

Obsessive- Compulsive Spectrum Disorders

Outline

- Concept
- Classification
- BDD
- Hypochondriasis
- Eating disorders
- Hoarding disorder
- Trichotillomania
- Excoriation disorder
- ICDs
- Tourette's syndrome

Concept of OC Spectrum

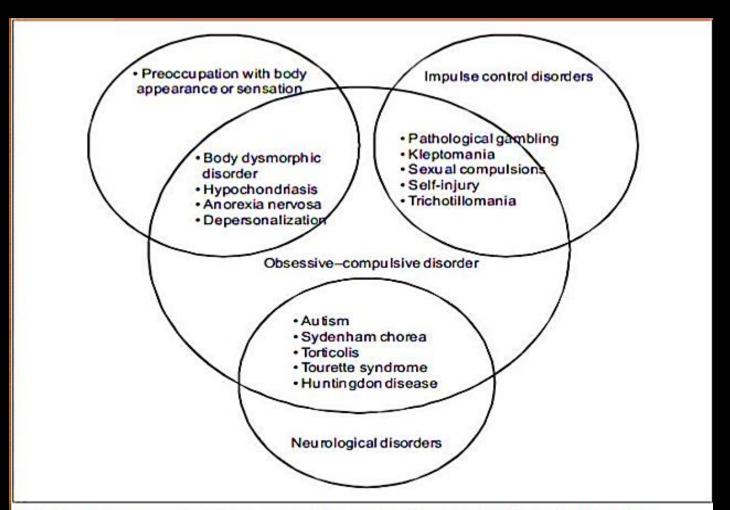
 Broad notion of OCD: repetitive thoughts and behaviour

 Disorders that are posited to be linked to OCD, based on their similarities with OCD in a variety of domains, are referred to as 'OC spectrum disorders.'

Concept of OC Spectrum

- Important evidence supporting the "spectrum" concept comes from bi-directional comorbidity patterns.
- These disorders can also be viewed as being on a continuum of compulsivity to impulsivity
 - Harm avoidance- Compulsive
 - Risk seeking- Impulsive (conceptual overlap with addictions)

Classification of OCSD



Hollander E. Treatment of obsessive-compulsive spectrum disorders with SSRIs. Br J Psychiatry. 1998;173(Suppl 35);7-12.

Classification of OCSD

DSM-V Research Planning Conference 2006

- Strong evidence: body dysmorphic disorder (BDD), Tourette's disorder, and hypochondriasis
- Some evidence: hoarding, obsessive—compulsive personality disorder (OCPD), eating disorders, PANDAS
- Incomplete evidence: trichotillomania (TTM), other grooming/habit disorders such as pathological skin picking.
- Based on presented evidence, it was recommended that ICDs not be considered OCSDs.

Classification of OCSD

- 187 OCD experts survey
 - -BDD (72%)
 - TTM (71%) and tic disorders (61%)
 - Hypochondriasis (57%)
 - OCPD (45%)
 - ICDs (33%)
 - Eating disorders (28%)
 - Autism (9%)
 - Addictions (5%)

DSM 5 OCRD

- OCD
- BDD
- Hoarding disorder
- Trichotillomania
- Excoriation
- ICD-11 OCRD include OCD, BDD, olfactory reference disorder, hypochondriasis and hoarding disorder

Body Dysmorphic Disorder

 Disorder of body image in which preoccupations focus on a belief that some aspect, or aspects, of one's body is malformed or misshapen, when in fact the 'deformity' is minimal or non-existent.

Body Dysmorphic Disorder

Domain	Similarities to OCD	Differences from OCD
Phenomenology	 Recurrent, intrusive, distressing thoughts Compulsive acts: mirror checking, camouflaging, reassurance seeking Avoidance: social situations 	 Poorer insight Less anxiety reduction Core beliefs: self focussed
Etiology	 Comorbid OCD (32%) OFC, Caudate nucleus, lower platelet 5-HT transporter binding density Temperamental: harm aviodance 	 5-HT1D-beta Exaggerated left hemisphere and amygdala activation
Course	Chronic	Slightly earlier onset
Treatment	SSRI, CBT	Pimozide ineffective

Hypochondriasis

 A psychiatric disorder involving preoccupation with fears of having or idea that one has serious disease based on misinterpretation of bodily symptoms despite appropriate medical evaluation and reassurance.

