

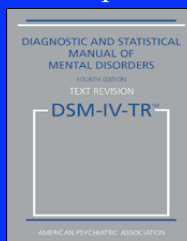
State of the art treatment for obsessive compulsive disorder (OCD)

Chris Molnar, Ph.D.
Mind Your Health Seminar
September, 2005

Questions to be answered

- ❑ What is OCD?
- ❑ How is OCD treated?
- ❑ What interferes with a good response?
- ❑ What if recommended treatments don't work?
- ❑ What resources are available for people with OCD and those who care about them?

How we diagnose obsessive compulsive disorder (OCD)



- Obsessions
- Compulsions
- One of the 4 "D"s
- 1. Distress (extreme and hard to manage)
- 2. Dysfunction in "work, play, and love"
- 3. Deviance (statistical and social)
- 4. Danger to self or others

DSM-IV-TR available free at www.behavenet.com

COMMON OBSESSIONS

- ◆ Germs, contamination, disease
- ◆ Harm to self/others
- ◆ Scrupulosity
- ◆ Forbidden thoughts
- ◆ "Just right" urges
- ◆ Urges to tell, ask, confess
- ◆ Saving/hoarding
- ◆ Magical thinking

COMMON COMPULSIONS

- ♦ Washing/cleansing
- ♦ Repeating/redoing
- ♦ Reassurance seeking
- ♦ Confessing/apologizing
- ♦ Ordering/arranging
- ♦ Checking
- ♦ Touching
- ♦ Tapping
- ♦ Counting
- ♦ Hoarding

The 6 DSM-IV anxiety disorders

- 1. **Phobias**
 - a. Specific
 - b. Social
 - c. Agoraphobia
- 2. **Panic disorder**
- 3. **Posttraumatic stress disorder (PTSD)**
- 4. **Acute Stress Disorder**
- 5. **Generalized Anxiety Disorder (GAD)**
- 6. **Obsessive Compulsive Disorder (OCD)**

DSM-IV: Diagnostic and statistical manual of mental disorders

Components of anxiety & fear common to the anxiety disorders

The three "B" s one must be with when fearful

Beliefs (in threat)

Body (arousal)

Behavior (avoidance)

Focused **B**reathing always helps!

Body's response to threat (e.g. contamination in OCD) can include a panic attack ... this is not panic disorder

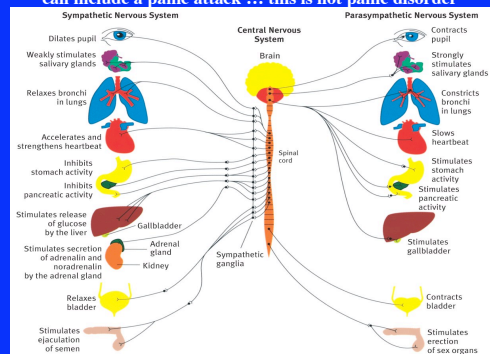


Table 5-8 DSM-IV Checklist

OBSESSIVE-COMPULSIVE DISORDER

1. Recurrent obsessions or compulsions.
2. Past or present recognition that the obsessions or compulsions are excessive or unreasonable.
3. Significant distress or impairment, or disruption by symptoms for more than one hour a day.

Based on APA, 2000, 1994.

Table 5-2

Anxiety Disorders Profile

| | ONE-YEAR PREVALENCE (%) | FEMALE:MALE RATIO | TYPICAL AGE AT ONSET | PREVALENCE AMONG CLOSE RELATIVES | PERCENTAGE RECEIVING TREATMENT |
|-------------------------------|----------------------------|----------------------|-------------------------|--|--------------------------------------|
| Generalized anxiety disorder | 4.0% | 2:1 | 0-20 years | Elevated | 27% |
| Specific phobias | 9.0 | 2:1 | Variable | Elevated | 12% |
| Social phobias | 8.0 | 3:2 | 10-20 years | Elevated | 21% |
| Panic disorder | 2.3 | 5:2 | 15-35 years | Elevated | 54.4% |
| Obsessive-compulsive disorder | 2.0 | 1:1 | 4-25 years | Elevated | 41.3% |

