The Effect of a Psychomotor Program on the Degree of Self-Concept of the Mentally Handicapped

*Dr/ Al-Zahra Rashad Muhammad Introduction:

With the increase in the number of the disabled in the world significantly and significantly, especially in recent times, and after the spread of health factors that afflict the pregnant mother before and during childbirth and that cause disability, great interest emerged in the categories of the disabled at all levels, as the proportion of the disabled in the world today has increased to the equivalent of 13.5% of the total The world population with the beginning of the twenty-first century, and according to the estimates of the Agency Central for **Public** Mobilization and Statistics, it becomes clear that the estimated percentages of the mentally handicapped in Egypt for amounted the vear (2015)(131,637.4) children, and the mental (intellectual) disability represents the center of gravity in the types disabilities. where the rate retardation reaches Simple mental to 2.5% and severe 0.5% by 3% of the total population in the age of 6-16 years and up to 4% of the total number of children in Egypt, as reported in the UNICEF study (44)(45)(46).International and human rights provided the organizations, that disabled take their share of care, attention, rights and duties.

Disability is considered one of the important problems that require more

attention to confront it and work to find appropriate solutions for it in a scientific way so that it does not become an obstacle to the progress of society. (37: 7) (43)

Disability results in psychological effects that may cause major changes in the personality of the individual, for the individual collects all his internal and external experiences in light of his perception of his physical self, and most people plan for their lives based on their understanding of their physical self and any disability that threatens the person in his present and future and leads to disruption of his human capabilities and thus raises his fears And his anxiety, many psychological effects may occur, such as an excessive feeling of inferiority, powerlessness, insecurity, and excessive defense. (1:46) (149: 2) (7: 9) (41:12)

The problem of mental disability is one of the unique problems that cannot be similar to another of the problems of disability because it is multidimensional and its dimensions are medical, social, psychological and professional, which makes it a unique problem, and its difficulty lies in the possibility of its occurrence from birth to the first eighteen years of life and its effects appear. In the academic, social, professional and other fields of life. (13:11) (19: 62) (647: 33)

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And since sports practice is thanks the situations it allows to interaction with oneself and with the group, the civilized nations have paid attention to sports recreational activities for the normal and the handicapped alike in order to benefit from them in the advancement of the individual physically, mentally and spiritually and to awaken and revitalize social awareness. especially activities practiced by the disabled, which make them feel the need for the group And the value of cooperating with it, as we make them accustomed to abiding by the laws and obeying them, and thus interacting with the group. (184: 13)

If sports recreational activities represent an important and useful aspect in developing many aspects of the normal, then it is an inevitable necessity for the mentally handicapped because it has an attractive and favorable effect on their souls. Many Arab and foreign references indicate that mentally handicapped children suffer from many psychological problems and they have many The needs of a greater proportion of normal children, as behavioral problems arise from the difference between the child's abilities to achieve and the requirements of the environment in which he lives, and it is necessary for there to be a compatibility between the child's environment and his school and his ability to learn and achieve, as the amount of stimuli that the child is

exposed to is The basis for shaping his personality and behavior. (13: 222) (28:45) (47: 178)

The philosophy behind physical activity and its usefulness for this group lies in providing suitable opportunities for them to participate in recreational sports activities and various group games, which contributes to positively changing their self-image as well as increasing their integration as their normal counterparts alike, so the researcher chose to design the use of recreational games. To know its impact on the self-concept of the mentally handicapped. (48: 354-358)

Research goal:

The research aims to identify the effect of a psychomotor program on the degree of self-concept of mentally handicapped people through: -

- 1- The significance of the differences between the pre and post measurements of the experimental group in the concept of self among the mentally handicapped.
- 2- The significance of the differences between the control and experimental groups in the self-concept of the mentally handicapped.

Research hypotheses:

- 1- There are statistically significant differences between the pre and post measurements of the experimental group in the self-concept of the mentally handicapped in favor of the post measurement.
- 2- There are statistically significant differences between the two experimental control groups in the self-

concept of the mentally handicapped in favor of the experimental group.

Scientific terms used in the research: Self-concept:

It is the individual's perception of his adequacy in social, cognitive and physical situations. (14: 8) (40:26)

Handicapped:

It is every individual who differs from who is called a word other than or ordinary, physically, mentally, psychologically, or socially to the extent that it inspires special rehabilitation processes in order to achieve the maximum adaptation that his remaining abilities or capabilities allow. (37:26)

Search procedures: - Research Methodology:

The researcher used the experimental method by designing two groups, one experimental and the other controlling for its relevance and the nature of this study.

