The Effectiveness of Electronically Personalized System of Instruction by Using Hypermedia in Learning the Skill of Overhand Passing in Volleyball *Dr/ Naglaa Abdel Moneim El Barbary Abstract:

The research aimed to develop a proposed educational program of Personalized System of Instruction (Keller Plan), using hypermedia, and identify its effect on the performance level of overhand passing skill in vollevball among the first-year female students in the Faculty of Physical Education, Port Said University. The researcher used the experimental method applying on a sample of 40 first-year female students at Faculty of Physical Education, Port Said University. The sample was divided into two experimental groups, and control group. Each group 20 consisted of female students. The research tools included physical and skill tests, high intelligence test, and the proposed educational of Personalized program System of Instruction (Keller Plan) by using hypermedia.

The most significant findings include:

1. Electronically

Personalized System of Instruction by using hypermedia positively impact performance level the of overhand passing in volleyball among the experimental group members (low level, high level).

2. The effectiveness of electronically Personalized System of Instruction by using hypermedia is greater than instruction approach in the performance level of overhand passing in volleyball.

The most significant recommendations include:

1. Personalized System of Instruction (Keller Plan) by using hypermedia should be used in learning and mastering skill of overhand passing in volleyball for female students of Faculty of Physical Education in Port Said.

*Assistant Professor, Department of Team Sports Theories & Applications, Faculty of Physical Education, Port Said University

2. Initial evaluation should be conducted to classify the female students from the beginning to equal performance groups.

Introduction and Problem:

Personalized System of Instruction is a method to manage the instruction process so that learners could merge in learning tasks corresponding with their needs and levels. It may be a method providing them with opportunity to study scientific the material according to their abilities and the speed of their learning; under the supervision of a teacher who assisted them in solving the problems, they face during their studies to achieve their educational goals.

Keller Plan is characterized by performance proficiency in quick learning in line with the learner's abilities. potentials, level (low, high), and desires allowing him to adjust his achievement during the learning of curriculum content as long as the learning proficiency is a prerequisite for Keller Plan. It is natural that amount of time that each learner needs to achieve the required level. and the proficiency of learning content

is different due to the different self-speed of each learner.

As one of Personalized System of Instruction methods. Keller Plan is based on learner's studying of educational material according to his own abilities and speed. Thus, the basic principle upon which this strategy in learning is that the learner based absorbs and masters every concepts and skills of educational module before moving on to the followed module. It, therefore, requires each learner to be a contributed and an effective member in the educational process instead of being only negative receiver of the information passed to him by the teacher. Learner must be an involved and effective element in all activities, to the master specified educational objectives.

Hypermedia is one of the most advanced educational techniques. It includes the integration of various forms of means through which can be controlled by computer. The basic feature of this technology is that it has a high degree of learner's interaction with many sources of information. Wafika Mustafa (2001) and Michelle (2010) indicated that hypermedia is an educational strategy used in providing and information transferring in non-linear way. [31, 35] It is also used to take advantage of learner's sensory entries "visual. auditory", and to provide interaction between the learner and a set of educational multi-media. on which information is stored in the form of (written texts, moved and fixed video clips, cartoons, films and consistent colors. sounds and music) recordings. In addition, it provides quickly and easily control in this information to allow the learner configure logical links that facilitate the transition and free movement in non-linear forms between the parts of information stored and fragmented into small pieces with the help of computer to efficiently and effectively achieve the educational goals of the educational program.

Ellen Wadih Farag (1990) and Ali Mustafa Taha (1999) agreed that passing skill is directing the ball with hands and changing its direction without stability on the hands. [5, 18] It is one of the most important and widely used skills in volleyball. A team's success depends on the players' ability to control correctly and legally the direction of the ball in all directions. It is also the most important skill for defense and attack plans used by the team in playing.

