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Experiences of attendance at a Neuromuscular Centre: Perceptions of adults with neuromuscular disorders

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Experiences of attendance at a Neuromuscular Centre: Perceptions of adults with neuromuscular disorders.

Abstract

Purpose

The aim of this research is to gain an insight into adults with neuromuscular disorders’ experiences of attendance at a specialised, voluntary sector, Neuromuscular Centre and explore its value to these adults who attend for treatment, education or employment.

Method

This study was qualitative in design. In-depth interviews were conducted with 9 self-selected participants, recruited from the population of adults with neuromuscular disorders who attended the Neuromuscular Centre. Interviews were transcribed verbatim and thematically analysed. Thematic networks were utilised to aid interpretation.

Results

Participants saw the benefit of specialist input to remain mobile and independent for longer. The Centre created a culture of understanding and empathy which facilitated mutual support and self-acceptance. Opportunities for employment and education offered a sense of purpose. Sharing experiences developed self-knowledge and the ability to self-manage their condition.

Conclusion

Attendance at this voluntary sector Neuromuscular Centre provided physical, psychosocial and economic benefits. The Neuromuscular Centre through its holistic approach offers a unique model for rehabilitation of adults with neuromuscular disorders. As an enterprise, satellite centres adopting the ethos of the Centre could be created, which could potentially help to redress the inequalities in health care for adults with neuromuscular disorders.

Key words

Neuromuscular disease, long term conditions, rehabilitation, disability
Introduction

Muscular dystrophy and other genetically transmitted neuromuscular disorders (NMD) form a group of conditions which are characterised by progressive wasting and weakness of the muscles [1-5]. There are more than 30 different types of muscular dystrophy (MD), with over 70,000 people in Western Europe and 40,000 in the USA severely affected by the condition [5]. In the UK there are between 13,485 and 22,750 adults with NMD with severe symptoms [6], with a reported prevalence of 37.0/100,000 with inherited muscle disease in Northern England [7]. It has been suggested, however, that there are around 60,000 people in the UK living with some form of the neuromuscular condition [8]. Although improvements in medical management have led to people with advanced NMD living well into adulthood, there is still no cure and some will continue to have long term disability and reduced life quality [9-11].

Given the challenges faced by people with NMD, it would seem reasonable for these individuals to expect a health and social care service, which supports their needs, to be readily available. However it appears that this expectation is often not realised. In the UK, inconsistency and insufficiency of service provision has been identified for adults with NMD [6, 8]. It seems that a deficiency in specialist care has resulted in individuals in a number of regions travelling to other areas to access clinics, or receiving no provision at all. In some cases, a shortage of specialist therapists has led to NMD clinics providing no access to physiotherapists with expertise in the condition, or any ongoing treatment [6, 8]. Concerns such as lack of support for adults with NMD to assist them to engage in work or access further and higher education have also been recognised [8].
As a result of these findings, the need for a co-ordinated strategy to address the issue of service provision for ‘complex and rare diseases’ has been highlighted [6] with recommendations for the development of guidelines, to improve standards of health care for individuals with NMD [8].

The pre 2010 UK government’s stated priority was to enhance standards of care for people with chronic disabilities. Through their National Service Framework (NSF) for long term diseases [12], the previous government declared its commitment to renovating health and social care services, with the aim of improving the quality of life for people with chronic conditions. The main components of this policy included prompt access to specialist healthcare, a workforce which can provide the necessary expertise and skills, vocational rehabilitation and educational opportunities [12]. Although as a result of the recent elections a new government is now in post, at the time of writing, no changes to this policy have been announced.

In order to ensure quality provision of service for people with NMD it would therefore seem essential to offer specialist health interventions that are known to be most beneficial for these individuals. However there is a paucity of research regarding rehabilitation of adults with neuromuscular disorders, leading to a lack of knowledge of how service provision can be optimised for this client group [6]. Most studies undertaken have been quantitative in nature, concerning exercise therapy, with inconclusive evidence as to the most favourable regime [13]. Multi-specialist intervention has been promoted but there is no agreement as to the best approach [8,14,15] or the most appropriate duration of allied health intervention [16,17]. A study evaluating the impact of multidisciplinary rehabilitation for adults with muscular dystrophy found no statistically significant improvement in activities of daily living as
compared to a control group. However it was suggested that aspects of the care could provide some psychological support, although the perceived benefits of these to the recipients were not explored. It was concluded that rehabilitation programmes for such clients needed to be instigated and investigated to provide more evidence as to the most favourable interventions [15]. Identifying an ideal model of service provision for adults with NMD therefore seems to be the main challenge faced by health care providers.

