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Improving nutritional management within high-risk groups

Caroline AM van Wayenburg, Jaap J van Binsbergen, Manon GA van den Berg, Matthias AW Merckx, Wija A van Staveren, Ellen Rasmussen-Conrad and Chris van Weel

ABSTRACT

The current pitfalls and future possibilities of nutritional management are discussed by two patients with tongue cancer who have suffered from substantial weight loss. Their nutritional problems are illustrative of those among other (cancer) patient groups. The main concerns are the lack of early case finding and dietary treatment, and insufficient nutritional information transfer through referral letters. The GP as a central and longitudinal caretaker faces challenges in improving nutritional management.

Keywords

cachexia; chronic disease; family practice; neoplasms; weight loss.

INTRODUCTION

GPs care for many patients at risk for cachexia, in particular those with cancer, chronic obstructive pulmonary disease (COPD), and chronic heart failure.¹ Cachexia is a complex syndrome that combines anorexia, weight loss, and muscle and adipose tissue decline with weakness. Physicians often recognise cachexia only in the later stages and see it as an inevitable consequence of the disease. However, according to literature, cachexia should already be considered in case of unintentional weight loss of more than 5% within 6 months,² especially since there is evidence that intervention can stabilise cachexia and improve quality of life. These interventions concern early individualised nutritional support with or without metabolic interference therapy.^{3,4} Nevertheless, the cancer stage generally forms the major determinant of a low quality of life.⁵ Bio-impedance analysis or blood tests (for example, C-reactive protein and albumin levels) are some (additional) possibilities in diagnosing cachexia.^{1,6}

The aim of this paper is to illustrate the need for early management of cachexia and the barriers to doing so. Two case histories are presented, identified in a longitudinal observational study on weight loss in patients with head and neck cancer (CAM Van Wayenburg *et al*, unpublished data, 2008).⁷

CASE HISTORIES

The first patient was 61 years old when she visited her GP for a check-up of a painful spot on the tongue. The GP reported an ulcerative spot with a palpable lymph node in the neck. His hypothesis was an infection, or possible malignancy. After 1 week of antibiotic treatment, he referred her to the local hospital. Her medical history included irritable bowel syndrome, anxiety, and hypertension. The local specialist sent her to the head and neck oncology centre for specialised treatment. At the first visit to the centre she had a stable weight (60 kg, height 1.58 m [body mass index {BMI} 24.0 kg/m²]) and received curative surgical treatment (tumour stage T1N1M0). She remained in good nutritional health during care at the head and neck

CAM van Wayenburg, MD; JJ van Binsbergen, professor of nutrition and general practice; C van Weel, professor of general practice, Department of Primary Care; MGA van den Berg, Bc; EL Rasmussen-Conrad, Ir, Department of Dietetics; MAW Merckx, professor of head and neck oncology and oral medicine, Department of Oral Maxillofacial Surgery, Radboud University Nijmegen Medical Centre, Nijmegen, Netherlands. WA van Staveren, professor in nutrition and gerontology, Division of Human Nutrition, University of Wageningen, Wageningen, Netherlands.

Address for correspondence

Caroline van Wayenburg, Radboud University Nijmegen Medical Centre, Department of Primary Care, PO Box 9101 Internal postal code HAG 117, Nijmegen, 6500 HB, Netherlands. E-mail: c.vanwayenburg@hag.umcn.nl

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How this fits in

GPs provide care to many patient groups at high-risk for weight loss, such as those with cancer, chronic obstructive pulmonary disease, and chronic heart failure. Regular measurements of their body weight is essential for early intervention that may contribute to patients' quality of life.

oncology centre. In the following year, she suffered from a throat infection for which the GP treated her with antibiotics. According to the study's 3-monthly weight measurements, the patient lost 4.2 kg (6.7%) within 3 months, which the GP's record suggested was due to anorexia and nausea resulting from the infection and antibiotic side-effects, as well as difficulties with her 'new' diet for recently diagnosed coeliac disease. No intervention had been undertaken.

The second patient was 83 years old, suffering from ulcerative colitis, depression, and aortic stenosis. Her symptoms were persistent throat ache, which would radiate to the ear during swallowing. The GP noticed an irritated throat and sent her to the local hospital for further evaluation. His referral letter described odynophagia and he asked them to exclude pathology. The specialist diagnosed tongue cancer and sent her to the head and neck oncology centre. His referral letter documented the physical examination of the head and neck region. At the oncology centre polyclinic visit she had already lost 11 kg of her initial body weight (12%) in 6 months (formerly 89 kg, height 1.72 m [BMI 30.1 kg/m²]). She received treatment through surgery and radiotherapy (tumour stage T2N0M0) and received energy (protein) supplements. Her weight stabilised.

DISCUSSION

Both patients are illustrative of the vulnerable nutritional balance in the chronically ill. The first patient lost weight due to multifactorial causes, triggered by an infection. The infection caused anorexia, resulting in weight loss. A diminished nutritional status, in turn, impaired her immune system, which led to the vicious circle of further weight loss and decline in resistance.⁸ The second patient lost more than 10% of her premorbid weight due to cancer, which is known to be an unfavourable prognostic sign.⁹ Early intervention can only be realised by improving case finding with regular weight measurements. In these cases, nutrition-

related complaints were discussed between the patient, GP, and/or specialist, but no objective measurement of (change in) body weight had been pursued, nor had body weight been reported in referral letters. This points to a lack of proactive orientation towards cachexia, as illustrated in the present study (CAM Van Wayenburg *et al*, unpublished data, 2008).

In order to include the prevention of weight loss in the care for patients at risk, it is essential to promote regular measurements of body weight before significant weight loss occurs, and to report them in case of referral or transfer of care. For cancer, COPD, and chronic heart failure, patients' weight should be monitored regularly from the time of (possible) diagnosis, since early intervention in the case of cachexia may contribute to an enhanced quality of life.^{3,4}

Consent

Both patients gave their consent for publication of the case histories.

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Ethics committee

Not applicable

Competing interests

The authors have stated that there are none

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