ABSTRACT

Introduction: Stimulating physical activity behaviour in persons with a physical disability is important, especially after discharge from rehabilitation. A tailored counselling programme covering both the period of the rehabilitation treatment and the first months at home seems on the average effective. However, a considerable variation in response is observed in the sense that some patients show a relevant beneficial response while others show no or only a small response on physical activity behaviour. The Rehabilitation, Sports and Active lifestyle (ReSpAct) study aims to estimate the associations of patient and programme characteristics with patients’ physical activity behaviour after their participation in a tailored counselling programme.

Methods and analysis: A questionnaire-based nationwide longitudinal prospective cohort study is conducted. Participants are recruited from 18 rehabilitation centres and hospitals in The Netherlands. 2000 participants with a physical disability or chronic disease will be followed during and after their participation in a tailored counselling programme. Programme outcomes on physical activity behaviour and patient as well as programme characteristics that may be associated with differences in physical activity behaviour after programme completion are being assessed. Data collection takes place at baseline and 14, 33 and 52 weeks after discharge from rehabilitation.

Ethics and dissemination: The study protocol has been approved by the Medical Ethics Committee of the University Medical Centre Groningen and at individual participating institutions. All participants give written informed consent. The study results will provide new insights into factors that may help explain the differences in physical activity behaviour of patients with a physical disability after they have participated in the same physical activity and sports stimulation programme. Thereby, it will support healthcare professionals to tailor their guidance and care to individual patients in order to stimulate physical activity after discharge in a more efficient and effective way.

Trial registration number: NTR3961.

Strengths and limitations of this study

- This is the first longitudinal cohort study on a three-phase tailored counselling programme covering the rehabilitation treatment, the transfer from rehabilitation to the home setting and the first months at home.
- The results of this observational study will contribute to the identification of factors that may explain the differences in physical activity behaviour in a large cohort of patients with a variety of physical disabilities and chronic diseases after they have participated in the same physical activity and sports stimulation programme.
- By examining programme characteristics in addition to patient characteristics, more insight can be obtained into the possible association between programme characteristics and patient’s physical activity behaviour on short-term and long-term after programme completion.
- Other strengths of this study are that the sample of participants is obtained from 18 different rehabilitation centres and hospitals in The Netherlands that all offer the same programme to their patients, and that participants are evaluated at multiple standardised measurements in time up to 1 year after discharge from rehabilitation.
- Given that patients can only participate in the Rehabilitation, Sports and Active lifestyle (ReSpAct) study if they have been referred to the Sports Counselling Centre, a limitation of the study is a potential sample selection bias by a potential selection bias in the referral.

INTRODUCTION

Many patients with different types of disabilities and chronic diseases do not obtain the recommended amount of physical activity (PA) that is required for maintaining health.1, 2 In addition, these patients spend considerably more time in sedentary (sitting)
behaviour compared with the general population, especially those with neuromuscular disabilities and/or those who use a wheelchair for mobility. Knowing its health-enhancing effects such as the positive effects on mobility and quality of life for persons with a disability, a physically active lifestyle is strongly recommended for persons with a disability or chronic health condition. Consequently, the promotion of PA behaviour among those persons is of utmost importance. A potentially effective intervention to stimulate long-term participation in PA and sports in persons with a disability or chronic disease is tailored counselling. A form of tailored communication. Tailored communication is “intended to reach one specific person, based on characteristics that are unique to that person, related to the outcome of interest, and have been derived from an individual assessment.”

