



MEDICAL MANAGEMENT OF EATING DISORDERS

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ILLNESS



EATING DISORDERS

- Eating disorders (EDs) are mental illnesses where the symptoms associated have a psychological and physiological impact
- Pre-occupied with food intake, body weight, and body image
- Psychiatric comorbidity is high: depression and anxiety, PTSD, substance abuse
- Different types of EDs exist, each with implications for treatment and mortality

MORTALITY

- Highest mortality of any mental illness
- AN 5-20% (1/6-1/3 suicide)
- BN as high as 4%
- OSFED 5%

ANOREXIA NERVOSA

- Significantly low weight due to restriction
 - Mild: BMI ≥ 17 kg/m²,
 - Moderate: 16-17 kg/m²
 - Severe: 15-16 severe kg/m²
 - Extreme: ≤ 15 kg/m²
- Intense fear of weight gain or fat
- Body image disturbance or denial of illness
- Lifetime prevalence: 0.9% women, 0.3% men

ANOREXIA SUBTYPES

RESTRICTING



- low food intake
- often exercise
- “orthorexia”

BINGE/PURGE



- binge
- vomit
- laxatives
- diuretics
- underdose insulin in DM

BULIMIA NERVOSA

- Binge-eating and compensatory behaviours at least once a week for 3 months
- Self-esteem influenced by weight and shape
- Restrained eating, exercise, vomiting, laxative, diuretic, diet pill, ipecac, thyroid medication abuse
- Lifetime prevalence: 1.5% women, 0.5% men

OTHER SPECIFIED FEEDING or EATING DISORDER

Examples:

- Atypical AN (despite significant weight loss, weight is within or above normal range)
- BN of low frequency and/or limited duration
- BED of low frequency and/or limited duration
- Purging disorder (purging without binge eating)
- Night eating syndrome

BINGE EATING DISORDER

- Recurrent bingeing 1x/week x 3 mo
- 3 or more:
 - Eating more rapidly than normal
 - Eating until uncomfortably full
 - Eating large amounts when not hungry
 - Eating alone (shame)
 - Disgusted, depressed or guilty
- No compensatory behaviours

ETIOLOGY OF AN AND BN

- Family and twin studies suggest a strong genetic component (>50% heritability)

Some risk factors:

- Family history of obesity, affective disorder, substance abuse, and obsessive-compulsive disorder
- Early attachment and developmental difficulties
- Perfectionism, obsessionality, excessive compliance and low self esteem
- Female gender with exposure to Western thin ideals
- Excessive weight concern in the formative developmental years
- Adverse life experiences including abuse.

ETIOLOGY OF AN AND BN

Frequent precipitating factors:

- Separation and losses
- Disruptions of family homeostasis
- New environmental demands
- Direct threats of loss of self-esteem and personal illness

ETIOLOGY OF AN AND BN

Factors that sustain the illness:

- Psychological effects of starvation
- Distorted body perceptions
- Cognitive factors related to the disorder
- Personality features of the individual
- Continued cultural emphasis on the ideal of thinness

COMORBIDITY – AN

Over half have a comorbid psychiatric disorder

- Mood Disorders 42%
- Social phobia 25%
- Impulse control disorders 31%
- Substance use disorders 27%
- Avoidant, obsessive-compulsive personality traits

(Hudson et al., 2007)

COMORBIDITY – BN

Almost all report comorbid psychiatric disorders

- Mood disorders 71%
- PTSD 45%
- Substance abuse 37%
- Social phobia 41%
- Impulse control disorders 64%
- Borderline, avoidant personality traits

(Hudson et al., 2007)

AN: PROGNOSIS/OUTCOME

- 50% good
- 20% intermediate
- 20% poor
- 5-20% mortality

BN: PROGNOSIS/OUTCOME

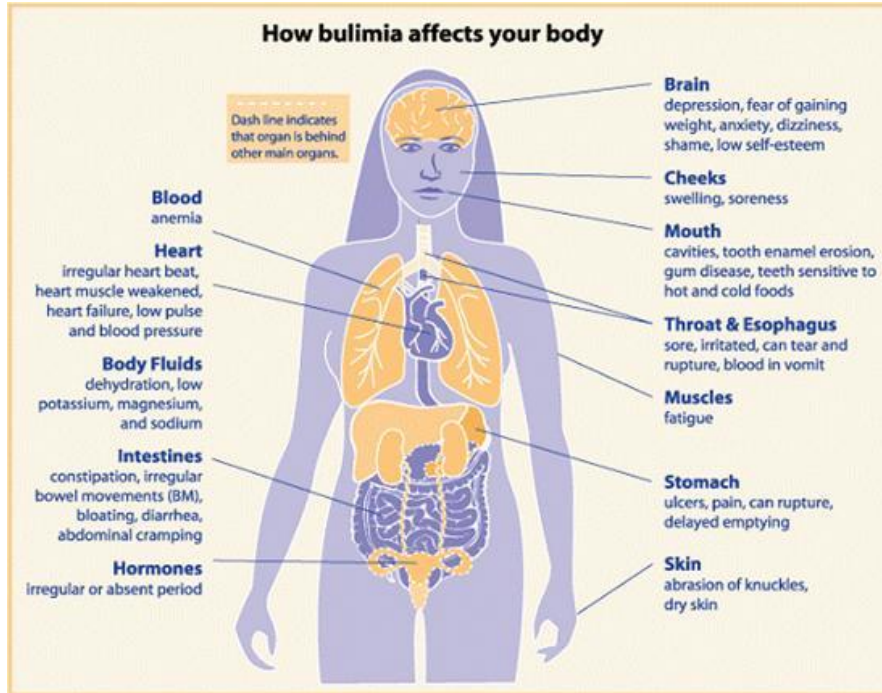
- 60% good
- 25-30% intermediate
- 10% poor
- 1-3 % mortality

