| Obsessive-Compulsive Disorder | |
|--|--|
| | |
| Outline of OCD Lecture • Day 1 - What is OCD? - What causes OCD? - How do you treat it effectively? • Day 2 - What does typical course of CBT look like? - What specific skills will you use? | |
| What is Obsessive-Compulsive Disorder? | |

A Brief History

- Reports of O/C symptoms and case studies date throughout recorded history
 - Michelangelo, Martin Luther, Beethoven, Nikola Tesla, Howard Hughes, and others

| DSM conceptualization is the most influential at this time Major changes from 4th to 5th edition | |
|---|---|
| DSM-5 Operational Definition | |
| A. Presence of obsessions, compulsions, or both: | |
| Obsessions as defined by (1) and (2): | |
| Recurrent and persistent thoughts, urges, or images that are experienced, at some time during the | |
| disturbance, as intrusive and unwanted and that in most individuals cause marked anxiety or distress | |
| The person attempts to ignore or suppress such thoughts, urges, or images, or to neutralize them | |
| with some other thought or action (i.e., by performing a compulsion) | |
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| DSM-5 Operational Definition | |
| • Compulsions as defined by (1) and (2): | |
| Repetitive behaviors or mental acts that the person feels driven to perform in response to an | |
| obsession, or according to rules that must be applied rigidly | |
| The behaviors or mental acts are aimed at preventing or reducing anxiety or distress, or | |
| preventing some dreaded event or situation; however, these behaviors or mental acts either | |
| are not connected in a realistic way with what they are designed to neutralize or prevent, or are clearly excessive | |

Operational Definition

- B. The O/C are time consuming (for example, take more than 1 hour a day) or cause clinically significant distress or impairment in functioning.
- C. The O/C symptoms are not due to the direct physiological effects of a substance or a GMC
- D. The content of the obsessions or compulsions is not restricted to the symptoms of another mental disorder

OCD Specifiers

- Good or fair insight: Recognizes that OCD beliefs are definitely or probably not true, or that they may or may not be true
- Poor insight: Thinks OCD beliefs are probably true
- Absent insight/delusional beliefs: Completely convinced OCD beliefs are true
- *Tic-related OCD*: The individual has a lifetime history of a chronic tic disorder

Most Common Obsessions

| Type of Obsession | Examples | | | | | | |
|--------------------------|---|--|--|--|--|--|--|
| Contamination | Bodily fluids, disease, germs, dirt, chemicals, environmental | | | | | | |
| | contaminants | | | | | | |
| Religious Obsessions | Blasphemy or offending God, high concern about morality and | | | | | | |
| | what is right and wrong. | | | | | | |
| Superstitious ideas | Lucky numbers, colors, words | | | | | | |
| Perfectionism | Evenness and exactness, "needing" to know or remember, fear of | | | | | | |
| | forgetting or losing something | | | | | | |
| Harm | Fear of hurting others through carelessness, fear of being | | | | | | |
| | responsible for something terrible happening | | | | | | |
| Losing Control | Fear of acting on an impulse to harm self or others, fear or | | | | | | |
| | unpleasant mental images, fear of saying offending things to | | | | | | |
| | others | | | | | | |
| Unwanted Sexual Thoughts | Forbidden or "perverse" sexual thoughts, images, or impulses; | | | | | | |
| | obsessive thoughts about homosexuality; obsessions involving | | | | | | |
| | children or incest; obsessions about aggressive sexual behavior | | | | | | |

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OCD Subtypes

- · Tic-related OCD
 - May account for up to 40% of pediatric cases
 - Often male-dominated
 - High incidence of symmetry/exactness/ordering
 - Lower cleaning/contamination
 - High rates of trichotillomania and DBDs

Leckman et al. (2010)

OCD Subtypes

- Early-onset OCD
 - Pre-pubertal onset of OC symptoms
 - Similar nature of OC symptoms
 - Dominated by males
 - Substantial portion will remit by adulthood
 - Increased risk of tics and trich
 - Confounded/overlapping with tic-related OCD

Leckman et al. (2010)

OCD Symptom Dimensions

- Some disagreement over how many dimensions are present
- Factor analytic and latent class analysis models have come up with different dimensions
- Dimensions appear to be temporally stable

