

Disruptive, Impulsive, Control & Conduct Disorders

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Updated 2021



Disruptive, Impulse, Control & Conduct Disorders

- Oppositional Defiant Disorder
- Intermittent Explosive Disorder
- Conduct Disorder
- Pyromania
- Kleptomania
- Other specified DICCD
- Unspecified DICCD





Introduction

- Problems with self-control of emotions + behaviors
 - Behaviors that violate rights of others (aggression, destruction)
 - Conflict with societal norms or authority figures
- Relative emphasis between emotional + behavioral regulation
 - Conduct disorder → poorly controlled behaviors
 - Intermittent explosive disorder → poorly controlled emotions
 - Pyromania, kleptomania → more evenly distributed
- Development & course
 - More common in males → degree varies with specific disorder, age
 - Usually first onset in C&A → very rare for CD/ODD to emerge as adult
- Most CD would have previously met criteria for ODD
 - But most ODD do NOT develop CD
 - ODD at risk of developing anxiety, depressive disorders



Introduction

- May occur in typically developing individuals
 - Consider frequency, persistence, pervasiveness
 - Consider age, gender, culture
- Common externalizing spectrum of personality dimensions:
 - Disinhibition vs constraint
 - Negative emotionality
- High level of comorbidity with:
 - Other DICCD
 - Substance use disorder
 - Antisocial personality disorder

Oppositional Defiant Disorder





Oppositional Defiant Disorder - Diagnostic Criteria

A. Frequent behaviors <u>lasting ≥ 6 months</u>, exhibited during interactions with at <u>least 1 non-sibling individual, (4+/8):</u>

Angry/Irritable Mood

- Loses temper
- 2. Easily **annoyed**, touchy
- 3. Angry, resentful

Argumentative/Defiant Behavior

- 4. **Argues** with authority figures/adults
- 5. Actively defies requests from authority figures/rules
- 6. **Deliberately annoys** others
- **7. Blames others** for mistakes

Vindictiveness

- 8. Vindictive/spiteful (at least twice in past 6 months)
- B. Sig distress (in individual or others) or impairment
- Not exclusively during psychotic, depressive, bipolar or SUD. Does **not** meet criteria for DMDD



Oppositional Defiant Disorder – Specifiers

Specify current severity:

• Mild: 1 setting

• Moderate: 2 settings

• **Severe:** 3+ settings





Oppositional Defiant Disorder – Diagnostic Features

- Frequent persistent pattern (mood, behavior, vindictiveness)
 - May show behavioral features WITHOUT negative mood
 - May be confined to one setting (usually home)
 - Pervasiveness → indicator of severity
 - Assess across multiple settings + relationships
 - Oppositional behavior may be common among siblings
 - Typically more evident with adults or peers
- Symptoms can occur to some degree without disorder
 - Preschool children may show weekly temper tantrums (normal)
 - Consider frequency, assoc symptoms, impairment
- Problematic interactions with others → ?relative contribution
 - Do not regard themselves as problematic, justify behaviour as a response
 - Cause/effect of hostile parenting, poor conditions → can still make DX



Oppositional Defiant Disorder – Associated Features

- More prevalent in families with:
 - Disrupted child care, by succession of different caregivers
 - Harsh, inconsistent or neglectful child-rearing practices
- Most common comorbidities
 - ADHD
 - Conduct disorder
- Increased risk for suicide attempts (controlled for comorbidities)



Oppositional Defiant Disorder – Prevalence

- <u>Prevalence</u> = **1 11%** (average = 3%)
 - May vary by age, gender
 - Prior to adolescence → more prevalent in MALES (1.4x)
 - Adolescence, adults → NO DIFFERENCE





Oppositional Defiant Disorder – Development & Course

- First ODD sx usually appear during preschool years
 - Rarely after early adolescence
 - Oppositional behaviors incr during preschool and adolescence → important to compare to normative levels before ODD dx
- ODD often precedes conduct disorder
 - Esp for childhood-onset conduct disorder
 - But most C&A with ODD do NOT develop conduct disorder
 - Defiant, argumentative, vindictive sx -> most of risk for conduct disorder
 - Angry-irritable mood sx → most of risk for emotional disorders
 - At risk for anxiety, depressive disorders (without conduct disorder)
- As adults, incr risk of:
 - Antisocial behavior, impulse-control problems
 - Substance abuse, anxiety, depression