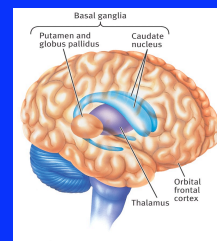
Source: Ingorsoll & Burns, 2001; APA, 2000, 1994; Kessler et al., 1999, 1994; Regier et al., 1993; Blazer et al., 1991; Davidson et al., 1991; Estroff et al., 1991.

Differential Diagnosis

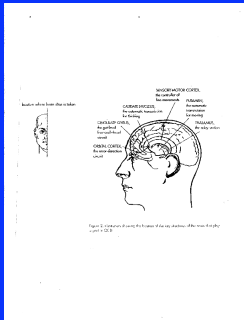
- Other anxiety disorders often co-occur
- Different from and similar to worry
- 80% with OCD will develop Major Depressive Disorder
- Impulse control disorders bring pleasure not distress
- Tic Disorder
- ADHD
- Psychotic disorders like schizophrenia
- OCD versus OC Personality Disorder

OCD is a neurobiological disorder

- Hyperactive orbital frontal cortex (OFC) and basal ganglia regions (e.g., caudate nucleus) leads to thalamic dysfunction, thus causing OCD symptoms
- Marked by serotonin dysfunction



“BRAIN LOCK”



Brain Lock, is by Jeffrey Schwartz, M.D.

The idea that activity of the OFC is driven by and locked to activity of the basal ganglia.

When basal ganglia do not serve their filtering function then the error-detection activities of the OFC are over-active

The cingulate gyrus amplifies the feeling that something is wrong

Frontal cortex needs to inhibit basal ganglia more, usually through ERP or medications that improve function

THE VICIOUS CYCLE OF AVOIDANCE MAINTAINS OCD SYMPTOMS



Obsessive-Compulsive Inventory Revised (OCI-R)

NAME: _____ DATE: _____

Read the following statements and circle the response that best describes how you feel about the experience that is described or how you feel about the behavior that is described. Circle the response that best describes how you feel about the experience that is described or how you feel about the behavior that is described.

| | Not at all | A little | Moderately | A lot | Extremely |
|--|------------|----------|------------|-------|-----------|
| 1. I have feared or so many things that they get in the way | 1 | 2 | 3 | 4 | 5 |
| 2. I think things others think are ridiculous | 1 | 2 | 3 | 4 | 5 |
| 3. I get upset if objects are not arranged properly | 1 | 2 | 3 | 4 | 5 |
| 4. I feel compelled to repeat actions I am doing often | 1 | 2 | 3 | 4 | 5 |
| 5. I find it difficult to touch an object when I know it has been touched by someone who has a disease | 1 | 2 | 3 | 4 | 5 |
| 6. I feel that my actions may cause harm to others | 1 | 2 | 3 | 4 | 5 |
| 7. I believe things I don't want | 1 | 2 | 3 | 4 | 5 |
| 8. I repeatedly check doors, windows, stoves, etc. | 1 | 2 | 3 | 4 | 5 |
| 9. I get upset if others change the way I have arranged things | 1 | 2 | 3 | 4 | 5 |
| 10. I find I have to repeat certain numbers | 1 | 2 | 3 | 4 | 5 |
| 11. I repeatedly have to wash or clean myself pretty often | 1 | 2 | 3 | 4 | 5 |
| 12. I am afraid of contamination | 1 | 2 | 3 | 4 | 5 |
| 13. I am afraid of contamination thoughts that come into my mind | 1 | 2 | 3 | 4 | 5 |
| 14. I repeatedly check things when I am afraid I might have a disease | 1 | 2 | 3 | 4 | 5 |
| 15. I repeatedly check my eyes and nose and feel nervous | 1 | 2 | 3 | 4 | 5 |
| 16. I feel that I am not good at my job or school | 1 | 2 | 3 | 4 | 5 |
| 17. I find that there are good and bad numbers | 1 | 2 | 3 | 4 | 5 |
| 18. I know my mind, ideas and feelings are constantly changing | 1 | 2 | 3 | 4 | 5 |
| 19. I repeatedly get nervous thoughts and have difficulty getting rid of them | 1 | 2 | 3 | 4 | 5 |

