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Perceptions of exercise mastery in persons with complete and incomplete Spinal Cord Injury.

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**Perceptions of exercise mastery in persons with
complete and incomplete Spinal Cord Injury.**

Abstract and Keywords

Design: Cross-sectional study.

Objective: To compare exercise related self-perceptions in persons with complete and incomplete Spinal Cord Injury (SCI) and to identify factors that explain the variance of perceived exercise mastery in the study population.

Setting: Sunnaas Rehabilitation Hospital and the Norwegian School of Sport Sciences, Norway.

Methods: One hundred and sixteen respondents (47 persons with complete and 69 persons with incomplete SCI) answered a questionnaire measuring self-rated physical exercise habits and self-perceptions in exercise. Respondents with complete SCI performed a max test on an arm-ergometer.

Results: Exercisers with complete SCI reported significantly higher perceived exercise mastery ($p=0.002$) and exercisers with incomplete SCI reported significantly lower perceived exercise mastery ($p=0.012$) than non-exercisers. Exercisers in both groups reported higher perceived fitness (complete SCI $p=0.016$; incomplete SCI $p=0.004$) than non-exercisers. A regression analysis showed that exercising versus non-exercising (exercise-status) was the only variable that contributed to the variance in perceived exercise mastery for persons with complete SCI ($p<0.001$). For persons with incomplete injury, exercise-status and exercise hours per week contributed to the variance in perceived exercise mastery.

Conclusion: While perceived fitness is associated with exercise in the whole SCI-population, perception of exercise mastery is negatively related to exercise in persons with incomplete SCI in contrast to those with complete lesions.

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Key words: Incomplete Spinal Cord Injury, Perceived exercise mastery and fitness.

Introduction

Long-term survival of persons with spinal cord injury (SCI) has increased. Thus, for this group, as for the general population, a healthy life with a subjective feeling of well-being has become an ultimate goal.¹ The positive connection between exercise and health-condition in persons with SCI was experienced in a clinical context by Sir Ludwig Guttman more than sixty years ago. Sport activities positively influenced both physiological, psychological and social rehabilitation, and Guttman therefore integrated sport activities in the rehabilitation programme at Stoke Mandeville Hospital.²

Research on physical exercise in persons with SCI has primarily focused on physiological benefits. However, there are reports on quality of life and well-being as outcomes in relation to a physically active life-style.³ Few studies have looked at incomplete lesions specifically. We therefore investigated life satisfaction related to physical exercise in persons with incomplete SCI.⁴ As expected, those who exercised regularly experienced significantly higher life satisfaction and higher perceived physical fitness than persons who did not exercise regularly. However, a puzzling result in contrast to previous research on able-bodied persons, was that the participants who exercised demonstrated lower perceived exercise mastery than their inactive peers⁵. Perception of exercise mastery is defined as perceived competence in the execution of physical exercise.⁶ We did not know whether the same tendency applied to those with complete SCI. Therefore, a comparison of perceived exercise mastery of persons with complete and incomplete SCI was called for. Potentially, different approaches to exercise may be needed and thus influence how therapists should set up and individualize exercise programs.

The purpose of the present study was to compare exercise related self-perceptions between persons with complete and incomplete SCI, and to identify factors which might explain the possible variance in perceived exercise mastery in the two populations. For

those with an incomplete lesion, the endpoint for functional level is not predictable. The endpoint of functional level for persons with complete SCI is well documented^{7,8} as it is for the able-bodied. As to expectations, those with complete lesions are more similar to able-bodied persons. We therefore hypothesized that persons with complete lesions who exercise regularly have a similar positive perception of exercise mastery and fitness as seen in an able-bodied population.

Method

The design of the study was cross-sectional. Data were collected by a questionnaire that measured exercise status and exercise related self-perceptions. Background information was gathered from medical records. AIS scores (ASIA Impairment Scale) were used.⁹ As a control to the self-reported exercise-status, aerobic work-capacity was tested on an arm ergo-meter in participants with motor complete SCI (AIS A-B). For persons with incomplete SCI (AIS D, a subgroup of incomplete lesions), either arm- or leg cranking was used for testing, making the data in-comparable.