Abramowitz et al. (2009); Leckman et al. (2010)

| 4-factor | | 5-factor |
|---|---------|---|
| Hoarding Contamination/ cleaning Symmetry/ordering Forbidden thoughts | | Hoarding Contamination/ cleaning Symmetry/ordering Forbidden thoughts Over-responsibility |
| | LCA | |
| on sev | erity o | um based r number symptoms |

| Checking | 79.3 | |
|------------------|------|--|
| Hoarding | 62.3 | |
| Ordering | 57.0 | |
| Moral | 43.0 | |
| Sexual/religious | 30.2 | |
| Contamination | 25.7 | |
| Harming | 24.2 | |
| Illness | 14.3 | |
| Other | 19.0 | |

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OCD Prevalence

- Around 1% in pediatric population
- Between 2-3% in the adult population
 Large number of "sub-clinical" cases (5%)
- 96%+ of patients have both O and C

Abramowitz et al. (2009); Leckman et al. (2010)

OCD Course

- Usually gradual onset
- Chronic, unremitting course if untreated
- Symptoms can change across time, but will rarely disappear

Abramowitz et al. (2009);

Gender Differences

- Many more male youth are diagnosed, but no sex differences in adults
- Among men, hoarding associated with GAD and tic disorders, but in women with SAD, PTSD, BDD, nail biting, and skin picking

Vesaga-Lopez et al. (2008)

Comorbidity

- Up to 75% present with comorbid disorders
- Most common in pediatrics are ADHD, DBDs, depression, and other anxiety disorders
- Presence of comorbids predict QoL, more so than OCD severity

Lack et al. (2009)

Comorbidity

• Different primary O/C are associated with certain patterns of comorbidity

| Symmetry/ordering: Tics, bipolar, OCPD, panic, agoraphobia | |
|--|---|
| Contamination/cleaning: Eating disorder | |
| Hoarding: Personality disorders, especially Cluster | |
| C | |
| | |
| Most prevalent adult comorbids are SAD, MDD, alcohol abuse | |
| alconol abuse | |
| Leckman et al. (2010) | |
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| Impact of OCD | |
| · | |
| Almost <i>all</i> adults and children with OCD report | |
| obsessions causing significant distress | |
| | |
| Pervasive decrease in QoL compared to controls | |
| | |
| Youth show problematic peer relations, | |
| academic difficulties, and participate in fewer | |
| recreational activities | |
| | |
| Lack et al. (2009); Fontenelle et al. (2010) | |
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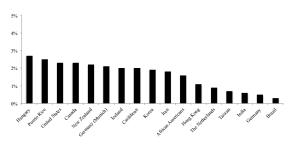
Impact of OCD

- · Lower QoL in pediatric females
- Compared to other anxiety/unipolar mood:
 - Less likely to be married
 - More likely to be unemployed
 - More likely to report impaired social and occupational functioning

Lack et al. (2009); Abramowitz et al. (2009)

Cultural Aspects of OCD

• Similar epidemiological rates cross-culturally



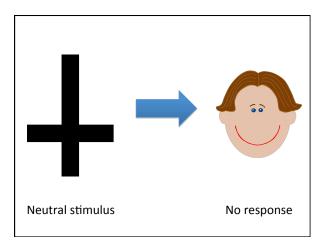
Cultural Aspects of OCD

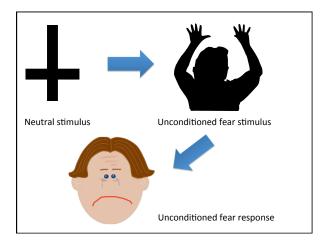
- Types of symptoms reported in various cultures varies little, but prevalence does
 - US Blacks more likely to show contamination issues, especially concerning animals
 - More religious Christians and Muslims place more importance on controlling their thoughts
 - High levels of scrupulosity in Jewish populations

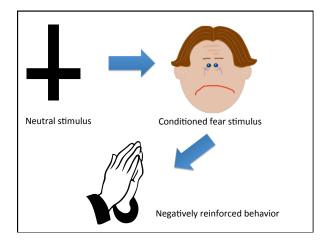
| What Causes OCD? An Evolutionarily Informed Biopsychosocial Model | |
|---|--|
| | |
| Etiology • Three primary perspectives - Psychological - Biological - Evolutionarily • There is a need to integrate these into a evobio-psycho-social model, to help with a multi-level understanding of OCD | |
| Psychological Causes • Many non-empirical explanations put forth historically (demon possession, psychoanalytic) • Three heavily evidence-based psych theories – Behavioral – Cognitive – Cognitive-behavioral | |