To obtain your total score, add your responses to 1-19. People with OCI-R scores between 10 and 12 are not at all, 13-19 are a little, 20-25 are moderately, 26-31 are a lot, and 32-37 are extremely.

Page 1 of 1 (2000) The OCI-R: Development and validation of a short version. Psychological Assessment, 18(4), 488-496.

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FDA-Approved Pharmacotherapy for OCD Treatment - (S)SRIs

- Clomipramine 25 - 250 mg / day
- Fluoxetine 5 - 80 mg / day
- Fluvoxamine 25 - 300 mg / day
- Paroxetine 10 - 60 mg / day
- Sertraline 50 - 200 mg / day
- Citalopram 20 - 80 mg / day

Drugs in white are FDA-approved for kids

Now the selective serotonin reuptake inhibitors (SSRIs), with fewer side-effects, are tried before the SRI CMI*

Table 9-2

Drugs That Reduce Unipolar Depression

| CLASS/GENERIC NAME | TRADE NAME |
|--|------------|
| Second-Generation Antidepressants | |
| Maprotiline | Ludiomil |
| Amoxapine | Asendin |
| Trazodone | Desyrel |
| Clomipramine | Anafranil |
| Fluoxetine | Prozac |
| Sertraline | Zoloft |
| Paroxetine | Paxil |
| Venlafaxine | Effexor |
| Fluvoxamine | Luvox |
| Nefazodone | Serzone |
| Bupropion | Wellbutrin |
| Mirtazapine | Remeron |
| Citalopram | Celexa |

(Gitlin, 2002)

Visit www.nefoundation.org for FDA-approved SSRIs

Pharmacotherapy for OCD

- Can take up to 3 months at an optimal dose to get a response. This is longer than it takes for SRIs to target most cases of depression
- 80-90% of people treated with medications alone will relapse once medications are discontinued
- Side effects can include, but are not limited to:
 - weight gain
 - sedation
 - sexual dysfunction
 - hyperactivity in some children

Cognitive-Behavioral Treatment (CBT) for OCD usually called Exposure and Ritual Prevention (ERP)

Goals of CBT / ERP for OCD:

- ◆ Break the cycle of avoidance
- ◆ Face the fear
- ◆ Experience dissipation of anxiety without ritualizing
- ◆ Learn that feared consequences do not occur

EXPERT CONSENSUS GUIDELINES FOR TREATMENT OF OCD

- o Children CBT is first line treatment
- o Adolescents If mild OCD then CBT first
 If severe then CBT + SRI
- o Adults If mild then CBT first
 If severe then SRI (first) + CBT

Notes: CBT = Cognitive-behavioral therapy
SRI = Serotonin Reuptake Inhibitor (SRI)

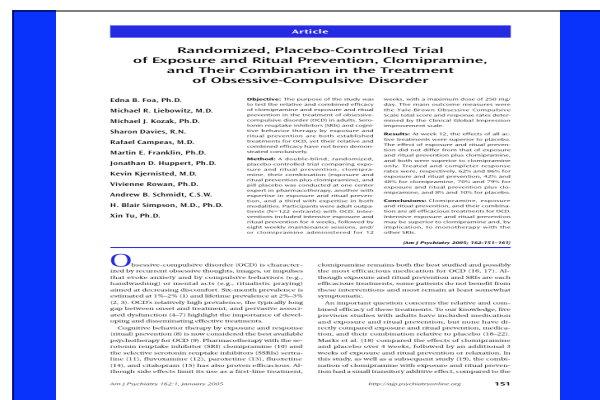
*source: www.psychguides.com

Theoretical Framework for Treatment

- Learning theory and behavioral therapy
- Cognitive theory and therapy
- Emotional processing theory (Foa & Kozak, 1986):
 - Fear activation is required
 - Exposure to corrective information is essential to bring about cognitive change
 - Habituation is an outcome, not a mechanism

