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### Accepted Manuscript

Title: Collaborative goal setting with adults attending physiotherapy at a specialist neuromuscular centre: Is it always appropriate? A cross-sectional survey



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1	Collaborative goal setting with adults attending physiotherapy at
2	a specialist neuromuscular centre: is it always appropriate? A
3	cross-sectional survey
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#### 26 Abstract

Objectives Collaborative goal setting is an integral component of treatment planning for adults with neuromuscular disorders (NMD). However, due to the unique challenges for these individuals, identifying a process for goal setting that is advantageous for all can be problematic. This study aimed to evaluate collaborative goal setting at a specialist NMD centre, as reported by service users attending physiotherapy. It also aimed to generate discussion about collaborative goal setting and the practice of goal setting in adults with NMD in order to inform future practice.

34 **Setting** Specialist NMD community-based centre in the UK.

35 **Participants** One hundred and four adults with NMD who attended the centre.

36 Design Cross-sectional survey. Thematic and content analyses of goals set were performed
 alongside demographic data collection.

**Results** One hundred and four patients (34 females) with a range of neuromuscular conditions – including Becker, facioscapularhumeral, limb girdle, Duchenne and myotonic muscular dystrophies – completed the survey. Thirty-six respondents (37%) stated that they had set goals with the physiotherapist, whilst 62 (63%) stated that they had not set goals with the physiotherapist. Respondents' goals were grouped into four themes: symptom management, maintenance, improving physical condition, and learning to live with the condition.

45 Conclusions Readiness to take part in collaborative goal setting is unique to each individual.
46 Physiotherapists need to be skilful in supporting adults with NMD through the goal-setting
47 process until they are capable of sharing responsibility. Setting personal goals to improve
48 emotional well-being may help to develop confidence to take more control of their situation,
49 hence facilitating skills in self-management.

50

51 *Keywords:* Neuromuscular disorders; Goal setting; Self-management; Long-term conditions

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#### <A>Introduction

Muscular dystrophy and its related neuromuscular disorders (NMD) are a frequently hereditary and diverse group of conditions that lead to abnormal muscle pathology with resultant muscle weakness and functional loss [1–5]. Although there is still no consensus on optimal physiotherapy for these disorders, and specific guidelines for their management are lacking, collaborative goal setting is considered to be an integral component of the rehabilitation process [6–9]. Collaborating, by working in partnership with patients to reach a consensus when setting goals, is also a requirement to meet professional standards for physiotherapy [10,11].

There are many benefits to collaborative goal setting, including encouraging active participation of the patient in their management, providing shared outcomes for clinicians and patients to work towards, and facilitating patients to become more self-determining [12–17]. However, there are inconsistencies in its use amongst clinicians, and there is no defined approach for collaboration [6,18–21]. Patients also need to want, and be able, to participate in the process [8,22,23].

Following a structured format when setting goals has been found to be more likely to engage patients and be more patient centred [14,24]. However, there is inconclusive evidence that structuring goal setting is more effective in achieving outcomes [9,24,25]. This suggests that the process alone cannot be credited for successful goal attainment. Indeed, the promotion of focused goals that are meaningful to the patient recognises the importance of the type of goals set [10,17]. If patients perceive that goals are relevant to them and have a worthwhile outcome, they are more likely to want to undertake and achieve these goals [13,25]. Consequently, in order to ensure that goals are significant to the patient, a partnership where patients are supported to take an active role in shaping these goals is likely to be essential [17,21]. However, collaborating in this way has been found to be problematic

with differences between clinicians' and patients' expectations of roles and what can be achieved, and differing views on which goals are important or achievable [6,12,20,21,23]. This is even more complex for individuals with NMD as access to regular, specialist physiotherapy is often limited [26,27]. This means that the opportunity for adults with NMD to be guided through the goal-setting process, including identifying and monitoring appropriate goals, is likely to be inconsistent at best.