Oppositional Defiant Disorder – Risk & Prognostic Factors

- Temperamental
 - Emotional regulation (emotional reactivity, frustration tolerance)
- Environmental
 - Harsh, inconsistent or neglectful child-rearing practices
- Genetic & Physiological
 - Neurobiological markers assoc with ODD+CD
 - Lower HR, skin conductance reactivity
 - Decr basal cortisol reactivity
 - Abnormalities in prefrontal cortex, amygdala
 - Unclear if specific to ODD



Oppositional Defiant Disorder – Culture-Related Issues

- Prevalence
 - Relatively consistent (across countries with different race/ethnicity)

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Oppositional Defiant Disorder – Functional Consequences

- Sig impairment (emotional, social, academic, occupational)
 - Frequent conflicts with parents, teachers, supervisors, peers, romantic



Oppositional Defiant Disorder – Differential Diagnosis

Conduct disorder

- Both → conflict with adults, authority figures
- ODD → less severe, no aggression to people/animals, no destruction of property, no pattern of theft/deceit
- Conduct disorder → does not include emotional dysregulation
- ADHD → often comorbid
 - Ensure ODD sx not solely in ADHD situations
- Depressive, bipolar disorders → if only during mood episodes



Oppositional Defiant Disorder – Differential Diagnosis

- Disruptive mood dysregulation disorder → trumps ODD dx
 - Both → chronic negative mood + temper outbursts
 - More severe in DMDD → only minority meeting ODD will have DMDD
- Intermittent explosive disorder
 - Both → high rates of anger
 - ODD → no serious aggression
- Language disorder → impaired language comprehension
- Social anxiety disorder → fear of negative evaluation



Oppositional Defiant Disorder – Comorbidity

ADHD

Higher rates of ODD → ?shared temperamental risk factors

Conduct disorder

ODD often precedes CD → esp childhood-onset subtype

Anxiety, major depressive disorder

Largely attributable to presence of angry-irritable mood sx

Higher rates of SUD

Unclear if dependent on comorbidity with conduct disorder

Intermittent Explosive Disorder



Intermittent Explosive Disorder - Diagnostic Criteria

- A. Behavioral outbursts (failure to control aggressive impulses):
 - Aggression NOT resulting in damage/injury, twice weekly for 3 mos OR
 - 2. Aggression resulting in DAMAGE/INJURY, 3 times in past year
- B. Aggressiveness **grossly out of proportion** to stressor
- c. Not premeditated or to achieve tangible objective
- D. Sig distress, impairment, financial/legal consequences
- E. At least age 6 (or equivalent developmental level)
- F. Not better explained by AMD, not due to substance/AMC, not part of adjustment disorder for age 6-18
- Can be dx in addition to ADHD, conduct disorder, ODD, ASD if in excess + warrants independent clinical attention

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Intermittent Explosive Disorder – Diagnostic Features

- Failure to control impulsive aggressive behavior
 - Response to minor provocation by close intimate/associate
 - Typically wouldn't result in aggression
 - Rapid onset, minimal prodromal period, typically <30 mins
 - Impulsive, anger-based (not premeditated or instrumental)
- A1) Aggression (verbal/physical) without damage/injury
 - Twice weekly, for 3 months → often between damaging aggression
 - Temper tantrums, tirades, verbal arguments, assaulting animals, others
- A2) Aggression causing damage/injury
 - Three times in past year → with non-damaging aggression between
 - Destroying property/objects, physical injury to animals, other individuals



Intermittent Explosive Disorder – Associated Features

- Associated with:
 - Unipolar mood disorders
 - Anxiety disorders
 - Substance use disorders
 - Onset of these disorders → typically LATER than IED

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Intermittent Explosive Disorder – Prevalence

- <u>12-month prevalence</u> = **3**%
 - More prevalent among younger (age <40 vs age >50)
 - More prevalence if high school education or less



Intermittent Explosive Disorder – Development & Course

- Onset most commonly → late C&A
 - Rarely after age 40
- Typically chronic + persistent course
 - May be episodic + recurrent
- Quite common regardless of presence of ADHD, other DICCD