Implications of Emotional Processing Theory for Treatment of OCD

- Exposure is designed to activate fear network
- Need to “match” exposures to the fear network
- Response prevention is necessary because rituals prevent the natural process of habituation and hence interfere with cognitive change
- Old learning is never erased, thus exposure in multiple contexts is needed



Pharmacotherapy condition of Foa et al., 2005 treatment outcome study

- Twelve weekly visits to the psychiatrist
- Medication gradually increased over 5 weeks
- Range of 150-250 mg/day
- Drug (CMI or PBO) continued for 12 weeks
- Double-blind administration of PBO and CMI

Intensive EX/RP Therapy

The treatment study of Foa et al., 2005 that influenced the expert consensus guidelines

- Two treatment planning sessions
- 15 2-h sessions over 3 wk, each including
- More of the same exposure for homework (about 90 minutes or until habituation occurs)
- A home visit, about 8 hrs. over 2 days
- 8 weekly maintenance sessions following intensive treatment

Planning Sessions (2)

- Detailed investigation of OCD symptoms
 - Antecedents, exact behavior (neutralizing behavior, rituals, avoidance), consequences
- Development of exposure hierarchy
 - Use of Subjective Units of Distress / Discomfort (SUDS)
- Ritual prevention instructions and training in self-monitoring
- Coping with OCD-related distress

EX/RP Session Structure

| | |
|--------------------------------|-----------|
| Review homework sheets | ~ 15 min. |
| Imaginal exposure | ~ 45 min. |
| Exposure and ritual prevention | ~ 45 min. |
| Discuss and agree on homework | ~ 15 min. |

Homework Includes:

- Self exposure to feared
- Instructions to refrain from mental or behavioral rituals
- Daily monitoring of rituals

Cognitive Behavioral Treatment for OCD (EX/RP) includes:

| | |
|---------------------------|---|
| Exposure <i>in vivo</i> : | Prolonged confrontation with anxiety evoking stimuli (e.g., contact with contamination) |
| Imaginal Exposure: | Prolonged imaginal confrontation with feared disasters (e.g., hitting a pedestrian while driving) |
| Ritual Prevention: | The blocking of compulsions (e.g., leaving the kitchen without checking the stove) |
| Cognitive Interventions: | Correcting erroneous cognitions (e.g., anxiety decreases without ritualizing) |

Moving Up the Hierarchy

- Build on past successes from earlier sessions
- Encourage patient to choose from among equivalent stimuli for exposures
- Note changes in impairment & decreased symptoms to highlight improvement

Exposure sound simple to you?

Try it!:

- I hope that _____ gets hit by a Mac truck and his / her body is dragged along the highway until it is unrecognizable
- Hold the toilet seat in the restaurant firmly and don't wash for a day afterwards

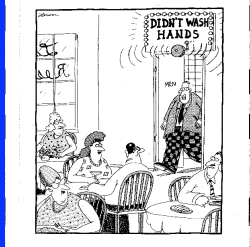
FEAR OF CONTAMINATION/CLEANSING

- | | |
|---|----|
| 1. Get medical book and read about hepatitis | 2 |
| 2. Describe symptoms and causes of hepatitis to parents | 3 |
| 3. Say the word hepatitis 10 times in a 2 minute conversation | 5 |
| 4. Touch parents with unwashed hands | 6 |
| 5. Touch myself all over my body with unwashed hands | 7 |
| 6. Hug parents with unwashed hands | 8 |
| 7. Use the toilet and hug parents immediately afterwards | 9 |
| 8. Use only 4 squares of toilet paper after using toilet | 9 |
| 9. Hug sibling | 10 |
| 10. Sit on all chairs in room after using toilet | 10 |
| 11. Ask parents to sit in "contaminated" chairs | 10 |

