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The Effectiveness of instructional program the level of performance for shot put skill for deaf-mute students

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***Introduction and research problem:**

The modern world witnesses rapid, successive changes and a growing, spectacular scientific and technical revolution which led to a change in the concept of modern education and became our approach to the relentless pursuit to the development of education based on educational technology through what it presents of valuable ways to deliver information and skills development in an effective manner, besides its ability to provide a flexible and powerful educational environment and this will have a far-reaching impact on the advancement of education and learning. **(31: 25)**

Mohammed Baghdadi (1998) mentions that, technological innovations may become increasingly important to increase the data of the educational process and that the impact of the increasing development of knowledge and the steady increase in human experience and in the super acceleration through technological development in general ,the education technology, teaching and learning technology in particular made the education technology necessary for all learners at all stages of education to raise the level of efficiency and effectiveness of the educational process Hence, new methods in the education system of which appeared individual learning style and a method of self-learning and what is known as Hyper-card , interactive video and the effective text has also led to the emergence of sophisticated and advanced generations of mechanisms and technologies of computers which have a permanent progress and that led to the emergence of many technological innovations such as, hypermedia. **(48: 237)**

The degree of scientific and human progress at the world is measured through the orientation to care for the children with disabilities of different categories, and the provided services to

care for them in various spheres of life and associated conditions of their disability, and more recently the area of the disabled has become a fertile ground for the race the developed countries to invest the energies of the disabled as an indication of civilization and progress.

The number of hearing-impaired and the enrolled in Hope schools in Egypt reached 8507 person with ratio 45.2% of the total number of the students enrolled in special education. This percentage is still small relative to the total disabled children in Egypt whose number about six million children this means a percentage of 0, 14%, according to international statistics this percentage up to 1.4% of the total number of the deaf in Egypt. Hence the need to show more interest from the governmental or non governmental educational institutions or to care for these groups of people with special needs or the challenger the disabilities, whose number is about 600,000 deaf. **(1: 150)**

Because of the researcher's sequential visits to Hope Schools for the Deaf and Hard of Hearing through education period process while studying in the diploma (professional for Special Education (hearing disabilities) Division and watch the real fact that there are shortcomings in the use of technological innovations in teaching in addition the curriculum of physical education, which is taught Hope Schools of is the same curriculum taught in the schools of the fit and the educational methods used do not fit with them due to the lack of full understanding of their nature and how to improve their mental abilities and motor achievements. The teaching methods, whether for the hearing impaired or normal are the same , and only differ in the use of hand signals and verbal without any special considerations for those category, and the physical education teacher in the schools of the disabled set (deaf and dumb) does not require the availability of certain professional conditions in teacher such as access to special courses qualify

him to deal with that category, and that has a significant impact on the lack of real learning in the teaching process.

Hence the researcher found it necessary to complete the previous steps for researchers to keep pace with technological innovations and use one of the methods of modern teaching in physical education and the need to take advantage of the potential of teaching and learning technology and for use by the systematic way design various and effective learning environments in motor learning in general and athletics in private. This made the researcher design educational software using hypermedia to suit the conditions of that category (hearing impaired) and introducing better possibilities through which the use of all the senses in the learning process and help them to increase their knowledge achievement and in the performance of their skill of shot put.

*** Research goal:**

Research aims to design educational software using hypermedia style and knowledge of their impact on:

- Technical performance level of the skill of shot put in the search sample.
- Knowledge collection level of the skill of shot put in the research sample.

*** Research hypotheses:**

In the light of the objective the researcher puts the following assumptions:

- There are statistically significant differences between the averages of the two, pre and post measurements of the sample for the benefit of the post measurements in the performance level of technical skill of shot put for the hearing impaired.
- There are statistically significant differences between the averages of the two, pre and post measurements of research sample for the benefit of the post measurement in the cognitive achievement of the skill of shot put for the hearing impaired level.

*** Research procedures:**

Research methodology

The researcher used the experimental method because of the suitability of the nature of this research with the assistance of one of the experimental designs which is the experimental design for one group using pre and post measurement.

The research sample:

Students sample was selected in intentional way from the third year of Al Amal Hope for the Deaf and Hard of Hearing preparatory school in Banha governorate of Qaliubiya for the academic year 2014-2015. The students sample totally was including 24 students. The researcher ruled out 11 female and 5 male students because of their non compliance with attendance or rest for reeducation . So the basic sample consisted of research 8 students from the original community (experimental group).

A pilot sample taken from the third year of Al Amal Hope for the Deaf and Hard of Hearing preparatory school in Shebin El Koom Menofia governrate for the academic year (2014/2015) and number 20 pupil who are outside of the core sample.

*** Research Tools:**

- Tools to denote growth rates: (age - length - weight)
- Tools to denote the physical abilities: (muscle strength - flexibility - Compatibility - balance - Fitness)
- Questionnaire of the technical evaluation of the performance level of the sample under consideration by the arbitrators.
- Test of Cognitive achievement of skill of shot put designed by researcher.

*** Basic research experiment:**

After ensuring the availability of all the conditions of the transactions and scientific test and skill level cognitive achievement under the junior high school students and the prepared educational programming as well as the completion of all formalities for the implementation of the research experiment, the researcher with the following

Pre measurements:

The researcher conducting the pre measurement for experimental group in the performance level of technical skill of shot put through a sample search filming during skill performance under then display videos for the gentlemen arbitrators, and a pre measurement level of cognitive achievement in skill pay shot put through the test of cognitive achievement of design and researcher on Thursday (02/10/2014) before the implementation of the tutorial.

Implementation of the basic experiment of the research:

The researcher apply the educational program through the proposed educational software using hypermedia technology on the research sample, and that in the period from Wednesday (10/08/2014) to Sunday (02/11/2014) has been the application of the experiment took four weeks by two units a week (on Wednesday and Sunday) and time module take about 45 minutes.

Post Measurements:

After the completion of the period prescribed for the implementation of the basic experiment of the research. the researcher made post measurement on the sample of the research in the level of performance technical through questionnaire to evaluate the performance of technical and show it to arbitrators on Cd . This was on Tuesday (11/04/2014) .Also there was post measurement to level of knowledge collection through cognitive test designed by the researcher on Wednesday (11/05/2014). the researcher collected the results after the completion of the educational program ,tabulated it and processed statistically.

*** Statistical Processing :**

After the finishing of the post measurement , the measures were collected and scheduled to estimate :

- The arithmetic mean.
- The difference between two means.
- The coefficient correlation.
- The easiness and difficulty coefficient.
- The Factor discrimination.
- The normal deviation.
- The correlation coefficient
- The (T) test.