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Intermittent Explosive Disorder – Risk & Prognostic Features

Environmental

- Hx of physical + emotional trauma, in first 20 years of life
- Genetic & Physiological
 - First degree relatives of IED → incr risk of IED
 - Twin studies → sig genetic influence for impulse-aggression
 - Serotonergic abnormalities
 - Globally, limbic system (anterior cingulate), orbitofrontal cortex
 - Incr amygdala response to anger stimuli (vs healthy control)



Intermittent Explosive Disorder – Culture-Related Issues

- Lower prevalence in some regions
 - Asia, Middle East, Romania, Nigeria (vs US)
 - May not be elicited or present due to cultural factors



Intermittent Explosive Disorder – Gender-Related Issues

- Varies by studies
 - Some → greater in MALES (OR 1.4-2.3)
 - Some → no gender difference

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Intermittent Explosive Disorder – Functional Consequences

- Social → loss of friends/family, marital instability
- Occupational → demotion, loss of employment
- Financial → value of destroyed objects
- Legal → civil suits, criminal charges



Intermittent Explosive Disorder – Differential Diagnosis

- <u>DMDD</u> → mutually exclusive dx
 - Persistent negative mood state, onset before age 10, don't dx after age 18
- ADHD, conduct disorder, ODD, autism spectrum disorder
 - Conduct disorder → outbursts proactive + predatory
 - ODD → temper tantrums, verbal arguments with authority
 - LOWER levels of impulsive aggression (vs IED)
 - If severity warrants independent clinical attention → can give both dx
- Antisocial or borderline PD
 - Impulsive aggressive outbursts → LOWER level (vs IED)



Intermittent Explosive Disorder – Differential Diagnosis

- Substance intoxication/withdrawal
 - Alcohol, PCP, cocaine, stimulants, barbiturates, inhalants
- Not exclusively during episode of AMD
- Delirium, major NCD, personality change due AMC
 - Direct physiological effect
- Not exclusively during adjustment disorder if age 6-18

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Intermittent Explosive Disorder – Comorbidity

- Most common comorbidities
 - Depressive disorder
 - Anxiety disorders
 - SUDs
- Greater risk of IED if history of:
 - Antisocial PD, borderline PD
 - Other disorders with disruptive behavior (ADHD, CD, ODD)

Conduct Disorder



Conduct Disorder – Diagnostic Criteria

- A. Repetitive and persistent pattern of behaviour
 Violation of basic rights of others or societal norms/rules
 Presence of 3+/15 for past 12 months
 (with 1+/15 for past 6 months):
 - 1. Aggression to people + animals (7)
 - 2. Destruction of property (2)
 - 3. Deceitfulness or theft (3)
 - 4. Serious violations of rules (3)
- B. Sig functional impairment
- c. If age >18, does NOT meet antisocial PD



Conduct Disorder – Diagnostic Criteria

A) 3+/15 for past 12 months, 1+/15 for past 6 months	
Aggression to People + Animals	Destruction of Property
 Often bullies, threatens, intimidates Often initiates physical fights Has used a weapon Physically cruel to people Physically cruel to animals Stolen while confronting a victim Forced someone to sexual activity 	8. Fire setting with intention to cause serious damage 9. Destruction of others' property
Deceitfulness or Theft	Serious Violations of Rules
10. Broken into someone else's house, building, car11. Often lies for gain12. Stolen without confronting victim	13. Often stays out at night (age <13) 14. Ran away from home overnight (twice, or once for long duration) 15. Often school truancy (age <13)



Conduct Disorder – Specifiers

- Specify subtype:
 - Childhood-onset type: at least one sx before age 10
 - Adolescent-onset type: no sx until after age 10
 - Unspecified onset: insufficient information to determine age of onset
- Specify if:
 - With limited prosocial emotions: 2+/4, past 12 months
 - Lack of remorse/guilt: lack of concern about negative consequences
 - Callous/lack of empathy: cold, uncaring, self-centered
 - Unconcerned about performance: school, work, limited effort, blames
 - Shallow/deficient affect: shallow, insincere, superficial, no expression
- Specify current severity:
 - Mild: relatively minor harm
 - Moderate: between mild and severe
 - Severe: considerable harm