MORAL DILEMMAS/CHECKING

- | | |
|---|----|
| 1. Leave faucet running while brushing teeth | 3 |
| 2. Use one pail of water to brush teeth | 5 |
| 3. Leave all the lights in the house on for 10 minutes | 5 |
| 4. Leave two mouthfuls of food uneaten on plate | 6 |
| 5. Leave half of dinner uneaten on plate | 8 |
| 6. Put glass bottle in garbage instead of recycle | 8 |
| 7. Put uneaten food in garbage | 9 |
| 8. Leave TV and radio on for one hour with no one listening | 9 |
| 9. Leave faucet dripping for one hour | 10 |
| 10. Leave bathroom faucet dripping all night | 10 |

Imaginal Exposure



Summary of Foa et al., 2005 Treatment Protocol

- Core EX/RP = 17 sessions over 8 weeks
- Assessment & Psychoeducation
- Planning Sessions
- Exposure and Ritual Prevention (EX/RP)
- Relapse Prevention
- Involvement of Support Person

Confronting the Greatest Fear: scheduled for session 6

- Encouragement and praise for efforts
- Modeling
- Discussion of acceptable vs. unacceptable risks
- Repeated and prolonged exposure
- Confront fears in multiple contexts

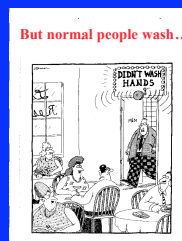
Home Visits (2)

- Goal: Promote generalization of treatment gains
- Can be used earlier in treatment if needed
- Washers: Contaminate natural environment
- Checkers: Use real-life threats (e.g., stove)
- Hoarders: Assist with discard decision-making
- Some patients require more than two

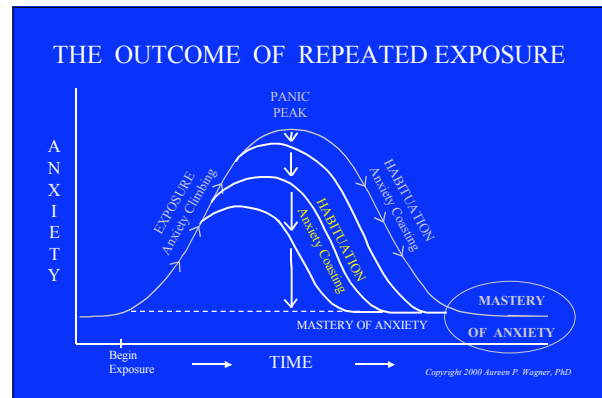
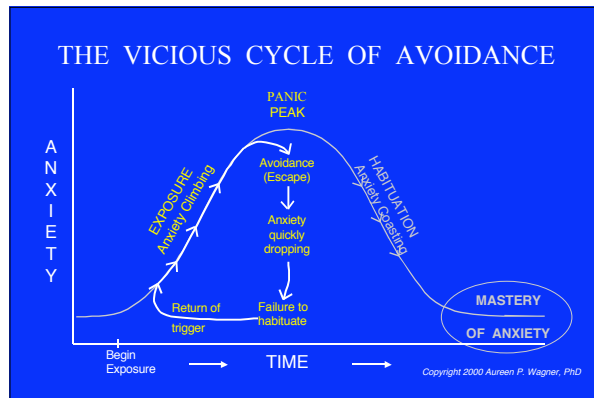
EXPERIENTIAL LEARNING

- ◆ Anxiety dissipates without doing rituals
- ◆ Feared consequences do not occur

Keep Doing Those Exposures...



