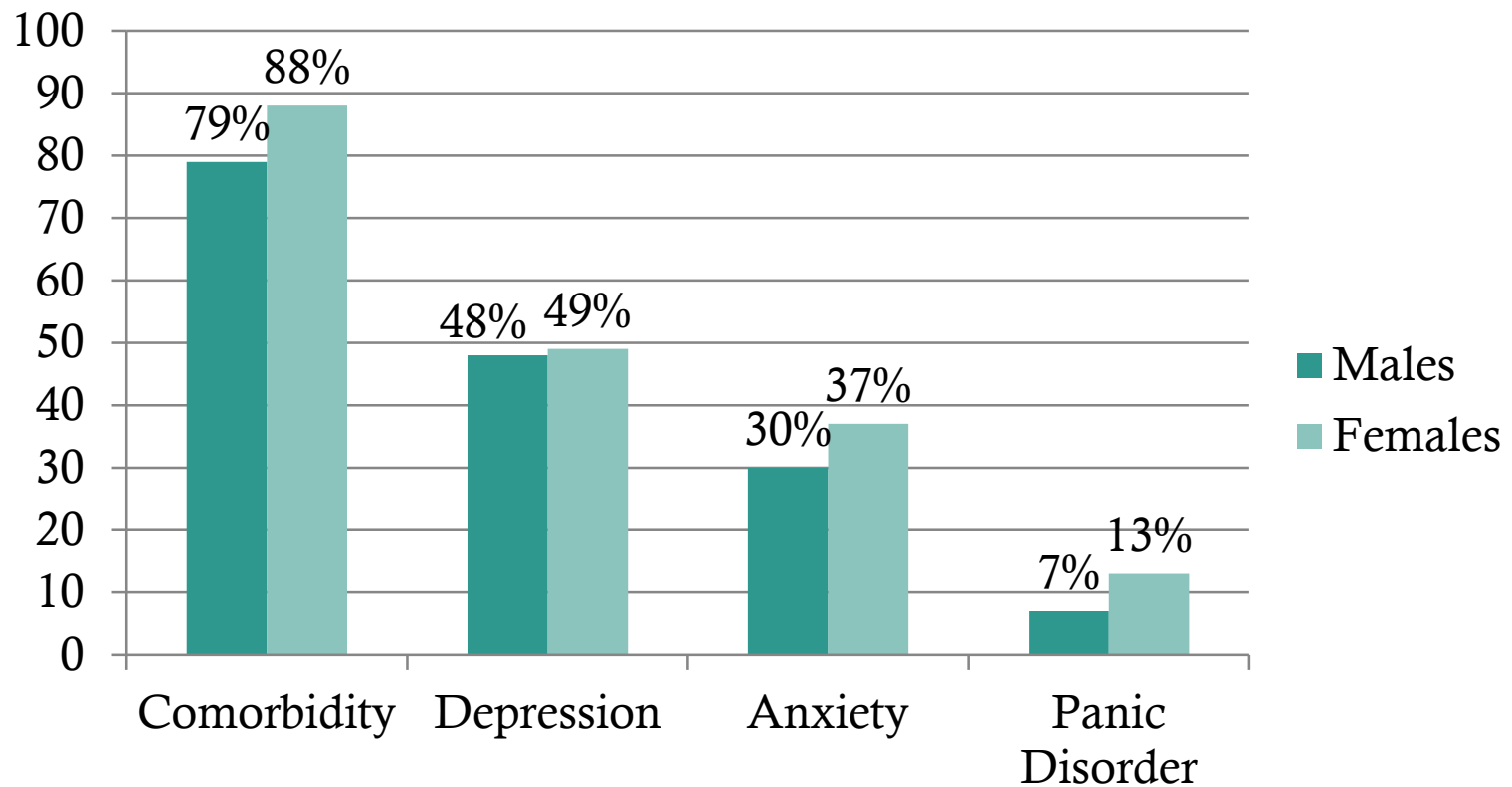
Gender Differences in PTSD

(Kessler, 1995)



(Kessler, 1995)

Psychiatric Comorbidity



Gender Differences in Treatment Outcome

- Research is limited
- Gender disparities in trauma literature
 - Rape and sexual assault literature
 - Focus on females
 - Combat literature
 - Focus on males