Conduct Disorder – Subtypes

• Estimated age of onset often 2 years later than actual onset

Childhood-onset (1 symptom before age 10)	Adolescent-onset (No symptoms before age 10)
Usually MALE	Balanced gender ratio
 More freq physical aggression 	Less likely aggressive behaviors
 Disturbed peer relationships 	 More normative peer relationships
Preceding ODD	 Less likely to persist into adulthood
 Full CD criteria before puberty 	
 Concurrent ADHD, other neurodev 	
difficulties	
More likely persist into adult	

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Conduct Disorder – Specifiers

- "With limited prosocial emotions"
 - Reflects typical pattern of interpersonal + emotional functioning
 - Callous, unemotional traits
 - Thrill seeking, fearlessness, insensitivity to punishment
 - More likely to engage in planned aggression for instrumental gains
 - Can occur with any subtype or severity
 - More likely to have childhood-onset type + severe level
 - Requires multiple information sources





Conduct Disorder – Diagnostic Features

- A1) Bullying, threatening, intimidating (messaging, social media)
- A2) Initiate frequent physical fights
- A3) Uses weapons that can cause physical harm
- A4) Physically cruel to people
- A5) Physically cruel to animals
- A6) Steal while confronting a victim (mugging, robbery)
- A7) Force someone into sexual activity
- A8) Deliberate fire setting
- A9) Deliberate destruction of other's property
- A10) Breaking into someone else's house, building, car
- A11) Conning others, lying for gain
- A12) Stealing without confronting (shoplifting, fraud)
- A13) Staying out at night (age <13) (despite parental rules)
- A14) Running away overnight (twice, once if long duration)
- A15) Often truant from school (age <13)



Conduct Disorder – Associated Features

- Freq misperception of intentions of others
 - As more hostile/threatening than actually
 - Respond with aggression that they feel is reasonable/justified
- Personality features common with conduct disorder
 - Negative emotionality, poor self-control, poor frustration tolerance
 - Irritability, temper outbursts, suspiciousness
 - Insensitivity to punishment, thrill-seeking, recklessness
- Substance use → esp in adolescent females
- Suicidality (SI, SA, completed suicides) → higher rates



Conduct Disorder – Prevalence

- <u>12-month prevalence</u> = **2-10%** (median 4%)
 - Consistent across countries with difference race/ethnicity
- Prevalence RISES from childhood to adolescence
- More common among MALES





Conduct Disorder – Development & Course

- Onset → usually middle childhood through adolescence
 - Can occur as early as preschool years, rare after age 16
- Course is variable
 - Majority REMIT by adulthood
 - If adolescent-onset type, or fewer/milder symptoms
 - Many have adequate adjustment as adults
 - If childhood-onset type → worse prognosis
 - Incr risk of criminal behavior, conduct disorder, SUD in adulthood
 - Risk of later disorders as adults (mood, anxiety, PTSD, impulse-control, psychotic, somatic symptom, SUD)
- Varies with age (incr strength, cognitive, sexual maturity)
 - First sx tend to be less serious → last sx tend to be more severe
 - If more damaging behaviors early → worse prognosis
 - If conduct behaviors as adult at work/home → consider antisocial PD





Conduct Disorder – Risk & Prognostic Factors

Temperamental

- Difficult under-controlled infant temperament
- Below average intelligence (esp verbal IQ)

Environmental

- Family-level risk factors
 - Parental rejection, neglect, inconsistent child-rearing practice
 - Harsh discipline, physical or sexual abuse
 - Lack of supervision, early institutional living
 - Frequent changes of caregivers, large family size
 - Parental criminality, familial psychopathology (SUD)
- Community-level risk factors
 - Peer rejection, delinquent peer group, neighborhood violence
- Both types of risk factors → more common/severe in childhood-onset





Conduct Disorder – Risk & Prognostic Factors

Genetic

- Incr risk if family hx of conduct disorder (bio/adoptive parents, siblings)
 - Esp for childhood-onset subtype
- More common if parent has:
 - Severe AUD, depressive, bipolar disorder, schizophrenia, hx ADHD
- Physiological (none are diagnostic)
 - Slower resting heart rate (not seen in any other mental disorder)
 - Decr autonomic fear conditioning, low skin conductance
 - Structural/functional differences in areas for affect regulation/processing
 - Frontotemporal-limbic connections -> prefrontal cortex, amygdala