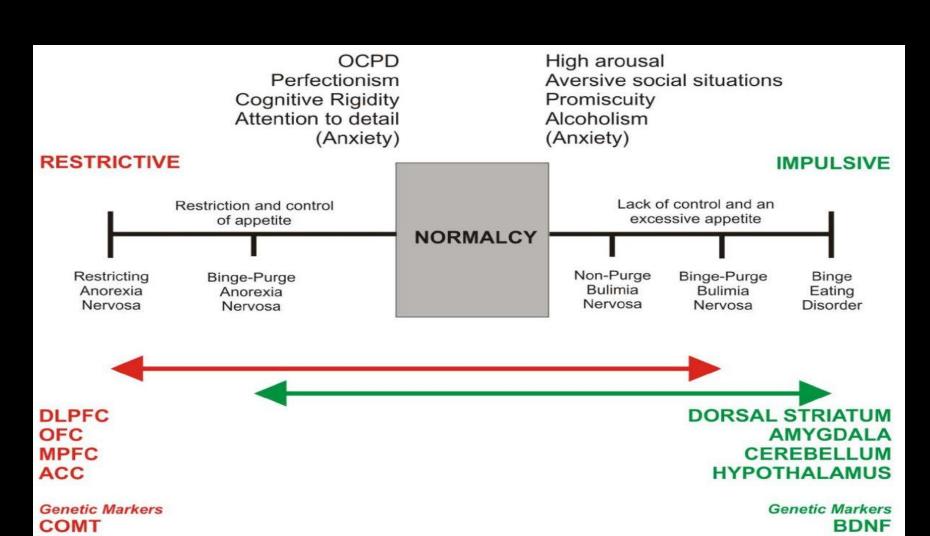
Hypochondriasis

Domain	Similarities to OCD	Differences from OCD
Phenomenology	 Illness fears similar to somatic obsessions Compulsive acts: reassurance seeking, checking Anxiety Intolerence of uncertainty 	 Poorer insight Less compulsivity Greater avoidance Greater somatic fear
Etiology	 More common among first-degree relatives of OCD versus control 	 Comorbidity with OCD not significant. Different cortical activation pattern
Course		Better 5 yr remission rates
Treatment	SSRI, CBT	

Eating Disorders

- Persistent disturbances in feeding and eating behaviors that significantly interfere with the afflicted individual's life.
- Six diagnoses in DSM 5:
 - Anorexia nervosa,
 - Bulimia nervosa,
 - Binge eating disorder (BED),
 - Avoidant/restrictive food intake disorder (ARFID),
 - Pica
 - Rumination disorder.

Eating Disorders



5HT2A

5HT2A

Eating Disorders

Domain	Similarities to OCD	Differences from OCD
Phenomenology	 Repetitive thoughts and preoccupations about a certain feared stimulus (food/ image/weight) Anxiety/fear Compensatory behaviors: restriction, binge/purge, compulsive exercise 	 Poorer insight Ego syntonic
Etiology	 Blunted fenfluramine-mediated prolactin responses (OCD, OCPD) Increased activity in caudate and inferior prefrontal area Co-morbid- inconclusive 	
Treatment	СВТ	SSRI

- HD is characterized by the persistent and profound difficulty discarding with or parting from one's possessions.
- Significant congestion and clutter causing impairment.
- DSM-IV-TR: hoarding one of the eight diagnostic criteria for OCPD
- DSM 5: separate disorder in OCRD

Etiology:

- Deficits in executive functioning, attention, memory, and categorization
- Neuroimaging studies: partial circuit overlap with OCD
- Dopaminergic system involvement
- Family & twin studies: genetic susceptibility
- Higher risk in family history of OCD
- Co-morbid: OCPD in 1/3rd hoarders

