# The Effect of Using Hypermedia-Supported Individualized Education on the Level of Technical and Quantitative Performance in High Jump Event \*Dr/ Shaimaa Mustafa Abdullah Ali Abstract:

This research aims at writing a suggested educational program based on hypermediasupported individualized education style and identifying its effect on the level of technical quantitative and performance in high jump event for the second-vear undergraduate students at the Faculty of Physical Education for Girls, Zagazig University. The researcher has conducted an empirical study on a sample of (48)second-year undergraduate students at the Faculty of Physical Education for Girls, Zagazig University. They were divided into two groups, an experimental group and a control group (command teaching style), of (24) students each.

The research tools included: intelligence test – physical tests – assessment and measurement of the level of technical and quantitative performance in high jump – the suggested educational program based on hypermedia-

supported individualized education.

The researcher has used the following statistical processes: arithmetic mean – standard deviation – median – skewness - simple correlation coefficient – T test – rate of improvement %.

#### **Key results:**

• Hypermedia-supported individualized education has more efficiency than command teaching style on the level of technical and quantitative performance in high jump.

#### **Recommendations:**

• The necessity of using hypermedia-supported individualized education in learning and mastering high jump skills for the second-year undergraduate students at the Faculty of Physical Education at Zagazig.

## **Introduction and problematic:**

The individualized learning is a method of managing the educational process in a way that involves the learners in the educational tasks that suit their own needs and levels. It could be an

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approach that allows them to study the educational subject in accordance with their own abilities and rapidity learning under the supervision of a teacher who assists them in solving the issues they encounter during their studies to achieve in order the educational objectives. The individualized learning modern trend in teaching styles which depends on the fact that teachers commit most mistake by explaining the lessons in a manner that suits the intermediate-level learner. while such manner does not necessarily suit the abilities of low and high level learners, which implies that we should take the individualized learning into consideration.

Kevien Oliver (2000) Emck & Ferguson (2005) agree that individualized education (Keller Plan) is an educational system which is based on the division of the educational curriculum into a series of little modules (educational modules) to be handled separately. Each module contains determined educational objectives that the learners should know in order to identify what is expected from them and be able to focus on the key points the

curriculum. Such method excludes exams panic bv allowing the learners to have a makeup exam in order to give self-enhancement them and make them feel happy and satisfied. Furthermore, in this educational system, students do not undergo punishment when they don't pass a certain module exam: however. mastering the educational course is indispensible, as the learners are obliged to achieve a certain level of mastery.

Hypermedia is one of the modern educational technologies. It's educational plan that can be used in the linear transmission of information. It involves the learner's senses. sight hearing, and provides interaction between the learner set ofeducational and a multimedia which on information have been stored in the form of written texts. animated and static shots. animations and static images, films, consistent colors, audio recordings, music, all of which can be easily and rapidly controlled in a way that allows the learner to make logical associations, which make it easier to pass, skip and move freely, in a non linear way,

between the different parts of the information and to control the exchange of all or part of the information which has been stored and broken down into little parts by means of the computer in order to achieve the educational goals of the educational program in a competent and efficient manner.

High jump is an event which is characterized by its beautiful movement rhythm, its agility and flexibility. This can be figured out by both the competitor and the audience and demonstrates through the special event's techniques which passe through some specific motor stages (approach, take off, flight and landing).

By teaching the program of track and field events to the second-year students at the Faculty of Physical Education for Girls, Zagazig University, the researcher has noticed a decrease the level of in technical and quantitative performance of high jump the second-year among undergraduate students at the faculty. This may be due to the difficulty of teaching high jump events as it requires good co-ordination motor and

perfect sequencing and combination of body movements during the performance, which requires of efforts during teaching process, in addition to the use of command teaching style which depends on a single source of knowledge; verbal explanations followed by the representation of the model by the teacher, without any active participation from the student in the educational situation. In addition, some learners may not follow-up the explanations or find it difficult to understand what is required from them. Others may not be able to see the model clearly and accurately.