The research sample:

The study was carried out on (28) children who are mentally handicapped (who are able to learn) and whose IQ ranges from (50-70 degrees) and their mental age ranges from (8-10) years, and the chronological age is between (15-18) years, in Minya School of Intellectual, And they were divided into (8) children for an exploratory study, (20) children for the basic study by (10) children for each of the experimental group and the control group, and the following took into account when choosing the sample:

They do not have any movement disabilities or physical illnesses, nor do they have minor or major seizures.

- All members of the sample are male, in order to ensure that sexual problems between boys and girls are avoided. Sample homogeneity:

The homogeneity was conducted among the sample members by finding the torsion factors in age, height, weight and IQ on 9/20/2019, which is shown in Table (1).

Table (1)
The arithmetic mean, standard deviation, and torsion coefficient value of the research sample in age, mental age, height, weight, and IQ (n = 20)

Variables	SMA	standard deviation	Coefficient of torsion
Age	12.89	1.52	1.86
Mental age	5.14	1.37	1.28
Height	146.94	1.21	0.81
Weight	62.78	1.61	1.68
IQ	61.08	7,11	1,48

It is evident from Table (1) that the values of the torsion coefficients of the research sample in the variables of age, height, weight and IQ ranged between (0.81 - 1.86) and that they were confined to (+ 3, -3), indicating the moderation of the distribution of the research sample in these variables.

Equivalence of the sample:

The equivalence of the two groups of research in the variables (under investigation) was found using Wilcoxon's coefficient, on 7/10/2019, and Table (2) shows that:

Table (2) The arithmetic mean, standard deviation, and (Z) value between the experimental and control groups in pre-measurement in age, mental age, height, weight, IQ and self-concept (N=20)

	Experi	mental	Con	trol	Value (Z)	
Dimensions	S	Е	S	Е	Calculated	
Age	16.78	1.43	16.94	1.64	0.024	
Mental age	9.10	1.32	9.18	1.41	0.031	
Height	157.05	1.24	156.85	1.11	0.014	
Weight	72.72	1.58	72.83	1.62	0.016	
IQ	61.17	7,06	60.98	7,16	0.023	
Self concept						
Realistic self	113.17	1.19	114.24	1.84	0.026	
Self-acceptance	86.55	1.56	85.24	1.92	0.011	
Perceptual self	99.14	1.64	100.04	1.77	0.020	
The physical self	65.18	1.53	66.38	1.34	0.018	
The moral self	64.91	1.82	65.72	1.65	0.021	
The personal self	54.18	1.19	55.12	1.12	0.031	
The family self	61.87	1.53	62.43	1.86	0.019	
The social self	60.04	1.82	60.58	1.54	0.010	
Self-criticism	30.88	1.09	31.02	1.22	0.015	

(Z) tabular value = 0.042

It is evident from Table (2) that there are no statistically significant differences between the experimental and control groups in age, mental age, height, weight, IQ and self-concept, which indicates the equivalence of the two research groups.

Data collection tools:

Self-concept scale (to forget): Attachment (1)

The researcher used the Tennessee Self - Concept Scale after presenting it to psychology experts (attached 3) to express an opinion on its suitability for the sample under study. 80% of them agreed on its suitability for the sample under study.

Program goal:

- Work to ensure that the mentally handicapped acquire physical fitness.
- Providing the mentally handicapped person with a wide variety of skills.
- Work to develop a positive selfconcept in this category.

General principles for developing the program:

Comprehensive development:

A set of exercises and small games aimed at developing body parts and thus performance includes moving different parts of the body through the program, as well as developing some different physical characteristics such as strength, flexibility, compatibility

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and accuracy due to its great importance for the mentally handicapped individual.

Taking into account the intellectual disability of the children in question:

When developing the proposed program of mini-games, the researcher took into account that it be in line with the percentage of intellectual disability and take into account that the contents of the program suit the abilities of children, as it is characterized by simplicity, ease, and the possibility of performance for all.

- Clear explanation: the researcher sponsored to explain the contents of the program using simple and clear words appropriate to the degree of intellectual disability and the level of abilities in order to be properly understood.
- That the individuals have security and safety factors.
- Taking into account the continuity of the implementation of the program.

