

Eating Disorder & BAD

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History

- Described and named by Lasegue (1873) and Gull (1874)
- “self-inflicted fasting”
- Late 19th century, increased in adolescent cases
- Little psychiatric illness
- Managed at home, general infirmaries or asylum



Karen Carpenter (1950 – 1983)

Epidemiology (I)

- Male to female (1:10)
- Mean age of onset
 - Female 16 to 17 years old (rarely > 30)
 - Male 12 years old
- Incidence: 0.5% (most studies <1%)
- More in upper or middle class (clinic sample)
- Cultural factor: rare among Blacks in UK, US and Africa.

Epidemiology (II)

- Occupation at risk
 - Model
 - Female distance runner
 - Male bodybuilder
- Co-morbidity
 - Depression (or dysthymia): 50 to 75%
 - Bipolar affective disorder: 4 to 13%
 - Obsessive-compulsive disorder: 25%
 - Substance abuse: 12 to 18%
 - Personality disorder: 42 to 75%
 - Report of sexual abuse: about 20%

Body Mass Index (I)

- For predicting health risks
- $BMI = \text{Weight (in kg)} / [\text{Height (in meter)}]^2$
- Developed by Belgian statistician Adolphe Quetelet in 19th century
- Less reliable in children and teenage, pregnant and nursing women, competitive athletes and bodybuilders, and people over 65



Body Mass Index (II)

Male	Female	interpretation	Risk
<19.1	<20.7	Underweight	Lower BMI, greater risk
19.2 – 25.8	20.8 – 26.4	Ideal weight	Very low risk
25.9 – 27.3	26.5 – 27.8	Marginally overweight	Some risk
27.4 – 32.2	27.9 – 31.1	Overweight	Moderate risk
32.3 – 44.8	31.2 – 45.4	Very overweight (obesity)	High risk
>44.8	>45.5	Morbid obesity	Very high risk

Diagnostic Criteria

- Low body weight
 - >15% below expected
 - BMI 17.5 or less
- Self-induced weight loss
- Body image distortion
- Endocrine disorder
- Delayed / arrested puberty – if onset pre-pubertal



Aetiology

- Genetic
 - MZ : DZ = 65% : 32%
 - Female siblings: 6 – 10%
- Adverse life events
- Psychodynamic models
- Biological
 - Hypothalamic dysfunction
 - Neuropsychological deficits
 - Brain imaging

