Proceeding

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Sport skills and mental health

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ABSTRACT

Raiola, R. (2015). Sport skills and mental health. J. Hum. Sport Exerc., 9(Proc1), pp.S369-S376. From a study previously published on the occasion of the scientific meeting of the International Conference on Sports Science and Disability held in Naples at the University Naval February 15, 2014, be clear that "It is appropriate to the study of a process for the effective implementation of these activities and connected to an objective evaluation tool". This work illustrates a practice used for a pilot project currently underway. Analysis of the practices used. Administering tests validated (FPS, POMS, tests Rockfort, measurement bmi) to an experimental group and a control group. They were also used additional assessment instruments calibrated for the specific use. Graphical representation of the data obtained. The analysis of currently available data is positive, this data will be compared with the final data to get a picture more complete. In Conclusions the data collected if confirmed by the end of the pilot project to encourage the creation of an experimental project in which they are involved more patients and more facilities in order to evaluate the results. Key words: VADO, FPS, POMS, TESTS ROCKFORT, MEASUREMENT BMI.

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INTRODUCTION

The use of physical and sport practice is used in a widespread manner in the world of mental health. The motor control in mental health issue has the basis in traditional theoretical and argumentative study (Raiola, 2014a), in the same way it can talk on learnings and sport skills (Altavilla et. al., 2014) and in games sport also for special needs (Gaetano, 2012ab).

Self-efficacy (Gomez Paloma et al., 2014) is the main aspects for special needs and mental health and is the basis to develop the strategy for inclusion. It is recognized as a valuable tool for the prevention and as a tool to improve the therapeutic compliance. Proves to be a useful tool for rehabilitation according to the method VADO-Evaluation Activities and Objectives Definition- (Biddle, 2000; Craft et al., 1998; Kurzthaler et al., 2005) mentioned in the guidelines for national treatment programs and has a positive effect in the Rating Scale (FPS Operation Personal and Social). The twelfth meeting of the SIEP (Italian Society of Psychiatric Epidemiology) which had as its theme the physical activity and sport in mental health describes these approaches as effective, but not efficient (Alberti, 2009), and too heterogeneous as finding the critical point of the difficulty of the practice is not unified and I 'absence of a network that puts in communication these realities. From a study previously published on the occasion of the scientific meeting of the International Conference on Sports Science and Disability be held in Naples at the University Naval February 15, 2014, be clear that "It is appropriate to the study of a process for the effective implementation of these activities and connected to an objective evaluation tool. From here started the study of a practice (Carozza, 2003), which is used for a pilot project currently underway in the context of physical activity and sport in a structure that deals with mental health in Nocera Inferiore (Salerno, Italy). The aim of the research is to describe the practices used, describes and analyses the partial results (since the project is still in progress) for a first evaluation which should then be integrated with the final results to determine whether to switch to an experimental project in which they are involved more patients and more structures.

Description of practice, administration of validated test (VPS, POMS, Walking Test) to an experimental group and a control group. Graphical representation of data. Practice: The patients were divided to two typologies.

- The first includes patients under treatment at the mental health center under a participation in the daily activities of the day care center. The patients of this group carry out their life outside of the mental health center and live alone or with family.
- The second group includes patients housed in facility.

MATERIAL AND METHODS

The needs of the two groups are different, for the first group socialization activities are targeted to the achievement of the state of form and preventive factors. For the second group the activities are aimed at primary prevention and tertiary education, since the patients of advanced age and with low interaction skills (Giuliani et al., 2005). Therefore we try to maintain the functional articulation, circulatory functions and stimulate cognitive functions. Patients in the first group have carried out three days a week. The activities were soccer, light jogging and fast walking. The objectives were to control weight, improve aerobic capacity and the relationship with his own body. The events were held in groups to promote socialization and the return to social life. In addition, through sport you can increase your score FPS (personal and social functioning), which describes the state of the disease but rather the quality of life of the patient that is projected to turn on the family. All patients in the first group have carried out the same activities. Patients in

the second group were divided into more specific objectives, the areas on which to work were as follows: general articular activation, maintenance and improvement of the functions aerobic, toning the major postural muscle groups, stimulation of cognitive and spatial system (prevention of accidents and falls). The activities have been agreed with the medical team and have created specific boards for the evaluation of the individual patient and for the monitoring of results, integrated into PTRI (Individual Rehabilitation Treatment Plan). The project duration is three months. In this study we evaluate the results obtained in the pipeline being in the middle of the total length. Were examined in 5 patients spending half a day and 5 patients guests in facility. Was identified the same number of patients with similar characteristics to be assessed as a control group. For this purpose, the following tests were administered before the start and at half-going activities:

For patient of half day therapy

- POMS test.
- Rockfort test.
- measuring BMI,
- scale FPS (personal and social functioning).

