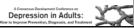
Cognitive-behavioral Therapy in the Treatment of Depression: Implications for Canada

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Goals for Today

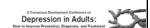
- Discuss principles related to cognitive-behavioral therapy (CBT) and evidence-based practice
- Examine the efficacy of CBT in depression
- Conclude with future directions and policy implications

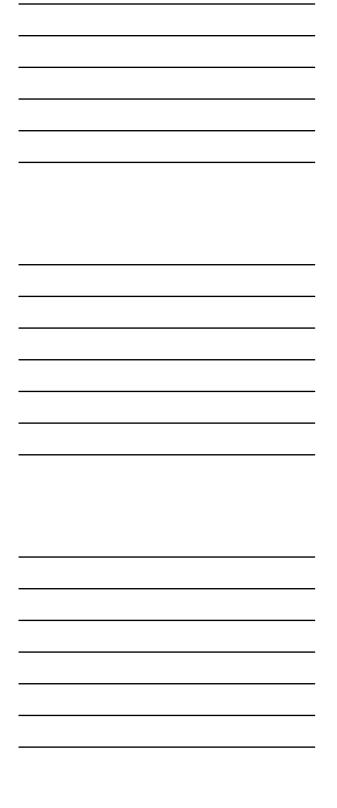




What is CBT?

- CBT is a generic term for a branch of psychotherapy, which addresses cognitive and behavioral change methods to understand and treat health problems.
- Cognitive therapy is a specific form of CBT, develop by Aaron Beck and associates.
- CBT is a practical, present-oriented, problem-solving treatment.
- CBT is a collaborative endeavor in which the therapist and patient work together build a shared idea of the source of problems and strategies to solve them.
- CBT is a time-limited treatment, most often conducted individually. It
 has been adapted for groups and families.





Evidence for CBT in Anxiety Disorders

Disorder	Treatment	Type of efficacy data		
		Absolute efficacy	Relative to medications	Relative to other psychotherapies
Specific phobia	Exposure and cognitive restructuring	++	+	
Social phobia	Exposure and cognitive restructuring	++	=	=
Obsessive-compulsive disorder	Exposure and response prevention	+		+
Panic disorder	Exposure and response prevention	+	=	+
Post-traumatic stress disorder	Exposure and cognitive restructuring	++		=
Generalized anxiety disorder	Exposure and cognitive restructuring	+	=	+

Note: A blank space indicates no evidence; - indicates negative evidence; + indicates positive evidence; = indicates approximate equivalence; ++ indicates treatment of choice.

Source: Epp & Dobson, in press

Depression in Adults:



Evidence for CBT in Other Disorders

Disorder	Treatment	Type of efficacy data		
		Absolute efficacy	Relative to medications	Relative to other psychotherapies
Major depression	Activity, cognitive restructuring and schema change	+	+	=
Bipolar disorder*	Affect regulation and cognitive restructuring	+		+
Anorexia nervosa	Eating regulation and cognitive restructuring	+	=	+
Bulimia nervosa	Eating regulation and cognitive restructuring	++	+	+
Sleep disorders	Behavioral control and cognitive restructuring	+		+
Psychosis*	Affect regulation and cognitive restructuring	+		+
Substance-use disorders	Affect regulation, behavioral control and cognitive restructuring	+		=
Somatization Disorder	Behavioral control and cognitive restructuring	+		

Note: A blank space indicates no evidence; - indicates negative evidence; + indicates positive evidence; = approximate equivalence; ++ indicates treatment of choice.

*- CBT is typically an adjunct to medication in these disorders.

Depression in Adults:

Efficacy and Effectiveness

",...in evaluating the benefits of a given treatment, the greatest weight should be given to *efficacy* trials but these trials should be followed by research on *effectiveness* in clinical settings and with various populations and by cost-effectiveness research." (p. 7).