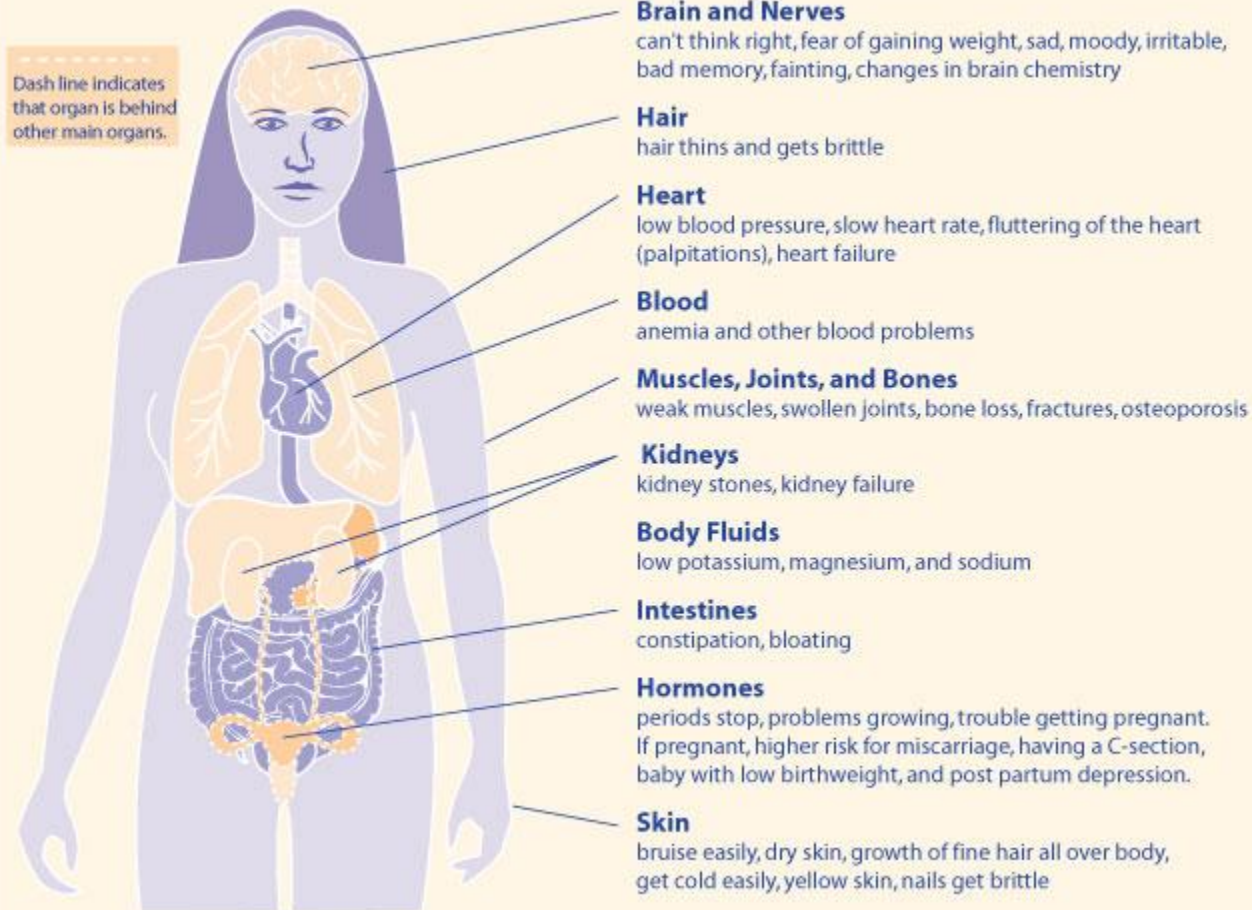
Differential diagnosis

- OCD
- Depression
- Chronic debilitating physical disease
- Brain tumours
- GI disorders (e.g. Crohn's disease, malabsorption syndromes)
- Loss of appetite (may be drug related, e.g. amphetamine)

Common Problem

- Oral
- Cardiovascular
- Gastrointestinal
- Endocrine and metabolic
- Renal
- Reproductive
- Dermatological
- Neurological
- Hematologic

Anorexia affects your whole body



Assessment

Full Psychiatric History

- Concentration
- Memory
- Decision-making
- Irritability
- Depression
- Low self esteem
- Loss of appetite
- Reduced energy
- Insomnia
- Loss of libido
- Social withdrawal
- Obsessiveness regarding food

Assessment

Full Medical History

- General physical health
- Amenorrhoea
- Cold hands and feet
- Weight loss
- Constipation
- Dry skin
- Hair loss
- Headaches
- Fainting or dizziness
- lethargy

Physical Signs

- Loss of muscle mass
- Dry skin
- Brittle hair and skin
- Russel sign
- Anemia
- Yellow skin and sclera
- Lanugo body hair
- Eroded tooth enamel
- Peripheral cyanosis
- Hypotension
- Bradycardia
- Hypothermia
- Atrophy of breasts
- Swelling of parotid glands
- Swollen tender abdomen
- Peripheral neuropathy



Blood Test (I)

- CBC – Hb may be normal or elevated, leucopaenia and thrombocytopenia
- ESR – normal or reduced; if elevated (look for organic cause)
- RFT
 - increased in urea and creatinine
 - Hyponatraemia
 - Hypokalaemic hypochloraemic metabolic alkalosis
 - Metabolic acidosis

Blood test (II)

- Glucose – hypoglycaemia
- LFT – minimal elevation
- TFT – low T3 / T4
- Albumin / total protein – usually normal
- Cholesterol – may be dramatically elevated
- Endocrine
 - Increased in cortisol, GH
 - Decreased in LHRH, LH, FSH, oestrogens and progestogens

Cardiac Investigation

- ECG
 - Sinus bradycardia (30 – 40 bpm)
 - ST elevation and T wave flattening
 - Low voltage and right axis deviation
 - QT prolongation
- Echocardiogram
 - Decreased heart size
 - Decreased left ventricular mass
 - Mitral valve prolapse
 - Recover on refeeding

Management (I)

- Aims of treatment
 - Restore patients to healthy weight
 - Treat physical complication
 - Enhance patient's motivation
 - Provide education regarding eating pattern
 - Correct core dysfunctional thought
 - Treated associated psychiatric condition
 - Family support and family counseling
 - Prevent relapse