Behavioral

- Based on Mowrer's two-stage theory of fear
- Individuals first learn anxiety via a classical conditioning process, and then it is maintained via operant conditioning
- Neutral stimulus becomes a conditioned fear stimulus, and this fear is then maintained via negative reinforcement

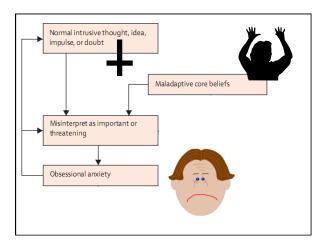






Cognitive

- Obsessions begin with a normal intrusive thought, which everyone experiences
- This interacts with a pre-formed belief system centered around exaggerated concerns and high expectations of negative consequences
- This then leads to marked distress and anxiety

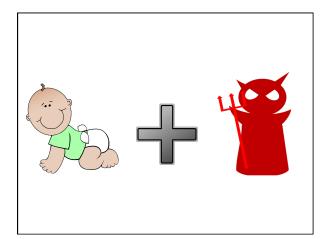


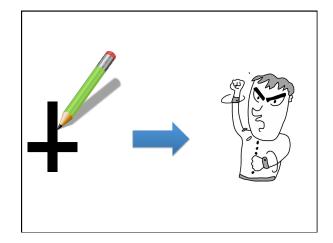
Cognitive-Behavioral

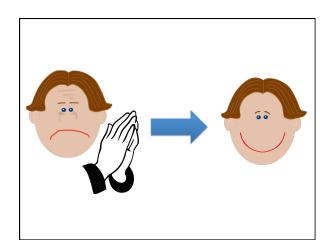
- Focuses on a bi-directional view of behavior and cognitions, both of which influence emotion
- Obsessions initially arise from dysfunctional beliefs that someone has
- Causes unwanted intrusive thoughts (which are normal) to be appraised as threatening or unacceptable, causing distress

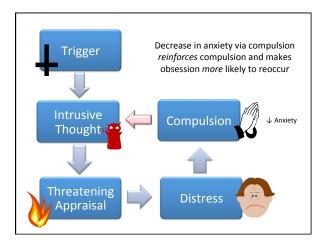
Cognitive-Behavioral

- Distress causes one to try and reduce it via some type of escape or avoidance behavior
- This in turn reinforces those maladaptive beliefs, perpetuating the cycle









Biological Causes

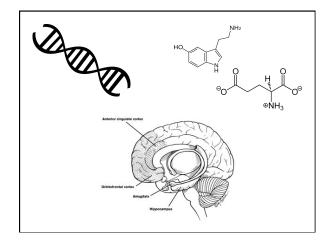
- Lots of research over past 20 years, but mired in controversy
- Twin studies show relatively strong influence of genetics on OCD development
 - Concordance rates of 50% in dizygotic, 80-90% in monozygotic

Genetics of OCD

- Molecular work (via segregation, linkage, and association studies) has been inconsistent
- Recent, large scale international work failed to find any SNPs with a genome-wide significance
- Points to need for new research methods, perhaps examining epigenetic expression

Structural Biology

- Damage to basal ganglia, cingulated gyrus, and the prefrontal cortex all appear to have a causal influence on development of OCD
- Decreased activity in caudate nucleus and orbitofrontal cortex
- Volume reduction in planum polare region



Evolutionary Causes

- Both biological and psychological components of OCD appear to have roots in normal functioning
- As such, OCD may be an exaggerated version of normal, evolutionarily-adaptive behaviors
- Responses to "threats" are overestimated, overwhelming an individual's resources

O/C as Adaptive Traits?

- Adaptive traits have four hallmarks:
- a) Have a lack of heritable variation
- b) Have evidence of good design
- c) Be evoked by appropriate triggers
- d) Fitness must be reduced when it is absent
- · OCD fits all four

O/C as Adaptive Traits?

- Proximally, pathology should develop due to genetic or biological brain deficits
- Basal ganglia damage, for instance, leads to lack of behavioral inhibition, decreasing executive functioning over habitual behavior

O/C as Adaptive Traits?