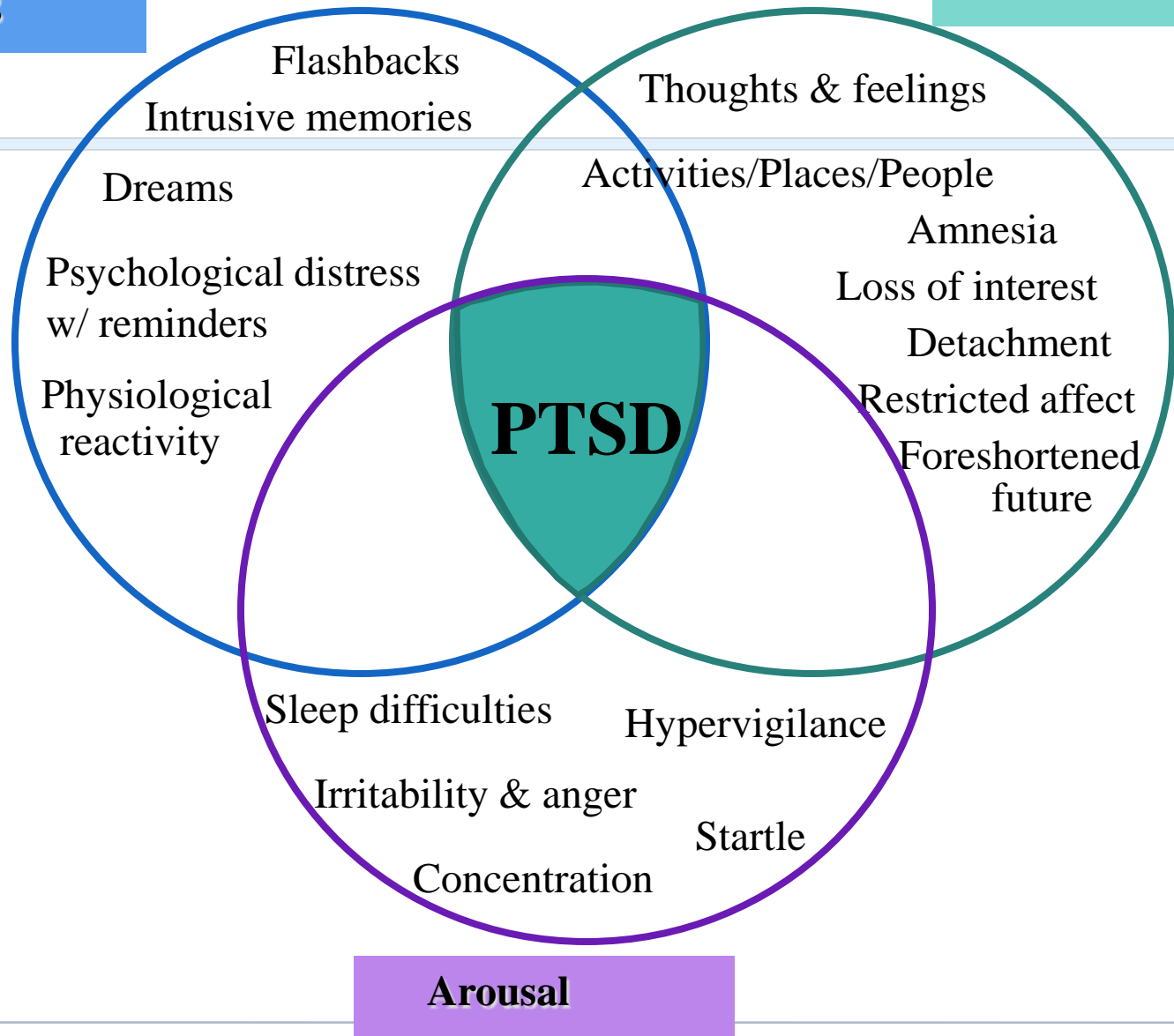
PTSD - Criterion A

- “A person must experience or witness, or be confronted with an event that involved actual or threatened death, or threat of serious injury or a threat to the physical integrity of self or others which is met with extreme fear, helplessness, or horror.”
- Symptoms must persist for 1 month after trauma

Reexperiencing

Avoidance

Post
Traumatic
Stress
Disorder

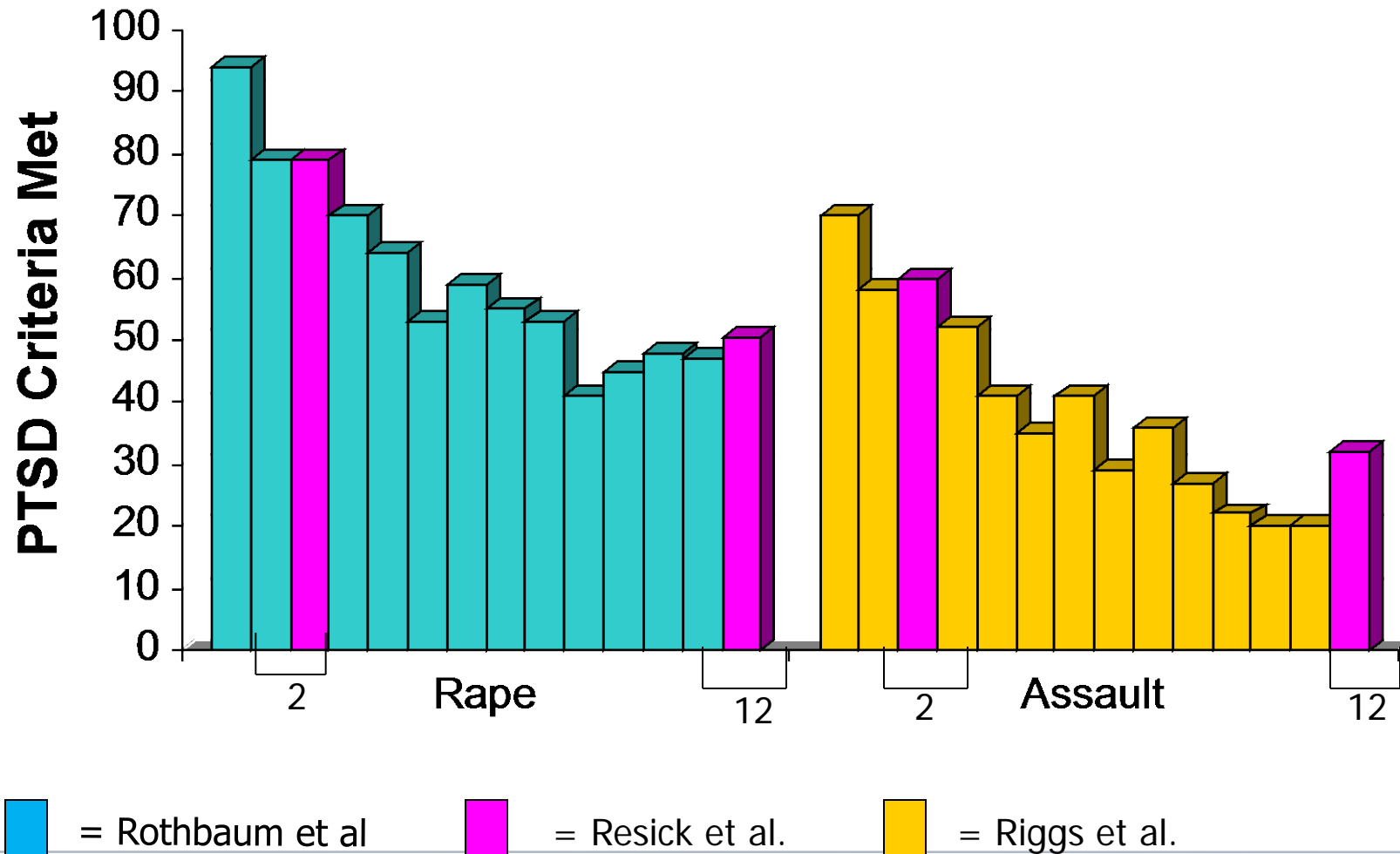


Why does PTSD develop?

- Disorder of non-recovery
 - If the event is severe enough, nearly everyone will have symptoms reflective of PTSD
 - Over time, those symptoms decrease
 - Those that get stuck in the recovery process may go on to meet full criteria for PTSD

Normal Recovery

Weekly PTSD



What is Cognitive Processing Therapy (CPT)?

A short-term
evidence-based
treatment for
PTSD

A specific protocol
that is a form of
cognitive
behavioral

Predominantly
cognitive and may
or may not include
a written account

A treatment that
can be conducted in
groups or
individually

Cognitive Theory of Trauma

- Throughout their lives, people are taking in information through all of their senses
- We work to organize all of that information (words, categories, schemas, etc.) in an attempt to understand, predict and control
- Most people are taught the “just world belief”
 - Good behavior is rewarded
 - Bad behavior is punished