Assessment

- Consider it in all females and males
- ASK
- Check menstrual status
- Weight changes, dieting
- Fertility problems

Assessment

- GI: stomachache, constipation
- Exercise (frequent injuries, stress fractures)
- Co-morbidity (depression, anxiety, PTSD, alcohol, drugs)
- Lack of progress with other MH problems



PHYSICAL EXAM

- Full physical exam
- Height and weight, orthostatic vitals
- Physical signs – weight, Russell's sign, enlarged parotids, lanugo, dental problems

INVESTIGATIONS

- Labs: CBC, glucose, Na, K, HCO₃, Cl, BUN, Cr, Ca, Mg, PO₄, LFTS, amylase
- Albumin
- Ferritin, vit B₁₂
- TSH
- EKG
- Bone density test

PRINCIPLES OF TREATMENT

- Weight restoration if underweight (food is medicine)
- Normalizing eating (non-dieting)
- Symptom cessation
- Psychotherapy: CBT-E, DBT, FBT
- Addressing co-morbidities
- Insight into underlying factors and function of the eating disorder, while focusing on behavioural change

THERAPY

- Prepare for change (MI)
- Making behavioural change (CBT)
 - Normalize eating (stop restriction cycle)
 - Decrease bingeing and vomiting etc.
- Learning emotion regulation (DBT)
- Therapy for underlying issues
 - Low self esteem, trauma, maturity fears

Intensive Treatment

- Indications for:
 - Admission for medical stabilization
 - Voluntary inpatient eating disorder treatment
 - Residential (eg: Bellwood)
 - Day treatment
- Bellwood EDP criteria

MANAGEMENT CONCERNS

Safety

- Medical: mostly in the beginning of treatment
- Psychiatric: suicidality, self harm, dissociation

EMERGENCY INPATIENT MEDICAL MANAGEMENT

- Rapid weight loss of >25% of body weight, or BMI < 12 kg/m²
- HR < 40 or > 120 bpm; sBP < 80 mmHg
- Postural changes: > 20 mmHg drop in BP or > 20 bpm increase in HR
- Core temp < 35 degrees Celsius
- Ischemia, cardiac arrhythmia, prolonged QTc > 500
- Severe electrolyte disturbance
- Signs of renal or hepatic failure
- Seizure, confusion, decrease LOC
- Severe hypoglycemia
- Sudden weakness
- Severe GI pain with increased amylase and lipase (pancreatitis)

Patient may need to be certified for transfer to hospital for emergency medical treatment

Most common emergency presentation in our setting: hypokalemia

CLINICAL FEATURES: PROFILE OF A PATIENT AT HIGH RISK FOR DEATH

- Very low weight
- Multiple purging methods
- No medical follow-up
- Ipecac use
- Amphetamine or cocaine use
- Chronic self-harm or suicide attempts
- Bradycardia or tachycardia

MEDICATIONS

- Food is medicine
- AN:
 - ? Treat depression/anxiety with SSRI
 - Watch out for prolonged QTc
- BN:
 - SSRIs high dose (e.g. Prozac 60 mg)
- Wellbutrin contraindicated
- BED: SSRIs, Topiramate, Vyvanse

COMMON REQUESTED MEDS

GI:

- Constipation: fibre, stool softeners, PEG, NO stimulant laxatives
- Bloating: Gaviscon, simethicone
- Digestion: domperidone (watch out for QTc)
- See MD for extreme acute pain (risk of pancreatitis)

COMMON REQUESTED MEDS

Sleep:

- Melatonin, tryptophan
- Mirtazepine, trazodone, zopiclone
- Quetiapine (off label)
- Avoid benzodiazepines

COMMON REQUESTED MEDS

Anxiety (before meals or in general)

- Quetiapine
- Benzodiazepines generally avoided

MEDICAL PROBLEMS

ELECTROLYTE/FLUID ABNORMALTIES

- Low potassium
- Low magnesium
- Low phosphate
- Metabolic alkalosis from vomiting, diuretics
- Dehydration

CARDIOVASCULAR

- Decreased BP
- Decreased HR
- Arrhythmias
- Sudden cardiac death
- Peripheral edema
- Cardiac muscle loss
- Ipecac myocardial tissue toxin

GASTROINTESTINAL

- Enlarged parotid glands
- Reflux, Barrett's esophagitis
- Esophageal tears
- Esophageal/gastric ulcers
- Bloating
- Constipation
- Pancreatitis

ENDOCRINE

- Irregular menses/amenorrhea
- Fertility problems
- Pregnancy – fetal malnutrition and complications
- Thyroid changes: low active T_3, T_4 , increased rT_3 , TSH normal or a little high

BONES

- Osteopenia/osteoporosis
- Fractures
- Bone mineral density scan if underweight for > 6 months, repeat every 2 years if still underweight
- Followed by osteoporosis clinic
- Bisphosphonates not helpful

OTHER

- High cholesterol
- Vitamin deficiencies
- Zinc deficiency
- Iron deficiency

- Skin- Russell's sign, colour changes
- Hair- loss, lanugo

CASE

- 19-year-old female patient comes to you with low weight BMI 16 (weight loss of 35lb since started university 6 months ago) and complaints of constipation.

- Dx?
- Concerns/considerations?
- Periods?
- Level of denial and motivation for Tx

Issues:

- Safety concerns: risk for electrolyte abnormalities; needs regular bloodwork and ECG, weights
- Deterioration of ED while considering
- Need for monitoring

- Multidisciplinary team:
 - Medical monitoring
 - Psychotherapy
 - Dietitian
 - Intensive treatment