- Relatively high, consistent prevalence rates of 1-3% cross-culturally suggests aspects of OCD have been selected for in our past
- One proposed mechanism involves our ability to imagine consequences of risky behaviors without having to engage in them
 - Also causes us to develop harm avoidance habits

OCD across Species

- The most common compulsions appear to have analogs in other mammal behavior
 - Hibernating
 - Organizing and collecting food
 - Grooming, cleaning
 - Nest building



From FAPs to OCD

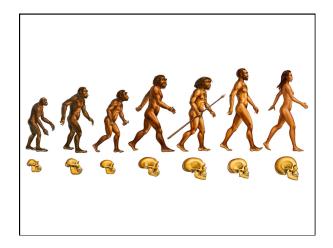
- These fixed action patterns then combined with our uniquely human meta-cognitive skills
- This allowed us to mentally represent future events, potentially exaggerating them and then responding accordingly

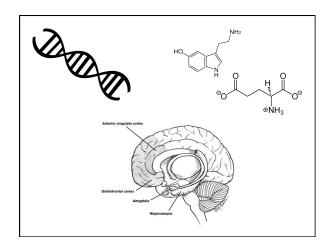
A Comprehensive Etiological Model

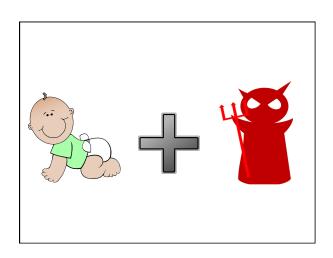
- Considering normative, adaptive behaviors and what they would look like when disrupted helps to understand ultimate roots of OCD
- Understanding biological aspects gives insight into a particular person's vulnerability to developing OCD

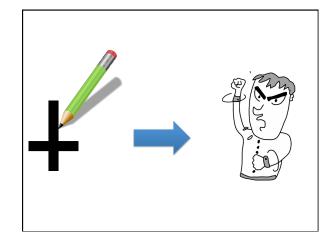
A Comprehensive Etiological Model

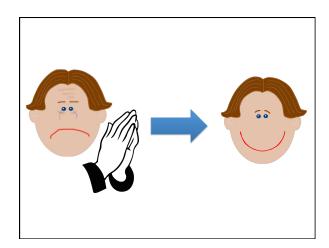
- Knowing the psychological underpinnings of OCD helps to provide both explanatory power at higher levels and informs interventions
- CBT using exposure with response prevention and cognitive restructuring
 - Causes behavioral, cognitive, and biological changes in people with OCD

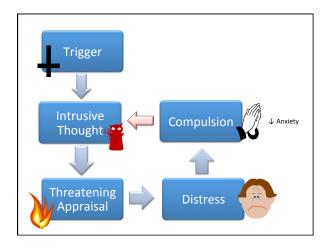












Conclusions

- Although people want simple explanations for phenomena, real life rarely cooperates
- We must embrace a multi-level explanation of mental disorders that encompasses evolutionary, biological, and psychological factors

Media Critique #1



Evidence-based Treatments

Pharmacology for OCD

- Overall, pharmacology (SRIs) shows large effect sizes in adults (0.91), but...
 - Most treatment responders show residuals
 - Very high relapse rate (24-89%)
- Only moderate effect sizes in youth (0.46)

Abramowitz et al. (2009)

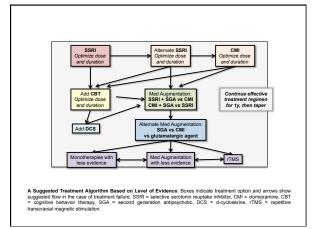
Pharmacology for OCD

- SRIs can be adjuncted with antipsychotics, but only 1/3 will respond
- Presence of tics appears to decrease SSRI effects in children, unclear in adults
- OCD w/ tics responds better to neuroleptics than OCD w/o tics

Abramowitz et al. (2009); Leckman et al. (2010)

Strength of Evidence for Meds

| Medication | Туре | Adults | Children |
|--------------------------|------|--------|----------|
| Clomipramine (Anafranil) | TCA | Α | В |
| Citalopram (Celexa) | SSRI | В | С |
| Escitalopram (Lexapro) | SSRI | В | D |
| Fluoxetine (Prozac) | SSRI | В | Α |
| Fluvoxamine (Luvox) | SSRI | Α | В |
| Paroxetine (Paxil) | SSRI | Α | В |
| Sertraline (Zoloft) | SSRI | В | А |