Through the researcher's experience in teaching volleyball curriculum for the first-year female students at Faculty of Physical Education, Port Said University, she noted the low performance level of female students in overhand passing skill in volleyball. This turned out by the results of the applied tests in the college for the first semester of the academic 2013/2014. year Thirty-two percent (32%) of the first-year female students had a weak level This percentage is large. The researcher attributed the reason of to the use instruction approach (traditional method) in teaching, which depends on a single source of knowledge. is a verbal explanation It by presenting the followed without model anv actual participation from the female student in the educational situation. In addition, some female learners may not follow the explanation or find that it is difficult to understand what is required from them. This

method also does not take into account individual differences among the female learners. Moreover. some practical lectures in the college are still lack the most basic means of education because the female teacher based on the traditional method in explaining the skill; that is, she depends on orderlearning method unsupported with any other simple mean, such as moving or still pictures that enhance learning.

Thus. the idea of research has emerged as а scientific attempt to identify effectiveness of the Personalized of System Instruction (Keller Plan) by using hypermedia in learning overhand passing skill in volleyball for the first-year female students at Faculty of Physical Education, Port Said University. To the researcher's knowledge, no scientific study addressed the use of Personalized System of Instruction (Keller Plan) by using hypermedia in learning handover-passing skill in volleyball, which makes it a modern research.

Objective:

This research aims to develop a proposed educational program of Personalized System of Instruction (Keller Plan) by using hypermedia, and to identify its effect on the performance level of overhand passing skill in volleyball for the first-year female students at Faculty of Physical Education, Port Said University.

Hypotheses:

1 There would be statistically significant differences between both preof and post-tests the experimental group (low level, high level) in the performance level of overhand passing skill in volleyball in favor of posttest.

2. There would he statistically significant differences between both preand post-tests of the control group (low level, high level) in performance the level of skill overhand passing in volleyball in favor of post-test. 3. There would be statistically significant differences between both posttests of both the experimental

and control group (low level, high level) in the performance level of overhand passing skill in volleyball in favor of the experimental group.

Procedures: Methodology:

The researcher adopted the experimental method using pre- and post-tests of both experimental groups. The used Personalized group System of Instruction (Keller Plan) by hypermedia, and the other, the control group, used traditional method the (instruction approach) in the style of learning.

Sample:

The researcher deliberately selected the research sample, consisting of 50 first-year female students at Faculty of Physical Education, Port Said University in the first semester of the academic year 2014/2015. Ten (10) female students were excluded for the survey. Thus, the core sample became 40 female students divided into two equal groups; one is an experimental group and the other is a control group. Each consisted of 20 female students.

Division of Experimental and Control Groups:

The researcher organized, in descending order, the results of the female students in the performance level of overhand passing skill in volleyball. Then the female students were divided into two levels in the both experimental and control groups (low level, high level). Table (1) illustrates this.

	Experiment	al group	Control gro	oup		
	low level High level		low level	High level		
No.	11	9	10	10		
Total	2	20	20			
Data Collectio	Data Collection Tools: II. Skill Tests:					
I. Physical Tes	ts:	1.	The test	of frequent		
1. Pushing	test of Medi	cal ove	rhand passing	g on the wall		
ball 3 kg		(to	measure	e passing		
2. Standing	g broad jump t	est per	formance spee	ed)		
3. The test	of throwing a	and $\overline{2}$.	Overhand	passing test.		
receiving balls	from the wall	(to	measure	e passing		
4. Lower	and side tou	ich per	formance accu	iracy)		
test		ĪII.	Higher IQ tes	t:		
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Distribution of Female Students According to Level of Skill Performance in Experimental and Control Groups

Table (1)

Prepared by Mohamed Khairy (1987) **[3]**

The Educational Program using Personalized System of Instruction (Keller Plan) by hypermedia:

I. The program overall objective:

The program aims to learn and master overhand passing skill in volleyball for the first-year female students at Faculty of Physical Education, Port Said University.