Course modifiers

- Persistence more likely if:
 - Childhood-onset, "with limited prosocial emotions", ADHD, SUD



Conduct Disorder – Culture-Related Issues

- Disruptive behavior may viewed as near-normative
 - Very threatening, high-crime areas/war zones



Conduct Disorder – Gender-Related Issues

Males	Females
Fighting	• Lying
 Stealing 	Truancy
 Vandalism 	 Running away
 School discipline 	 Substance use
	 Prostitution
 Physical aggression 	 More relational
 Relational aggression 	aggression

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Conduct Disorder – Functional Consequences

Social consequences

- School suspension/expulsions, work adjustment, legal difficulties
- May preclude attending normal school, living in parental/foster home

Medical consequences

- Early onset of sexual behavior, STDs, unplanned pregnancies
- Substance use (tobacco, alcohol, illegal drugs)
- Reckless/risky acts, physical injuries, more accidents
- Predicts midlife health difficulties

Common reason for treatment referral

- Freq diagnosed in mental health facilities for children (esp forensics)
- More severe/chronic impairment that other disorders

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Conduct Disorder – Differential Diagnosis

- Oppositional defiant disorder (can give both dx)
 - Both → conflict with adults, other authority figures
 - ODD → less severe, no aggression, no destruction, no theft/deceit
 - Requires emotional dysregulation
- ADHD (can give both dx)
 - Disruptive behavior → usually not violating social norms/rights of others
- Depressive, bipolar disorders (can give both dx)
 - Mood disturbance, episodic
- Intermittent explosive disorder (can give both dx)
 - High rates of aggression → IED dx if warrants independent attention
 - IED → not premeditated, not for gain, no non-aggressive sx
- Adjustment disorders (with disturbance of conduct, mixed)
 - Onset of psychosocial stressor, resolve within 6 months



Conduct Disorder – Comorbidity

- ADHD, ODD → both common, predict worse outcomes
- Antisocial personality disorder
 - Often meets criteria for conduct disorder
- Other mental disorders
 - Anxiety, depressive, bipolar disorders
 - SUDs
 - Specific learning disorder, communication disorders
 - May have lower than expected academic achievement
 - Esp reading, verbal skills

Antisocial Personality Disorder



Antisocial Personality Disorder

See Personality Disorders

Pyromania



Pyromania – Diagnostic Criteria

- A. **Deliberate fire setting,** multiple episodes
- B. Tension/affective arousal before the act
- c. Fascination + attraction to fire (and situational context)
- D. Pleasure/relief when setting fires (or with aftermath)
- E. Not due to other objective or impairment
- F. Not better explained by conduct disorder, antisocial PD, mania

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Pyromania – Diagnostic Features

- C) Fascination, interest, curiosity, attraction to fire
 - Situational contexts → paraphernalia, uses, consequences
 - Often regular watches of fires, may set off false alarms
 - Pleasure from institutions, equipment, personnel assoc with fire
 - May spend time at local fire department
 - Set fires to be affiliated with the fire department
 - Even become firefighter
- D) Pleasure, gratification, relief when setting fire
 - Also witnessing its effects, participating in its aftermath
- E) NOT due to other objective or impairment
 - Monetary gain, sociopolitical expression, concealing crimes
 - Expressing anger/vengeance, improve living circumstances
 - Response to delusion or hallucination, major NCD, intellectual disability



Pyromania – Associated Features

- May make considerable advance preparation
 - May lead to property damage, legal consequences, injury, loss of life
 - May be indifferent to consequences caused by fire
 - May derive satisfaction from resulting destruction
- Individuals who impulsively set fires (may have pyromania)
 - Often have current or past history of AUD



Pyromania – Prevalence

- Population prevalence = UNKNOWN
 - Pyromania as primary dx likely very rare
 - In criminal system, those with repeated fire setting → 3% met pyromania
- Fire setting lifetime prevalence = 1.1%
 - Just one component of pyromania (not sufficient for dx)
 - More common comorbidities
 - Antisocial PD, SUD, bipolar, gambling disorder