Last years, several studies have been initiated to investigate the effects of a tailored counselling intervention in different patient populations with the aim of promoting PA behaviour. These studies indicate that the applied postrehabilitation interventions were effective. However, knowing that patients are often faced with many challenges in the transfer from rehabilitation to the home setting and also in engaging in PA and sports (ie, physical, social, attitudinal and financial challenges and barriers) an intervention that starts during rehabilitation and continues during the transfer to the home setting and the first months at home is perhaps even more effective. Such a three-phase intervention is expected to contribute in maintaining the level of PA in the home setting as acquired during rehabilitation, and thereby is expected to prevent a postrehabilitation decline in PA and in turn may also counteract a postrehabilitation health decline. Furthermore, when using tailored counselling, such intervention meets the patients’ need of professional tailored support at discharge and follow-up, as evidenced by recent studies.

As far as known by the authors, only one study has examined the effects of such a three-phase intervention including tailored counselling and with the aim to stimulate PA behaviour after discharge from rehabilitation. The results from this randomised controlled trial (RCT) indicated that PA behaviour and sport participation were successfully improved up to 1 year after discharge in a heterogeneous inpatient and outpatient population. However, considerable variation in response was observed in the sense that some patients showed a relevant beneficial response while others showed no or only a small response on PA behaviour. This suggests that the effectiveness of such a programme probably differs between patients, like patients with different ages. Other factors that are possibly associated with the effectiveness of a tailored counselling programme could be patient’s characteristics (eg, diagnosis and stage of behavioural change) and characteristics of the programme (eg, total duration of consultations, extent to which Motivational Interviewing (MI) is applied and treatment form under which the programme is offered). Given the promising results of a three-phase counselling intervention including tailored counselling, the next step is now to identify factors that may explain the differences in patients’ PA behaviour after programme completion. Insight into these factors will contribute to better understand why different patients who all participated in the same programme show different changes in PA behaviour over time. In addition, insight into these factors will help to develop more effective programmes with the aim of stimulating PA behaviour after discharge from rehabilitation, and to offer those programmes in a more efficient way.

A longitudinal cohort study is considered to be an appropriate design to complement the previous RCT study and to perform more in-depth analyses with the aim to identify those explanatory factors. The ‘Rehabilitation, Sports and Active lifestyle’ study (ReSpAct study; http://www.respact.nl/en) is a nationwide longitudinal cohort study that evaluates the PA and sport stimulation programme ‘Rehabilitation, Sports and Exercise’ (RSE). This programme is based on the evidence-based programme of van der Ploeg and is characterised by both the three-phase intervention set-up and the use of tailored counselling. Since 2012, the RSE programme is being implemented in 18 rehabilitation centres and departments of rehabilitation in general hospitals in The Netherlands and is offered to persons with a variety of physical disabilities and chronic diseases.

The current paper presents the study design of the in-depth scientific evaluation of the RSE programme among patients with a physical disability and/or chronic disease in Dutch rehabilitation care. The main aims of this study at patient level are to gain more insight into patients’ PA behaviour and into factors that may help explain differences in patients’ PA behaviour after programme completion and at follow-up. For this purpose, both programme outcomes and potential explanatory factors (ie, patient and programme characteristics) are being assessed.

METHODS AND ANALYSIS
Study design

The ReSpAct study is a multicentre longitudinal cohort study that is designed to scientifically evaluate the RSE programme. Since 2012, the RSE programme is being implemented and executed within 12 rehabilitation centres and 6 departments of rehabilitation in general hospitals in The Netherlands. Simultaneously, the ReSpAct study is being conducted within these same 18 rehabilitation institutions.

The different subprojects of the ReSpAct study (figure 1) focus on the evaluation of the RSE programme at patient level, the process evaluation of the implementation of the RSE programme within Dutch rehabilitation care.
and an economic evaluation of the programme. This paper describes the study protocol of the evaluation of the RSE programme at patient level (figure 1, white boxes).

Study cohort and participating centres
Participant recruitment began in April 2013 and will continue until October 2015. The ReSpAct study enrols participants with varying physical disability and/or chronic disease who participate in the RSE programme in one of the rehabilitation centres or hospitals involved. Like the general population, the group of participants will be heterogeneous, for example, for age, sex, PA behaviour, as well as for type and extent of disability. Box 1 shows details of eligibility criteria.