Hence has emerged the main idea of this research as a scientific attempt to identify the effect of using hypermediaindividualized supported level learning the on quantitative technical and performance in high jump for the second-year students at the Faculty of Physical Education for Girls, Zagazig University.

#### Research goals:

The research aims at putting a suggested educational program based on hypermediasupported individualized learning and identifying its

impact on the level of technical and quantitative performance in high jump for the secondyear undergraduate students at the Faculty of Physical Education for Girls, Zagazig University.

#### **Research hypotheses:**

- There are statistically significant differences between the averages of the post and pre tests of the (low level high level) experimental group in terms of the level of technical and quantitative performance in high jumping skill in favor of the post test.
- There are statistically significant differences between the post and pre tests of the (low level high level) control group in terms of the level of technical and quantitative performance in high jumping skill in favor of the post test.
- There are statistically significant differences between the post tests of both the (low level high level) experimental and the control groups in terms of the level of technical and quantitative performance in high jumping skill in favor of the experimental group.

# Research procedures: Methodology:

The researcher has conducted an empirical research using the experimental design of two groups: an experimental group and a control group, given that this method suits the nature of the research.

#### **Population and sample:**

Bymeans of the purposive sampling, the researcher has chosen (63)second-year undergraduate students at the Faculty of Physical Education for Girls, Zagazig University from a total research population of (265) students for the academic year 2013/2014), in the rate of (23.77%).

(15) Students were excluded for the exploratory study, so the basic research sample would be (48) students divided into two groups: an experimental group and a control group of (24) students each.

# Division of the research's two groups:

The students' results in the research's two groups were sorted in an ascending order in terms of their technical and quantitative performance in high jump. Afterwards, the individuals of the two groups, both the experimental and the control group, were divided into two levels (low level – high level), as shown in table

Table (1)

(1).

## Division of the individuals of the experimental and the control group in relation to the level of technical and quantitative performance in high jump

	The experim	nental group	The control group		
Description	Low level High level		Low level High lev		
Number	14 10		13 11		
Total	2	4	24		

# Equivalence between the research's two groups:

The researcher has assured equivalence between research's two groups: the (low level - high level) experimental and control group in terms of variables the under consideration. This was done after calculating the coefficients (validity reliability) of the physical tests and the intelligence test under consideration.

#### **Data collection tools:**

# First: Physical tests under consideration:

- Vertical jump test
- 30-m run with a standing start test
- Dome test in order to measure the backbone's vertical flexibility

Second: Evaluation of the level of performance of high jumping skills:

A feedback form has been designed by the researcher in order to evaluate the level of performance of high jumping skill. The form's coefficients (validity – reliability) have verified before been application and this bv submitting it to a group of specialists in track and field events. The results have shown the examiners that agree (100%) on the form, which demonstrates the validity of the form. Also. the reliability coefficient of the form has been calculated by applying the form and then re-applying it (7) days after the first application. The form's coefficient reliability has reached (0.902); the skill was rated out of (10)points distributed as follows:

- Approach (2 points)
- Take off (3 points and half)

- Flight (3 points and half)
- Landing (one point)

The level of performance of high jump has been evaluated by (3) experienced examiners in teaching track and field events, each one of them gave a mark to the student, and afterwards we calculated the average of all three marks.

# Third: Measuring the quantitative level in high jump

The researcher has measured the quantitative level in high jump in accordance with the rules of IAAF - International Association of Athletics Federations.

# Fourth: Intelligence test / prepared by Mr. Essayed Mohamed Khairy (1989) The suggested educational program based on hypermedia-supported individualized learning

The educational program's general objective:

• Learning and mastering high jumping skill for the second-year undergraduate students at the Faculty of Physical Education for Girls, Zagazig University (low level and high level experimental groups).