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Pyromania – Development & Course

- Insufficient data → typical onset, course unknown
 - Relationship of childhood fire setting + adulthood pyromania unknown
 - Fire-setting incidents → episodic, may wax/wane in frequency
- Arson offenses → >40% are younger than age 18 (C&A)
 - Pyromania in childhood still rare
- Juvenile fire setting
 - Usually assoc with conduct disorder, ADHD, adjustment disorder

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Pyromania – Gender-Related Issues

- More common in MALES
 - Esp if poorer social skills, learning difficulties



Pyromania – Differential Diagnosis

Other causes of intentional fire setting

- Profit, sabotage, revenge, concealing crime, political statement
- Attract attention/recognition
- Developmental experimentation in childhood

Other mental disorders

- Exclusion if conduct disorder, antisocial PD, manic episode
- Not due to delusion/hallucination
- Not due to AMC
- Not due to impairment judgement (major NCD, intellectual disability, drugs)



Pyromania – Comorbidity

High co-occurrence

- Depressive, bipolar disorders
- Substance use disorders
- Gambling disorder
- Other DICCD

Kleptomania



Kleptomania – Diagnostic Criteria

- A. Failures to resist impulses to steal unneeded objects
- B. Increasing tension, immediately before theft
- c. Pleasure, gratification, relief at time of theft
- D. Not done to express anger/vengeance, or due to psychosis
- E. Not better explained by conduct disorder, antisocial PD, mania



Kleptomania – Diagnostic Features

- Objects stolen despite little value to individual
 - Could have afforded to pay for them
 - Often gives them away or discards them
 - May hoard stolen objects, or secretly return term
- Generally avoid stealing if immediate arrest probable
 - Usually do not preplan thefts or fully consider chances of apprehension
- Stealing done withOUT assistance/collaboration with others

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Kleptomania – Associated Features

- Typically attempt to resist the impulse to steal
 - Aware act is wrong + senseless
 - Fears being apprehended
 - Often feels depressed or guilty about thefts
- Associated behavioral addictions neurotransmitter pathways
 - Serotonin, dopamine, opioid systems



Kleptomania – Prevalence

- In individuals arrested for shoplifting → 4 24% kleptomania
- Prevalence in general population = 0.3 0.6% (very rare)
- Much more common in FEMALES (3x)



Kleptomania – Development & Course

- Age of onset → variable
 - Often begins in adolescence
 - May begin in childhood, adolescence, adulthood
 - Rarely in late adulthood
- Three typical courses
 - 1) Sporadic → brief episodes, long periods of remission
 - 2) Episodic -> protracted periods of stealing, periods of remission
 - 3) Chronic → some degree of fluctuation
- May continue for years, despite multiple convictions



Kleptomania – Risk & Prognostic Factors

- Genetic & Physiological
 - No controlled family history studies
 - In first degree relatives of kleptomania, higher rates of
 - OCD, SUD, AUD



Kleptomania – Functional Consequences

• Legal, family, career, personal difficulties



Kleptomania – Differential Diagnosis

- Ordinary theft or shoplifting
 - Deliberate, motivated by value of object or act
 - May steal on dare, act of rebellion, rite of passage
 - No other characteristic features
 - Shoplifting relatively common (kleptomania very rare)
- Malingering → to avoid criminal prosecution
- Antisocial PD, conduct disorder
- Manic episodes, psychotic episodes, major NCD
 - Delusions, hallucinations, impaired judgement



Kleptomania – Comorbidity

- Compulsive buying
- Depressive, bipolar disorders (esp MDD)
- Anxiety disorders
- Eating disorders (esp bulimia nervosa)
- Personality disorders
- Substance use disorders (esp AUD)
- Other DICCD

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Other Specified Disruptive, Impulse-Control & Conduct Disorder



Other Specified DICCD

- Does not meet full criteria
- Clinician choose to specify reason
- Recurrent behavioral outbursts of insufficient frequency

Unspecified Disruptive, Impulse-Control & Conduct Disorder



Unspecified DICCD

- Does not meet full criteria
- Clinician choose NOT to specify reason