The catalyst for this article arose when data from a previous study, on the use of physiotherapy at a neuromuscular centre (NMC), found that many clients reported that they had not set goals with their physiotherapist [28]. When the authors collected the data, collaborative goal setting was usual physiotherapy practice at the NMC, but there was no set procedure amongst the physiotherapists for undertaking this process [29]. This study aimed to evaluate goal setting at the NMC, as viewed by service users who attend for physiotherapy. The intention was to gain insight into what may influence clients' reporting of goal setting, the type of goals set and how these are articulated by clients. A secondary aim of this study was to generate discussion around collaborative goal setting, and to consider the practice of goal setting in adults with NMD, in order to inform future practice.

#### <A>Methods

#### *<B>Participants*

One hundred and thirty-three clients who attended for physiotherapy at the NMC between July and September 2010 were invited to participate.

#### <B>Design

A prospective, cross-sectional survey of adult users of the NMC physiotherapy service was employed for this study.

#### *<B>Questionnaire*

Questions analysed for this study were part of a 13-item questionnaire that was developed to evaluate physiotherapy provision at the NMC. Two questions that asked if participants had set goals with their physiotherapist and if they were satisfied with the physiotherapy provision were used in order to gain some insight into goal setting at the NMC, and if this influenced patient satisfaction with the physiotherapy received. Participants were also asked to record the goals that they had set with their physiotherapist. This information was collated with demographic details of all participants.

Following an initial pilot of the questionnaire with nine service users, the finalised questionnaire with detailed information about the study was given to all clients aged  $\geq 18$  years when they attended for physiotherapy between July and September 2010. To ensure anonymity was maintained, each participant was asked to include a unique code on the questionnaire that was identifiable only to them, should they wish to withdraw their information.

#### <B>Data analysis

All data collected were summarised and presented descriptively. The participants' goals were analysed thematically with open coding. An established framework for identifying goal-setting themes was not used as the researchers aimed to construct an interpretation of the nature of the goals from the participants' perspective rather than forcing them into preconceived categories [30]. Using this inductive process is a distinct approach to the quantitative methods used to describe the data initially [31]. By viewing the same social experience from different perspectives, the authors aimed to draw on the strengths of both methods in order to give a broader account of the goal-setting phenomenon [31,32].

Goals were initially coded independently by the two authors (SH and RS). Both read the goals repeatedly to gain an overview before writing a word or phrase by the side of each that reflected the nature of the goal prior to meeting to develop the themes. Goals that were deemed to be similar were grouped together into subthemes. Related subthemes were further combined to form the overarching theme of the goals that were set. Any initial differences in theme labelling were resolved through reflective dialogue by the authors, and the creation of diagrammatic representations of themes with their associated goals (see Table 1). A third researcher peer reviewed the process and corroborated the findings to improve credibility. Goals related to their overarching themes were subjected to content analysis [33].

#### <insert Table 1 near here>

#### <A>Results

In total, 133 clients accessed physiotherapy at the NMC during the survey period; of these, 125 agreed to take the questionnaire and eight declined. By the finalised date for return of questionnaires, 104 participants (78%), had completed and returned the questionnaires by stamped addressed envelope or in person when attending the physiotherapy department. They had a range of neuromuscular conditions including Becker, facioscapularhumeral, limb girdle, Duchenne and myotonic muscular dystrophies; spinal muscular atrophy and Charcot-Marie-Tooth disease. Of the 104 participants, there were 70 males and 34 females, with a median age of 45 years [interquartile range (IQR) 35 to 59 years]. Median time since diagnosis was 19.5 years (IQR 12 to 30 years). Seventeen participants (16%) could complete all activities unaided, 54 participants (52%) required some assistance to complete daily activities, 23 (22%) required assistance for all tasks and 10 (10%) could not complete most daily tasks (see [28] for more detailed demographic information). Of the participants that

completed the questions on goal setting (n=98), 36 (37%) reported that they had set goals with the physiotherapist and 62 (63%) stated that they had not set goals with the physiotherapist (see Table 2). Of those that answered the item on satisfaction (n=101), 99 (99%) reported that they were satisfied with the physiotherapy provision and one (1%) reported that they were not satisfied with the physiotherapy provision.

#### <insert Table 2 near here>

#### <B>Themes

In total, 65 goals were identified by the participants. The goals were combined into four overarching themes: symptom management, maintenance, improving physical status and learning to live with the condition.