II. The foundations of developing the educational program:

1. To provide information contained in the educational program in an integrated framework and uses all the senses of the female learner,

2. To create an exciting environment for teaching and learning by the female teacher to lead the learner to master what she learns. This increases the effectiveness of education in terms of understanding, analysis, and evaluation,

3. To gradate the program from easy to difficult, as appropriate for the level of each female student,

4. To present all drawings, photos, and videos by computer and the written text, 5. To provide an opportunity for all female learners to practice and work at the same time, and to make progress in their teaching to achieve the goal in sequential manner,

6. To take into account the shape and the size of sequence drawings, photos, videos, and written text in proportion to the size of the screen,

7. The program identifies the content of the abilities and capabilities of the female learners, including taking into account individual differences and their motivation to learn,

8. The logical sequence of the program contents is consistent with the objectives and with the sample properties,

9. To observe diversity, inclusiveness, and simplicity of the program to satisfy the motor desires of the female student,

III. Software Content Determination:

The content selection is of the most important steps to build the software process. This importance is represented in selecting facts and information associated with overhand passing skill in volleyball. In addition to selecting video clips, illustrations, and other educational materials that were chosen, and organizing them in a certain educational aspect, and determining how to handle them to help achieve the goals of the software.

IV. Software Production Stages:

Through access to many specialized scientific references. Abdul such as Sharaf Hamid (2001).Mohamed Saad Zaghloul et al. Wafika (2001).Mustafa (2001). Abdul Hafiz Mohamed (2012), and scientific studies that dealt with hypermedia in particular. for method. designing the educational program in the light of the specific objectives. [14, 27, 31, 13]

Writing Scenario Stage:

The program's scenario is set up in light of the general objectives to be accessible and the scientific material of the skill under discussion. The following steps are adopted:

1. **Preparation** of Program's Scenario Its in Initial Form:

The program's scenario has been prepared in its initial image and displayed on specialists in the field of volleyball and teaching methods, Annex (4). This aims

to view the specialists' opinions in the general objective of the program, program foundations, program content. scientific accuracy, and presentation style within the software, program requirements, and program applicable. The experts indicated that some adjustments are necessary so that the program could be applicable.

2. **Preparation** of Program's Scenario in Its Final Form:

After making the necessary adjustments referred to by specialists. the program's scenario has been presented after making these amendments again on these specialists. Through the review of the specialists' opinions by researcher, it became clear that they approved the final form of the scenario with a percentage of 100%. Thus, the software has become in its final form ready for implementation.

Time Frame for Using 3. the Software:

The total number of weeks is 5 weeks, which is the period of applying the experiment,

The allocated time to each lecture is 90 minutes. which is the time of applied

lectures in the faculty. Fortyfive (45) minutes were extracted for the implementation of the proposed educational program, distributed as follows:

– Watching hypermedia software for 5 minutes,

– Physical preparation for 10 minutes,

– Educational and practical part for 30 minutes.

Pre-tests:

The pre tests of the variables under discussion were

for conducted the both experimental and control groups (low level, high level) 21/10/2014 from to 23/10/2014. These tests are considered conducting as equality between the two groups of research. This was done after conducting scientific coefficients (validity. reliability) of physical, skill tests. and IQ test under discussion. Tables (2) and (3) illustrate this.

Table (2)

Significance of Differences between Experimental and Control Groups (Low Level) in Variables under Discussion

Variables	Measure unit	Experimental group n = 11		Control group n = 10		''t'' value	
	um	Μ	S	Μ	S	value	
Age	Year	18.25	0.54	18.36	0.51	0.45	
Length	cm	165.19	4.71	165.81	4.49	0.29	
Weight	Kg	67.00	5.19	67.70	4.72	0.31	
IQ	Degree	29.97	4.64	29.55	4.33	0.21	
Arms muscle ability	Meter	3.91	0.38	3.85	0.31	0.38	
Legs muscle ability	Meter	1.35	0.12	1.30	0.15	0.81	
Compatibility	Degree	12.55	2.46	12.27	2.38	0.25	
Dynamic flexibility	Number	18.11	3.02	17.69	3.11	0.31	
Speed performance of forward overhand passing	Number	4.19	1.77	4.00	1.69	0.11	
performance	Degree	1.55	0.92	1.61	0.95	0.14	
accuracy of forward overhand passing							

The value of tabular "t" at the level of 0.05 = 2.093

Table (2) indicates that there are no statistically significant differences at the level 0.05 between the experimental and control groups (low level) in age, height, weight, intelligence, and physical and skill variables under

discussion. This indicates that the members of both groups are equal in these variables.