Management (II)

- Site of management
 - Outpatient
 - Intensive outpatient
 - Day centre
 - Residential treatment centre
 - Inpatient treatment

Management (III)

- Criteria for admission to hospital
 - <75% healthy body weight
 - Severe electrolyte imbalance
 - Hypothermia (<36°C); bradycardia (<45bpm)
 - Severe cardiac or medical complication
 - Close observation is needed
 - Marked change in mental status
 - Psychosis or significant risk of suicide
 - Failure of outpatient treatment

Management (IV)

- **Psychiatric Management**
 - Establish and maintain a therapeutic alliance
 - Coordinate care and collaborate with other clinician
 - Assess and monitor eating disorder symptoms and behavior
 - Assess and monitor the patient's general medical condition
 - Assess and monitor the patient's psychiatric status and safety
 - Provide family assessment and treatment

Assessment Instruments

- Self-report
 - Diagnostic Survey for Eating Disorder (DSED)
 - Eating Attitudes Test
 - Eating Disorders Examination – Q4 (EDE-Q4)
 - Eating Disorders Inventory
 - Eating Disorders Questionnaire
 - Questionnaire of Eating and Weight Patterns
- Semi-structured Interview
 - Eating Disorders Examination (EDE)
- Clinical Conducted Interview
 - Yale-Brown-Cornell Eating Disorder Scale

Management (V)

- Nutritional rehabilitation
- Psychosocial Intervention
- Medications

Management (VI)

- Re-feeding aimed at 1kg per week
- Adverse effect of re-feeding
 - Fluid retention (transient or rebound)
 - Abdominal pain and bloating
 - Cardiac arrhythmias, cardiac failure, delirium, seizures (rapid re-feeding)
 - Hypophosphatemia
 - Constipation
 - Acne or breast tenderness

Management (VII)

- Antidepressant
 - Not routinely use in acute phase
 - No evidence for weight restoration
 - Helpful in weight maintenance
 - Improved in depressive symptoms
 - Reduce re-admission rate
 - Suggest: Fluoxetine 40mg daily
 - Use as OC or depressive symptoms persist

Management (VIII)

- Lithium – no substantial benefit
- Pimozide – no significant benefit
- Novel antipsychotics with SSRI – for highly OC patients
- Vitamin, hormone, ECT – no specific value
- Estrogen replacement – osteopenia in women (marginal)

Prognosis (I)

- Mortality rate: 20% (20 years FU)
 - 12 times increase in young women
 - 2/3 due to physical complication
 - 1/3 suicide
- 4 years follow up
 - Good 44% (within 15% of expected weight and regular menstruation)
 - Poor 24% (never within 15% of expected weight and menstruation absent)
 - 28% between good and poor
 - 67% have enduring morbid preoccupation
 - 40% have bulimic symptoms

Prognosis (II)

- Poor prognostic factors
 - Chronic illness
 - Late age of onset
 - Bulimic features
 - Anxiety when eating with others
 - Excessive weight loss
 - Poor childhood social adjustment
 - Poor parental relationship
 - Male sex

Binge Eating Disorder

- Periodically does not exercise control over consumption of food.
- Eats an unusually large amount of food at one time, far more than a normal person would eat in the same amount of time.
- Eats much more quickly during binge episodes than during normal eating episodes.
- Eats until physically uncomfortable and nauseated due to the amount of food just consumed.

Binge Eating Disorder

- Eats when depressed or bored.
- Eats large amounts of food when not really hungry.
- Usually eats alone during binge eating episodes, in order to avoid discovery of the disorder.
- Often eats alone during periods of normal eating, owing to feelings of embarrassment about food.
- Feels disgusted, depressed, or guilty after binge eating.
- Rapid weight gain, and/or sudden onset of obesity.

Binge Eating Disorder

- Diagnostic Criteria:
 - subjects must binge at least twice per week for a minimum period of three months for bulimia nervosa and a minimum of 6 months for BED
 - Those with binge eating disorder are more likely to be overweight or obese

ED and BAD

- Epidemiology
- Phenomenologic similarities
- Course
- Family history
- Treatment
 - Mood stabilizers
 - Antiepileptics
 - Antidepressant
 - Psychological treatment



Thank you