Phenomenology and clinical features:

- No associated obsession; wish to retain saved items and distress by the thought of discarding them.
- Compulsive excessive acquisition- similarity to both OCD and ICD
- Avoidance behaviour- no discarding

- "Clutter avalanches" and "Domestic squalor"
- Associated symptoms: indecisiveness and procrastination, difficulty planning and organizing tasks, and distractibility and avoidance

Epidemiology and course

- 1.5% prevalence
- Although onset similar to OCD, distress and treatment seeking in mid-thirties
- Chronic course
- Also unlike OCD, where symptom intensity can wax and wane, hoarding appears to have a very stable course

Treatment

- SSRI- first line pharmacotherapy in clinical practice
- Poorer response to SSRI as compared to OCD
- CBT- adapted to HD. ERP elements common with OCD. Skills training and motivational interviewing also included.

- An irresistible urge to pull out their hair.
- DSM- IV: Impulse control disorder
- DSM 5: OCRD
- ICD 11: body focused repetitive behavior disorders (BFRBDs)

- Epidemiology
 - Age of onset is typically at menarche
 - F:M ratio- 9:1
- Eitiology
 - CSTC circuits
 - Reward processing and affect regulation
 - Family and twin studies: genetic susceptibility, as well as a relationship to OCD and other BFRBDs.
 - Co-morbid with OCSD
 - Elevated risk in ICDs

Phenomenology and clinical features

- Hair-pulling resulting in noticeable hair loss, repeated attempts to decrease or stop, clinically significant distress or impairment
- Commonly from scalp, eyebrows, and eyelashes
- Trichophagy
- Hyperarousal (e.g., stress) and hypoarousal (e.g., boredom)
- Gratification/relief after pulling

- Similarities :
 - Repetitive ritualistic approach
 - Attempts to resist
- Differences:
 - No prominent cognitions.
 - Hair pulling is gratifying in trichotillomania
- Variable course

- Treatment
 - Psychoeducation
 - Early studies: clomipramine response
 - SSRI and venlafaxine: less effective
 - Dopamine receptor blockers
 - NAC: positive clinical trials
 - Habit reversal therapy : awareness training,
 competing response training, and social support

Excoriation (Skin picking) Disorder

- Recurrent skin-picking, resulting in skin lesions.
- DSM IV: "impulse control disorder not otherwise specified"
- DSM 5: OCRD
- ICD 11: BFRBDs

Excoriation (Skin Picking) Disorder

Epidemiology:

- Point prevalence : 1.4 to 5.4 %
- Mean age of onset: 12 years
- Primarily females

Etiology:

- motor impulsivity similar to OCD
- CSTC circuit involvement
- Animal studies: precipitated by dopaminergic stimulants
- Genetic linkage and co-morbidity with BFRBDs and OCD

Excoriation (Skin Picking) Disorder

Clinical features:

- Skin-picking resulting in skin lesions, repeated attempts to decrease or stop skin-picking, clinically significant distress or impairment
- Most commonly: face, followed by the hands, fingers, arms, and legs. Multiple sites likely
- Associated habits/rituals: stroking or playing with the skin, choosing a particular scab to pick, and mouthing the scab once it is pulled
- No associated obession, body image concern
- Chronic fluctuating course

Excoriation (Skin Picking) Disorder

Treatment:

- Pharmacotherapy: SSRI, Dopamine blockers,
 NAC
- Psychotherapy: HRT, Manualized CBT