Table (3)

Significance of Differences between Experimental and Control	
Groups (High Level) in Variables under Discussion	

Variables	MeasureExperimentaryunit $n = 9$		nental	Control group <i>n</i> = 10		''t'' value
		Μ	S	Μ	S	
Age	Year	18.40	0.56	18.35	0.53	0.19
Length	cm	166.57	5.79	166.90	5.31	0.13
Weight	Kg	68.00	5.13	67.35	4.96	0.27
IQ	Degree	29.87	4.91	30.00	4.77	0.11
Arms muscle ability	Meter	3.82	0.36	3.91	0.39	0.49
Legs muscle ability	Meter	1.37	0.14	1.40	0.15	0.42
Compatibility	Degree	12.61	2.41	12.87	2.69	0.21
Dynamic	Number	18.23	3.26	18.45	3.12	0.14
flexibility						
Speed performance	Number	4.29	1.95	4.47	2.03	0.19
of forward						
overhand passing						
performance	Degree	1.75	1.03	1.81	1.11	0.12
accuracy of forward						
overhand passing						

The value of tabular "t" at the level of 0.05 = 2.110

Table (3) indicates that there are no statistically significant differences at the level 0.05 between the experimental and control groups (high level) in the variables under discussion. This indicates that the members of both groups are equal in these variables.

The Application of Educational Program bv Using Electronically

Personalized System of Instruction:

The researcher applied the content of the educational bv program using Personalized electronically System of Instruction on the experimental group, for (5) weeks consecutively, from 26/10/2014 to 29/11/2014. The traditional method was used with the control group.

Post-tests:	overhand passing skill in					
The post-tests were conducted	volleyball in the same order					
on the two groups of research	and conditions of the pre tests.					
(low level, high level) from	Presentation and Discussion					
01/12/2014 to 03/12/2014 in of Findings:						
the performance level of	I. Presentation of Findings:					
Table (4)						

Significance of Differences between Both Pre- and Post-Tests of Experimental Group (Low Level) in Skill Variables under Discussion n = 11

Variables	Measure	Pre-test		Post-test		''t''		
variables	unit	Μ	S	Μ	S	value		
Speed performance of forward overhand passing	Number	4.19	1.77	20.51	2.14	17.91*		
performance accuracy of forward overhand passing	Degree	1.55	0.92	15.29	1.18	28.64*		

The value of tabular "t" at the level of 0.05 = 2.228

* Significance at the level of 0.05

Table (4) indicates that there are statistically significant differences at the level of 0.05 between both pre- and post-

tests of the experimental group (low level) in the performance level of overhand passing skill in volleyball in favor of the post-test.

Table (5)

Significance of Differences between Pre- and Post-Tests of Control Group (Low Level) in Skill Variables under Discussion N = 10

Variables	Measure Pre-test		Post	''t''		
Variables	unit	Μ	S	Μ	S	value
Speed performance of forward overhand passing	Number	4.00	1.69	17.85	2.26	14.85*
performance accuracy of forward overhand passing	Degree	1.61	0.95	13.17	1.11	22.97*

The value of tabular "t" at the level of 0.05 = 2.262

* Significance at the level of 0.05

Table (5) indicates that there statistically significant are differences at the level of 0.05 between both pre- and posttests of the control group (low

level) in the performance level of overhand passing skill in volleyball in favor of the posttest.

Table (6)

Significance of Differences between Post-Tests of Experimental and Control Groups (Low Level) in Skill Variables under Discussion

Variables	VIAGGIIPA -		mental <i>n = 11</i>	Control group <i>n</i> = 10		''t'' value	
		Μ	S	Μ	S		
Speed performance of forward overhand passing	Number	20.51	2.14	17.85	2.26	2.63*	
performance accuracy of forward overhand passing	Degree	15.29	1.18	13.17	1.11	4.02*	

The value of tubular "t" at the level 0.05 = 2.093

* Significance at the level of 0.05

Table (6) indicates that there statistically significant are differences at the level of 0.05 between post-tests of both the experimental and control

groups (low level) in the performance level of overhand passing skill in volleyball in favor of the experimental group.