Subjects

Invitations to participate were sent to 47 persons with SCI AIS A-B, and 100 persons with SCI AIS D. The first group (AIS A-B) was recruited from a study on longstanding SCI, where persons injured between 1961 and 1982 with SCI AIS A-E, participated.¹⁰ In order to minimize bias from general age changes, persons above 60 years of age at injury were excluded as well as persons with inabilities to respond to the questionnaire. In order to measure aerobic work-capacity, the participants had to be able to perform a max test on an arm ergometer. The second group consisted of 69 persons (out of 100 invited) with SCI AIS-D (incomplete) rehabilitated at Sunnaas Rehabilitation Hospital before 1992.⁴ These

groups may be characterized as samples of convenience, which calls for caution about generalizing of the findings.

Measures

Exercise.

The participants reported number of exercise hours per week. In addition, they reported frequency of exercise in 19 defined exercise activities. Those who exercised less than once a week were classified as non-exercisers, and those exercising once a week or more as exercisers (exercise-status). In order to check the accuracy of the self-reported exercise-status, a correlation test between self-reported exercise-status and the physiological data (Peak VO_2 max ml/kg/min) was performed. We used the data from the participants with paraplegia AIS A-B (n=34), because it is well documented that exercise is associated with higher VO_2 in this group.^{11, 12} Aerobic work-capacity was measured by arm-cranking. The participants, sitting in their own wheel-chair, using an adapted ergometer for arm cycling (Ergometrics 800, Ergoline, Germany) performed a stepwise, graded exercise test until exhaustion. Expiratory volume and gas concentrations were measured continuously. Minute ventilation and oxygen uptake (VO_2) were calculated every 15 seconds (Sensor Medics Vmax 229).

The Self- Perception in Exercise Questionnaire

Sorensen (1997) constructed a scale to measure self-concept variables that are related to exercise, the Self- Perception in Exercise Questionnaire (SPEQ).⁶ SPEQ consists of four separate subscales. We used two of the subscales in this study, namely perceived exercise mastery (SPEQ mastery) (5 items), and perceived fitness (SPEQ fitness) (3 items), Appendix 1. A mean score for each subscale was computed. Reliability and validity have been documented previously in a Norwegian able-bodied population.⁶

Procedure

The study was approved by the Regional Medical Research Ethics Committee, Eastern Norway. Respondents gave their written consent. Background information about injury level and severity, additional injuries and complications were collected by reviewing the medical records.

Statistical methods

Descriptive statistics were used to characterize the samples. Independent sample t-tests and Pearson's Chi-Squared tests were used where appropriate. First, we compared data in order to expose differences between the subgroups, i.e. time since injury (AIS-D), on age, gender, injury level, exercise hours per week, exercise-status, mean scores on SPEQ mastery and SPEQ fitness. We compared data on SPEQ mastery and SPEQ fitness for exercisers and non-exercisers. Associations between exercise hours and physiological parameters were studied by using the Spearman's correlation test. Linear regression analysis was used to study the relationship between SPEQ mastery and a set of covariates. The covariates included gender, age, time since injury, injury level, exercise-status, exercise hours per week, and perceived fitness. Statistical analyses were conducted by using SPSS version 15.0 for Windows.

Results

Descriptives

The characteristics of the participants are given in Table 1. Mean time since injury was 29 years (SD 5.3) for persons with complete SCI versus 18 years (SD 8.1) for persons with incomplete SCI. However, we found no significant differences related to time post injury (injured before 192 versus 1982-1992) in persons with SCI AIS-D, concerning age, gender, injury level, exercise-hours per week, exercise-status, mean scores on perceived exercise

mastery, or on perceived exercise fitness in either of the analyses. There were no differences in gender distribution, injury level or age between the exercisers and non-exercisers in the samples.

Table 1 in near here

Accuracy check of the self-reported exercise-status

All exercisers AIS A-B demonstrated higher levels of peak VO₂ max ml/kg/min and workload than the non-exercisers (Fig. 1). For persons with paraplegia AIS A-B, there was a statistically significant correlation ($r_s=0.605$, $p<0.01$) between their self-reported exercise-status and the measured Peak VO₂ max. The association between exercise hours per week and Peak VO₂ max ml/kg/min demonstrated a statistically significant correlation ($r_s=0.773$, $p<0.01$). This supports that the self-reported exercise-status catches a meaningful difference for these populations.

Fig. 1 in near here

SPEQ mastery

The results are presented in Table 2. Exercisers with complete and incomplete SCI demonstrated significant differences in SPEQ mastery compared to their non-exercise peers ($p = 0.002$ and $p = 0.012$ respectively). Exercisers with complete lesions reported more positive exercise mastery, and persons with incomplete lesions reported more negative exercise mastery than their non-exercising peers.