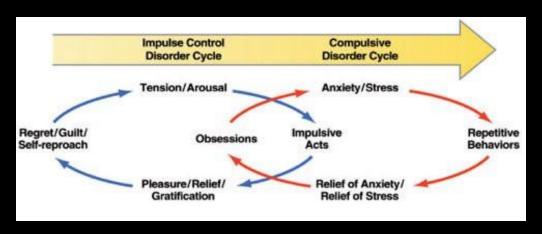
Impulse Control Disorders

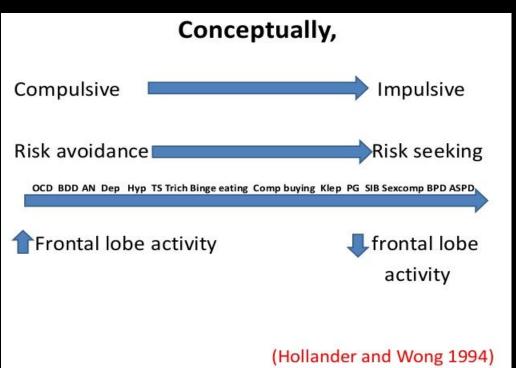
- The failure to resist an impulse, drive, or temptation to perform an act that is harmful to the person or to others.
- Characterized by:
 - Repetitve engagement in behavior despite adverse consequences
 - Diminished control over problematicc behavior
 - Urge/ craving prior to behavior
 - Hedonic quality experienced while performing act/behavior

Impulse Control Disorders

Disorder	Characteristics
Pathological gambling	PG is a disorder of impulse control characterized by recurrent gambling behavior that is maladaptive (ie, loss of judgment or excessive gambling)
Sexual compulsivity	Paraphilias and related disorders: sexual compulsions, excessive time or distress with out of control behavior
Kleptomania	Pattern of stealing items not needed for personal use, monetary value or in response to vengeance/anger
Pyromania	Pattern of deliberate setting of fires for pleasure or relief froom urge/tension state experienced.
Intermittent explosive disorder	recurrent, problematic, reactive (i.e., affective or impulsive), aggressive outbursts (not premediated)

Impulse Control Disorders





Tourette's Syndrome

- Tics are stereotyped, rapid, recurring motor movements (motor tics) or vocalizations (phonic or vocal tics) that are nonrhythmic, involuntary or semivoluntary, and sudden in onset.
- Most well known: Tourette's syndrome

Tourette's Syndrome

Similarities:

- Stimulus precedes a largely habitual response.
- Just right phenomena
- Suppression induces anxiety/distress
- High cormorbidity with OCD
- Familial genetic link with OCD
- frontostriatal circuit abnormality

Tourette's Syndrome

- Differences:
 - Stimulus more sensory than cognitive
 - Sensorimotor cortex more than OFC
 - Neuroleptics and HRT
 - The median age of onset is 5.5 years

PANDAS

- Paediatric Autoimmune Neuropsychiatric Disorders Associated with Streptococcal infection (PANDAS)
 - Obsessive-compulsive disorders and tics
 - Acute-onset in prepubertal age
 - Relapsing-remitting course
 - Association with neurological abnormalities (mainly choreiform movements and motor hyperactivity)
 - Temporal relationship with group A streptococcal infections.

Autism

- OC spectrum traits: Repetitive behaviors and restricted interests include ritualistic behaviors and compulsive behaviors, rigid adherence to routine, a marked resistance to change, and needing things to be "just so."
- Hypothesis: Dysregulation of the serotonin system
- Genetic linkage: OCD more common in relatives of autistic probands.

OCPD

- OCPD is defined as preoccupation with orderliness, perfectionism, and mental and interpersonal control, at the expense of flexibility, openness, and efficiency
- Similarities in neurocircuitry, neurocognitive profiling, temperament, genetic link to OCD and some evidence of SSRI response
- Ego syntonic

Criticism of the concept

- Overly inclusive without definitive construct
- Insufficient evidence of common pathogenesis
- Over-reliance on co-morbidity and treatment similarities
- Reflects debate between categorical and dimensional approach

Summary

- OC spectrum controversial concept
- Evidence based on symptoms, genetic links, co-morbid OCD and treatment response
- Inconclusive evidence for etiopathogenesis
- Maximum evidence for BDD, trichotillomania, excoriation disorder, hoarding disorder and hypochondriasis.
- Psychotherapeutic approach primary treatment for most OCSDs

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Thank You