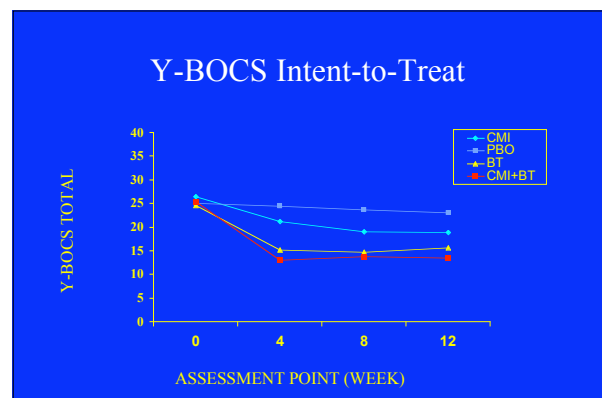
- Continue to expose yourself, for the rest of your life, to those things that you used to avoid and that used to distress you
- Expect waxing of symptoms during stressful times



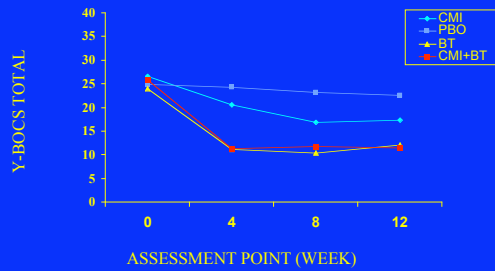
Primary Outcome measure used by Foa et al., 2005 study is the Yale-Brown Obsessive Compulsive Scale (Y-BOCS)

- time occupied
- interference with functioning
- subjective distress
- resistance
- control

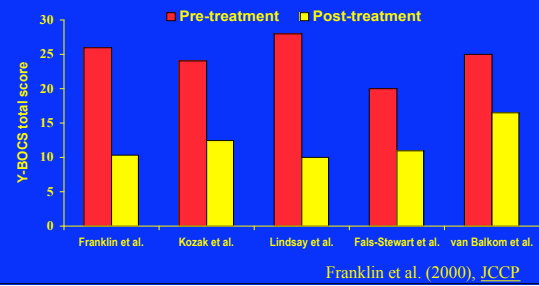
Higher scores mean more OCD. Scores range from 0 - 40 with greater than 15 usually being an inclusion cut off



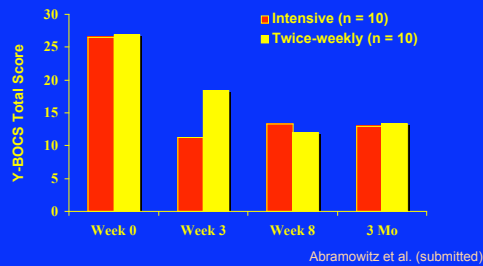
Y-BOCS Completer



EX/RP Outcomes: Benchmark Comparisons



Intensive vs. Twice-Weekly EX/RP Treatment Completers (n = 20)



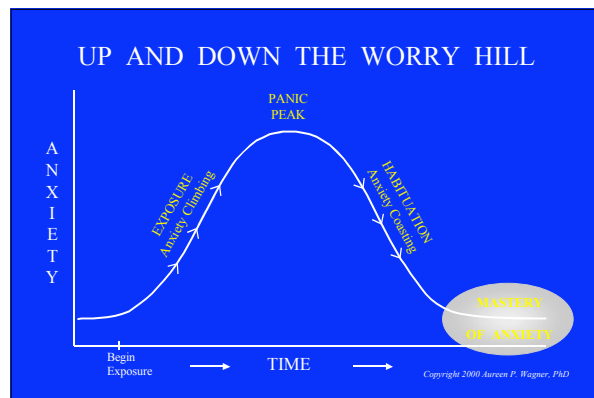
OCD in Children and Adolescents *A Cognitive-Behavioral Treatment Manual*