Table 2 in near here

SPEQ fitness

SPEQ fitness was significantly higher for exercisers versus non-exercisers in both samples; ($p = 0.016$ and $p = 0.004$ for complete and incomplete SCI respectively).

Associations with SPEQ mastery

To identify factors that explain the variance in perceived exercise mastery for the two samples, linear regressions were performed separately. The dependent variable was SPEQ mastery, and the independent variables were age, gender, time since injury, exercise-status, exercise-hours per week and SPEQ fitness. For persons with complete SCI the regression model was significant ($R^2_{adj} = 0.26$, $F = 16.102$, $p < 0.001$). However, exercise-status was the only variable that contributed significantly to the equation ($p < 0.001$).

For persons with incomplete SCI, the same regression model did not reach statistical significance. In this group, a regression model with SPEQ mastery as the dependent variable, exercise hours per week and exercise-status as independent variables, was significant ($R^2_{adj} = 0.07$, $F = 3.527$, $p < 0.01$). For the group with incomplete SCI, both exercise-status as well as hours per week contributed negatively to the variance in SPEQ mastery ($p = 0.007$ for exercise hours per week and $p = 0.04$ for exercise-status).

Discussion:

The most important observation of the present study was the difference in perceived exercise mastery between exercisers with complete and incomplete SCI. For persons with complete lesions, exercise-status was the variable most clearly associated with SPEQ mastery. This association was positive, which means that if they exercised, they reported higher perceived exercise mastery. For persons with incomplete lesions, both exercise hours per week and exercise-status contributed significantly to the variance in SPEQ mastery. However, this relation was negative. Persons who exercised regularly or did more hours of exercise per week reported lower scores on the SPEQ mastery scale.

According to Haskell et al., exercising more hours a week is associated with better physical fitness.¹³ However, it is likely that persons with incomplete SCI struggle more in everyday life in order to function as independently as possible. For the same reason they

probably use less adaptive aids for mobility compared to those with complete lesions. In addition, they try to do their weekly exercise both for fitness and to maintain their physical function. The reported low exercise mastery may indicate that this is too much in order to cope well enough to feel competent while exercising. Expectations restoring function through exercise may be higher among persons with the incomplete SCI.

In persons with SCI, similar results have been reported concerning fatigue due to both physiological and psychological factors. Fawkes-Kirby et al. reported that persons with incomplete SCI perceived more fatigue than persons with complete lesions.¹⁴ As persons with incomplete lesions restore more function, they are able to be more physically active. Fawkes-Kirby et al. suggest that compared with those with complete lesions, persons with incomplete SCI both are more active and use less equipment adaptations. The authors wrote that persons with incomplete SCI may be faced with higher expectations from others, and consequently experience more fatigue. Kemp and Thompson¹⁵ argued that low levels of fitness may result in too little energy reserves to meet the physical demands of every day life with SCI. Hammel et al. did a qualitative study with focus-groups on fatigue in SCI.¹⁶ The authors identified potentially positive and negative effects from exercise. Pain seemed to be the strongest predictor for fatigue, but the authors suggested that physical exercise might contribute to fatigue.

From our clinical experience we know that there are high expectations about what physical exercise can do to restore better function, in particular for those with incomplete lesions. This group may perceive more uncertainty about their future physical function than those with complete SCI.^{7, 8} Physical exercise becomes a method to regain independency. The first years` post injury, many persons with incomplete SCI experience a marked improvement in strength, endurance and restored function. Their expectations of recovery are fulfilled to a certain extent. Over the years, their functional improvements

diminish, and a decline in daily function may occur due to normal ageing, complications, or possible overuse. Consequently, they may experience a lower degree of coping, as measured by exercise mastery. To capture the expectations, it is important that health-professionals help with realistic goal-setting, both during the early rehabilitation and later, if reduction in physical functions occurs.

The physical reserve capacity for persons with incomplete SCI may be insufficient for exercise-activities in addition to physical demands in their everyday life. Additional exercise-activities may lead to a feeling of exhaustion (overtraining) and eventually loss of motivation for further exercise (burnout), comparable to overtraining and burnout in elite athletes as described by Lemyre.¹⁷

Persons with complete SCI, reported a higher score on SPEQ mastery if they exercised. According to injury level, it may be more straight forward what can be expected of restored functional level, and accordingly they use more mobility aids and other adaptations to cope with their impairment, compared to persons with incomplete lesions.

