Eating disorders (ED)

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Classification of ED

• Anorexia nervosa (AN)

• Bulimia nervosa (BN)

• Atypical AN or BN

• Binge eating disorder

Anorexie nervosa - behaviour

- Restricting type:
 - food restriction (dieting, shrinking portions, periods of starvation)

- Binge-eating/purging type:
 - alternation of periods with food restriction and periods of overeating
 - followed by self-induced vomiting, abuse of laxatives, appetite suppressants and diuretics

Anorexia nervosa - behaviour

- Common symptoms
 - excessive exercise
 - body checking
 - mirror gazing, repaeted weighing
 - or avoidance the mirror and refusal to weigh
 - increased preoccupation with food
 - strict rules regarding food intake
 - counting the caloric value of foods
 - eating at precise time intervals
 - cooking for household members

Anorexia nervosa - psychopathology

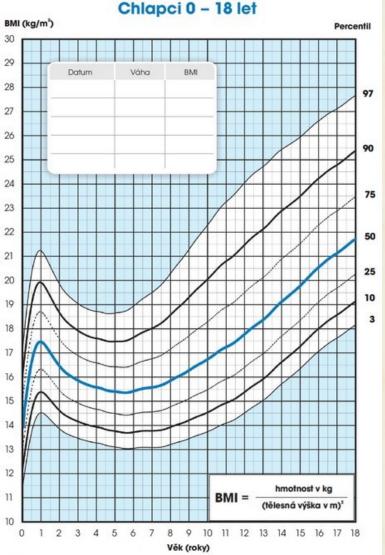
- Intrusive dread of fatness and weight gain
 even during severe malnutrition
 - leads to a self-imposed low weight threshold
 - remorse after eating
- Body image disturbance
 - overestimation of weight and body shape
 - particularly the buttocks, abdomen and thighs

Anorexia nervosa - psychopathology

- Fluctuations of mood
 - reduction of social contacts
 - disrupted concentration
- Deny the severity of symptoms
 they tend to lie and manipulate other people



Anorexia nervosa ICD-10 criterions



- Body weight
 decreases in BMI <17.5
- Self-induced weight loss

 food restriction (restricting type)
 self-induced vomiting, abuse of laxatives, appetite suppressants and diuretics

(binge-eating/purging type)

– excessive exercise

Anorexia nervosa ICD-10 criterions

- Psychopathology
 - intrusive dread of fatness
 - body image disturbance
 - negative emotional evaluation of their body
 - self-imposed low weight threshold

Anorexia nervosa ICD-10 criterions

- Primary or secondary amenorrhea
 - usually not present when using hormonal contraceptives
- Delay or absence of pubertal symptoms
- Changes in hormone level
 - ↑ kortisol
 - secondary hypothyroidism

Anorexia nervosa - epidemiology

- Lifetime prevalence
 - for women it is about 0.5-2%
 - for men 0.3%
- Just 1/2 are observed by specialists
- Beginning
 - between 12 and 15 years
 - 1. hospitalizazion between 15 and 19 years
 - rarely from 8 year

Anorexia nervosa – personality

- Perfectionism
 - low selfesteem
 - performance orientation
- Neurotic and introversion personality

 anxious, inner insecure
- Dissatisfaction with one's body

Anorexia nervosa – risk factors

- Family constelation
 - predominant and hyperprotective mother
 - emotional distant and passive father
- Lingering problems in the family

 divorce
 - performance pressure
 - competition with sibling for attention

Anorexia nervosa - course

- 1 or a few episodes with healing
 complete remision 19%
- More episodes during long period of life
 partial remision 60%
- Chronic course with any remision

 persistent illness 21%
- Mortality > 10%

Anorexia nervosa - comorbidities

- Depressive syndrom
 symptom of malnutrition
- Anxiety disorders
- Obsedant compulsive disorder

 intrusive thought of body shape, food
 urge to exercise, vomit

Health complications – general I

Absence of sensations

 hunger, satiety, fatigue
 insensitive about pain

• Oedema

- from hypoproteinemia

Health complications – general II

Deceleration or stopping of growth

 hormonal stimulation after restoration of weight

- Cortical atrophy
 - deteoriation of cognition and emotions
 - infantile behaviour

Dermal complications

- Acrocyanosis
 - cold and violet hands and foots
- Hair loss
- Lanugo hair
 - fine pale hair
 - back, forearm
- Dry skinn
- Fragile nails

Cardiovascular complications

- Bradycardia
 - by 94% of patients
 - 50% under 40 beats per minute
 - to 28 beats per minute
 - decreased response to exercice
- Postural hypotension
- Risk of malignant arrhythmia
 cause of 1/3 death

Gastrointestinal complications

- Hypomotility
 - slow gastric empthying (tension of stomach)
 - constipation and flatulence
 - correction of motility over 2 weeks of regular eating

Salivary gland hypertrophy
from vomitting or persistnat feel of hunger

Hormonal dysregulation

- Amenorhea, infertility
- Secondary hypothyroidism
 - $-\downarrow$ tyroxin (T4) a T3
 - normal level of TSH
- Osteoporosis
 - neuroendocrine inhibition of blastogenesis
 - $-\uparrow$ kortisol
 - 50% on densitometry