# Basis for putting the educational program:

The researcher has put the suggested educational program in accordance with the following scientific basis:

- The program content's logical sequence shall be suitable for its objectives and for the properties of the research sample.
- The information of the educational program shall be given in a comprehensive, correlated and effective manner which involves all the learner's senses.
- The program content shall challenge the learners' abilities and potentials, all while respecting the individual differences and increasing their motivation to learn.
- The form and size of the animated photos, videos and cognitive text shall be adapted to the screen size.
- All graphics, photos and videos shall be displayed by computer besides the cognitive text.
- the researche has conducted some drilles (EX)
- 1-running : increase intensity of workout over time ,develope good sprint mechanicas ,moe sprint drills with high jump technique .

- 2-approach : straight line rhythm approach 1"2"3....1"2"3....jump ,aapproach with bar lying on graund, foot strike and bady lean feel the preasure, focus on traneition into curve with cross over step.
- A(take off point ): depends on speed of apprdach and strength of jumper, more marrour approaches create greater centripetal force and faster rotation about the bar
- B(the curve): imtiate curve on 6th step,left footed turn right slightly on 6th step, 6th step should a slight croes over to mid line of bady,feel preasureand run around the curve is should lower center of mass,puah through the turn.
- 3-(over the bar): standing back over, from ground on box, 4 or 6 step jump from a ranp, focus rotale right knee out, drive head and shoulders toward back side of the pit.
- The learner shall work on the computer, choose from the table of contents and navigate in the program by herself in accordance with the required educational level.
- The learner shall be able to determine the routing and path she has to follow, the

- amount of information she has to recall and control her rapidity of learning in the program.
- The program shall progress from easy to difficult in accordance with the level of each student.
- The program shall be diversified, comprehensive and simplified in order to cater to the students' motor needs.

## Determining the level of the educational software

The process of choosing the content is one of the most difficult steps in building an educational software. difficulty consists in choosing facts. concepts information specific to high jumping skills as well selecting the videos. illustrations for the stages of performance of the skill under consideration, music tracks and other chosen educational materials and tools, organizing it in a specific pedagogical manner and identifying wav trajectory in a contributes to the achievement of the educational program.

# Stages of software production:

 Preparing the program's scenario in its primary form: The program's scenario has been prepared in light of the general desired objectives and the educational curriculum specific to high jumping skill. It was presented to a group of specialists in track and field events and teaching methods from the members of the teaching staff at the Faculties of Physical Education, and this order to explore their in opinions the program's on general objective, purposes, basics. contents. scientific the software's accuracy, presentation style and the program's applicability. The experts have highlighted the necessary modifications for the to be effectively program applicable.

# **B-** Preparing the final form of the program's scenario

The researcher has undertaken the necessary modifications as pointed out by the experts. The program's scenario was resubmitted to the experts after modification. After the researcher had explored the experts' opinion, it was shown that they have (90, 00%) agreed on the scenario in its final form. and thus the software was ready to implement in its final form.

# Schedule of the suggested educational program:

- The duration of the application experience will be (6) weeks.
- The duration of each lecture shall be (90) minutes which is the typical duration of practical lectures at Faculty. (45) Minutes were dedicated for the implementation of the educational suggested program. The remaining time of the lecture (45) minutes was dedicated for teaching remaining curriculum of track and field events for the secondyear undergraduate students at the Faculty.
- Number of modules: (2) modules per week.
- Number of modules: (12) modules in the educational program.
- The lecture's total time for the experimental group was divided as follows: (interaction with the educational software 10 min.), (physical warm-up 10 min), (practical application / trainings 25 min.).
- The lecture's total time for the control group was divided as follows: (model and verbal explanations 10 min.), (physical warm-up 10 min.), (practical application / trainings 25min.).

#### **Pre tests:**

Before calculating the pre tests, the researcher had taught two educational modules for the of individuals the basic research sample so that all the individuals of the sample could reach a specific level starting from which the researcher would be able to conduct the pre tests and this for the period from 25/02/2014 10/03/2014. Afterwards. the researcher conducted the pre tests for the (low level - high level) experimental and control groups in terms of their level of technical and *auantitative* performance in high jump for the period from 11/03/2014 till 12/03/2014.