#### *<C>Symptom management*

Twenty percent of goals (13/65) were concerned with ways to manage symptoms. These were mainly physical management, but also goals for helping with pain relief, particularly back pain. Although participants were asked to list the goals that they had set, these were not always articulated as goals in the same way that physiotherapists would be expected to communicate goals with their patients. This occurred in all categories, but especially symptom management. A number of goals were related to completion of exercises that they were to carry out and equipment that they were to use, rather than functional goals to work towards. For instance, one participant included 'active exercises with arm pedals' as a goal, and another participant wrote 'tilt table, for standing' as their current goal. Other participants just recorded one or two words under goals set. For example, one wrote 'stretches' and another wrote 'ball exercises'. Whilst these are likely to interlink with other themes, they

were labelled together under 'symptom management' because they could all be related to helping the symptoms in one way or another.

#### <C>Maintenance

Thirty-one percent of goals were related to maintenance (20/65). Goals that were identified under this theme were related to preserving the status quo in order to maintain their condition and prevent deterioration. Most goals were concerned with maintaining mobility, including joint range of motion as well as sustaining the ability to continue ambulation. Two maintenance-related goals were concerned with maintaining muscle strength.

#### <C>Improving physical condition

Twenty-one percent (14/65) of goals were related to improving physical condition. These were primarily concerned with muscle strengthening, including core stability and goals for improving mobility, specifically joint flexibility, and standing time. Goals to improve the ability to perform an activity were also identified, as well as goals for losing weight.

#### *<C>Learning to live with the condition*

The remaining 28% of goals (18/65) were related to learning to live with the condition. These were mainly concerned with improving emotional state, including reducing depression, boosting morale and maintaining a positive outlook on life. Goals were also identified that referred to learning to cope with their problems, including pain management and confidence in performing activities. There were also a number of goals related to performing home exercise regimes.

#### <A>Discussion

This study aimed to describe and evaluate goal setting in clients attending the NMC for physiotherapy. The findings indicate that females and those over 65 years of age appeared to be most likely to report that they had set goals, irrespective of the time since diagnosis or how long they had been attending for physiotherapy. However, only 37% of participants reported that they had set goals with their physiotherapist, whilst 63% of participants were not aware of their participation in a goal-setting process. This is consistent with previous research that has found a disparity between clinicians' and patients' perceptions of goal setting, and the clinicians' belief that they had set goals with their patients which was not corroborated by the patients [12,34]. Whilst physiotherapists are practised in a formalised process of goal setting, many patients may have had limited or no previous experience in setting goals [34], so their interpretation of goals and the process of goal setting is likely to be different [6,20,35]. This was highlighted in this study when participants were asked to list the goals that they had set, as some listed equipment to use or how they were going to achieve the goal, rather than an actual goal to which they were working towards. Other patients omitted to write down their goals. It is not clear if this was because these participants were unable to articulate their goals or unable to recall the goals that had been set. However, a number of goals written by other participants were explicit and comprehensible, suggesting that there could be differences in the understanding or communication of goals. Indeed, how clinicians communicate goals has been found to be important to help patients to understand and share decisions when goals setting [12,15]. As each interaction with their patients will be unique, physiotherapists need to ensure that they are versatile in their language in order to ensure that goal setting is an inclusive process [12,34].

Many people with NMD face progressive physical changes; for many patients, these lead to a sense of self-loss until they accept their new circumstances [26,36]. As people with NMD go through these different stages, the capacity to deal with their situation and take

control of their life varies [4,26]. Consequently, there may be occasions when wanting or having the emotional ability to take an active role in goal setting may be diminished [8,22,23]. Therefore, in this situation, it appears that collaborative goal setting is not desirable as patients only feel able to take a more passive role within the process [15,35]. Indeed, goal setting may not have been an important consideration for participants, as 99% reported that they were satisfied with the physiotherapy service they received regardless of whether or not they had reported setting goals with their physiotherapist.