In this paper we will present the NeuroMuscular Centre (NMC), a voluntary sector rehabilitation unit for adults with NMD, as an example of how services could be provided for people with NMD. The NMC, a registered charity, offers a holistic approach to care for clients from the North West of England and Wales by providing a combination of services to its 360 registered users. Provision at the NMC includes specialised physiotherapy, hydrotherapy, emotional support and information and practical advice concerning NMD. Training on nationally accredited courses in Graphic Design and Information Technology (IT) is also offered. In addition, there is the opportunity to gain employment in their graphic design and print company, or as administrators or fundraisers [18].

A person-centred approach has been identified as a key factor in the provision of rehabilitation [12, 19]. One aspect of the person-centred approach to care is that it “strives to incorporate clients’ perspectives into the provision of services” [19, p.89]. It would therefore seem important to consider the NMC from the viewpoint of the people who use their services, in order to gain an understanding of their needs and how they can be supported to meet them. In addition there is a dearth of literature on adults with NMD and their experiences of rehabilitation. The aim of this study was
therefore to gain an insight into adults with NMD’s perceptions of the NMC and what they attained from attending for treatment, education or employment. The intention was to develop an understanding of their experiences of the holistic service delivery model offered by the NMC, and of their life with NMD.

Method

The research was qualitative in design and exploratory in nature, undertaken to explore the particular phenomenon of adults with NMD who attended the NMC [20]. Posters inviting participation in the research were placed around the NMC. This led to a self-selected purposive sample of nine participants being recruited from the population of adults with NMD who attended the NMC for treatment, education or employment. The sample which consisted of six males and three females, were aged between 18 and 78 and had varying degrees of severity. Conditions included were myotonic dystrophy, facioscapulohumeral MD (FSH) and Duchenne MD (one participant from each condition) and Becker MD, spinal muscular atrophy (SMA) and Charcot-Marie-Tooth disease (two participants from each condition). Of the participants recruited eight were accessing physiotherapy treatment at the NMC; four participants were also employees and two were attending courses in graphic design and IT.

Full informed consent was gained from all participants prior to commencement of the study. Semi-structured interviews in the form of a discussion took place, allowing the participant freedom to lead and develop the conversation.

The following topic guide was used to facilitate discussion, follow-up questions depended on individual responses to the topics given:
Why do you come to the NMC?

What is most important to you about attending the NMC?

Take me through a typical day of attendance at the NMC

Further questions were asked to gain demographic and background information:

When and how were you referred to the NMC?

What services do you access and how often?

Tell me about your condition and how it affects you?

It was hoped that exploration by the interviewer of the participant’s insights could then evolve, based on the response of the individual [21]. The interviews took place at the NMC, thus ensuring an environment that was familiar to the participants.

Interviews ranged in length from 45 minutes to one hour and 15 minutes, were digitally recorded and transcribed verbatim. Transcribed interviews were then imported into the NVivo7 software [22] for qualitative data analysis. Although coding and analysis of the data remains the remit of the researcher, NVivo’s usefulness is that it provides a platform to store and manage data in an orderly fashion. Tools available within the package allow reports and summaries of the analysis to be made available (23).

Ethical approval was granted by the Manchester Metropolitan University, Faculty of Health, Psychology and Social Care Academic Ethics Committee. As the NMC is a voluntary sector organisation and participants were not included in the study because they were NHS users, NHS ethical approval was not required.
Data analysis