The results in this study support earlier findings showing increased SPEQ fitness in persons that exercise regularly.^{4,5} Defining exercisers as those who exercise once a week or more may be debated, because this amount represents too little exercise to improve the physiological work capacity in able-bodied persons.¹³ This may also be the case in people with SCI who additionally have less muscle function to move their bodies. However, we do not know how much exercise is necessary in order to maintain an identity or a self-concept as an exerciser, or to influence psychological responses. We only know that some psychological responses seem to be more associated with exercise of moderate intensity in the normal population.¹⁸ The “once a week or more”-criterion seemed to classify the mean scores of perceived exercise mastery and fitness for those with complete SCI meaningfully.

It differentiated between exercisers and non-exercisers with incomplete lesions, but in a more unexpected direction. However, this result was supported by the fact that persons with incomplete SCI perceived less exercise mastery the more hours they exercised per week.

A limitation of this study was the use of self-reports on physical exercise.¹⁹ In order to support the reported amount of exercise, we compared the available data on Peak VO₂ max with self-reports, but only for persons with complete SCI due to the available reliable data. Another weakness was the difference in time since injury between the two populations. However, analyses demonstrated that this difference had little impact on the results in the incomplete group, most likely because they were all long term post-injury. Further, the results may be influenced by the disproportional numbers of persons with tetraplegia in the two samples.

In conclusion, the results of the present study indicate that persons with complete and incomplete SCI perceive exercise mastery differently. For persons with complete SCI, exercise-status was the only variable that contributed positively to the variance in perceived exercise mastery. For persons with incomplete SCI, both exercise-status and exercise hours per week contributed negatively to the variance in exercise mastery. This may be due to exertion from coping with demands in everyday life or unrealistic expectations about restoration of function. To capture this, the goals of each individual should be explored and adjusted. Kennedy et al. developed instruments and procedures for this purpose in a rehabilitation setting.²⁰ It seems important that health-professionals, working with persons with SCI learn to understand how to use these tools. However, more research is needed in this field in order to understand the complexity of the abovementioned findings.

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Table 1
Descriptives of the populations with SCI AIS A-B and SCI AIS-D

	Total sample (AIS A-B) n = 47	Exercisers (AIS A-B) n = 33	Non-exercisers (AIS A-B) n = 14	Total Sample (AIS-D) n = 69	Exercisers (AIS-D) n = 47	Non-exercisers (AIS-D) n = 22
Tetraplegia	13	8	5	35	26	9
Paraplegia	34	25	9	34	21	13
Age, Mean (SD)	48 (8.2)	48 (8.6)	49 (7.5)	48 (13.7)	48 (13.4)	47 (14.6)
Gender:						
Male	41	29	12	56	36	20
Female	6	4	2	13	11	2
Time since injury, Mean (SD)	29 (5.3)	28 (4.4)	29 (7.0)	18 (8.1)	18 (8.7)	19 (7.3)
Exercise hours per week						
Median (range)						
Total Sample	2 (0-15)	4 (1-15)	0	1.5 (0-12)	2.3 (1-12)	0
Tetraplegia	3 (0-14)	5 (2-14)	0	1.8 (0-10)	2.7 (1-10)	0
Paraplegia	2 (0-15)	3.5 (1-15)	0	1 (0-12)	1.5 (1-12)	0

Abbreviation: SCI = Spinal Cord Injury, SD = Standard Deviation, AIS = ASIA Impairment Scale