Lloyd [23] identified a 'continuum' for goal setting ranging from physiotherapist-led goals to patient-led goals, with collaborative goal setting lying somewhere in the middle. It appears that individuals' aptitude for goal setting will fluctuate along this spectrum, depending on where they are on their own life course and how they are coping with challenges [23,37]. As can be seen in this study, the highest numbers of goal setters were within the most independent (no assistance to perform functional tasks) and most dependent groups (unable to perform most tasks). It may be that the most independent individuals had not yet had to face life-changing situations. Conversely, the more dependent participants may have learnt ways to manage and cope with their situation, so were more capable of taking responsibility in goal setting [23,26]. This suggests that physiotherapists need to be adaptable when setting goals, being more attuned to where patients lie along the spectrum and their readiness to take part in a collaborative process [15,23]. Physiotherapists at the NMC are specialists in NMD and have, in many cases, developed close working relationships with their clients. This could indicate that they intuitively have a greater understanding of the goalsetting abilities of their clients, and so are responsive and adaptable to the current capability of their patients to collaborate in the goal-setting process. This could be investigated in future work by identifying physiotherapists' views and practices in collaborative goal setting in this patient group.

As NMD is progressive in nature [1,2], many of the goals set were related to maintenance of an individual's condition, particularly with preserving mobility and staying ambulant. This is not surprising, as retaining independence has been found to be a particular worry for people with NMD [26,28].

However, the second highest number of goals were concerned with helping individuals to cope and live with their condition by improving their emotional state, including confidence building and performing home exercise programmes. Individuals who are confident with good psychological health are more likely to want and be able to take more accountability in planning their future [22,38]. Consequently, goals to improve coping and well-being are likely to facilitate the individual's ability to progress along the goal-setting spectrum, and enable them to take an active part in goal setting, thus providing them with an important tool for developing self-management skills [15,16]. Crucially, supporting individuals to regulate themselves in this way is now seen as an integral part of patient management for people with long-term conditions [17,39,40]. This may be particularly pertinent for many individuals with NMD who have limited access to specialist physiotherapy [26,27], and consequently need means to take care of themselves in the community. Whilst goal setting is an important element in the management of people with NMD, it appears to be essential to not only consider the type of goals set, but also to consider the evolving process of goal setting as individuals with NMD negotiate their path through life. Ways to translate this to the community setting, particularly for people who have restricted access to specialist physiotherapy, to guide individuals through a goal-setting process now need to be explored.

#### *<B>Limitations*

This study had various limitations as, although there was a 78% response rate (104/133), only 36 participants claimed that they had set goals with the physiotherapist; this is an interesting finding, worthy of further research. Nonetheless, the small number of respondents who set goals and the use of a single specialist centre restricts the external validity of the findings, so future research is needed to corroborate these results. Further exploration of goal setting from the viewpoint of the physiotherapists at the NMC would also inform debate on the goal-setting process for this patient group.

The findings of this study describe aspects of goal setting and highlight potential issues with setting goals for people with NMD. They also promote debate around issues such as the role of collaborative goal setting for individuals with NMD, the type of goals to be set, and how goal setting can be optimised to improve the lives of people living with NMD in the community.

#### <A>Conclusion

The majority of respondents reported that they did not set goals; of those who did, goals centred around themes of symptom management, maintenance, improving physical status and learning to live with the condition.

Whilst it is recognised that physiotherapists undertake collaborative goal setting with their patients, this is not always actualised [6,23,34]. As there may be times when individuals are not ready to share decision making, collaborative goal setting may not always be appropriate. In these instances, physiotherapists could consider the optimum way to guide their patients along the goal-setting spectrum until they develop the capability to participate in the process. Equally, physiotherapists need to be versatile in their language so that patients with varied experiences of goal setting can make sense of and contribute to the process. It is likely that setting personal goals that help individuals to improve their emotional well-being

will help to endow them with the confidence to take more control of their situation. Effective goal setting could therefore be a valuable resource for physiotherapists, not only to support people with NMD to take more responsibility in their own future planning, but to facilitate self-management skills so that individuals with NMD can learn to live a more independent life in the community.