Data analysis was inductive in nature as no hypothesis was being tested and the endeavour was to generate the findings purely from the data. The approach adopted involved thematic analysis leading to thematic networks [24]. The first stage of the procedure involves coding of the transcripts. In this present study transcriptions were read and re-read, including notes written about each dialogue, in order to familiarise the researcher with the data. The text was then subject to ‘open coding’ as described by Strauss and Corbin [25], where the data was coded based on salient issues identified from the text. This helped to divide the data into more manageable sections. The next stage, described by Attride-Stirling [24], is the identification of themes from the codes. In the present study, codes were first grouped together into themes based on recurring premises across the interviews. The Basic Themes are the lowest order ideas that provide a simple description of individual text but give little meaning to the text as a whole. It is only when these basic themes are arranged together under a common heading that summarises their main assumptions, that more insight into the text is given. These are known as the Organising Themes. A Global Theme is then derived by the collection together of related organising themes. It is the global theme that captures the essence of what the data is saying [24] (see table 1)

Table 1

Table 1 to be inserted here
The themes were then organised into an interlinking network to assist with analysis and interpretation of data. It is through defining the themes and their interrelationships that a summary of the main findings is provided [24].

Analysis is a dynamic process requiring the researcher to move back and forth from the networks to the original data. It is through the exploration of each network and its corresponding text that sense is made of the data and in-depth interpretation takes place [24].

Memos and reflections of the researcher’s thoughts were made throughout the process to aid understanding and give meaning to the data. To improve credibility of the research, two independent researchers were involved in the analysis and theme discovery. This allowed the coding process to be cross checked to insure the researcher had been true to the data. Themes identified were returned for participant validation to verify that the insights captured were authentic in the eyes of the interviewees.

**Results**

Two thematic networks evolved from the data with the global themes of: disparity in service provision and physical and emotional well-being. Findings and discussion of the thematic networks have been presented under the heading of the global and their related organising themes. Direct quotes from participants have been included with pseudonyms given to participants to ensure anonymity.
Thematic Network 1 Global theme: Disparity in service provision

Organising themes: Lack of specialist services/Limited knowledge of the condition

Only two of the participants had gained access to specialist services including physiotherapy on a regular basis. They had been diagnosed in their early childhood and were attending special schools, where they continued to receive this provision until leaving at the age of 16. All the other participants presented a different picture. They perceived that they were given limited knowledge about their situation and had a lack of awareness of the availability of specialist input to help them to manage their condition. Before attending the NMC these participants had had no access to physiotherapists who specialised in NMD, leading many to believe that they could only access physiotherapy for ‘injury specific’ but not ‘condition specific’ treatment.

Participants, who perceived that they had been given little or wrong information about their situation, appeared to be left with a naivety about their condition. Philip who has FSH said of his doctor:

‘My GP assumed I had Becker because I was still alive. He thought he’d heard of Duchenne and Becker’

Ralph had 3 years of investigations before he was diagnosed with SMA. Although he had finally been given a ‘label’ for his condition he felt that the specialist had provided him with no comfort about the future when he remarked that:

… ‘there was not the slightest hope and nothing can be done’.
It was 20 years later when he was referred to the NMC that Ralph was first given the opportunity to gain specialist provision for his condition. Access to the services at the NMC appeared to offer him ‘encouragement’ and ‘hope’ for the future that there was something available to help him manage his situation. He highlighted this when discussing his initial feelings at accessing the NMC:

‘… I was quite surprised for the first time in my life there was something positive that could be done…’

Organising theme: Expert knowledge and skills

It is therefore not surprising that one of the main benefits of attending the NMC, perceived by participants, was access to specialists who had expert knowledge and skills of their condition. What most participants saw as particularly advantageous was that the staff recognised their circumstances and was able to tailor their input to their individual needs. Peter said of the staff:

‘… they do understand and as I say they know what level you can go to even as a new person if a new person came up here they’ve got a good idea of what they’re going through before they’ve even actually met them and I think that’s where the specialist knowledge comes in.’

However what seemed most important to the participants was their physical status. In particularly they wanted to stay mobile and independent for longer. They therefore identified the provision of ongoing physiotherapy whenever their condition required it, as a significant benefit to accessing the NMC. It would seem that participants saw regular treatment as necessary to help to delay their physical deterioration.
As Rhianon commented:

‘... thank God I can go to the Centre every week, because you’d just think what
would happen really, you’d go down hill pretty quick .... The thing is with MD you only
have to stop doing something for a short while, then you find you can’t do it because
you’re not using the muscles in the right way.’