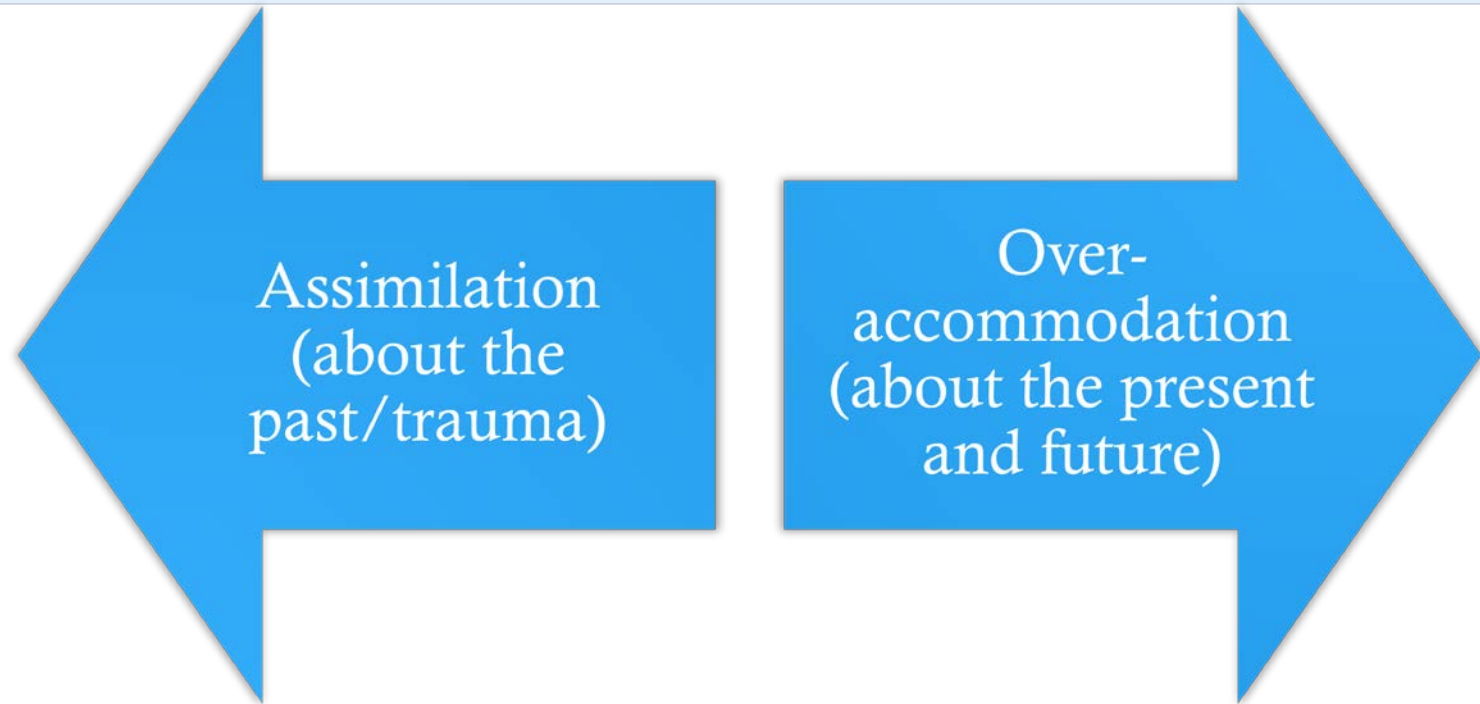
Cognitive Theory of Trauma

- These beliefs work as long as there is no contradictory information
- In PTSD, trauma memories either:
 - Conflict with prior positive schemas
 - Appear to confirm maladaptive negative schemas (which may have developed after previous traumas)

Cognitive Theory of Trauma

- **Assimilation** = Distorting event to fit prior schemas
- **Accommodation** = Changing schemas to integrate trauma
- **Over-accommodation** = Overgeneralizing trauma-induced schemas regarding self and others

Identifying Stuck Points



Guilt or blame
("if only..., should have")

Implications of trauma
("never, always, no one")

So what about emotions?

```
graph LR; A[Natural Emotions] --> B[Allow yourself to feel and they will dissipate quickly]; C[Manufactured Emotions] --> D[Change your thinking]
```

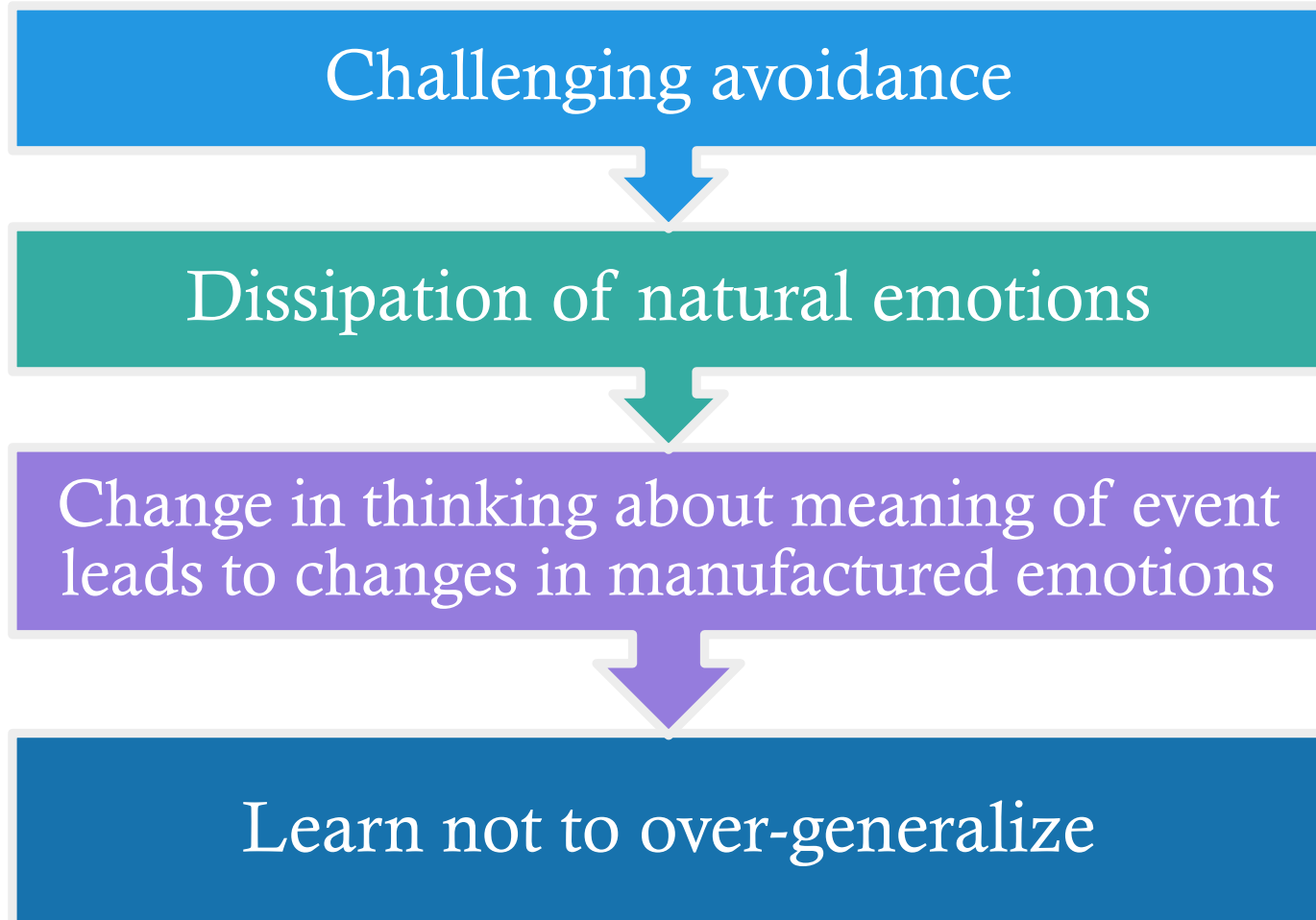
Natural
Emotions

Allow yourself to
feel and they will
dissipate quickly

Manufactured
Emotions

Change your
thinking

So how does CPT work?