Maternity complications

- Perinatal problems
 - higher perinatal mortality
 - more ofen anxiety and depression symtoms
 - relationship problems with newborns

Assisted reproduction

 1/3 client with eating disorder
 don't admit desease

Differential diagnosis of anorexia nervosa

• GIT deseases

- esofagitis, gastritis, gastric ulcer
- inflammatory bowel disease (Crohn's desease, ulcerative colitis)
- celiac desease, food intolerance
- Tumour
- Hyperthyroidism

Treatment of anorexia nervosa

- Ambulatory
 - general practitioner
 - psychological care
 - psychiatric care
 - nutritive consultant
- Hospitalization
 - malnutrition (under 15 BMI)
 - somatic complications (collapse)
 - failure of ambulatory care

Treatment during hospitalization

- Regime therapy
 - food 5-6x a day
 - weekend permit only in a case of weight gain
- Psychotherapy
 - individual, group or family (by children)
- Drug therapy
- Ergotherapy

Anorexia mentalis - drug therapy

- Antidepressants
 - SSRI, mirtazapin, trazodon
 - anxiety and depressive disorders, OCD
- Anxiolytics
 - reduction of fear from wight gain and remorse after eating
- Antipsychotics
 - olanzapin: massive anxiety, excessive exercise
 - sulpirid: stomach ache after eating

Anorexia nervosa - psychotherapy

- Individual
 - admit the severity of illnes
 - attitude to the body and food
 - personality and interpersonal problems
- Group
- Family
 - separation, competition with sibling
- Education
 - patient and relatives

Complications of psychotherapy

- Effort to maintain the disease
 - feeling of uniqueness take self-confidence
 - need of attention (rivarly, divorce)
- Formal cooperation
 - ambivalnce to treatment and change
 - often change their attitude
 - they refer what we anticipate
 - not that they realy mean

Bulimia nervosa - behaviour

- Typically
 - daily starvation with evening episodes of overeating of large amount of food
 - followed by self-induced vomiting

Bulimia nervosa - psychopathology

- Intrusive dread of fatness and weight gain
 leades to a self-imposed low weight threshold
- Strong desire to eat
- Depressive moods and remorse
 after episodes of overeating

Bulimia nervosa - somatic

No significant malnutrition

 even overweight can occur
 weight fluctuations are greater than in anorexia nervosa

Bulimia nervosa ICD-10 criteria

- An intrusive dread of fatness
- Permanently busy of the food
 - strong desire to eat
 - episodes of overeating of large amount food
- Effort to suppress nutritious effect
 - self-induced vomiting
 - daily starvation
 - abuse of laxatives, appetite suppressants or diuretics, excessive exercise

Bulimia nervosa - epidemiology

- Lifetime prevalence
 - for women it is about 1.5-2,5%
 - for men 0.2%
- Just 1/8 s recognise by general practitioner
- Beginning
 - between 16 and 25 years

Bulimia nervosa - personality

- Impulsive
 - behaviour without consideration
 - feeling of lower self-control
 - reduction of uncomfortable feelings
- Inclination
 - depressive disorder, unstable mood
 - drug abuse, promiscuity
 - self-harm behaviour, suicide attempt

Health complications

- Mineral imbalance
 - tetania, epileptoform seizures, arrhythmia
 - complication of
 - excessive vomiting
 - abuse of diuretics or overdrinking
- Due to frequent vomiting
 - tooth erosion
 - esophagitis

Bulimia nervosa - treatment

- Don't search professional help
 often come for depression
 - after suicide attempts
- Psychotherapy
 - better motivation and cooperation than by anorexia nervosa

Bulimia nervosa – drug treatment

- Antidepressants
 - SSRI: fluoxetin 60mg/day
 - heigher dosage than by depressive disorder
- Effect
 - comorbidities
 - depression, anxiety
 - heal itself disease
 - reduce frequency of bulimic episodes

Binge eating disorder - behaviour

- Episodes of overeating of large amount of food
- Absence of compensatory behaviour
 - patients do not vomit
 - do not exercise
 - do not starve
 - due to dissatisfaction with their body, however, they may unsuccessfully diet

Binge eating disorder - psychopathology

Permanently busy of the food
– strong desire to eat

- Feeling of loss of control over food intake

 reduction of uncomfortable feelings
 - maladaptive treating of stressful situations

Binge eating disorder – somatic and comorbidites

• Overweight or even morbid obesity

• Depressive and axiety disorders

Binge eating disorder - treatment

- Psychotherapy
- Lifestyle changes
 - diet
 - exercise
- Bariatric surgical interventions

Eating disorders by diabetes mellitus

- 2x higher risk of eating diorder by DM I
- Manifest by noncompliance in healing of diabetes
 - "diabulimia": reduce of dosage of insulin
 - weight depletion despite enough intake of food
 - inexplicable hypergylkemia
 - polyuria

- binge eating diorder: 10-20x more frequent

Thank you for attention!