# Implementation of the suggested educational program

The educational program's content was implemented by means of

hypermedia-supported

individualized education on the individuals of the (low level – high level) experimental group for (6) continuous weeks, and this for the period from 12/03/2014 till 24/04/2014. Also, the traditional style was followed with the (low level – high level) control group.

#### **Post tests:**

The researcher has calculated the post tests for the (low level high experimental and control groups in terms of their level of technical and *auantitative* performance in high jump, for the period from 27/04/2014 till 29/04/2014. following same order and conditions of the pre tests.

## Presentation and discussion of results:

**First:** Presentation and discussion of the results of the research's first hypothesis:

## Table (2)

# Indication of the differences between the pre and post tests of the (low level) experimental group in terms of the technical and quantitative performance in high jump N=14

T	Post test		Pro	e test	Unit of	Variables
value	dependant	independent	dependant	independent	Measurement	
11.37*	0.51	6.48	0.55	1.00	Mark	Level of technical performance in high jump
18.24*	4.29	125.36	5.12	75.64	Cm	Quantitative level of high jump

<sup>&</sup>quot;T" value in the schedule is at 0.05 = 2.160 significance level

<sup>\*</sup> Statistically significant at level 0.05

As table (2) shows, there are statistically significant differences at level 0.05 between the pre and the post tests of the (low level)

experimental group in terms of the technical and quantitative performance in javelin throw in favor of the post test.

 $Table \ (3)$  Indication of the differences between the pre and post tests for the (high level) experimental group in terms of the technical and quantitative performance in high jump N=10

T	Post test		Post test Pre test		Unit of	Variables
value	dependent	independent	dependent	independent	Measurement	
13.91*	0.49	7.00	0.53	1.20	Mark	Level of technical performance in high jump
21.18*	5.75	130.00	5.11	76.00	Cm	Quantitative level of high jump

<sup>&</sup>quot;T" value is at 0.05 = 2.262 significance level

As table (3) shows, there are statistically significant differences at level 0.05 between the pre and the post tests of the (high level) experimental group in terms of the technical and quantitative performance in high jump in favor of the post test.

The researcher attributes the improvement of the level of technical and quantitative performance in high jump among the individuals of the level high (low \_ level) experimental group to the use hypermedia-supported individualized teaching by the of the means suggested educational program in which the researcher has respected the

individual differences between the learners and their ability to learn. She has broken down the skill into small parts in light of its logical sequence in an organized and consecutive linked manner and them linearly in the form of photos, videos and shots from high international iump competitions. All this has helped the learners to learn rapidly thanks to the attractive educational atmosphere; given that computer is one of the most important devices that could help students to interact with each other and with the educational curriculum in a learning process that provides the learner with feedbacks.

<sup>\*</sup> Statistically significant at level 0.05

which results in increasing the quality and quantity education. Also. the availability of various patterns of navigation in hypermedia software and the abundance of means of content presentation in a way that suits lower level learners helps in repeating the content several times in order to achieve the required level of mastery and to achieve the information knowledge and required from them in with accordance their own rhythm.

This result is consistent with the following studies: Sally Mohammed Abdullatif (2005), Mohammed Abdu Khedr (2010), Hany Ahmed Abdulaal (2011) on the importance of hypermedia-

supported individualized learning (Keller plan) in the learning and mastery of motor skills in both individual and team sports.

Furthermore. this result consistent with the results of the following studies: Hadeer Mustafa Mohammed (2004). Waleed Mustafa Haroon (2009),Mohammed Salah Ahmed (2012),Hussein Hussein (2013).Ahmed Shaimaaa Nafe' Awad (2014) on the importance of the use of hypermedia in the learning and mastery of high jumping skill.

Thus, the validity of the first hypothesis of the research has been established.