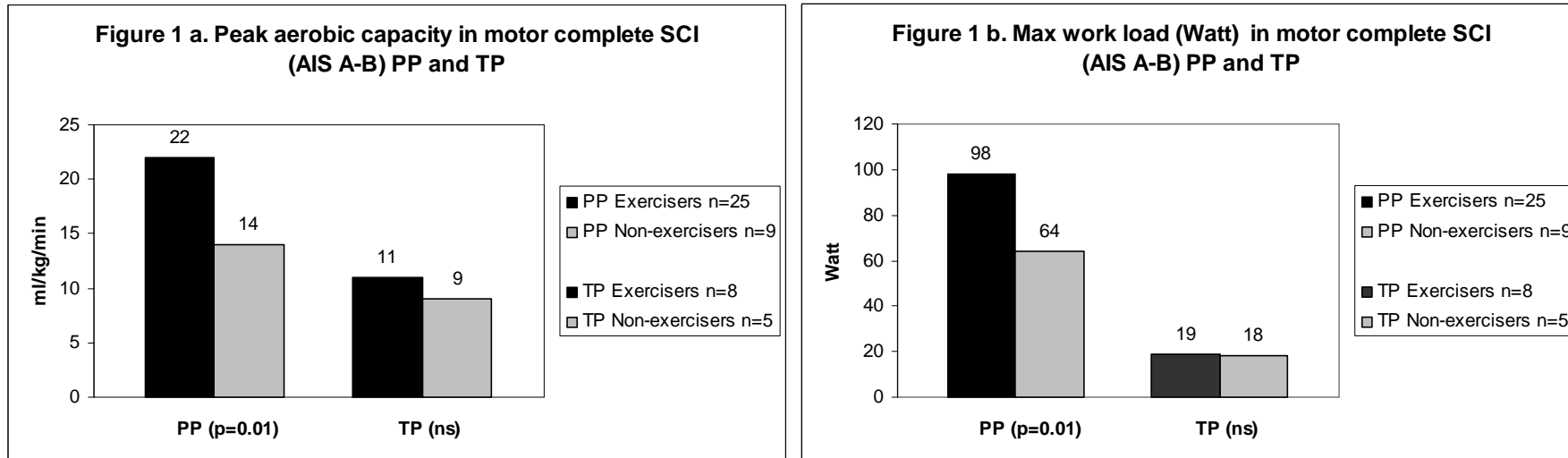
Table 2**Comparisons of Self-Perceptions in exercise between exercisers and non-exercisers with SCI AIS A-B and SCI AIS D SCI .**

	Exercisers (AIS A-B) n = 33	Non-exercisers (AIS A-B) n = 14	P*	Mean difference (AIS A-B)	Exercisers (AIS-D) n = 47	Non-exercisers (AIS-D) n = 22	P*	Mean difference (AIS-D)
SPEQ Mastery (SD) (95 % CI)	2.6(0.4)	2.0(0.6)	0.002	0.6(0.3, 1.0)	2.4(0.6)	2.9(0.6)	0.012	- 0.3(-0.7, 0.0)
SPEQ Fitness (SD) (95 % CI)	2.5(0.9)	1.9(0.7)	0.016	0.6(0.1, 1.1)	2.3(0.9)	1.6(0.8)	0.004	0.5(0.1, 0.9)

Abbreviation: SCI = Spinal Cord Injury, SD = Standard Deviation, AIS = ASIA Impairment Scale, CI = Confidence Interval

*P-values from independent-sample t-tests.

Fig. 1



Abbreviation: SCI = spinal cord injury; PP = paraplegia; TP = tetraplegia; ns = not significant. *P-values from independent-sample t-tests.

Fig. 1a and 1b.

All exercisers AIS A-B (n=33) demonstrated higher levels of peak VO₂ max ml/kg/min and workload than the non-exercisers (n=14). Only the results for persons with paraplegia AIS A-B were statistically significant. Peak VO₂ max for exercisers versus non-exercisers were 22 versus 14 ml/kg/min for persons with paraplegia (p=0.01), and 11 versus 9 ml/kg/min for persons with tetraplegia (ns). For exercisers versus non-exercisers, max work load were 98 versus 64 watt (p=0.01) for persons with paraplegia and 19 versus 18 watt for persons with tetraplegia (ns).

Appendix 1

Self- Perception in Exercise Questionnaire, subscales SPEQ mastery and SPEQ

fitness

1 = Totally agree	3 = Disagree to some extent
2 = Agree to some extent	4 = Totally disagree

SPEQ mastery:

Somehow, I show what I am good for when I participate in physical activities	1	2	3	4
Physical activity gives me, among other things, a positive feeling of attaining something	1	2	3	4
Physical activity is important to me because it makes me feel I am in control of something	1	2	3	4
I think I am good at more types of physical activities than others	1	2	3	4
I think I can get away from daily stress of life by doing physical activity	1	2	3	4

SPEQ fitness:

Generally, I am not in good shape	1	2	3	4
It worries me somewhat that I don't manage to keep in good shape	1	2	3	4
I wish I was in far better shape than I am	1	2	3	4