CBT for OCD

- The treatment of choice, for both adult and child OCD; superior to meds alone
- Primarily focuses on EX/RP, which has shown effect sizes of 1.16-1.72 (88-95% improve)
- Low (12%) relapse rate, but up to 25% will drop out prior to completion of treatment

CBT Outcomes

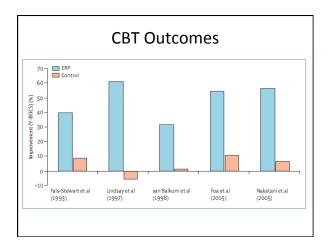
- Those with hoarding symptoms appear to respond less well to treatment
- May need to add motivational enhancement techniques for those who are reluctant to engage in exposures
- Group therapy is as effective as individual

Abramowitz et al. (2009)

CBT Outcomes

- Those with comorbidity present higher severity, but respond equally well to EX/RP
- Comorbid anxiety or depressive symptoms tend to show improvements as well, even if not specifically targeted

Storch et al. (2010)



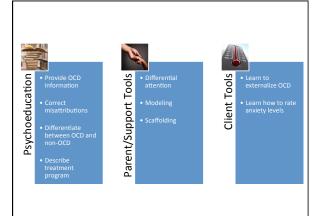
Cognitive-Behavioral Therapy for Obsessive-Compulsive Disorder

Children vs. Adults

- The overall treatment (course, methods used, etc.) is highly similar
- Children do tend to require more support and scaffolding from parents
- Nonetheless, both youth and adults need to have a strong support system in place to assist with therapy and homework

Outline of CBT Treatment

- Typically between 10-16 sessions
- Includes identified client and and other family/support persons (parents, spouse, etc.)
- Four primary components
 - Psychoeducation, development of a fear hierarchy, exposures with response prevention, cognitive strategies



Considerations

- Keep information and activities developmentally appropriate
 - For young children (under 8), they may not need/ benefit from the education portion
 - Older children and adolescents, however, should be included
- Deliver treatment "with the client" and not "to the client"

Session Sequence

- An initial assessment should be conducted prior to therapy starting
- Complete a clinical interview and symptom measures
- Helps determine differential or comorbid diagnoses and impact of OCD symptoms on functioning

Assessments

- Gold standard in assessments are clinician interviews like CY-BOCS & Y-BOCS
- Useful to assess impact of OCD and family accommodation with FAIS-C, COIS-R, FAS-SR
- Quick self-report of symptoms for screening purposes can use C-FOCI, LOI-C, or OCI-R

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- Results of assessment
- Provide education on
 - Etiology and course of OCD
 - Cormorbidity
 - OCD vs non-OCD behaviors
- Give overview of treatment program
- Homework daily record of OCD symptoms

Instructions: Please keep a daily record of TWO of your childs OCD symptoms. In the space provided below (feel free to use additional space if necessary) record the date, the specific symptom, the amount of time your child spent engaging in that symptom, how much disturbance it causes in the family, and how the partnas are involved in the symptom.

| Date | OCD symptom | Time spent | Family disturbance | Parent's involvement |
|---------|---|------------|---------------------------------|---------------------------|
| T 3/17 | At dinner, looked at roll for mold | 5 min | Made vs rvm late for basketball | Answered many questions |
| W 3/18 | Refused to eat muffin for breakfast | 10 min | Fought on way to school | Yelled at her |
| W 3/18 | Asked if she would get sick from Lysol | 1 min | None | Told her not to worry (2) |
| Th 3/19 | Looked at bagel for mold | 4 min | None | Answered many questions |
| F 3/20 | Asked about bottle of Windex | 1 min | None | Told her not to worry (2) |
| Sa 3/21 | Looked at dinner roll for mold | 1 min | She cried | Answered many questions |
| Su 3/22 | Asked if she would get sick from Windex | 1 min | None | Told her not to wormy |
| M 3/23 | Refused to eat toast | 5 min | Late to school b/c made eggs | Answered many questions |

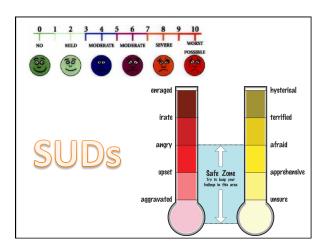
Session 2

- Review past session
- Start development of hierarchy
- Give overview of tools
- Introduce differential attention and reward plan
- Homework Track two O/C symptoms, prepare rewards and rewards chart