Components of CPT

- **Written Trauma Account**
 - Exposure to the traumatic memory
 - Writing and reading about the traumatic event
 - Include all five senses
 - Include feelings / thoughts that occurred during the event
 - Encourage experiencing and expressing of emotions

Components of CPT

- **Cognitive Challenging and Restructuring**
 - Identification of “stuck points”
 - Use of Socratic methods to begin to challenge stuck points
 - Assimilation
 - Over-accommodation
 - Generation of alternative thoughts

CPT Protocol Overview

- Session 1: Education on PTSD, thoughts, and feeling
- Session 2: Meaning of the trauma
- Session 3: Connection between events, thoughts, and feelings
- Session 4: Processing the trauma
- Sessions 5-7: Learning to challenge
- Sessions 8-12: Focus on specific domains
 - Safety, trust, power/control, esteem, intimacy

A. Situation	B. Thought/Stuck Point	D. Challenging Thoughts	E. Problematic Patterns	F. Alternative Thought(s)
Describe the event, thought or belief leading to the unpleasant emotion(s).	Write thought/stuck point related to Column A. Rate belief in each thought/stuck point below from 0-100% (How much do you believe this thought?)	Use Challenging Questions to examine your automatic thought from Column B. Consider if the thought is balanced and factual or extreme.	Use the Patterns of Problematic Thinking Worksheet to decide if this is one of your problematic patterns of thinking.	What else can I say instead of Column B? How else can I interpret the event instead of Column B? Rate belief in alternative thought(s) from 0-100%
<i>I led my company into an ambush, and many of my men were killed.</i>	<p><i>I should have prevented it – it is my fault that people were killed. – 100%</i></p> <p>C. Emotion(s)</p> <p>Specify sad, angry, etc., and rate how strongly you feel each emotion from 0-100%</p> <p><i>Guilt – 100%</i> <i>Helpless – 100%</i> <i>Anxious – 75%</i></p>	<p>Evidence For? <i>People were killed.</i></p> <p>Evidence Against? <i>There was no way to know that there was going to be an ambush—that's the nature of an ambush. To think I should have known it was coming is to ignore the fact that it was an ambush.</i></p> <p>Habit or fact?</p> <p>Interpretations not accurate?</p> <p>All or none? <i>No one else would have led their company into an ambush.</i></p> <p>Extreme or exaggerated?</p> <p>Out of context?</p> <p>Source unreliable?</p> <p>Low versus high probability?</p> <p>Based on feelings or facts?</p> <p>Irrelevant factors?</p>	<p>Jumping to conclusions:</p> <p>Exaggerating or minimizing:</p> <p>Disregarding important aspects: <i>I haven't been paying attention to the fact that it was an ambush. There was no way I could have known.</i></p> <p>Oversimplifying:</p> <p>Over-generalizing:</p> <p>Mind reading:</p> <p>Emotional reasoning: <i>Because I feel guilty, I AM guilty.</i></p>	<p><i>There was no way to see it coming at the time. – 85%</i></p> <p><i>I did the best I could given the circumstances. – 90%</i></p> <p><i>It's not my fault that people were killed in the ambush. – 75%</i></p> <p>G. Re-rate Old Thought/Stuck Point</p> <p>Re-rate how much you now believe the thought/stuck point in Column B from 0-100%</p> <p><i>10%</i></p> <p>H. Emotion(s)</p> <p>Now what do you feel? 0-100%</p> <p><i>Guilt – 40%</i> <i>Helpless – 80%</i> <i>Anxious – 40%</i></p>

CPT: From RCT to Practice

- Obstacles to Dissemination of evidence based treatments (EBTs):
 - Perceived overall lack of ecological validity of EBTs
 - Lack of flexibility of treatment manuals in RCTs
 - Use of highly trained therapists
 - Misguided focus on outcome rather than process
 - Unrealistic number of fixed sessions in RCTs
 - High drop-out rates and refractory clients

“This would never work for MY client!”

Patient report

- “The only thing that was bad about this treatment was that I couldn’t continue with it for longer... My suggestion, as an option to stopping therapy abruptly and completely, and as a way to ensure more lasting, deeper results (in thinking patterns, etc.), would be to give the client the choice to continue or not. They could continue until they feel comfortable enough to stop. For me, not having the choice to continue was very detrimental to my progress and I lost almost all the progress (and hope!) that I had so precariously attained during treatment.”

Moving Toward Effectiveness

Perceived Barrier to Dissemination	Question Addressed by Current Study
Highly trained therapists	Can novice CPT clinicians successfully administer CPT?
Lack of manual flexibility	What happens when my client faces a crisis?
Refractory clients	Session 12 is here and my client still has PTSD!
Fixed # of sessions	My client's scores are way down and s/he is done at session 8?

Research Questions


Improve outcomes by tailoring amount of therapy individually to participants?



Alter the treatment maintenance and relapse rates observed in previous trials?



Individual variables that may predict efficiency of outcome, treatment gain maintenance, and/or relapse?



In shorter durations of therapy, will benefits beyond PTSD be realized?

Goal 1

Compare modified CPT versus symptom-monitoring delayed treatment condition



Goal 2

Compare entire treated population to typical 12 session sample



Goal 3

Analyze gender effects



Goal 4

Identify predictors of amount of treatment necessary to reach good end state functioning

Current study

- **Design:**
 - Immediate treatment vs symptom monitoring control (Semi-crossover)
- **Assessment:**
 - CAPS, PSQI, PILL, PDS*, BDI-II*, QOLI
 - Pre-tx, Post-tx & 3 mo f-u

* Also at each session

Inclusion Criteria

- 18+ years of age
- 3 months post-trauma
- Stable medication 1 month prior to assessment
- Out of violent relationship for 3+ months
- Meets criteria for PTSD

Exclusion Criteria

- Psychosis
- MR
- Active suicidality & parasuicidality
- Current drug/alcohol addiction
- Current abusive relationship/stalked
- Any prior CPT
- Any current trauma-focused treatment

Randomization

- 160 assessed for eligibility
 - 42 ineligible
 - 13 incomplete assessment
 - 5 pilots
- 100 randomized
 - 53 Modified CPT (MCPT)
 - 47 Symptom Monitoring Delayed Treatment Condition (SMDT)

Symptom Monitoring Delayed Treatment Condition

- Daily monitoring of PTSD & depressive symptoms
- Weekly completion of PDS, BDI-II
- Scheduled phone check-ins
- 10 week duration

Modified CPT Condition

- Typical 12 sessions
 - Why problematic?
- Modifications
 - Number of sessions (4-18)
 - Emergency sessions