John S. March
Karen Mullen

Exposure and
response (ritual)
prevention can
be modified for
children

March & Mulle's (1998) CBT Protocol: Core Elements

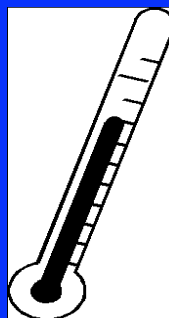
- Psychoeducation & Cognitive Training
- Mapping OCD: Development of Treatment Hierarchies
- Exposure and Ritual Prevention (EX/RP)
- Relapse Prevention
- Parent Sessions



LESSONS TO BE LEARNED ARE THE SAME

- Anxiety is transient
- Anxiety is survivable
- Avoidance strengthens fear; exposure weakens it
- Habituation is natural and automatic
- Exposure is necessary for habituation
- Anxiety in *anticipation* of exposure may be higher than anxiety during *actual* exposure
- Feared consequences do not materialize

The Fearmometer

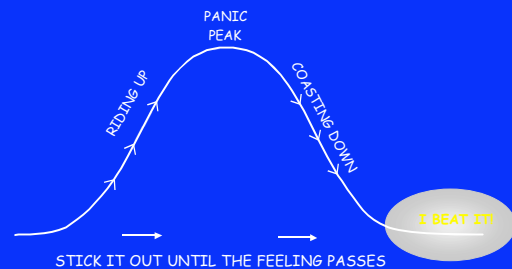


- 10 Out of control! Ballistic!
- 9 Can't handle it.
- 8 Really tough.
- 7 Pretty tough.
- 6 Getting tough.
- 5 Not too good.
- 4 Starting to bother.
- 3 Just a little uneasy.
- 2 A little twinge.
- 1 Piece of cake!

GRADUAL EXPOSURE

1. Select lowest target on *Fear Ladder (SUDS for Adults)*
2. Begin exposure
3. Prevent escape, avoidance, rituals
4. Wait for habituation to occur
5. Select next target, repeat steps 1 to 4

RIDE: UP AND DOWN THE WORRY HILL



RIDE Up and Down the Worry Hill

- **Rename** the thought.
- **Insist** that **YOU** are in charge!
- **Defy** OCD, do the **OPPOSITE**.
- **Enjoy** your success, reward yourself.

VIOLENT THOUGHTS/MENTAL RITUALS

- | | |
|---|----|
| 1. Inquire about cousin's pregnancy | 3 |
| 2. Go to friend's house and play with her baby in her presence | 4 |
| 3. Watch elderly man cross street | 5 |
| 4. Go to pregnant cousin's house and stay for at least one hour | 6 |
| 5. Offer to babysit for friend's baby | 6 |
| 6. Schedule a day to babysit for friend's baby | 7 |
| 7. Put baby's bottle in microwave without checking on baby | 8 |
| 8. Write down violent thoughts about cousin's baby dying | 8 |
| 9. Write down thoughts about elderly man getting run over | 9 |
| 10. Listen to therapist read the violent thoughts out loud | 10 |
| 11. Say violent thoughts out loud | 10 |
| 12. Go to mall, say violent thoughts as pregnant women go by | 10 |

A Simplified Theoretical Approach

"Blah, blah, blah, do the thing you're afraid of,
Blah, blah, blah, the more you do it, the easier it gets."