Sample size
PA is the main outcome measure and is assessed using an adapted version of the Short QUestionnaire to ASsess Health enhancing physical activity (SQUASH). Based on the numbers of patients enrolled in the study of van der Ploeg it was expected that subgroups of patients of n=500 were deemed necessary and feasible. The ReSpAct study aims to distinguish subgroups of patients based on two patient characteristics. Based on the context of rehabilitation, a first distinction is made between patients who received rehabilitation care in a rehabilitation centre (12 rehabilitation centres; n=1000) versus patients enrolled from the hospital (6 hospitals; n=500). In addition, subgroups of patients will be formed of inpatients (12 rehabilitation centres; n=200), outpatients (12 rehabilitation centres and 6 hospitals; n=1000) and patients who received treatment based on medicine consultation (6 hospitals; n=300). The target sample size in the ReSpAct study is 1500 patients. To achieve this number, a 25% attrition rate is factored in the recruitment plans. Therefore the study aims to recruit 2000 patients.

The programme ‘RSE’
Content of the programme
The PA and sport stimulation programme ‘RSE’ (Dutch: ‘Revalidatie, Sport en Bewegen’) is a programme aiming to stimulate an active lifestyle in persons with a physical disability and/or chronic disease subsequent to the rehabilitation period. The stages of change concept of the Transtheoretical model and the Physical Activity for people with a Disability (PAD) model formed the theoretical basis for the RSE programme. These models provide insight into the process of behavioural change and the relationships between PA behaviour, its determinants and the daily functioning of persons with a disability.

The RSE programme basically aims to stimulate an active lifestyle during the rehabilitation period and to guide patients in maintaining PA behaviour in the home setting (figure 2). At the start of the rehabilitation treatment, patients’ interests and wishes are identified and individual treatment goals are formulated with respect to participation in exercise and sports activities during rehabilitation. Then, by making sports and exercise an integrated part of the individual multidisciplinary treatment (eg, by physiotherapy, adapted PAs and occupational therapy), the patient has the opportunity to become acquainted with various PAs and to get more insight in their own abilities, interests and wishes regarding PAs and sports.

Three to 6 weeks before discharge, the patient is referred to a ‘Sports Counselling Centre’ (SCC) within a rehabilitation centre or a rehabilitation department of a general hospital. The SCC offers tailored counselling in...
the form of individual consultations between the patient and a PA and sports counsellor. Counsellors working at the SCC are health professionals specialised in physiotherapy or adapted PA. The consultations at the SCC are intended to guide persons in their behavioural change with the aim to become/be physically active in the home setting after rehabilitation. During patient contact, the trained counsellors make use of MI, which is a client-centred style of conversation. MI has proven to be effective and seems well suited for use in a variety of healthcare settings.

After being referred to the SCC, the patient receives a 30 min individual face-to-face conversation (see figure 2). Dependent on the current patient’s stage of behavioural change and patient’ motivation for exercise and sports, the topics discussed are tailored to the patient needs. Any personal and environmental barriers and facilitators that may affect the process of behavioural change are also discussed. In addition, the patient receives a booklet on the stages of behavioural change related to an active lifestyle.

Following the first consultation and after discharge from rehabilitation, the patient receives four 10–15 min tailored telephone counselling calls over 13 weeks (see figure 2). With these calls, the patient is further supported in maintaining an active lifestyle in the home environment. Attention is paid to the current PA status and stage of behavioural change. Furthermore, satisfaction with current activities, possible barriers and solutions to barriers are discussed. Offering the telephone counselling calls when the patient is at home again, is in line with the ecological models of PA that suggest that behavioural settings and the broader social context also influence uptake and maintenance of PA behaviour. Therefore, the home may provide a conducive environment to longer term adherence to PA. Besides, the patients have to restart and reorganise their lives after discharge, and have to get used to the new situation of having a disability. The counsellor might offer some help in this process of PA behavioural change.

