

| DISORDERED EATING: anorexia nervosa (AN); bulimia nervosa (BN); binge-eating disorder (BED); other specified eating disorder | | | | | |
|--|-------------------------|-------------------------------|---------------------|----------------------------------|---|
| Condition | Disordered eating | Typical age of onset | Occurrence in males | SSRIs effective in acute/active? | 1 st degree relatives with anxiety, MDD, SUD |
| AN | Restriction predominant | Adolescence | 0.3% | No | Increased |
| BN | Binge/purge | Adolescence – early adulthood | 0.5% | Yes | Increased |
| BED | Binge only | Later in life (> 40) | 25% | Yes | No link |

AN & BN:

GENERAL COMMENTS:

- Increasing prevalence in post-industrialized, high-income countries
- > 90% female
- Typically begin in adolescence or early adulthood
 - Older age of onset for males
- BN associated with disinhibition (impulsivity), AN with inhibition
- Ambivalence or lack of interest in change is an expected part of the illness

TREATMENT:

- Therapy largely psychological (CBT, family systems)
- Small role of pharmacological therapy
- Focuses on normalizing eating behavior
- Low success rates

AN & BN: ETIOLOGY UNKNOWN:

- Likely a combo of genetic, developmental and environmental factors

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|---------------|--|
| GENETIC | <ul style="list-style-type: none"> 5-HT dysfunction Increased rates of anxiety disorders, depression and substance use disorders in 1st degree relatives |
| DEVELOPMENTAL | |
| ENVIRONMENTAL | <ul style="list-style-type: none"> Social pressure Dysfunctional family relationships <ul style="list-style-type: none"> Insecure attachment styles common Athletes |

CBT AND EATING DISORDERS:

- Overcome distorted thinking
- Teaches strategies besides using food to cope with stressors
- Provides positive reinforcement for weight gain

BULIMIA NERVOSA:

DIAGNOSTIC CRITERIA (DSM-V):

- Recurrent episodes of binge eating characterized by both of:
 - Eating in a discrete period of time an amount of food that is definitely larger than “normal”
 - A sense of lack of control over eating during this episode
- Recurrent inappropriate compensatory behaviors to prevent wt gain
- Binge eating & compensatory behaviors occur at least once per week for 3 months
- Self-evaluation is unduly influenced by body shape & weight
- Does not occur exclusively during periods of AN

CO-MORBIDITIES:

- Primary mood disorders common
 - Depression (up to 80%), anxiety or bipolar disorder
 - Often following development of BN
 - May remit with effective treatment of BN
- Personality disorders common
- Poor impulse control
- Sexual promiscuity
- Kleptomania frequent
- Substance abuse common (30-37%)

COMMON COMPLICATIONS:

- Related to self-inducing vomiting/chronic regurgitation of acidic gastric contents
 - Cheliosis, pharyngeal soreness, oral-dental problems ((dental erosion, cavities, periodontal disease, enamel erosion), esophageal complications (esophagitis, erosions, ulcers, bleeding/rupture)
- Russell’s sign (marks on hand due to self-induced vomiting)
- Menstrual irregularity or amenorrhea common
- Electrolyte disturbances (due to purging)
 - ↓ potassium & chloride, ↑ bicarbonate
- Esophageal tears, gastric rupture, cardiac arrhythmias (rare)

PROGNOSIS:

- Total absence of symptoms uncommon
- 5 year recovery rate ~ 50%
- Better outcomes associated with decreased severity, greater motivation to recover, fewer comorbidities, better interpersonal functioning and family relationships

PRESENTATION: THE BINGE-PURGE CYCLE:

- Normal BMI or overweight (18.5 – 30 in adults)
- May have frequent body weight fluctuations
- Can go undetected for years

EPIDEMIOLOGY:

- Predominantly females
- Mid adolescence to early adulthood (between 16-22 years of age)
- Population prevalence: 1.5% females, 0.5% males

ETIOLOGY:

- Unknown
- Childhood temperament (overanxious)
- Childhood obesity & early pubertal maturation
- ↓ 5-HT function (↓ 5-HIAA levels)

SEVERITY: based on inappropriate compensatory behaviors

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|----------|--------------------|
| MILD | 1-3 episodes/week |
| MODERATE | 4-7 episodes/week |
| SEVERE | 8-12 episodes/week |
| EXTREME | ≥ 14 episodes/week |