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|-------------------|----|

| Ranking | Description of Symptom | Label (0, C, ?) | Notes |
|---------|--|-----------------|----------------|
| 1. | Worries about household cleaners | 0 | |
| 2. | Avoiding eating off recently cleaned surfaces | C | |
| 3. | Questioning parents about use of household cleaners | C | |
| 4. | Worries about mold on food | 0 | |
| 5. | Examination of food for mold | C | |
| 6. | Worries about whether she had swallowed objects (e.g., paper clip) | 0 | |
| 7. | Avoiding eating certain foods | ? | Need more info |

- Review last week
- Introduce child to reward program
- Review OCD symptoms with child
- Introduce feeling thermometer/SUDS and symptom tracking (client tools)



- Discuss praise & encouragement with supports
- Review level of family involvement in and accommodation of OCD symptoms
- Homework Monitor symptoms, start reward chart for doing so
- New hierarchy (by therapist between sessions)

| Exposure Techniques |
|---|
| The common thread in effective anxiety treatments is hierarchy-based exposure tasks |
| Controversy over exactly why exposure therapy works so well for anxiety |
| Does not require extensive preparation to be effective and long-lasting |
| Rosqvis |
| |
| Evpocuro Tochniques |
| Exposure Techniques |
| Begin by constructing a fear hierarchy Generate specific feared situations |
| 2. Rate them using Subjective Units of Distress |
| • Continue by actually doing the exposures, working from lower to higher SUDs situation |
| working from lower to higher 3003 situation |
| |
| |

Sample Fear Hierarchy

| Situation | Fear Rating |
|---|-------------|
| Driving over the Steel Bridge at rush hour | 100 |
| Driving on the highway at rush hour, at dusk, and in poor weather | 90 |
| Driving on the highway at rush hour, in good weather | 80 |
| Being a passenger on the highway during rush hour | 75 |
| Driving on the highway in the middle of the day, in good weather | 65 |
| Driving on a city street at midday, when it is raining | 65 |
| Driving on a city street at midday, when the sky is clear | 50 |
| Turning onto a city street during traffic hours | 45 |
| Driving in a busy parking lot during business hours | 35 |
| Driving in an empty parking lot during "off" hours | 25 |

OCRD Homework #2

- You will now create your own fear hierarchies
- Should include a wide range of fears and/or situations that are distressing
- Use SUDs rating to distinguish and order the hierarchy

| Session 4 | |
|--|---|
| Review last week | - |
| Problem solve homework or reward program | |
| Continue hierarchy development | |
| Introduce arguing with OCD | |
| Conduct in-session exposure | |
| | |
| | |

Exposure Types

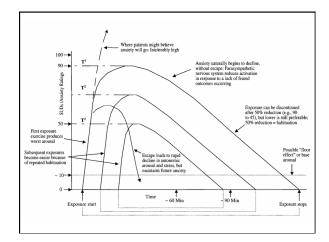
- · Imaginal exposure tasks
 - Often used in the beginning, or when the child has abstract worries / fears
 - Allows for practicing coping skills before confronting the real situation
- In vivo exposure tasks
 - Often follow imaginal exposures, use a "live and in person" version of the feared situation

Exposures

- Exposure occur both in and out of session
- Requires cooperation of parents to facilitate successful homework exposures
- Should be similar to what is being done in session, using a hierarchy and SUDs ratings
- Internal and external rewards for successful exposure completion should be discussed beforehand

Exposures

- Ideal exposures are prolonged, repeated, and prevent the use of distraction behaviors
- SUDs decrease of at least 50%, with more being better
- May require shaping up to the more difficult situations, in terms of both time and use of distractors



| aily Prac | tice Record | | | | | | | |
|-----------|-----------------------------|----------|-------|-------|-------------|--------|--------|--------|
| ask Desc | ription: | | | | | | | |
| eminder | of Specific Strategies to U | se: | | | | | | |
| | | | | The | rmometer Ra | tings | | 1 |
| Date | What was attempted | Pre-task | 1 min | 2 min | 5 min | 10 min | 15 min | 20 min |
| | 11 | | | | | | | |
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| | | | - | | - | | | - |
| | | | + | | - | - | + | + |
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Therapist Tasks