In contrast to the programme of van der Ploeg, the RSE programme is also appropriate to be implemented in hospitals rather than only within rehabilitation centres. As a result of this, the RSE programme will better suit the complete target group of the rehabilitation care, namely inpatients, outpatients and persons who are treated based on medicine consultations by a rehabilitation physician in the hospital setting. For the latter group of patients, the programme usually consists only of the counselling part, since these patients do not undergo a multidisciplinary rehabilitation treatment.

**Counsellors’ training in MI**

Within each participating rehabilitation centre and hospital, 1–4 counsellors work at the SCC. All counsellors are referred to follow training in MI by a professional MI trainer, who is a member of the Motivational Interviewing Network of Trainers (MINT). The training consists of a 3-day training course, followed by one refresher-day and biennial refresh-mornings. The 3-day training course provides a comprehensive overview of the foundations of MI, the evidence base concerning behavioural change and the core counselling skills of the approach. The refresher-days aim to involve more deeply in MI. These MI training courses are organised by the Dutch organisation ‘Stichting Onbeperkt Sportief’ and are offered to all counsellors.

**Recruitment**

Patients who have been referred to the SCC and who meet the inclusion criteria regarding age receive written information about the study. During the first consultation at the SCC, the counsellor gives oral information if desired and checks the inclusion and exclusion criteria. Patients who are eligible and willing to participate are asked to sign an informed consent form.

**Data collection and outcome measures**

Participants are followed over time through standardised measurements at given regular measurement occasions in time (figure 2). Each measurement consists of filling out a set of questionnaires. The questionnaires can be completed on paper or digitally.

**Timeframe of four measurements**

The baseline measurement consists of three parts (table 1). In preparation for the first consultation at the SCC, patients fill out a short questionnaire on their daily activity.
Before the face-to-face conversation starts, patients are asked to fill out another short questionnaire on several psychosocial factors and patient's motivation towards PA behaviour (part B). The last baseline questionnaire is filled out by the patient at home, after the first consultation (part C). During the following measurements, the questionnaires are completed as one set (table 1). The second

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*Baseline measurement consists of three parts: A, B and C.
†C, counsellor.
MI, Motivational Interviewing; PA, physical activity; ReSpAct, Rehabilitation, Sports and Active lifestyle; SQUASH, Short QUestionnaire to ASsess Health enhancing physical activity.

measurement (T1) takes place 14 weeks after discharge from rehabilitation to get insight in the direct results of the RSE programme. Patients who receive treatment based on medicine consultation are approached 14 weeks after the first consultation. Follow-up measurements (T2 and T3) are assessed 33 weeks and 1 year after discharge (or after the first consultation).

Content of four measurements
Each measurement includes a set of validated questionnaires as well as new developed instruments that will be evaluated during data collection. The outcome variables are thoughtfully selected on theoretical and empirical consideration in order to come to a full set of parameters to reach the prescribed aims, while also trying not to challenge participants with too time consuming questionnaires. To check the possibility of completing a measurement within 1 h, and to determine whether all questions were clearly stated, a pilot test was conducted before data collection began. Several persons with a physical disability or chronic disease filled out the baseline questionnaires (ie, part A, n=6; part B, n=5; part C, n=5).

The outcome variables included in the ReSpAct study are summarised in table 1 and are explained in more detail below. In addition, questions about work and medical care consumption are included in order to answer additional research questions (figure 1). Finally, some questions about patients’ satisfaction and opinion about the RSE programme are included in the questionnaire as part of the process evaluation of the implementation of the RSE programme.37

Primary and secondary outcomes

Primary outcome: daily PA
Self-reported level of daily PA is the primary outcome of the ReSpAct study and is assessed with an adapted version of the SQUASH.38 53 The SQUASH is a self-reported recall questionnaire to assess daily PA of healthy adults based on an average week in the past month. Some minor changes have been made to make the SQUASH applicable for people with a physical disability. Within the domain commuting activities and leisure-time and sports activities, the items ‘wheelchair riding’ and ‘hand biking’ have been added. In addition, the self-reported intensity is categorised in ‘light’, ‘moderate’ and ‘vigorous’, instead of ‘slow’, ‘moderate’ and ‘fast’. Last, ‘tennis’ has been replaced by ‘(wheelchair) tennis’ at the examples of different sports.