Table (7)

Significance of Differences between Pre- and Post-Tests of Experimental Group (High Level) in Skill Variables under Discussion n = 9

Variables	Measure	Pre-test		Post-test		''t''
variables	unit	Μ	S	Μ	S	value
Speed performance of forward overhand passing	Number	4.29	1.95	24.56	2.17	21.53*
performance accuracy of forward overhand passing	Degree	1.75	1.03	16.23	1.24	26.11*

The value of tabular "t" at the level of 0.05 = 2.306

* Significance at the level of 0.05

Table (7) indicates that there differences at the level of 0.05 statistically significant are

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between pre- and post-tests of

the experimental group (high level) in the performance level of overhand passing skill in volleyball in favor of the post-test.

Table (8)

Significance of Differences between Pre- and Post-Tests of Control Group (High Level) in Skill Variables under Discussion

Variables	Measurement	Pre test		Post test		''t''
variables	unit	Μ	S	Μ	S	value
Speed performance of forward overhand passing	Number	4.47	2.03	21.19	2.21	17.41*
Performance accuracy of forward overhand passing	Degree	1.81	1.11	14.37	1.13	23.28*

n = 10

The value of tabular "t" at the level of 0.05 = 2.262

* Significance at the level of 0.05

Table (8) indicates that there are statistically significant differences at the level of 0.05 between pre- and post-tests of the control group (high level) in the performance level of overhand passing skill in volleyball in favor of the posttest.

Table (9)

Significance of Differences between Both Post Tests of Experimental and Control Groups (High Level) in Skill Variables under Discussion

Variables	Measure unit	-	mental n = 9	Con group	''t'' value	
	um	Μ	S	Μ	S	value
Speed performance of forward overhand passing	Number	24.56	2.17	21.19	2.21	3.17*
Performance accuracy of forward overhand passing	Degree	16.23	1.24	14.37	1.13	4.67*

The value of tubular "t" at the level 0.05 = 2.110

* Significance at the level of 0.05

Table (9) indicates thattherearesignificantdifferencesatthe

level of 0.05 between post-tests of experimental and control groups (high level) in the

performance level of overhand passing skill in volleyball in favor of the experimental group.

II. Results Discussion:

A. First Hypothesis Results Discussion:

The results of table (4)indicated that there are statistically significant differences at the level of 0.05 between pre and post-tests of the experimental group (low level) in the performance level of overhand passing skill in volleyball in favor of the posttest.

The results of table (7) also indicated that there are statistically significant differences at the level of 0.05 between pre- and post-tests of the experimental group (high level) in the performance level of overhand passing skill in volleyball in favor of the posttest.

The researcher attributed this improvement the in performance level of overhand passing skill in volleyball of the experimental group (low high level) the level. to effectiveness of Electronically of Personalized System Instruction Keller Plan bv using hypermedia through the computer (such as video clips,

still images, written texts). This is conducted by watching the models ideal in the performance of overhand passing skill in volleyball and reading the written text of the educational steps and the stages of the technical performance of the skill. All these effectively contributed to the female student's learning to the skill under discussion and absorbed it according to her own abilities. This contributes take into account the to individual differences in motor learning. This is consistent with that indicated by Najar (2005)the Lawrance that degree of learner's dazzle of non-traditional learning methods works to attract his attention towards the learning topic. which increases his motor and cognitive achievement.

This result is also consistent with the study results conducted by Robert (2000), Mervat Samir Hussein (2003), Sally Mohamed Abdul Latif (2005), Hamid Mohamed El Komy (2007), Hassan Ibrahim (2010), Hani Ahmed Abdel Aal (2011), Dina Abdel Rahim Mehana (2014), Azza Al-Said Ahmed (2014),Abdul Hisham Azab Aziz (2014), on the effectiveness of the use of electronically Personalized System of Instruction (Keller Plan) to learn and master motor skills in individual and team sports. [39, 25, 12, 7, 8, 29, 11, 15, 30]

In this regard, Ibrahim Abdul Wakil (1998).A1-Ghareeb Zahir and Iqbal Behbehani (1999)indicated that the use of computer as a sophisticated technology is an integrated introduction and approach to teach a variety of subjects and curricula. This substantial causes а improvement in the students' achievement. It also causes positive change in their attitudes towards those curricula, and reduced the time necessary for teaching and learning either at the level of individuals or groups. [1, 4] Thus, the first hypothesis is

Thus, the first hypothesis is realized.