That the participants perceived the staff at the NMC as experts who understood their
condition, appeared to give them more self-assurance that their condition could be
managed effectively. It was clear that they felt confident that the physiotherapists
knew exactly how much input they needed and what intervention was appropriate.
Receiving specialist rehabilitation in this way to improve or delay the decline in
physical capabilities seemed to help with psychological wellbeing. This was apparent
when a number of participants painted a depressing view of how they saw their future
if they hadn’t accessed the NMC. As Ralph claimed:

‘I would be an old man in a wheelchair, sitting at home; well happy enough in an old
man’s way but you know bleak, bleak kind of life really’

Thematic Network 2 Global theme: Physical and emotional wellbeing.

Organising theme: Association with others

Socialising was identified by most of the participants as an important aspect of
attending the NMC. It seemed that the NMC provided a ‘day out’ and an opportunity
to meet and ‘banter’ with others and develop a ‘wider social circle’

Nathan, who suffered from periods of depression since he was diagnosed with his
condition, found that attending the Centre enticed him out of the house because it
gave him the chance to do something different and associate with other people. As he said about coming to the NMC:

‘It’s the whole thing of coming out, it gives you a reason to have a wash and a shave and put something on; put some nice clothes on, to come out.’

However what seemed to be of particular benefit for some of the participants was the opportunity to get together and converse with people who they felt they could identify with. As David remarked about socialising at the NMC:

‘it helps in a way … you know that you’ve all got the same sort of troubles … You understand each other more, where someone who walks don’t understand how hard it is sometimes being in a wheelchair…’

Sharing a common experience appeared to help to break down the barriers which one is often faced with when first getting to know someone. Identifying with another seemed to provide a familiarity, a depth to the understanding of the other person as they recognised similarities in their circumstances. This appeared to create a sense of connection and belonging. This was described by Ralph as he said:

‘… outside there is a kind of a façade, … when you meet a person you are not meeting the person, you are meeting a façade that they have put up, a mask before themselves. But here you start from moment one where the mask isn’t there because nobody here can put a mask on. … it’s so obvious and blatant that we are all in the same neurological difficulty … it’s like here you join this club of like people’

It seems that interacting with people who had experienced similar circumstances benefited the participants as it provided the opportunity for individuals to help and
assist each other emotionally, particularly in times of need. Philip highlighted this when he said:

‘… I know that I have the support here to advise along the way and there are lots of people who’ve gone through it already who can help, you know that’s a big thing here, mutual support from people with MD and you know that everyone, whatever you are going to go through, someone coming here has had that experience.’

It was clear that through the ability to socialise and share recounts of their experiences, the participants seemed to become more aware of restrictions with their condition and possible ways of addressing them. Seeing other attendees with limitations that they had not yet experienced appeared to be a particular benefit as this was identified as an opportunity to plan for difficulties that they may encounter in the future. As Peter claimed:

‘you can see what other problems other people have and you can say well I’ve been through that and I’ve got such and such a thing, now this helps me out.’

One finding was the apparent difficulty in accepting the change in circumstance that the condition bestowed on the participants. However it seemed that by sharing information with others about themselves, participants felt supported to learn more about their situation. Some participants identified that this helped them to be more accepting of their condition. What became clear was that over a period of time being part of this social network seemed to give the participants the potential to become very knowledgeable about their circumstance. As Martin said:

‘It helps me understand my condition and its often been said that people with dystrophy they often become the experts but to become an expert you need to have
advice and input from other experts as well. So I think it helps me to come to terms
with it and then maybe I can share it …’

Organising Theme: Sharing a commonality

It seemed that disablement conferred on the individual the feelings of difference and
uniqueness. When isolated from other people with the same condition this distinction
appeared to be seen in a negative light. As Ralph commented:

‘I was aware that unfortunately I’m a chap with a green face when green faces are
not common and green faces are unfortunately not a good thing to have.’

It was only on accessing the NMC that it seemed apparent to Ralph that there were
other people with the same condition, as he said when attending the NMC:

‘I saw a lot of people with green faces.’

Having no knowledge of individuals in similar circumstances seemed to be the
situation for a number of participants which appeared to lead to feelings of
estrangement and isolation. However it is clear that some of the participants didn’t
want to feel a disparity with others and this often led to concealment of their
impairment and at times denial of their condition. As Zoe claimed:

‘… when I’m not here I have to try and be like everybody else … outside I’m
constantly trying my hardest not to limp because I just know that people are gonna
look at me really strangely and say ooh, look at her walking down the street.’