TREATMENT:

- Psychological therapy critical to success
- Antidepressants useful (acute and remission)
 - SSRIs preferred (tolerability, most evidence)
 - Reduce binge-eating episodes by > 50% in 2/3 of pts
 - Relapse during remission common
 - Bupropion CONTRAINDICATED (risk of seizures)
- BZDs (low-dose, short acting) helpful if anxiety associated with eating

ANOREXIA NERVOSA:**DIAGNOSTIC CRITERIA (DSM-V):** requires all of:

- Restriction of energy intake leading to significantly low body weight
- Intense fear of gaining weight or becoming fat
- Disturbance in the way in which one's body weight or shape is experienced

SEVERITY: based on low body weight (BMI)

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|----------|------------|
| MILD | ≥ 17.5 |
| MODERATE | 16 – 16.99 |
| SEVERE | 15 – 15.99 |
| EXTREME | < 15 |

NORMAL = 18.5 – 24.9 kg/m²

PRESENTATION MAY INCLUDE:

- Preoccupation with calories, meals, recipes, etc
- Highly avoidant of certain foods
- Preparing/serving elaborate meals for others
- Denial of symptoms, denial of hunger
- Rituals before and during eating
 - May become compulsions

AN TYPES:

- Restricting
- Binge-eating/purging type

COMMON COMPLICATIONS:

- Electrolyte abnormalities
 - ↓ potassium & chloride, ↑ bicarb
- Leukopenia
- Hypocholesterolemia
- Anemia
- Hypotension
- QT interval prolongation
- Bradycardia
- Low bone mineral density
- Hypothermia
- Amenorrhea
- Growth of fine hair all over body
- Hair things, becomes brittle

POTENTIAL LONG-TERM CONSEQUENCES:

- Brain atrophy (↓ in grey matter)
- Delayed sexual development
 - HPG suppression
- Estrogen suppression
 - Osteopenia, osteoporosis
 - Infertility

COGNITIVE PROCESSES:

- Self esteem highly dependent on perception of body shape and weight
- Weight loss = impressive achievement, extraordinary self-discipline
- Weight gain = unacceptable failure of self-control

COMORBIDITIES:

- Up to 75% have a primary mood disorder (MDD, BP)
- OCD (40% prevalence vs. 2.5% in gen population)
- Substance abuse is common
- Personality disorders
- Social phobia

EPIDEMIOLOGY:

- Predominantly female; early to late adolescence (between 15-19 years of age)
- Population prevalence: 0.9% females, 0.3% males (less common than bulimia)
- Longitudinal management is difficult as often resistant to weight restoration plans
 - Relapse requiring hospitalization within 1 year > 30%
 - Mortality rates ~ 10% (highest of any psychiatric disorder)
 - Societal promotion of the virtues of being thin has potentially negative impact

ETIOLOGY:

- Unknown
- Childhood temperament & personality traits may predispose
 - Rigid, competitive, perfectionistic
 - Compulsive & obsessive
 - Hyperactive
 - Anxious, depression
- ↑ 5-HT function (↑ 5-HIAA levels)

TREATMENT:

- Psychological treatment is key
- Treating psychiatric comorbid(ies) is necessary for long-term remission
- Drug therapy is secondary and may not be safe until BMI is normal

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|--------------------------------------|---|
| ANTIDEPRESSANTS | ◦ SSRIs not effective when condition active <ul style="list-style-type: none"> ▪ May be beneficial after weight restored |
| | ◦ Bupropion CONTRAINDICATED (risk of seizure) |
| ANTIPSYCHOTICS (2 nd gen) | ◦ Early in treatment to ↓ sx of depression, OCD, anxiety and paranoid thoughts concerning weight gain |
| | ◦ Efficacy/use controversial (evidence lacking) |
| BZDs | ◦ Low-dose, short acting |
| | ◦ Helpful when anxiety associated with eating |
| PRO-KINETIC AGENTS | ◦ Domperidone, metoclopramine |
| | ◦ Reduce feeling of fullness caused by ↓ intestinal motility |

PROGNOSIS:

- More favourable with longer follow-up care and younger age of onset
- Poorer prognosis:
 - Chronic disease
 - Lower initial weight
 - Presence of bulimia or purging behavior
 - Poor family relationships
 - OCD personality symptoms