For users in charge of the facility were used as assessment tools:

- The time taken to traverse a path that contains all the elements of everyday life (walking, climbing stairs, sitting down and avoid bumping into objects).
- The time taken to stack type coins of different sizes.
- Participation in the exercise session.
- The ability to perform the exercises with an indicator from 0 to 10, where 10 indicates the proper execution of the exercises

The results obtained have been collected in the following tables and then graphed.

RESULTS

The results obtained have been collected in the following tables and figures.

Table 1. Results in experimental group

	Body Mass Index Rockport test (Perf. Ind.)					I = 7.0						
	Body Mass Index			Rockport	test (Perf	. Ind.)	Poms (dist	urbance	ScoreFps (da Vado)			
	initial inte	ermediate f	inal	initial inte	ermediate fin	nal	initial inter	mediate fi	nal	initial inter	mediate fii	nal
P1SD	24,7	24,6	?	34,7	44,5	?	100	86	?	64	69	?
P2SD	33,2	31	?	33,2	38	?	119	92	?	45	48	?
P3SD	29	28,1	?	36,4	42,1	?	110	93	?	42	49	?
P4SD	25	25,1	?	38,9	45	?	106	87	?	35	45	?
P5SD	32,1	31	?	35,5	39	?	95	75	?	54	59	?

	Course(time in seconds)			Part	icipati	on in exe	ercises	Perfororming exercises			Dexterity Test					
	initial	interme	ediate f	inal	initial	inter	mediate fin	nal	initial	inter	mediate fir	nal	initial	interme	diate fir	al
P1SR	33	0	290	?		6	7	?		7	9	?	30	2	265	?
P2SR	32	0	280	?		7	9	?		5	8	?	32	0	283	?
P3SR	33	4	286	?		7	9	?		7	9	?	35	5	290	?
P4SR	25	4	244	?		9	9	?		10	10	?	27	6	264	?
P5SR	26	0	250	?	93.63	9	9	?		9	10	?	28	3	277	?

The estimated time to complete the course	participation is evaluated by assigning a score and adding a score of 3 meetings. Values: 0 No participation parecipazione 1 until mid-2 activity participation for most of 3 full participation		Is evaluated once used to stack coins of different sizes
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Table 2. Results in control group

	Body	/ Mass Ind	ex	Rockp) Pom	Poms (disturbance scale)			ScoreFps (da Vado)			
	initial in	termediate fi	nal	initial	intermediate final	initial	inte	ermediate final	initial int	ermediate fir	nal	
P1CD	27	27,2	?	36,2	36,3		105	101	60	62	?	
P2CD	33,1	33	?	34,3	33		98	97	41	41	?	
P3CD	32,3	32,3	?	35,4	35,9		111	120	38	36	?	
P4CD	28,4	28,6	?	37,4	36,8		87	90	52	52	?	
P5CD	26,8	26,6	?	38,8	39,2		99	97	44	46	?	

	Cou	rse(time in seconds)	Participation in exercises			Perfororming exercises			Dexterity Test		
	initial	intermediate final	initial	intermed	liate final	initial	inter	mediate final	initial ir	ntermediate final	
P1CR	271	266	n.d.	n.d.	n.d.		7	6	281	279	
P2CR	299	283	n.d.	n.d.	n.d.		6	7	317	299	
P3CR	345	330	n.d.	n.d.	n.d.		6	6	384	378	
P4CR	274	280	n.d.	n.d.	n.d.		10	10	285	292	
P5CR	305	310	n.d.	n.d.	n.d.		7	7	333	326	

