Fatigue is a debilitating symptom affecting quality of life and ability to perform daily activities, and is experienced by up to 70% of patients with rheumatological diseases. Many patients do not feel their fatigue is appropriately managed by their medical teams, and no services up until this point enabled patients with chronic fatigue, irrespective of their long-term physical health condition, to access a multidisciplinary team (MDT). The CRESTA Fatigue Clinic was formed in response to this unmet need. It is a novel approach to treating on symptom-based, not disease-based, criteria. It has proved successful and we suggest it is the future of managing fatigue in chronic diseases.

Background

Fatigue, whether as a side effect of a chronic disease or as part of the constellation of symptoms leading to chronic fatigue syndrome (CFS), is increasingly prevalent within the UK. Chronic diseases are set to be the biggest cause of disability by 2020 (WHO 2014), with the frequently associated symptom of fatigue contributing significantly. Studies demonstrate that 25% of primary care consultations are attributable to fatigue, and it is the primary reason for consultation in 6.5% of cases (Cullen and Bury 2002). Rheumatological diseases are no exception, with fatigue being a large component of the patient experience of conditions such as...
as primary Sjögren’s syndrome (pSS), Ehlers-Danlos syndrome (EDS), joint hypermobility syndrome (JHS) and systemic lupus erythematosus (SLE) as well as in the more prevalent conditions of rheumatoid arthritis (RA) and ankylosing spondylitis (AS) (Voermans et al 2010; Dupond 2011). Overall, studies suggest that up to 70% of rheumatic patients have fatigue, and of these, approximately 50% feel it is not appropriately managed by their physician (Dupond 2011). This is further supported by studies which suggest some patients perceive a lack of interest in fatigue by their rheumatologists (Hewlett et al 2005). Fatigue significantly impacts upon quality of life and ability to perform daily activities (Ward 1999; Hackett et al 2012b; Murphy et al 2013; Schmeding and Schneider 2013; Lendrem et al 2014) and occupational therapists are therefore ideally suited to support patients with fatigue management (Hackett et al 2012a; Kos et al 2012). Current guidance for the management of CFS fatigue recommends an individually tailored activity management programme which draws on principles of cognitive behavioural therapy and graded exercise therapy, and includes sleep management and vocational support as appropriate (NICE 2007). Rheumatologist and nurse specialists are aware that rheumatology patients experience fatigue; however, many clinicians rely on the patient to raise the issue. Furthermore, if fatigue is mentioned within a consultation, there can be uncertainty regarding both supportive interventions and who should deliver them (Repping-Wuts et al 2008; Repping-Wuts et al 2009). A recent multi-centred survey has demonstrated that 82% of inflammatory arthritis patients would accept support for pain and fatigue if such a service was available to them (Dures et al 2014). In this paper we describe a new multidisciplinary fatigue service which provides support to people with chronic fatigue associated with a long-term condition.

The development of the CRESTA Fatigue Clinic

As in CFS, fatigue in rheumatological conditions has a negative impact on functional ability and quality of life (Bombardier and Buchwald 1996; Kiani and Petri 2010; Lendrem et al 2014). An audit carried out in the Newcastle UK CFS clinical service found that 40% of those referred were not eligible to access treatment due to the cause of their fatigue being attributable to a co-existing disease, which is an exclusion for multidisciplinary access (Newton et al 2010). While there are many successful CFS services across the NHS, there were no services aimed at those who suffer with fatigue outside of CFS. In addition, there is an increasingly recognised proportion of fatigued patients with dysautonomia (autonomic dysfunction) who could benefit from a specialist multidisciplinary team approach (Louthrenoo et al 1999; Kanjwal et al 2010; Newton et al 2012). A common form of dysautonomia seen is postural tachycardia syndrome (PoTS), which is defined by a 30 beats per minute rise in heart rate upon standing (Renarrho 2012).

Without the support that they need, many patients with severe fatigue experience a reduction in their quality of life (Kiani and Petri 2010; Lendrem et al 2014). These complications create a large burden to general NHS services, which may not be adequately resourced to support patients to manage their fatigue symptoms (Dures et al 2014). Consequently, the Newcastle Clinics for Research & Service in Themed Assessment (CRESTA) Fatigue Clinic was formed. It aimed to fill this gap in service provision and treat on a symptom-based, not diagnosis-based approach, rather like the UK chronic pain services.

The clinic is based on an established Dutch model (Vermoeidheid & Pijn Centrum) and is situated in the Newcastle University Campus for Ageing and Vitality, in a modern and relaxed environment. At the foundation of the clinic in 2013, there was a medical clinician, occupational therapist and health psychologist. This has gradually increased to include a sleep therapist and physiotherapist, along with nursing staff.

A multidisciplinary approach to managing fatigue

The CRESTA Fatigue Clinic represents an innovative approach to managing fatigue in people with rheumatological and other chronic diseases. Our experience highlights that a large range of patients with differing diagnoses and needs are accessing this service. Of these, a large proportion of referrals are patients with rheumatological diseases (36.5%); 8.4% (17/200) of our patients have pSS, 19.5% (39/200) have EDS or JHS, and 8.4% (17/200) are other rheumatological conditions. Our medical clinician, in addition to investigating any changes needed to medication, also has a particular interest in management of dysautonomia. Assessment of the integrity of the autonomic nervous system is performed in all new patients attending the clinic. This assessment is performed using continuous beat-to-beat technology (CN Systems; Taskforce monitor) in order to examine autonomic function at rest and in response to the haemodynamic stress of orthostasis (standing).