However at the NMC it was apparent that Zoe did not feel this need to hide her
impairment as she said of attending the NMC:

‘when I’m here I can walk around and I’m limping and no one looks at you twice.’
Attending the NMC and experiencing a commonality with other people, therefore appeared to challenge this perception of self. At the NMC since participants were viewed to be no different from others and were accepted for who they were, it appeared to give them the confidence to show the true reflection of self.

As Shonia said of the NMC:

‘they treat you as a normal person… I’m not regarded as a person with a disability.…… I’m not judged in anyway here either. It’s like I said a comfortable environment.’

Organising theme: Being part of something

Participants identified opportunities for employment at the NMC and attendance on training courses as one of its benefits. The NMC provides employment and education, for attendees who may otherwise not have similar chances. These opportunities seemed to provide participants with a goal to pursue, giving them purpose to their lives. Philip who had taken up employment at the NMC highlighted this when he claimed:

‘I have a lot of responsibility here and knowledge of the Centre so I think it really helps me buy into the whole Centre and what we are actually doing and why we’re doing it. I think that certainly gives me a sense of self-purpose and it’s rewarding.’

Zoe who was trained in graphic design had failed to gain employment in this field because health restrictions meant she could only work part-time. Employment at the NMC with the flexible working hours gave her the opportunity to have the career that she had sought. Having this chance to take on meaningful work seemed to provide motivation and encouragement to Zoe. This was apparent when she stated:
‘just coming here has just made my dream come true really, it really has and I can now achieve what I want to achieve, work part time and get everything out of it that I wanted to.’

Attending courses in NMC’s training suite gave participants the opportunity to develop skills and gain qualifications to improve their chances for future employment. Giving participants a new prospect appeared to confer on them a different perspective of how they saw themselves. Not just a person with a condition or impairment but someone with another function in life with something more to offer.

When discussing his attendance at the training suite David said:

‘it’s made me feel like part of something, so it’s changed me as a person in that way and I know that I’m good at what I’m doing .. and it’s made me more confident about being in a wheelchair cos sometimes I used to get sick of it, but now I know there’s ways for me to do well and get a good job and stuff like that so it’s changed my outlook on life..’

Providing attendees the platform to attain a new status also seemed to help to develop self confidence and raise expectations of what could be achieved Rhianon who previously had no self-belief that she could be capable of gaining paid employment, became more self-assured after working at the NMC. She found that the encouragement that she gained at the NMC and the skills that she had developed there provided her with a springboard to attaining employment outside the NMC. She has now been working for the same private employer for the last 8 years.
Discussion

Participants’ prior experiences support previous findings which highlight a deficiency of specialist services for adults with NMD [6,10,11]. Although children with long term conditions may be adequately provided for, often no comparable service is available for adults [26, 27]. This is particularly disturbing as six of the nine participants in this study were diagnosed during their teenage years or adulthood. The time of diagnosis, when the individual has to come to terms with their condition as they progress from health to ill health, is often distressing [28]. The teenage years are a particularly disturbing period as illness coincides with the normal physical and emotional changes which occur during adolescence [29]. Hence at a time when support is most needed, provision appears lacking. It would therefore seem that proposals in the UK for quality improvements, including timely access to specialist services for people with long term conditions [12, 30], are particularly relevant at this time. It is vital that these recommendations are therefore continued to be implemented. Providing inadequate or no access to specialist resources could lead to people with muscular dystrophy missing out on essential care that could be beneficial to their long term management [10]. Placing barriers in this way can lead to greater disablement [31].

Hope is the motivation that provides one with the determination to continue to strive and the courage to deal with adverse situations [32, 33]. Renz et al [34, p.148], assert ‘there is a right to hope’ as hope is the life force that keeps one going. Therefore it seems that to diminish the possibility of hope by offering no solace that anything can be done, could not only weaken one’s resolve to manage one’s own circumstance, but deny one the right to a life worth living. This seems particularly
pertinent as hopelessness and helplessness at diagnoses was found to be common psychological problems in adults with MD [4]. The NMC by providing appropriate and supportive specialist care to help manage the condition could offer hope by creating some realistic optimism about the future, thus fostering the resolve to cope with the situation [31, 32].