- That the content of the units work to feel pleasure and happiness and get rid of boredom and tension.
- Taking into account the change and diversity in the paragraphs of the program activities.

Principles of developing the program:

In preparing the program, it was taken into account that it includes various types of recreational minithat contribute the games development of the muscular aspect as well as the development of a positive self-concept among the mentally handicapped through the practice of sporting recreational activity. The amendment was made in light of the opinions and suggestions of the experts, and thus the program became valid for implementation. The following table shows the percentage of experts' approval of the proposed program attempt: -

Table (3)
Percentage of expert opinion on the time distribution of the proposed program (n = 10)

S	Axis	Expert opinion in agreement	%
1	Program Duration (10 weeks)	9	90 %
2	Number of units (two units per week)	10	100 %
3	Unit time (45 minutes)	10	100 %
4	Time for the introductory part and introduction (15 minutes)	8	80 %
5	Core segment time (25 minutes)	9	90 %
6	Closing and Cooling Down Time (5 minutes)	9	90 %

It is clear from Table (5) that the percentage of experts 'opinions about the time distribution of the program ranged between (80% - 100%), and the researcher agreed to accept a rate of 70% or more, based on previous studies.

Presentation and discussion of results:

Through what this research aims to identify "the effectiveness of the psychomotor program on the self-concept of the mentally handicapped," and through the scientific procedures that were followed to achieve this goal, the researcher presents his findings:

Table (4)
The arithmetic mean, standard deviation, improvement percentage, and (Z) value between the pre and post measurements of the experimental group of self-concept (n=20)

Dimensions of	Pre measure		Post me	easure	Improvement	The
the Self-Concept Scale	S	E	S	E	percentage	computed (Z) value
Realistic self	113.17	1.19	137.33	1.81	21.35%	0.052
Self-acceptance	86.55	1.56	113.82	1.88	31.51%	0.063
Perceptual self	99.14	1.64	124.84	1.76	25.92%	0.059
The physical self	65.18	1.53	94.56	1.32	45.08%	0.089
The moral self	64.91	1.82	89.14	1.64	37.33%	0.069
The personal self	54.12	1.19	75.78	1.11	40.02%	0.077
Familial	61.87	1.53	88.56	1.85	43.14%	0.083
The social self	60.04	1.82	83.17	1.55	38.53%	0.072
Self-criticism	30.88	1.09	42.82	1.21	39.05%	0.074

(Z) tabular value = 0.042

Table (4) shows that there are statistically significant differences between the pre and post measurements of the experimental group in favor of the post measurement in all dimensions of the self-concept.

The arithmetic mean, standard deviation, percentage improvement, and (Z) value between the two experimental groups The dimensional control in self-concept (n=20)

Table (5)

Dimensions of	Experimental		Control		Improvement	The computed
the Self- Concept Scale	S	E			percentage	(Z) value
Realistic self	137.33	1.81	118.33	1.92	16.06%	0.044
Self-acceptance	113.82	1.88	91.81	1.61	23.97%	0.057
Perceptual self	124.84	1.76	104.67	1.53	19.27%	0.050
The physical self	94.56	1.32	71.49	1.48	32.27%	0.063

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Follow Table (5) The arithmetic mean, standard deviation, percentage improvement, and (Z) value between the two experimental groups The dimensional control in self-concept (n=20)

Dimensions of	Experimental		Control		Improvement	The computed
the Self- Concept Scale	S	E			percentage	(Z) value
The moral self	89.14	1.64	71.09	1.84	25.39%	0.058
The personal self	75.78	1.11	61.58	1.37	23.06%	0.055
Familial	88.56	1.85	70.37	1.94	25.85%	0.059
The social self	83.17	1.55	67.21	1.75	23.75%	0.056
Self-criticism	42.82	1.21	35.51	1.39	20.59%	0.051

(Z) tabular value = 0.042

It is evident from Table (5) that there are statistically significant differences in the measurement and dimension of the experimental and control groups in favor of the post measurement of the experimental group in all dimensions of the selfconcept.