At baseline, the patients are asked to indicate which PAs they perform in the context of the rehabilitation treatment and on their own initiative.

Secondary outcomes
Secondary outcomes include daily sedentary behaviour and health-related quality of life (HR-QoL). Sedentary behaviour, such as sitting and lying down, is assessed by a self-reported recall questionnaire which is developed by the authors of the SQUASH.53 As is carried out in the SQUASH, the activities are assessed based on an average week in the past month. In order to make the questionnaire applicable for wheelchair user patients, these patients are instructed to only count those activities when they are sitting in the wheelchair, rather than actively propelling. HR-QoL is assessed by an adapted version of the RAND-36.64 65 67 The RAND-36 is a self-reported questionnaire that assesses eight health concepts from which the physical and mental health summary scores can be derived. Higher scores represent better HR-QoL.64 65 In addition, a horizontal visual analogue scale was added to record patient’s self-rated health. The end points are labelled with ‘worst imaginable health status’ and ‘best imaginable health status’.

Explanatory factors
To be able to better explain the differences in patients’ PA behaviour after completion of the RSE programme, factors that are possibly associated with patients’ PA behaviour are examined. Those factors are explained in more detail below on the basis of a subdivision in: patient’s characteristics and characteristics of the RSE programme. The selection of the patient’s characteristics is based on the PAD model.41

Patient’s characteristics

Stages of change
Provided that the content of the programme is well tailored to the actual stage of behavioural change of the patient, it is expected that the patient’s stage of change is a possible predictor of patient’s PA behaviour after completion of the programme. To gain more insight into the PA behaviour change, patients are asked to fill out a ‘stages of change’ questionnaire. Participants have to choose one of five statements, corresponding to the different stages of behavioural change, according to the Transtheoretical model of Prochaska and DiClemente.40 At baseline, this question is answered about both the period before the rehabilitation process started, and about the current situation. To determine whether the counsellor is able to assess the patient’s current stage of change well, the counsellor is asked to register the patient’s stage of change too, directly following each consultation.

Psychosocial variables
Several psychosocial variables are measured over time as possible explanatory variables of PA behaviour. First, the
behavioural intention to be (come) physically active is assessed with the following item on an 11-point scale: “To what extent do you currently intend to be regularly physically active in the next six months?” Intention is a general concept and an important predictor of behaviour, with planning acting as a mediator. Factors influencing the behavioural intention include attitude, self-efficacy and social influence. Attitude towards PA behaviour is assessed with three items. Self-efficacy towards PA behaviour with five items out an existing questionnaire (Cronbach’s α=0.82) and two additional items. To assess perceived social support from family, friends and colleagues concerning PA, seven important items with strong factor loadings were selected from the questionnaire of Sallis et al., partly based on a previous selection of Papandonatos et al.

The Behavioral Regulation in Exercise Questionnaire (BREQ-2) is used to measure the continuum of behavioural regulation in exercise contexts, based on the self-determination theory of Deci and Ryan. Patients have to respond to 19 items on a five-point Likert scale. The questionnaire showed strong factorial validity in adults who participate in an exercise referral scheme.

In addition, 10 important barriers to and reasons for PA are assessed. The barriers were largely selected from the questionnaire used by van der Ploeg et al. For intention, self-efficacy, attitude, perceived social support and reasons to be physically active a higher score means a more positive value for this variable with respect to a physically active lifestyle. For the barriers to PA a higher score means that the patient experiences the barrier more often.