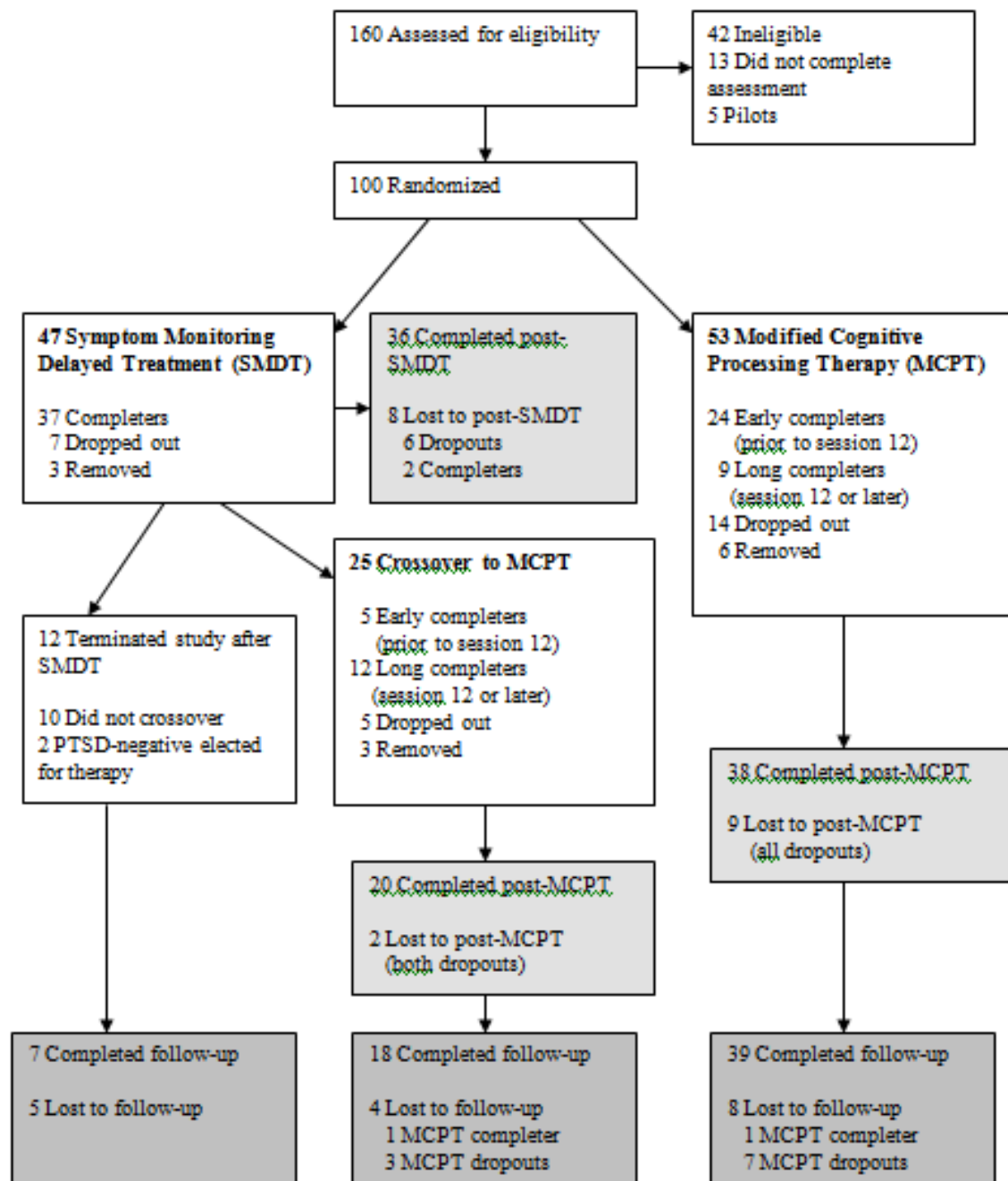
Sample Demographic Information

Age	67% female and 33% male
Gender	19-68 (M=40.42, SD=11.66)
Race	52% African American 43% Caucasian 5% Asian, American Indian & other
Income	66% \$20,000 or less
Education	66% had some post-hs M=13.2, SD=2.89
Relationship status	56% Single 22% Married/cohabitating 22% Separated/divorced/widowed

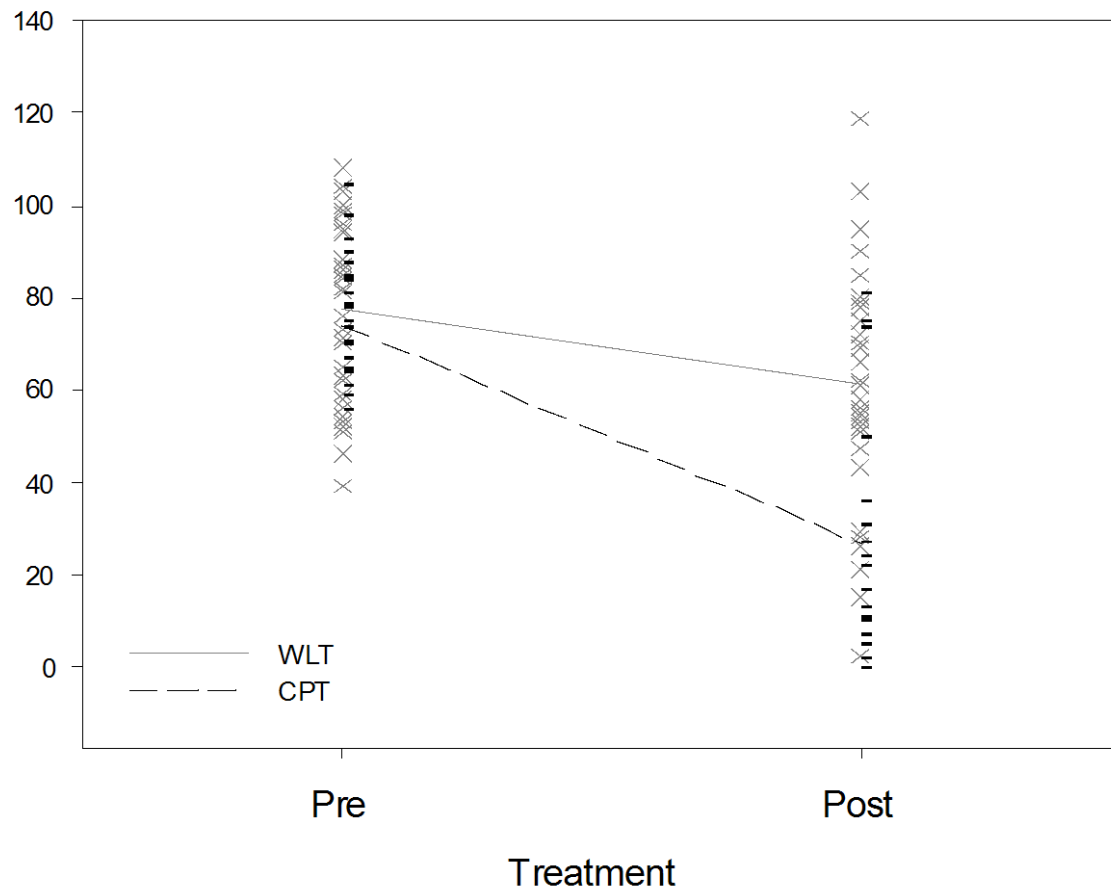
Trauma	Lifetime	Index Event
CSA	64%	41%
CPA	57%	13%
ASA	51%	23%
APA	65%	22%
DV	53%	