The estimated time to complete the course	participation is evaluated by assigning a score and adding a score of 3 meetings. Values: O No participation parecipazione 1 until mid-2 activity participation for most of 3 full participation		Is evaluated once used to stack coins of different sizes
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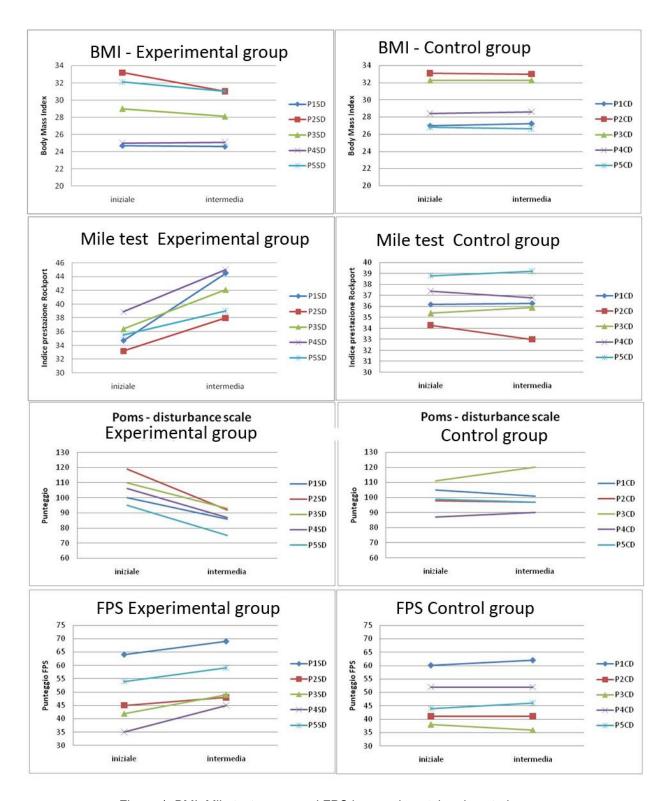


Figure 1. BMI, Mile test, poms and FPS in experimental and control group

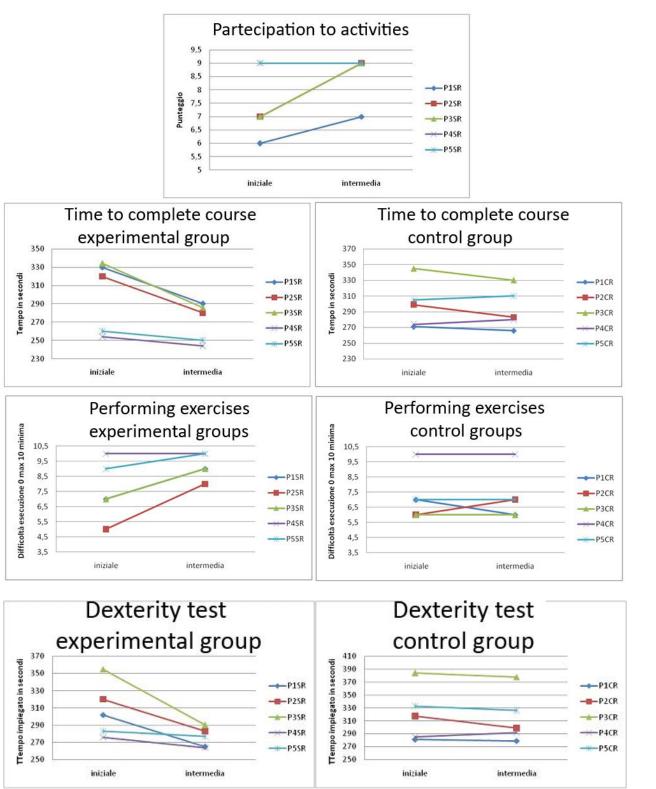


Figure 2. Participation, time to complete course, performing exercises and dexterity test in experimental and control group

DISCUSSION

Analysis of the data are deduced the following reflections:

- The BMI of the experimental group tend to be most stable and downhill while in the control group did not appear to have significant variations.
- The mile test show that patients in the experimental group improved their performance index compared to the control group.
- The POMS test that indicates the state of mind of the patient with respect to the external stress show a marked decrease in the "distrurbance scale" in the experimental group. This implies an improvement in mood not found in the control group.
- Scores FPS show that the experimental patients have had appreciable improvements compared to the control group.
- The time to complete the course and the test of manual dexterity were positively affected by the activities carried out in the experimental group.
- Patients in the experimental group demonstrated better to be able to perform the exercises and then be the subject of preventive activity.
- Patients resident in facility prove to be able to adapt to the administration of these new activities.

CONCLUSIONS

The data collected if confirmed by the end of the pilot project to encourage the creation of an experimental project in which they are involved more patients and more facilities in order to evaluate the results.

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