Managing physical risk in anorexia nervosa

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SUMMARY
Eating disorders encompass physical, psychological and social pathologies that increase health risk. Anorexia nervosa has the highest mortality of any psychiatric disorder, but patients are not always managed by specialist eating disorders services and the duty of care sometimes falls to the general psychiatrist. This article is an aide-memoire for assessing and managing physical risk in patients with anorexia nervosa.

DECLARATION OF INTEREST
None.

Eating disorders cause significant psychiatric morbidity and the adverse physical consequences of dieting, weight loss and purging sometimes prove fatal. Mortality rates in patients with eating disorders are high (Arcelus 2011), with anorexia nervosa having a higher standardised mortality ratio (5.86) than that of schizophrenia, bipolar affective disorder and unipolar depression. That study also found that 1 in 5 deaths in anorexia nervosa were the result of suicide. Although many patients with anorexia nervosa are treated exclusively by a specialist eating disorders team, not all patients can be managed by these services. Indeed, in a disorder that can persist for decades, some of the longer-term care may at times need to be provided by the community mental health team and general psychiatrist, who must monitor the patient’s physical and mental health and try to support both patients and their families. This is alarming when one considers that many general psychiatrists report a lack of training in eating disorders and are not always confident in managing these conditions in non-specialist settings (Jones 2012a). Here, we remind the general psychiatrist of how to assess and manage physical risk in patients with anorexia nervosa.

Initial assessment of physical risk
In addition to the standard psychiatric assessment (including risk of suicide), all general psychiatrists should be competent in estimating the level of acute physical risk in patients with anorexia nervosa. The predictors of physical risk have not been fully researched. Therefore the following is only a guide to ‘usual practice’, and should be considered in the context of a full physical examination and applied only to adults. A screening assessment should include at least:

- body mass index (BMI) (weight/height²)
- blood investigations (full blood count, urea and electrolytes, phosphate, glucose, creatine kinase, liver function tests)
- tests for proximal myopathy (stand-up–squat test)
- examination of blood pressure (erect and supine), pulse and core temperature
- an electrocardiogram (ECG) if the BMI is less than 16 or if drugs are prescribed that prolong the QTc interval.

The screening assessment should be completed alongside the Physical Risk in Eating Disorders Index (PREDIX) (Table 1), which categorises patients into moderate- or high-risk groups on the basis of the physical examination and laboratory investigations. Features from the history that indicate a higher level of physical risk include rapid weight loss (>1 kg/week), excessive exercise at low weight, evidence of infection, symptoms of dehydration, haematemesis, pregnancy and comorbid physical conditions. Cardiovascular signs and symptoms are particularly pertinent, as cardiac arrhythmia is an important cause of death. Urgent medical admission should be considered for patients who fall into the high-risk category. Medical admission should also be considered for patients in the moderate-risk group, especially if the level of risk is increasing. However, some patients in the moderate-risk group can often be safely managed in a specialist eating disorders unit (SEDU) or in the community if adequate services are available and accessible. Decisions regarding physical risk should also take into account the patient’s capacity to consent to treatment, motivation to change and availability of local resources.

Risk management and medical monitoring

Medical monitoring
Evaluation of physical risk in anorexia nervosa should be seen as a longitudinal process, with medical monitoring a cornerstone in longer-term
chronic anorexia nervosa may consistently present with one or more moderate-risk indicators without necessarily indicating immediate risk. For example, some patients may tolerate BMIs of 12–14 for many years and may present with a normal biochemistry profile despite their very low weight. In these cases, medical monitoring can be more flexible (e.g. fortnightly) and adjusted according to the patient’s clinical history and overall physical examination.

**Care planning**

Patients may present with a mixture of physical, psychological and social disabilities, and a care plan should be tailored to meet individual needs. With regard to risk management, it should show:

- the health professional(s) responsible for medical monitoring
- the frequency of medical monitoring and details of tests required
- comorbid conditions such as depression and substance misuse
- risk of suicide and self-harm
- the identified SEDU and medical ward if urgent admission is required
- the crisis BMI (e.g. <13.5) and risk indicators (including risk of suicide) that warrant urgent hospital admission and the possible use of compulsory measures.

**MARSIPAN and other useful resources**

The general psychiatrist should be aware of the MARSIPAN report (Royal College of Psychiatrists 2010), which provides comprehensive guidelines on the assessment and management of physical risk and advice for commissioners on required services for patients with severe anorexia nervosa. For further information on anorexia nervosa and other eating disorders, please refer to the National Institute for Health and Clinical Excellence (2004) guidelines and Jones et al (2012b).

**References**