Results Aim #1

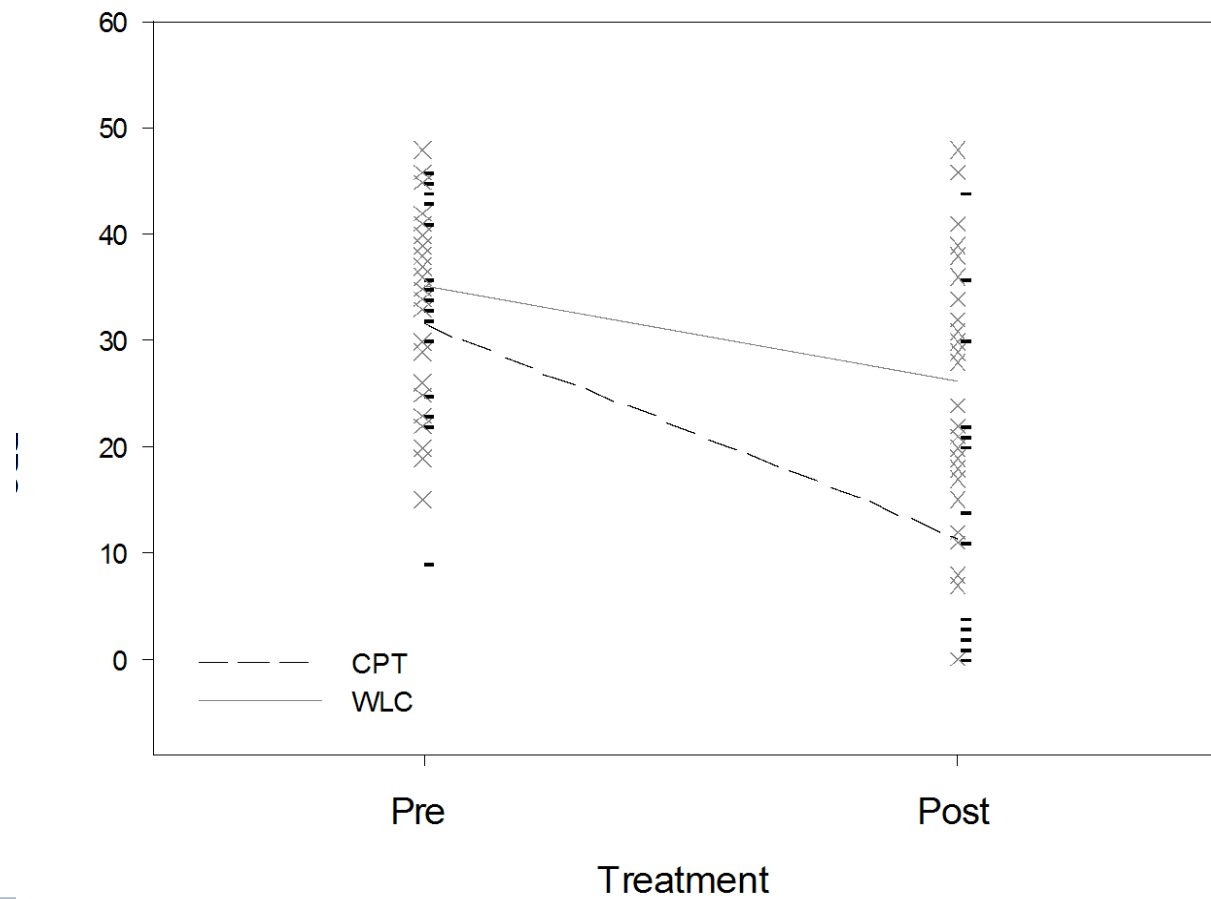
- Compare MCPT to SMDT
- CAPS:
 - MCPT improved 31.6 points more than SMDT
- PDS:
 - MCPT improved 11.1 points more than SMDT
- BDI:
 - MCPT improved 12.4 points more than SMDT



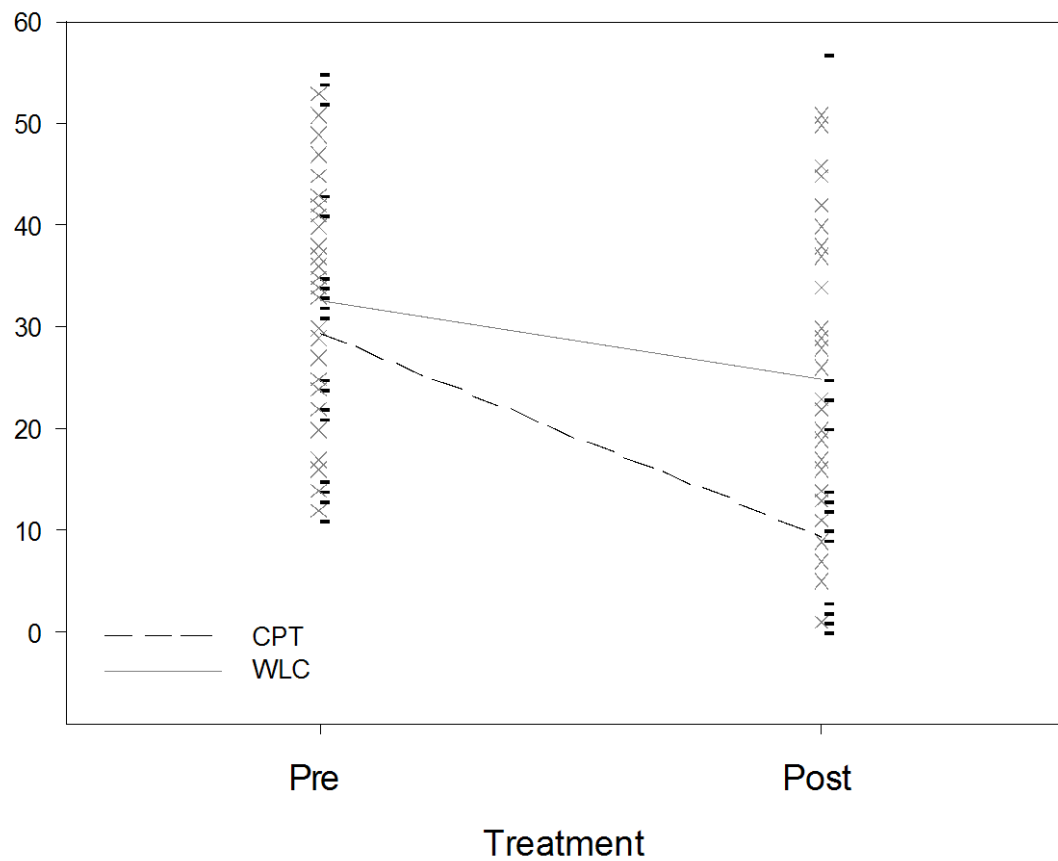
CAPS Change



PDS Change



BDI Change



Additional Improvements

- MCPT greater improvements:
 - Trauma-related anxious-arousal
 - Depression
 - Intrusive experiences
 - Defensive avoidance

Semi-Crossover Design

- Following SM condition, 27 subjects crossed over to CPT (thus we intended to treat 80 people with CPT)
 - 51 completed treatment
 - 19 dropped out
 - 10 were removed

Results Aim #2

- Compare ITT treated sample to sample of typical 12 session CPT
- Good end state functioning:
 - PDS < 20
 - BDI < 18
 - Therapist/client agreement that goals had been achieved
 - PTSD negative status confirmed by blind, independent assessor