Second: Presentation and discussion of the second hypothesis of the research:

Table (4)

Indication of the differences between the pre and post tests of the (low level) control group in terms of the technical and quantitative performance in high jump N=13

T	Post test		Pre test		Unit of	Variables
value	dependent	Independent	Depended	Independent	Measurement	
9.95*	0.63	5.00	0.59	0.83	Mark	Level of technical performance in high jump
15.67*	4.17	113.85	5.03	75.32	Cm	Quantitative level of high jump

T-value is at 0.05 = 2.179 significance level

\* Statistically significant at level 0.05

As table (4) shows, there are different statistically significant between

differences at level 0.05 between the pre and the post

tests of the (low level) control group in terms of the technical and quantitative performance in high jump in favor of the post test.

**Table (5)** 

Indication of the differences between the pre and post tests of the (high level) experimental group in terms of the technical and quantitative performance in high jump N=11

T	Pos	st test	Pr	e test	Unit of	Variables
value	Depended	Independent	dependent	Independent	Measurement	
12.41*	0.72	5.91	0.55	1.09	Mark	Level of technical performance in high jump
17.53*	5.26	120.00	5.19	75.81	Cm	Quantitative level of high jump

"T" value is at 0.05 = 2.228 significance level

\* Statistically significant at level 0.05

As table (5) shows, there are statistically significant differences at level 0.05 between the pre and the post tests of the (high level) control group at the level of technical and quantitative performance in high jump in favor of the post test.

The researcher attributes the improvement of the technical and quantitative performance high jump among individuals of the (low level high level) control group to the teacher's focus on exposing the consideration skill under practically through a practical model and providing simplified verbal explanation of the skill so that the learner could has a clear visualization

of the stages of the technical performance of high jumping skill. Also, the teacher provides instructions and advice when necessary so that the learner could correct his technical mistakes immediately after their emergence.

This result is consistent with Martin & Lumsden (1987) and Ellen Wadee' (2000) who have idicated that when the teacher provides the learner with a clear idea about the performance in a correct scientific manner, this makes the learner's performance more effective and that one of the best styles of skill learning is the style in which the teacher exposes the skill to the learner provides a correct performance model of it in order to enable the learner to

discover the movements of his own body.

Thus, the validity of the second hypothesis has been established

Third: Presentation and discussion of the results of the third hypothesis of the research:

#### Table (6)

Indication of the differences between the pre and post tests of the (low level) experimental and control groups in terms of the technical and quantitative performance in high jump

T value	The experimental group N=14				Unit of Measurement	Variables
	Dependent	Independent	Dependent Independent			
6.48*	0.63	5.00	0.51	6.48	Mark	Level of technical performance in high jump
4.69*	4.17	113.85	4.29	121.79	Cm	Quantitative level of high jump

<sup>&</sup>quot;T" value in the schedule is at 0.05 = 2.060 significance level

As table (6) shows, there are statistically significant differences at level 0.05 between the post tests of the (low level) experimental and

control groups in terms of the technical and quantitative performance in high jump in favor of the post test.

**Table (7)** 

Indication of the differences between the pre and post tests for the (high level) experimental and control groups in terms of the technical and quantitative performance in high jump

T value	The experimental group N=11		The control group N=10		Unit of Measurement	Variables
	dependent	Independent	dependent	Independent		
3.82*	0.72	5.91	0.49	7.00	Mark	Level of technical performance in high jump
5.43*	5.26	120.00	5.75	130.00	Cm	Quantitative level of high jump

<sup>&</sup>quot;T" value is at 0.05 = 2.093 significance level

<sup>\*</sup> Statistically significant at level 0.05

<sup>\*</sup> Statistically significant at level 0.05

As table (7) shows, there statistically significant are level differences at 0.05between the post tests of the (high level) experimental and control groups in terms of the technical and quantitative performance in high jump in of the experimental group.