As a progressive disease, MD leads to a continual loss of ability [28]. Uppal [35] found that the more one was physically restricted the greater the reduction in happiness levels. Although these findings have been challenged [36], it may be possible that if the decline in body function is slow, emotional changes could be overcome, as the individual has time to adapt to the new situation [37]. Therefore physical rehabilitation, by helping to delay disease progression, could potentially enhance emotional wellbeing. What has been claimed by adults with physical disabilities is that engaging in physical activities provides them with psychological as well as physical health benefits [38]. As NMD presents in a number of different ways leading to a diversity of needs for the individual [4], it would therefore seem logical to suggest that the specialist skills and expertise offered at the NMC are essential to provide the management for this complex condition [8,10]. However due to the lack of consensus as to an appropriate exercise regime for people with NMD [13], further research is required to identify the optimum physical intervention for this client group.

We are defined by our relationships both with ourselves and with others. We construct an identity based on how we view ourselves, which is influenced by how people respond to us [39, 40]. Our character could therefore be said to be mutable, shaped by our experiences [41]. If people are stared at because of their physical restrictions it could confirm to them that they are different, deficient in some way, as if
they don’t live up to society’s expectations of how they should be. This could present a negative self perception, leading to vulnerability and low self-esteem [40]. Concealment of their physical limitations could then be a way of trying to ‘fit in’ in an attempt to facilitate a more positive reaction from others, or a way of denial of one’s condition in an attempt to feel more accepted. Although denial can improve coping in the short-term by creating hope, long term it can preclude the individual from observing their true self [32,40], hence limiting the potential for self-realisation.

At the NMC attendees can observe others with similar limitations. Therefore as physical restrictions are the commonality amongst people with NMD, participants were not viewed as being different in any way. As a result of this acceptance of their condition it appeared that the participants no longer felt the need to change their behaviour. As attendees see similarities with others it could offset the feelings of estrangement [40], which could help them view themselves in a more positive light, thus limiting the need for self-pretence or denial. Delmar [32] claim that it is only through self-acknowledgement and understanding that one can identify one’s condition and learn to live with it. The NMC, by creating an environment where one feels comfortable to present one’s true essence could therefore provide the only opportunity where the individual experiences full acceptance for who they are. It is this confirmation and regard from another that can facilitate self- humanity and recognition [42, 43].

Evidence suggests that social interaction improves wellbeing [44-46]. As it has been found that restrictions caused by MD could limit the possibilities for social engagement [28], coming to the NMC may offer the only opportunity to venture out and meet others. Although what seems important to positive health is that the
relationships formed are encouraging and worthwhile [47, 48]. The ability to identify
commonalities with others at the NMC appeared to cultivate these meaningful
associations by fostering mutual compassion and understanding. Sharing accounts
of their fears and aspirations for the future could provide the psychological support to
help individuals to deal with their circumstance, therefore improving wellbeing [33]. It
would seem reasonable to suggest that support from people who are more able to
comprehend one’s situation and hence potentially more empathetic [49], could
provide an even greater benefit.

Each Individual attending the NMC brings with them a wealth of knowledge gained
from their varied experiences [48]. Through engagement with one another,
information is shared about their condition and situations that they have encountered.
It is through these interactions that attendees can collectively facilitate self-
understanding which over time can develop expertise about their condition. The
training of individuals to become Expert Patients has been a Department of Health
initiative to support people with long term conditions [12, 50]. The NMC, as a learning
community, provides the environment for individuals to become their own expert
patients, thus fulfilling these expectations.

It has been estimated that there are between 50% and 70% of people with disabilities
of working age unemployed in developed countries, and 80% to 90% of people with
disabilities of working age unemployed in developing countries [51]. It therefore
seems significant that the participants identified opportunities for employment at the
NMC and attendance on training courses as one of its benefits. The offer of work and
education provides the potential to improve the engagement of people with long term
conditions in employment [12, 52]. Increasing the level of education of individuals has
been found to reduce the level of unemployment [53]. Therefore providing courses to improve skills could help to increase individuals’ employability as they become more attractive prospects to employers. Improving employment opportunities could also provide economic benefits for the individual, through the procurement of a wage and for society, by reducing benefits [54, 55].