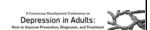
Source: Chambless and Hollon (1988)



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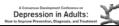
Examples of ESTs for Depression · Well-established psychological treatments - Cognitive and cognitive-behavioral therapy Interpersonal therapy - Behavioral activation therapy • Probably Efficacious treatments - Problem-solving therapy - Self-control therapy - Short-term psychodynamic psychotherapy · And don't forget medications! Depression in Adults: How does CBT fare relative to IPT? Depression in Adults: **CBT** versus IPT

- There are 5 RCTs to date which compare CBT and IPT.
- Trials generally report equivalent outcomes (e.g Elkin, et al, 1989; Weissman, et al, 1995)

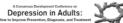


CBT versus IPT

- Luty et al (2007) reported a large comparison, though, in which no overall difference between CBT and IPT was mitigated by a treatment by severity interaction.
- CBT was superior to IPT for more severely depressed patients.
- No long-term effects were reported (in press).



How does CBT fare relative to Medications?

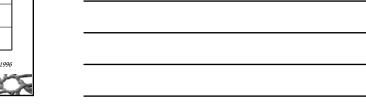


Efficacy of CT versus medications

Measure	Cognitive therapy		Pharmacotherapy		
	% Affected	Result from 100	% Affected	Result from 100	
Drop out	10%	90	25%	75	
Success	67%	60	67%	50	
Relapse at 1 year	25%	45	50%	25	

Source: Antonuccio, Danton & DeNelsky, 1996





Effect sizes associated with CT

Contrast	N of Studies	Effect Size
Control group/ placebo	20	82***
Behavior therapy	17	05
Pharmacotherapy	13	38***
Other psychotherapies	22	24**

 $\frac{Notes:\ **-\ z\ equivalent,\ p<.01\quad ***-\ z\ equivalent,\ p<.001}{Specific\ psychotherapy\ comparison\ with\ IPT\ was\ ns.}$

Source: Glogcuen, Cottraux, Cucherat & Blackburn, 1998

Depression in Adults:

Other observations from Glogcuen, et al.

• Prevention of recurrence/ relapse, N = 8 studies, follow-up varies from 1 to 2 years

• Average recurrence/ relapse in CT

29.5%

• Average recurrence/ relapse with medications

60.0%

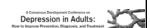


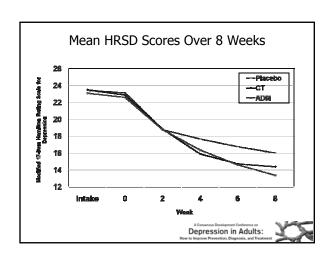


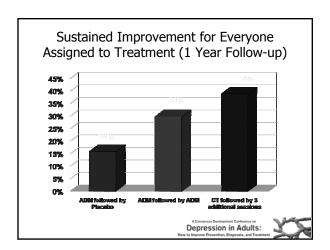
Results from the "Penn/ Vandy" Study

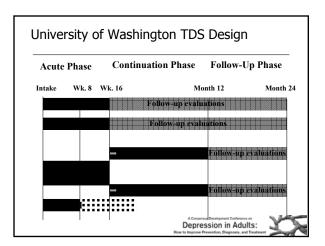
Results published in the Archives of General Psychiatry

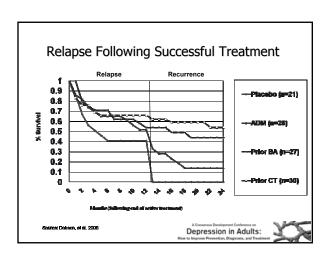
- · Hollon, et al, 2005- Acute Paper
- DeRubeis, et al, 2005- Follow-up Paper

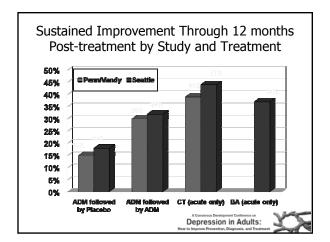


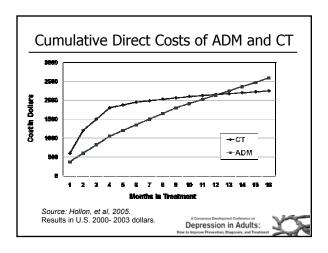












Combined CT and pharmacotherapy

- Study combined 7 CT and 9 other treatments (including PST, CBT and IPT)
- \bullet Patients receiving combined psychotherapy and pharmacotherapy improved significantly compared to drugs alone; Odds ratio = 1.86
- Specific combined treatment with CT versus pharmacotherapy alone; Odds ratio= 2.27
- Dropout rates during acute phase treatment:
 - Pharmacotherapy alone = 31.9%,
 - Combined treatment (CT) = 23.5%
- Based on 16 trials, N = 932

Source: Pampallona, et al, Archives of General Psychiatry, July, 2004.