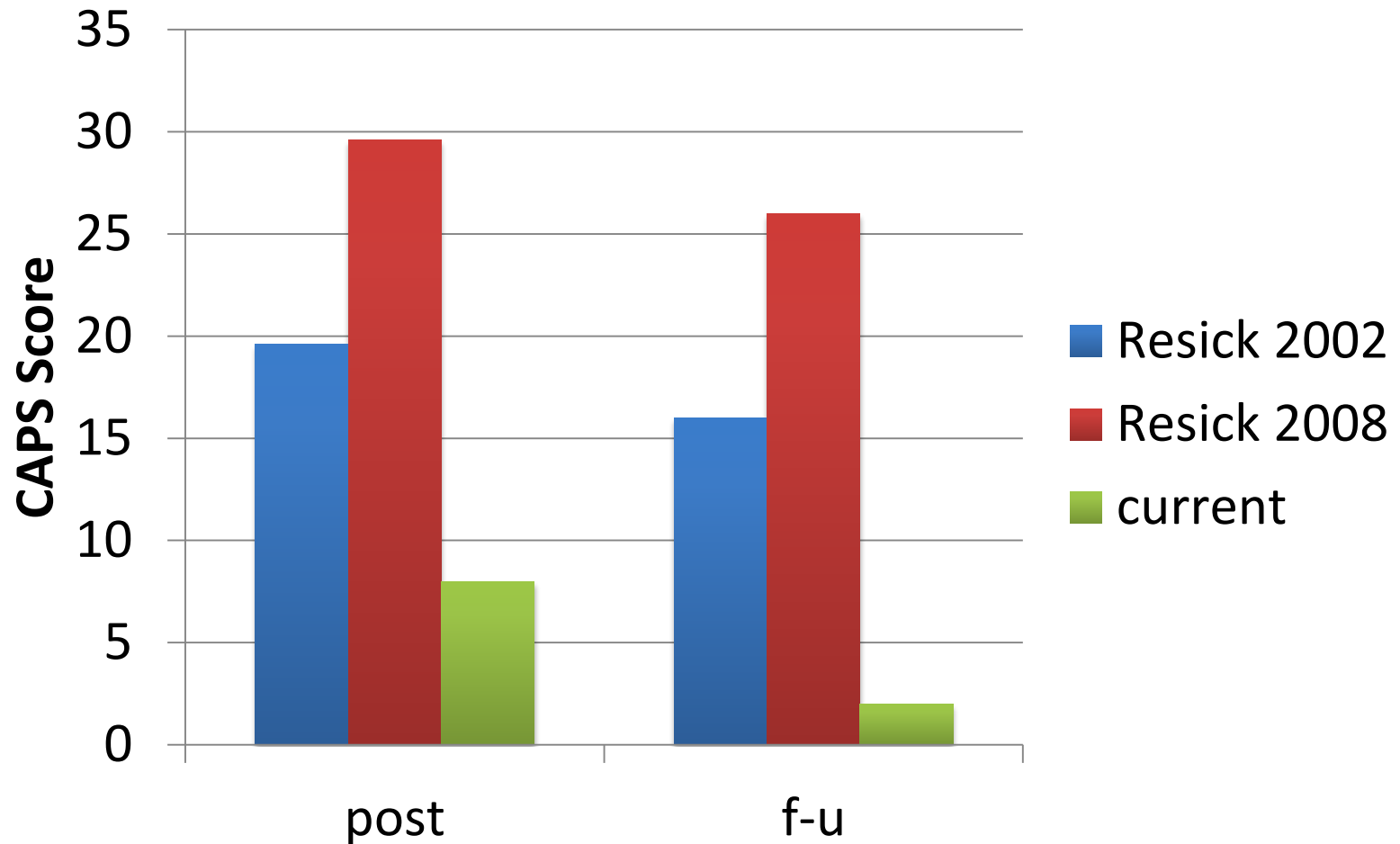
Completion Status (N=50)

%

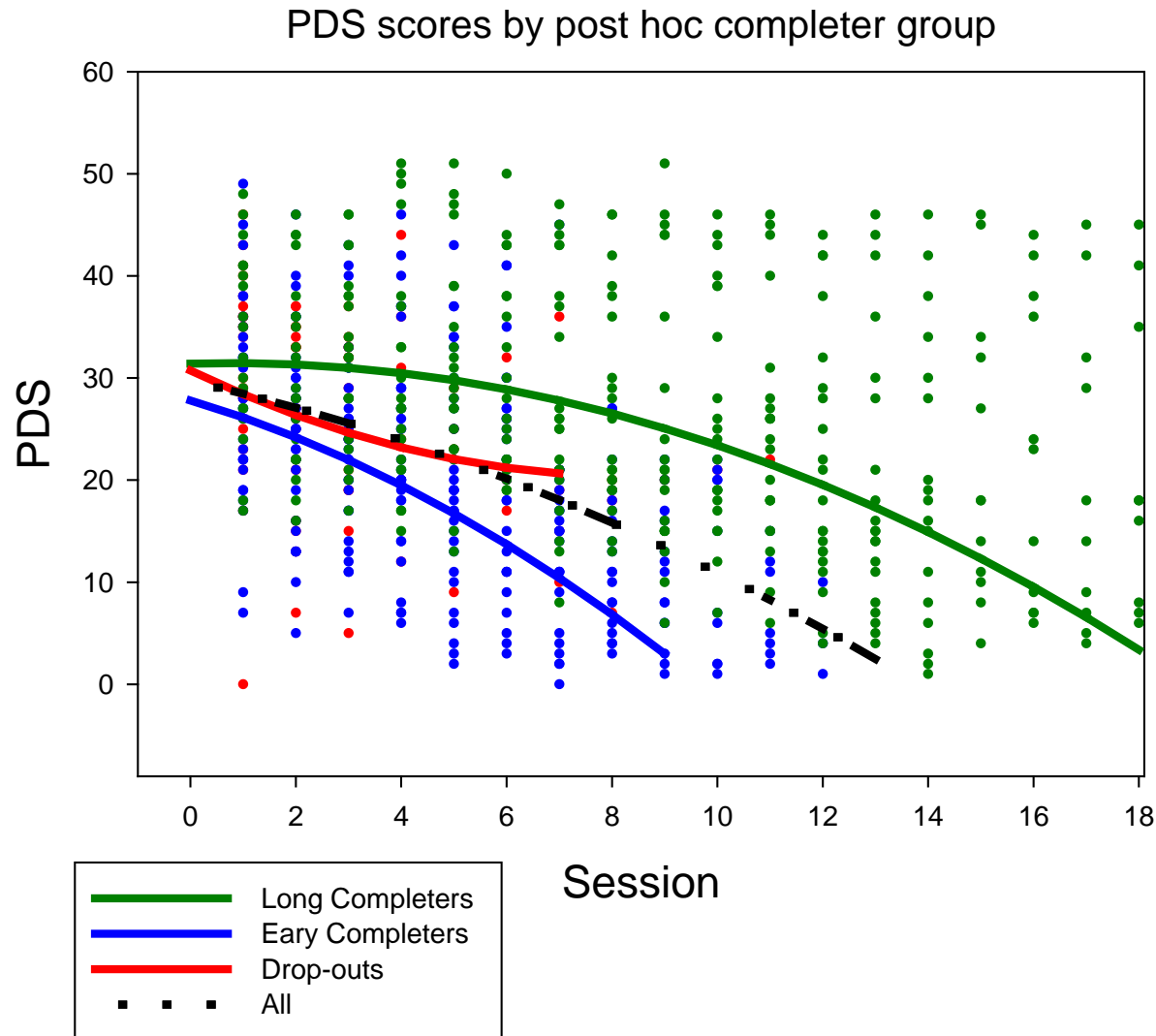
Early	4-11 sessions	58% (N=29)
--------------	----------------------	-------------------