Gwen Franklin, age 6, to her father, 2001

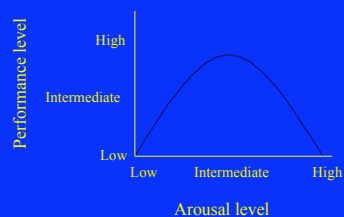
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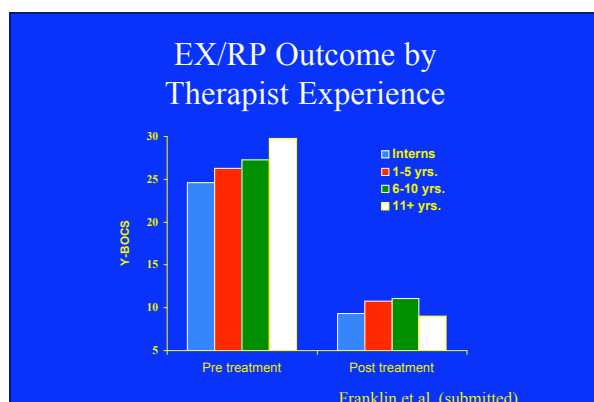
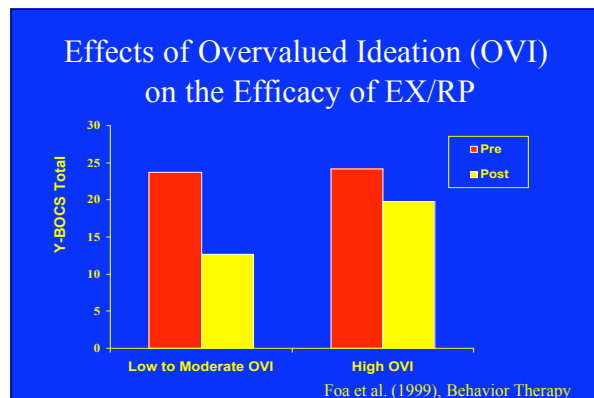
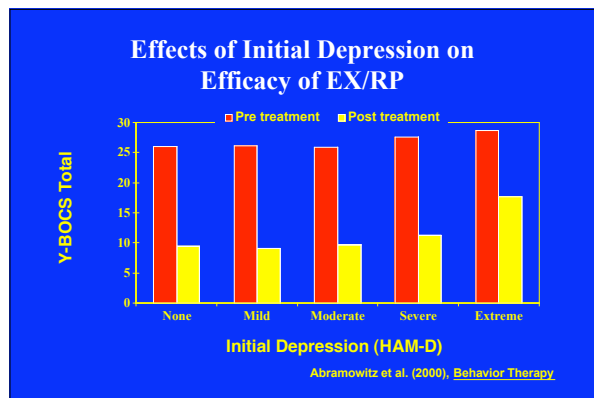
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Factors Impeding the Efficacy of EX/RP

- Severe Depression or Fear / Anxiety
- Overvalued Ideation (Poor Insight)
- Non-Compliance with EX or RP
- Severe personality disorders (e.g. Schizotypal)

The Yerkes-Dodson Law





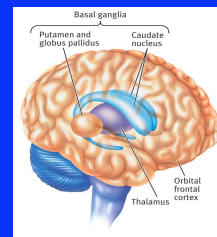
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What if first and second line recommended treatments don't work? See expert consensus guidelines again...

- More aggressive and/ or adjunctive pharmacotherapy
- Add ECT if also depressed
- Neurosurgery
- Deep Brain Stimulation
- Add transcranial magnetic stimulation (TMS)?
- Add vagus nerve stimulation (VNS)?

Neurosurgery involves lesions to the frontal-striatal-pallidal-thalamic-frontal loop / circuit

- **Capsulotomy:** lesion the anterior limb of the internal capsule
- **Cingulotomy:** Lesion the cingulum bundle
- Lesions to midline **thalamic nuclei**



Resources

- Internet
 - www.molnarpwcdhhs.com/resources
for a list of self-help, educational, and treatment manual resources
 - www.behavenet.com/capable/disorders/obsessive.htm
for detailed information about diagnoses
 - www.octimind.com
for the most up to date OCD treatment resources
 - www.sohi.org
to find a cognitive-behavioral psychotherapist in your area

Acknowledgements

- Brigitte Erwin, Ph.D.
- Edna Foa, Ph.D.
- Martin Franklin, Ph.D.
- Michael Kozak, Ph.D.
- Nicholas Maltby, Ph.D.
- David Tolin, Ph.D.
- Aureen Pinto Wagner, Ph.D.