*Ethical approval*: Ethical permission for the original study was gained from Manchester Metropolitan University, Department of Exercise and Sports Science Academic Ethics Committee [IPS approval code 11.02.10(i)].

Conflict of interest: None declared.

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#### Table 1

Themes and examplars of goals recorded by clients at the neuromuscular centre

Theme	Subthemes	Ex	Examplar goals			
Maintenance	Preserving the status quo	١.	To try to arrest the deterioration of my condition from the effects of its advance			
		II.	To maintain my condition			
	Maintaining mobility	١.	Keep muscles supple by stretch exercises			
		II.	To keep movement in limbs			
	Maintaining muscle strength	١.	To do Togu cushion exercises to maintain my trunk			
		11.	To maintain muscle			
Symptom management	Pain relief		Reduce back pain			
		II.	Pain relief			
	Type of exercises	١.	Active exercises with arm pedals			
		II.	Ball exercises			
	Equipment used	l.	Standing frame			
		II.	Equipment needed			
Improving physical	Improve mobility	<b>.</b>	Become more mobile			
condition		II.	Flexibility increased			
	Muscle strengthening	Ι.	Strengthen core muscles using Togu cushion and exercises			
		II.	To strengthen and stimulate muscles made weaker by poor use			
	Improve ability to carry out	١.	Try to improve on exercises			
	activity	II.	Increase standing time			
	Weight loss	١.	To lose weight for more mobility			
		II.	Weight loss			
Learning to live with the	Improve emotional state	١.	Overcome my depression with the help of exercises			
condition		II.	Improve confidence when walking around with sticks			
	Coping with the situation	١.	Learning to live and cope with my extra problems			
		II.	Cope better with my pain			
	Home exercise programme	١.	Exercises are set so I may help myself			
		II.	Loads of exercises to do at home			

#### Table 2

Frequency and percentage distributions of participant characteristics, satisfaction levels and responses to goal setting

	No. of	No. of	Set goals	
Questions asked	participants n (%)	respondents to goal setting n (%)	Yes n (%)	No n (%)
Sex ( <i>n</i> =104)				
Male	70 (67)	65 (93)	21 (32)	44 (68)
Female	34 (33)	33 (97)	15 (46)	18 (55)
Age (years, <i>n</i> =104)				
18 to 35	31 (30)	28 (90)	12 (43)	16 (57)
36 to 50	28 (27)	28 (100)	8 (29)	20 (71)
51 to 65	34 (33)	32 (94)	10 (31)	22 (69)
66 to 85	11 (11)	10 (91)	6 (60)	4 (40)
Time since diagnosis (years, n=104)				
0 to 5	9 (9)	8 (89)	4 (50)	4 (50)
6 to 15	32 (31)	31 (97)	12 (39)	19 (61)
16 to 30	39 (38)	36 (92)	9 (25)	7 (75)
≥31	24 (23)	23 (96)	11 (48)	12 (52)
Can you complete most ADL? ( <i>n</i> =104)				
No assistance	17 (16)	15 (88)	8 (53)	7 (47)
Some assistance for some tasks	54 (52)	52 (96)	16 (31)	36 (69)
Assistance for all tasks	23 (22)	22 (96)	6 (27)	16 (73)
Not able to complete most tasks	10 (10)	9 (90)	6 (67)	3 (33)
How long have you been having physiotherapy at the NMC? (years, <i>n</i> =102)				
>5 years	61 (60)	58 (95)	23 (40)	35 (60)
>1 and <5 years	24 (24)	23 (96)	7 (30)	16 (70)
<1 year	11 (11)	11 (100)	4 (36)	7 (64)
>3 and <6 months	2 ( 2)	2 (100)	2 (100)	0 (0)
1 to 3 months	3 ( 3)	2 (67)	0 (0)	2 (100)
<1 month	1(1)	1 (100)	0 (0)	1 (100)

Overall, are you satisfied with				
physiotherapy provision at the				
NMC?				
( <i>n</i> =101)				
Yes	100 (99)	96 (96)	34 (35)	62 (65)
No	1 (1.0)	1 (100)	1 (100)	0 (0)

ADL, activities of daily living; NMC, neuromuscular centre.

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