Long	12+ sessions	42% (N=21)
-------------	---------------------	-------------------

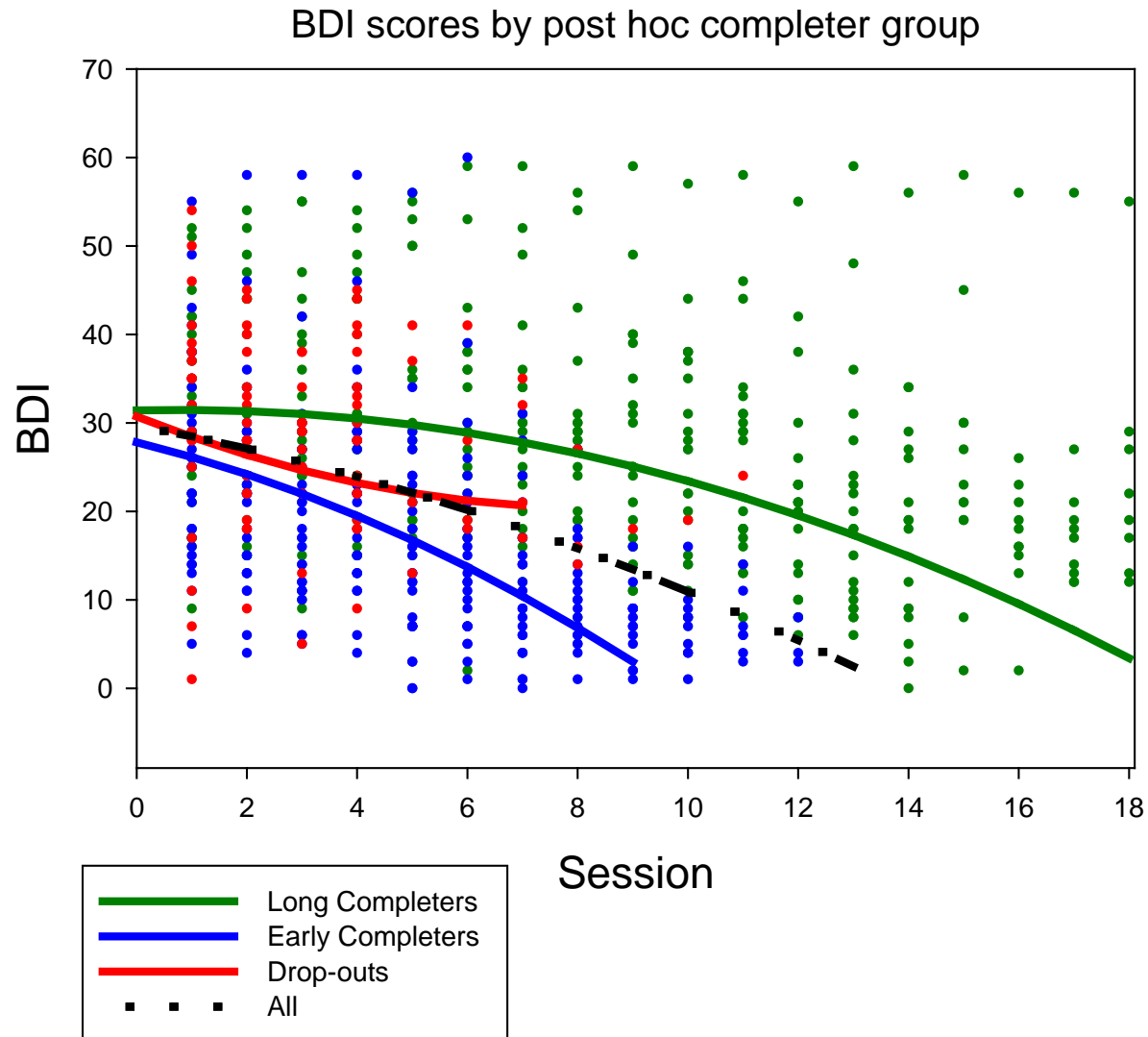
Comparison to previous trials



PDS & Completion Status



BDI & Completion Status



Results Aim #3

- Gender comparison
- Pre-tx: women higher global guilt, hindsight bias, guilt cognitions
- Across time: women more improvement in PDS and global guilt
- Overall mostly similar results

Results Aim #4

Identify predictors of amount of treatment necessary

- Individual predictors
 - White race
 - Longer time since index trauma
 - Dependent personality
- Trauma predictors
 - Anxious arousal
 - Trauma-related depression
 - Intrusive experiences,
 - Dissociation
 - Impaired self-reference

Conclusions

- Recover from PTSD at varying dosages of CPT
- Decreases in PTSD, depressive symptoms, sleep impairment, health-related concerns in “early” treatment completers
- Well-maintained at a 3month follow-up

Manual Flexibility: Emergency Sessions

Crisis

```
graph TD; A[Crisis] --> B[Client's Choice]; B --> C[Session Content]; C --> D[Session devoted to topic with understanding that next session would return to trauma-focused work]; C --> E[Cognitive work continued on emergency topic];
```

Client's Choice

Session Content

Session devoted to topic with understanding that next session would return to trauma-focused work

Cognitive work continued on emergency topic

Emergency Sessions

Unexpected divorce

Family death

Sexual harassment

Loss of job / home

Diagnosis of life-threatening illness

Prosecution of assailant

Are emergency sessions helpful?

- Despite chaotic lives of vast majority of the sample, only 15% chose to use an emergency session.
- There was no difference in:
 - Treatment outcome status (early completers, long completers, drop-outs)
 - PTSD or depression symptom change
- What we don't know...
 - What would have happened to participants had they not been offered the option of the emergency session?

Future Directions

- Will briefer courses of therapy generalize as well to secondary outcomes?
- Replication with other trauma types?
- Can we expand our clinical repertoire to influence additional concerns such as sleep?

References

- American Psychiatric Association (2000). *The diagnostic and statistical manual of mental disorders-IV-TR (4th edition, text revision)*. Washington, DC: APA.
- Blain, L. M., Galovski, T. E., Robinson, T. (2010). Gender differences in recovery from posttraumatic stress disorder: A critical review. *Aggression and Violent Behavior, 15*, 463-474.
- Breslau, N., Davis, G. C., Andreski, P., and Peterson, E. (1991). Traumatic events and posttraumatic stress disorder in an urban population of young adults. *Archives of General Psychiatry, 48*, 216-222.
- Kessler, R. (2000). Posttraumatic stress disorder: The burden to the individual and to society. *Journal of Clinical Psychiatry, 61*, 4-12.
- Kessler, R. C., Sonnega, A., Bromet, E., Hughes, M., & Nelson, C. B. (1995). Posttraumatic stress disorder in the National Comorbidity Survey. *Archives of General Psychiatry, 52*, 1048-1060.
- Norris, F. H. (1992). Epidemiology of trauma: Frequency and impact of different potentially traumatic events on different demographic groups. *Journal of Consulting and Clinical Psychology, 60*, 409-418.

Questions or Comments?