Depression in Adults:



Therapist factors Client factors Relationship factors Intervention factors Accuses Description Work? Residual outcome symptoms Accuses Description in Adults:

Therapist Factors related to better outcome

- Empathy
- Positive regard, authenticity, caring and warmth
- Secure attachment style
- Self-disclosure

Client variables related to better outcome

- Lower problem severity
- · Lower problem chronicity
- Absence of a personality disorder
- Positive expectations abut treatment
- Matching of client and therapist on racial or ethnic status (?)

(From Castonguay & Beutler, 2006)





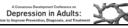
Relationship factors related to better outcome

- •Therapeutic collaboration or alliance Goal consensus and pursuit
- Congruence
- Feedback
- Managing relationship disruptions
- Recognition of and response to affect about the relationship

Intervention factors related to better outcome

- Treatments that reduce patient resistance
- Homework and homework completion

(From Castonguay & Beutler, 2006)



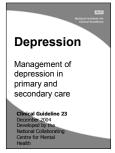
Adaptations of CBT

CBT for depression has been successfully adapted:

- 1.As a booster program in pharmacotherapy for depression (Jarret, et al, 2004; Paykel, et al, 2005)
- 2.As a secondary prevention program for depression (Lewinsohn, et al, 1987; Dobson & Konnert, 2002)
- 3.As a prevention program for minority Latino women (Munoz, et al, 1998)
- 4.As a relapse prevention program in major depression (Dobson & Mohammadkhani, 2007)
- 5.Mindfulness-based Cognitive Therapy is an integrative prevention program for relapse prevention in depression (Teasdale, et al, 2001; Ma & Teasdale, 2004)



Moving towards Evidence-based Practice Guidelines (adapted from NICE)





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Moving towards Evidence-based Practice Guidelines (adapted from NICE) For Mild Depression Watchful waiting; outpatient information Depression in Adults: Moving towards Evidence-based Practice Guidelines (adapted from NICE) For Mild to Moderate Depression Self help; minimal CBT care Watchful waiting; outpatient information Depression in Adults: Moving towards Evidence-based Practice Guidelines (adapted from NICE) For Moderate to Severe Depression **CBT** or Medications, based on preference Self help; minimal CBT care Watchful waiting; outpatient information

Depression in Adults:

Moving towards Evidence-based Practice Guidelines (adapted from NICE) For Severe; prolonged Depression CBT and Medications CBT or Medications, based on preference Self help; minimal CBT care Watchful waiting; outpatient information

Depression in Adults:

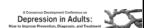
What do we know?

- CBT is an effective treatment for depression, both in terms of acute and long-term results.
- CBT is as effective as any treatment alternative for depression, and more effective than continued medications in the long term.
- The costs for CBT are initially higher than pharmacotherapy, but become roughly equal about 8- 9 months into treatment.
- CBT can be adapted for prevention and relapse prevention phases of depression.



What don't we know?

- Despite considerable efficacy data, our knowledge of CBT's effectiveness is limited.
- ▶ Optimal methods for training and dissemination are unclear.
- ▶ The study of interactions among individual difference variables and treatments for depression is rudimentary.
- ▶ The interaction between patient preference and treatment success is largely unknown.
- ▶ The study of treatment mechanisms is still developing.



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Policy Implications

- ✓ Health care systems should examine the use of CBT and other evidence-based treatments in depression.
- √ The current capacity for CBT services, and funding and access formulas should be evaluated.
- ✓ Capacity-building for CBT therapists should be initiated, at all levels, from university programs to mental health systems.
- ✓ Funds should be increased for prevention efforts, using CBT as a conceptual and methodological base.
- ✓ Utilization, patient satisfaction and cost-effectiveness data should be incorporated into evaluations of CBT's effectiveness.

A Consensus Development Conference on
Depression in Adults:
How to Impose Presenting Dispassis, and Treatment



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