Frankl [56, p133] claimed that “creating a work or doing a deed” could provide life’s purpose, a reason for living, leading to emotional benefits. However what seems important to wellbeing is not the provision of work in itself, but that the endeavour undertaken is meaningful [44, 57]. The NMC by providing courses to improve individuals’ skills and attain qualifications could potentially enhance their ability to gain more meaningful work. It could also be said that employment at the NMC in their graphic design and print company, or as administrators or fundraisers, provides opportunities for individuals to participate in a more significant way, thus promoting positive health.

Limitations

Some limitations are acknowledged in this study. Due to the uniqueness of personal experiences and the involvement of only one centre, transferability of the findings to other contexts or settings can not be assumed. However it is likely that situations highlighted by the participants would resonate with individuals in similar circumstances [20].

A self-selected sample can be said to recruit more subjects who have something in particular to say about the Centre. It is therefore possible that the more passive individuals may not be represented. In this study four of the nine volunteers also
worked for the print and design company or as fundraisers. It could therefore be said that their experiences could be perceived to be different to clients who are service users only. However these participants accessed a full range of provisions at the NMC and therefore had a number of valuable experiences to share about their attendance at the NMC.

The sample included a varied cross-section of subjects and by the ninth participant, repetition of information suggested saturation of themes, in that further analysis would be unlikely to identify any new codes [58].

Conclusion

It is apparent from these findings that there is still a lack of availability of specialist treatment leading to a disparity of access for people with NMD. Polices to improve health and social care for people with long term conditions may promote attempts to address this in the UK. It is therefore hoped that this undertaking remains a commitment for the New Government. However it is clear that the issue of service provision for all adults with NMD will remain problematic until evidence as to what constitutes optimal care for this client group is sought and guidelines developed.

The NMC offers one example of how services could be provided for adults with NMD. Findings from this study suggest that the holistic approach at the NMC provide physical, psychosocial and economic benefits for adults with NMD. Although a number of positive experiences were highlighted by participants, what seemed particularly important was the ability to access a number of specialised services at one site and engage with people who had personal experience of NMD.
The multidisciplinary approach at the NMC, through the combination of healthcare, support, education and employment, offers a unique model for rehabilitation. As an enterprise, satellite centres adopting the ethos of the NMC could be created supported by charitable funding and procuring contracts with NHS primary care trusts. This would offer the potential to help to redress some of the inequalities and inadequacies in health care for adults with NMD and improve their general well-being.

Although this study has shown some promising results, more research with a wider range of participants needs to be undertaken to explore further the role of the NMC and the holistic model of service provision. Specific areas for future research identified by this study are:

1. Investigations into the most appropriate physical intervention for this client group including type and intensity of exercise regime.

2. Further exploration of the psychosocial needs of adults with NMD and how the NMC could meet these needs, including how to cultivate an environment that promotes mutually support and encourages the sharing of knowledge about the condition.

3. Ascertaining the feasibility of developing initiatives to facilitate return to work and the gaining of meaningful employment for people with NMD including setting up an advisory service at the NMC, job centre collaboration, college links and work placements.

Although this research has been carried out in the UK there are implications for all health care professionals involved in the provision of services for adults with NMD.
Professionals need to be aware of the importance of providing a holistic approach to care for adults with NMD to improve not only the physical health but also the psychosocial wellbeing of this client group. A greater understanding of the experiences and requirements of adults with NMD and what optimum care represents to them is needed. It is only through these insights that an ideal model for service provision can truly be developed.

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Declaration of interest

The authors report no conflicts of interest. The authors alone are responsible for the content and writing of the paper.
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Identified themes from the experiences of adults with NMD attending a neuromuscular centre

**BASIC THEMES**

- Limited awareness of services available
- Few specialists in the condition
- Misinformed
- No hope
- Independent for longer
- Client centred
- Self-empowerment
- Supportive environment
- Understanding of situation
- Equality challenges difference
- Socialisation
- Sense of belonging
- Learning through shared experiences
- Purpose
- Giving back by helping others

**ORGANISING THEME**

- Lack of specialist services
- Limited knowledge of the condition
- Expert knowledge and skills
- Sharing a commonality
- Association with others
- Being part of something

**GLOBAL THEMES**

- Disparity in service provision
- Physical and emotional wellbeing

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