It is evident from tables (4) and (5) that there are statistically significant differences between the pre and post measurements in all dimensions of the researcher self-concept, and the attributes these statistically significant differences between the pre and post measurements of the experimental group and in favor of the post to the practice sports recreational activities, especially for the mentally handicapped group, which helps To increase the psychological balance of the individual, which is determined on the basis of the extent of integration between the energies of the body and the mind and his abilities to carry out the duties surrounded by him by society and his abilities to adapt, produce and achieve self and establish

social relations that enable him to meet the demands of life and that helps him to feel contentment and pleasure and the means that achieve a better level From the psychological health and emotional balance of the mentally handicapped, and this is what the study practice confirmed that the recreational games is an important factor affecting self-concept and also the study of "Nermin Ahmed Abdel-Sabour" 2007 AD (31) on the effect of the recreational program on the degree of personal and social compatibility among the handicapped, which resulted in the results that The program proposed increases the percentage of improvement for the experimental group in personal and social compatibility, as is evident as well That the dimension of the real self-came in the first order, followed by the perceptual self in the second order, then the self-acceptance in the third order. This means that the proposed recreational program has a positive effect on the degree of the real self, through the practice of sporting

recreational activities that provide the individual with a sense of happiness from psychological freedom tension and so on. These activities have positive effects on the physical, psychological and moral aspects of the disabled. as they gain many psychological and social values such as leadership, dependency and confidence, as well as the fun and challenge that it represents competition in winning and excelling (12: 284) (24: 95) (40: 76- 79)

The results of this study also agree with Magda El-Sayed Mahmoud (2000 AD) (20),who confirmed that practicing buds activity as an educational promotional stimulant has a positive effect on some aspects of growth and behavior for both the level of motor, social, moral and cognitive development of pre-school children from the age of (4-) 6 years) and the results of this study also agree with the results of Adel Saad Khalil (1992) (10) study, which indicates the importance of the counseling program in play and the effectiveness of using play in modifying behavioral problems, and these results are also consistent with the results of the study of Muhammad Mahmoud Abu Zaid (2004 AD) (25) Malik Ahmed Abdel Aziz (1993) (29) on the importance of the kinematic story and the group play program in improving the level of motor fitness, developing innovative thinking and reducing behavior. These results are consistent with the results of the study of Azza Abdel Fattah Lashimi (1995 AD) (14)until The mini-games program has a positive effect on some elements of physical fitness, as it is suitable for the mentally handicapped category and helps to learn motor skills, in addition to it gaining the disabled many skills that enable him to enjoy his spare time and increase his motor abilities that are an essential aspect of self-concept. This result is consistent with the study of Amal Mahrous (2002) (4) and Nermin Abdel Sabour (2007) (31) on the importance of practicing sports activities and its role in the integrated development of the mentally handicapped person, and researcher believes that encouraging and constantly motivating children and urging them to perform and encourage any improvement Even if it was slight, as well as the gradual transition during the implementation of the program and making every child boast of his success, as it was possible to rely on them to bring tools and return them, and they became daring to speak without fear or shame, and a constant desire to win. (25: 164-171)

Conclusions:

In light of discussing the results, the researcher reached the following conclusions: -

- 1- The psychomotor games program has a positive effect on developing the self-concept of the mentally handicapped.
- 2- There are statistically significant differences between the pre and post measurements of the experimental group in the development of self-concept and in favor of the post measurement.
- 3- There are statistically significant differences between the experimental and control groups in post-measurement in developing self-

concept and in favor of the experimental group.

4- Children who belong to socially average environments and whom the family depends on in the conduct of their lives and giving them the opportunity to deal with simple cash in buying and selling increases their social intelligence and dependence on themselves.

Recommendations:

Through the conclusions that could be reached, and within the limits of the research sample, the researcher recommends the following: -

- 1- Application of the proposed recreational program on the different categories of mental disability because of its positive impact on the development of their self-concept.
- 2- The use of psychomotor games in developing the self-concept of the mentally handicapped.
- 3- Using psychomotor games with other disabilities.
- 4- Using psychomotor games with mentally handicapped children in different age groups.
- 5- The application of the proposed psychomotor games within the various centers for the disabled and intellectual schools because of its importance in developing the self-concept of the mentally handicapped.
- 7 Supporting the positive self-concept of mentally handicapped people by stimulating their motivation to participate in recreational programs.
- 8- Providing qualified leaders to work on developing positive self-concept among mentally handicapped people.
- 9- Conducting more scientific research to study the relationship between self-

concept and aspects of sports activity for the mentally handicapped.

10. Directing the guardian of the mentally handicapped child to provide the opportunity to increase the child's social contact in the home and the surrounding community and to increase his dependence on himself to develop his social skills.

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