Symptoms of autonomic dysfunction include postural dizziness and heart palpitations (Sandroni et al 1999). These are considered when planning therapy interventions. The physician assesses which members of the team each patient would benefit from seeing, according to their presenting needs. The plan for each patient is tailored and is refined at subsequent appointments (Figure 1). This approach enables patients to be treated on an individual basis tailored to the clinical input that they need. We think this is the most effective way to use our resources because of the heterogeneous
is taken to support patients with significant autonomic dysfunction to tolerate being upright for extended periods. As the clinic evolved, an exercise class was started, as it was observed that many of our patients needed similar physiotherapy input and the social aspect to classes also acts to motivate participants. This has been a successful intervention which enables more patients to have regular access to physiotherapy.

Our health psychologist offers individual cognitive behaviour therapy and works collaboratively with patients to understand the range of biopsychosocial factors that may be involved in the onset and maintenance of their fatigue and other physical symptoms, and to develop coping strategies accordingly. Equally important is collaborative working around acknowledging and managing the practical and emotional aspects of the biographical disruption (Bury 1982) that almost always accompanies the experience of chronic physical symptoms.

Patients who experience more daytime fatigue also perceive poorer sleep quality (McDonald et al 2014). The consequences associated with poor sleep can be substantial, resulting in increased fatigue. Patients with conditions such as PoTs, pSS and EDS/JHS all report sleep disturbances (Verbraecken 2001; Theander 2010; Bagai 2011). Our sleep therapist performs cognitive behavioural therapy for insomnia (also known as CBT-I), which aims to re-establish regularity in patients’ sleeping patterns and improve sleep quality, which in turn may improve outcomes in other areas of treatment for their condition (ie, reduced fatigue severity (Thorndike et al 2013)).

Although all the therapists in the team have their own specific areas of expertise, they work closely together and interventions offered by each member of the team do overlap. The interdisciplinary approach which has been adopted by the CRESTA Fatigue Clinic means that therapists are able to offer each other peer supervision. Furthermore, referrals between therapists occur if a certain therapist has the skills required for a particular patient’s needs.

Many patients who come to the CRESTA Fatigue Clinic have had relatively poor experiences elsewhere due to the fact there has been nowhere, until now, for this patient group to easily access a multidisciplinary team for support with their fatigue symptoms. This dissatisfaction has been reported in the literature (Hewlett et al 2005). CRESTA Fatigue Clinic service users have expressed their satisfaction of the service the clinic provides, stating:

“I would like to thank you and your team for the wonderful care I received during my clinic visit. It was refreshing to meet a team so clearly focused on meeting patients’ needs. I have never been anywhere else where the needs of patients with CFS and similar illnesses are met so well. I am very grateful for your kindness, great care and consideration.”

“Thank you more than I can say for your support in understanding and validating my struggle with PoTS, CFS/ME (chronic fatigue syndrome/myalgic encephalomyelitis) etc… I feel I have been given my life back. After struggling so long, beyond endurance, words can’t describe the relief. It has actually brought a kind of ‘shock’, but the wonderful thing is that this is ok; there isn’t a deadline – only a lifeline. When I made that epic journey to come to you and your team I tried hard not to invest ‘too much’ hope, but I couldn’t help it; it was like my last little bit of hope. Oh and it was so worth it. To come into that lovely cheery environment, to not have
Future developments

The clinic continues to develop as we learn from what we have seen. Patients travel from across the UK to access our clinic, indicating at the very least that there is a need for this kind of service that is not being met elsewhere in the country. To more objectively determine the success of the clinic, we have performed a rigorous service evaluation. A concept-mapping study design was used (paper currently under review) which showed the areas that patients thought were important, such as “taking my fatigue seriously” and “face-to-face contact”, were being met successfully at the clinic. While this unique clinic is still in its infancy, it is clear to see it is successfully meeting patients’ expectations.

We continue to strive to improve our service and we have input from a group of expert patient ‘health champions’, with a funded project (Altogether Better 2015), which ensures patients’ views remain at the centre of what we do. We are also creating interdisciplinary CRESTA notes in a booklet to keep all of our interventions in one area of patient notes to ensure continuity of care.

Future service developments are targeted on areas identified in the service evaluation. With fatigue becoming an ever-increasing health burden due to the ageing population (Enkvist et al 2012; Egerton 2013), we need to think about how to meet this demand nationally. In the North East, with the evolution of the CRESTA Fatigue Clinic, we have begun the journey to achieve this. A more immediate way of offering support to patients with fatigue related to a rheumatological or other long-term condition could be by improving access to appropriately trained therapists through improving referral pathways, staffing levels and access to appropriate training and supervision.

It has long been recognised that pain is a symptom that needs specialist and multidisciplinary management, irrespective of its cause. We believe it is now time to approach fatigue in the same manner. In the CRESTA Fatigue Clinic we have established a model for the trans-diagnostic multidisciplinary assessment and management of fatigue. We believe that this could be replicated across the country to provide the kind of help for fatigue that is currently available to pain patients within NHS pain clinics.

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References


Bombardier CH and Buchwald D (1996) ‘Chronic Fatigue, Chronic Fatigue Syndrome, and Fibromyalgia: Disability and Health-Care Use’. Medical Care, 34(9), 924-930.


Vermoeidheid & Pijn Centrum. Available at: https://www.vermoeidheidcentrum.nl/over-ons (Accessed on 31/03/2015).