Fatigue and activity pacing
Fatigue is a common symptom associated with a wide range of chronic diseases and one of the strongest predictors of functional disability. In addition, fatigue is seen as a barrier to PA behaviour. The Fatigue Severity Scale (FSS) is used to assess fatigue. This short questionnaire proves to be a valid and reliable measure to determine the impact of fatigue in several patient samples (eg, multiple sclerosis, cancer, Parkinson’s disease, post-stroke and chronic fatigue syndrome) and to detect change over time.

As the experienced fatigue also seems to play an important role in determining when and how activities are performed, the pacing behaviour of performing activities throughout the day is assessed. Since no generic pacing questionnaire is available yet, the different dimensions of the activity of pacing are assessed by a self-constructed nine-item questionnaire that evaluates how and based on what aspects patients modify their PA behaviour over the day.

In addition to the FSS and the pacing questionnaire, perceived fatigue and perceived activity level throughout the day are assessed with a three-item numerical rating scale (range 0–10). The patient is asked to indicate, for an average morning, afternoon and evening of last week, how tired he/she felt and what (daily) activities he/she has performed. Combining the results of these rating scales will give insight into the possible relationship between the activity level and perceived fatigue over the day.

Psychometric properties of both the self-constructed questionnaire on activity pacing and the numerical rating scales will be investigated in a substudy of the ReSpAct study during data collection.

Medical status
To examine the possible associations between the patient’s medical status and patient’s PA behaviour after completion of the RSE programme, a number of other variables are assessed. These include: patients’ medical status at baseline, changes in medical status over time, patient’s physical problems, degree of illness acceptance and unexpected serious events and negative life events. In addition, the self-image of a person’s PA is assessed. The instruments used are listed in table 1.

Characteristics of the RSE programme
The individual exposure to the RSE programme is dependent on the patient’s rehabilitation treatment and the characteristics of the guidance from the SCC. Rehabilitation treatment characteristics (ie, treatment form, duration of the treatment and context of rehabilitation) are registered by the counsellor. Characteristics of the counsellors’ guidance includes the methods of contact and the frequency and duration of contact. For each contact, the counsellor registers those aspects of programme dose.

As most counsellors are health professionals specialising in physiotherapy or adapted PA, they often work as a therapist next to their work at the SCC. The possible involvement of the counsellor as a therapist at the rehabilitation treatment of the patient is assessed by one question to the patient. It is expected that involvement of the counsellor as a therapist may positively affect the therapeutic alliance and therefore maybe is positively associated with the patients’ PA behaviour after programme completion.

In addition, during each patient contact, the counsellor assesses the degree of MI applied, using a rating scale (1–10; 1=really bad, 10=very good). It is expected that the extent to which the counsellor applied MI in a consistent way, is positively associated with the behavioural change of the patient. Furthermore, patient experience with the MI-based consultations is assessed using a questionnaire whose psychometric properties will be investigated during data collection.

Planned statistical analyses
Descriptive characteristics from the participants and the RSE programme will be explored and the univariate correlation structure for the continuous variables will be described. Multilevel analyses comparing subgroups of patients will be conducted on PA behaviour measurements. Multilevel analysis will be used to analyse repeated measures data because patient data can be
DISSEMINATION
Throughout the ReSpAct study, newsletters will be produced and forwarded to participants and health professionals working at the involved rehabilitation centres and hospitals in order to promote the study and provide updates on its progress. In addition, there is a website launched (http://www.respect.nl) to inform all interested parties about the ReSpAct study.

The results of the ReSpAct study will be disseminated to the scientific, medical and general public. Results will be published in peer-reviewed international journals and will be presented at national and international conferences and symposiums. In addition, results and their practical implications will be disseminated by meetings with clinicians and those interested in rehabilitation care and the stimulation of an active lifestyle among patients with a physical disability or chronic disease.

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