B. Second Hypothesis Results Discussion:

The results of table (5)that indicated there are statistically significant differences at the level of 0.05 between pre- and post-tests of the control group (low level) in performance the level of overhand skill passing in volleyball in favor of the post-test.

The results of table (8) also indicated that there are statistically significant differences at the level of 0.05 between pre- and post-tests of the control group (high level) in the performance level of overhand passing skill in volleyball in favor of the posttest.

The researcher attributed the improvement of the members of the control group (low-level, high level) in the performance level of overhand passing skill in volleyball to the interest of female teacher to practically display the skill discussion. and under to provide verbal simplified explanation for the skill to be learned so that the female learners can form a clear vision the required skill about performance. The Female teacher also provides guidance and advice whenever necessary so that female learner can fix technical errors as they arise.

This is in line with what indicated by the Martin & Lumsden (1987) that when a teacher gives the learner a clear idea of proper scientific performance, learner's performance becomes more effective. **[35]** Thus, one of the best methods when learning the skills is that the teacher displays the skill and performs a correct model to the learner to discover his body movements.

Thus, the second hypothesis is realized.

C. Third Hypothesis Results Discussion:

Noting the results of table (6), it indicates that there are statistically significant differences at the level of 0.05 of between post-tests experimental and control groups (low level) in the performance level of overhand passing skill in volleyball in favor of the experimental group.

The results of table (9)indicate that there are statistically significant differences at the level of 0.05 between post-tests of experimental and control groups (high level) in the performance level of overhand passing skill in volleyball in favor of the experimental group.

The researcher attributed the excellence of the experimental group members over the control group members in the performance level of overhand passing skill in volleyball to provide the skill with a variety of logical sequential clarification in the educational programmed system, which was presented to the members of the experimental This group. contributed to increasing the level of their skill achievement. and made the female learners in an ongoing response during the learning process and made the lesson be more interesting. This also arose meaningful, vital, self-activity from the female learners. We do not find this in the instruction approach. This is consistent with what indicated by Hussein Kamel Bahaa El-ddin (2002) that the differences and uniqueness among the learners must be taken into account. [9] The beginning of that is the division of learners into average, those with special conditions, and genius. This is important to deal with the and differences uniqueness among learners.

Abdul Hafiz Mohamed Salama (2012) added that the educational techniques used for collective self-learning, learning according to the needs, methods directed at a specific program, and self-

administration means succeeded in helping learners to acquire cognitive and motor skills. **[13]**

Thus, the third hypothesis is realized.

Findings:

In the light of the research objectives and hypotheses, the research sample limits and results, the researcher could conclude the following findings:

1. Electronically

Personalized System of Instruction by using hypermedia positively affects the performance level of overhand skill passing in volleyball among the members of experimental group (low level, high level).

2. The instruction approach positively affects the performance level of overhand passing skill in volleyball among the members of the control group (low level, high level).

3. The effectiveness of electronically Personalized System of Instruction using hypermedia is greater than the instruction approach in the performance level of overhand passing skill in volleyball. In light of the research results, the researcher recommends the following:

1. Personalized System of Instruction (Keller Plan) by using hypermedia should be used in learning and mastering skill of overhand passing in volleyball for female students of Faculty of Physical Education in Port Said.

2. Initial evaluation of female students should be conducted from the beginning to categorize them into homogeneous groups.

3. Training courses should be held for the faculty members and their assistants on the use of modern technological techniques in teaching various aspects of volleyball curriculum of in order to avoid the stagnation of traditional method of the teaching.

Similar studies should 4. be conducted, using the other personalized instruction strategies identifying its impact on learning the rest of different of volleyball aspects curriculum for the female students of Faculty of Physical Education in Port Said.

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