The researcher attributes the superiority ofthe experimental group over the (low level - high level) control group in terms of technical and quantitative performance high jump to the use of hypermedia-supported individualized teaching in the suggested educational program to which the experimental group was introduced, and this because hypermedia include fixed (animations and sequential images - written texts - slow motion video display - colors - music) all this led to the learning and mastery of the technical stages of high jumping skill, and made the learning process easy and interesting, which had a great effect on the good

learning of the skill. While the command teaching style to which the control group was introduced lacks all this features of the hypermedia, as verbal it depends on explanations style and the only performance of the practical model. This result is consistent with Wafeeka Mustafa Hassan (2007) who has pointed out individualized learning contributes to the improvement of the educational process by adjusting the time pattern of each learner in accordance with his personal abilities, so the learner passes from an educational step to the next one in accordance with his own abilities and potentialities.

This result is also consistent with the following studies: Sally Mohammed Abdullatif (2005).Mohammed Abdu Khedr (2010),Hany and Ahmed Abdula'l (2011) on the the efficiency of use of hypermedia-supported individualized learning in the of motor skills learning command compared to teaching style.

Table (8)
Rate of improvement of the post test compared to that of the pre test for the (low level) experimental and control groups in terms of technical and quantitative performance in high jump

The contro	The control group N=13			The experimental group N=14		
Rate of improvement	Post test	Pre test	Rate of improvement	Post test	Pre test	
502.41%	5.00	0.83	548.00%	6.48	1.00	Level of technical performance in high jump
51.16%	113.85	75.32	61.01%	121.79	75.64	Quantitative level of high jump

As table (8) shows, the individuals of the experimental group has surpassed those of the (low level) control group in terms of the superiority of the

rate of improvement of the post test over the pre test of the level of technical and quantitative performance in high jump.

Table (9)
Rates of improvement in the post test compared to the pre test for the (high level) experimental and control groups in terms of technical and quantitative performance in high jump

The control gr	oup N=11	-	The experimen	Variables		
Rate of improvement	Post test	Pre test	Rate of improvement	Post test	Pre test	
442.20%	5.91	1.09	483.33%	7.00	1.20	Level of technical performance in high jump
58.29%	120.00	75.81	71.05	130.00	76.00	Quantitative level of high jump

As table (9) shows, the individuals of the experimental group has surpassed those of the (high level) control group in terms of the superiority of the rates of improvement of the post test over the pre test of the

level of technical and quantitative performance in high jump.

The researcher attributes this result to the efficiency of the use of hypermedia-supported individualized learning in the

suggested educational program, the ability of hypermedia draw the to learner's attention the to fact that it suspense, the involves various senses (hearing – sight) and depends increasing the learners' enthusiasm and motivation towards the implementation of a better performance.

# Thus, the validity of the research's third hypothesis has been established Findings:

- Hypermedia-supported individualized education has a statistically significant and positive impact at level 0.05 on the level of technical and quantitative performance in high jump.
- Command teaching style (the traditional method) has a statistically significant and positive impact at level 0.05 on the level of technical and quantitative performance in high jump.
- The efficiency of hypermedia-supported individualized education surpasses that of the command teaching style in terms of the technical and quantitative performance in high jump.

The individuals of the experimental has group surpassed those of the (low level – high level) control group in terms of the rates of improvement of the post test compared to the pre test of the level oftechnical and quantitative performance high jump.

#### **Recommendations:**

- The necessity of using hypermedia-supported individualized education in learning and mastering high jumping skills for the second-year undergraduate students at the Faculty of Physical Education at Zagazig.
- Carrying out an initial classification of the learners since the beginning and arranging them in groups of approximate level.
- The establishment of a special hypermedia laboratory in the department of track and field events at the Faculties of Physical Education.
- Encouraging the members of the teaching staff to use hypermedia-supported individualized learning in teaching the different aspects of the program of track and field events in order to avoid the inflexible traditional teaching method.

• Conducting similar studies using individualized teaching plans and identifying its impact on the learning of the remaining different aspects of the curriculum of track and field events.

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