- Realize long-term benefits outweigh shortterm distress, and communicate this effective to the family
- Work collaboratively with the child and family to plan and execute the exposures
- Maintain rapport during exposures by building upon pre-established rapport

Therapist Tasks

- Do not allow avoidance or distracter behaviors during the exposure
- Modeling how to conduct exposures for the parents, so that they can perform them at home
- Be flexible and creative when dealing with less than optimal exposures and resistance

Obstacles for the Therapist

- I'm making my client more upset / anxious
- It's difficult to see people in distress
- Can be emotionally draining for some therapists
- May have to do exposures that you are not comfortable with

Session 4

- Discuss differential attention again especially ignoring
- Review family involvement in OCD symptoms
- Problem solve homework compliance obstacles
- Homework EX/RP task completion; family use positive attention and ignoring

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| Session 5 | |
|---|--|
| Review last week | |
| Problem solve homework tasks | |
| Revise hierarchy of symptoms | |
| Review arguing with OCD | |
| Conduct in-session exposure | |
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| Session 5 | |
| | |
| Discuss modeling | |
| Homework | |
| Parental/spouse modeling, use of differential attention | |
| Client completes EX/RP task(s) each day | |
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| Sossion 6 | |
| Session 6 | |
| Review last week | |
| Problem solve homework tasks | |
| Review disengagement efforts | |
| Revise hierarchy of symptoms & arguing | |
| Introduce scaffolding/coaching | |
| | |

Scaffolding

- Step 1 Find out client child feels and empathize with the client
- Step 2 Brainstorm with client how to approach the situation
- Step 3 Choose option from Step 2 and act on it
- Step 4 Evaluate and reward

Session 6

- Conduct in-session exposure
- Review scaffolding/coaching steps
- Homework
 - Parents/spouse use modeling, DA, scaffolding, continue disengagement, reward task completion
 - Client completes ERP task(s) each day

Session 7

- Review past week
- Problem solve homework
- Review disengagement
- Revise hierarchy of symptoms & check arguing
- Conduct in-session exposure to check scaffolding

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- Expand use of scaffolding outside of EX/RP practice tasks
- Homework
 - Encourage use of all parental/spouse tools
 - Have supports apply scaffolding outside planned practice times
 - Client complete ERP task(s) each day

Sessions 8-10

- Review past week
- Problem solve homework
- Review disengagement
- Revise hierarchy of symptoms & arguing
- Conduct in-session exposures
- Homework assignments

Further Sessions

- Take place two weeks after previous sessions
- Similar to sessions 8-10
- Focus on how to handle OCD future problems
 - Relapse prevention strategies
 - Dealing with symptom reappearance

Ending Therapy

- Sessions should be spaced further apart
- Some clients may need more booster sessions than others
- Plan on having long-term follow-up visits to check progress and troubleshoot

Novel Treatments for OCD

Giving Treatment a Boost

- CBT using EX/RP is the gold-standard, followed by a medication regimen
- But, some 20%+ of people with OCD may not respond fully to EX/RP
 - Number is much higher for meds
- This has led to augmentation efforts

Virtual Reality

- Has been used when in vivo exposures aren't possible or feasible
- Still in very early stage treatment, but development of <u>cheaper VR</u> and easier programming may lead to rapid advances

Motivational Interviewing

- Used to enhance desire for change and intrinsic motivation
- Somewhat mixed evidence to support the use of MI in conjunction with CBT
 - Research weighs slightly on the "yes" side in that it seems to enhance outcomes

Self-Guided Treatment

- Low levels of treatment seeking and low levels of EX/RP trained providers mean poor access in many areas
- Several computer-guided interventions have been found to be more effective than placebos (although not as good as in person)

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Neurosurgical Interventions

- Three primary ones for OCD, usually as a "last resort" option
- Stereotactic ablative neurosurgery
 - Usually an anterior capsulotomy (a lesion in the anterior limb of internal capsule)

Neurosurgical Interventions

- Deep brain stimulation
 - Delivers high-frequency current to anterior limb of internal capsule, nucleus accumbens, or subtalamic nucleus
 - Most prominent and well-tested option
- Repetitive transcranial magnetic stimulation
 - Non-invasive, delivers weak electrical stimulation to dorsolateral prefrontal cortex or supplementary motor cortex

Media Critique #2

