# Educational program in accordance with the principles of psychological flow and its impact on positive social behavior and the development of some basic skills in field hockey

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### Introduction and research problem:

The psychological flow is a psychological state in which the individual is fully integrated and the attention is focused, leading to the performance of the physical and mental aspects at full potential. (12), (16), (21), (24)

Where the results of the studies of Ahmed Kamal Nasari and Mohammed Hamdi Zaghloul (2016), 3, Magdy Hassan Yousuf (2014), (15), Joe and Frank (2001) (13), Christophe et al (2008) (8) positive correlation between the state of psychological flow and progress in performance and the desire to repeat it.

Human behavior is flexible and adjustable despite its relative stability. where positive social behavior helps in the task of protecting selfesteem, so that the individual is more confident in himself, more solid psychological and

self-efficacy and personal adequacy in the face stressful life events, but makes the individual less vulnerable behavioral mental and disorders, the goal In the end to be the individual's view of life is more positive, and this in turn is reflected on his mental and physical health. (11), (25)

The study of Hockey curriculum for fourth division racket games specialty at the Faculty of Physical Education for Girls, Zagazig University. dependant mini-educational how games to learn offensive implement and defensive play plans and to cooperation achieve and integration between the different play centers of the same members of the team.

By observing the field hockey curriculum for the fourth year for several years, the researchers noticed the low performance level of female students in educational games

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because of the poor quality of the passing performance between the members of the same team and misaiming on the goal, which leads to the incompletion of the attack or failure. which affects behavior of students towards each other where They blame other. This may each attributed the low to performance level of female students in the basic skills of dribbling, in addition pushing the ball, hitting the ball which is the most used skills in passing the aiming at goals. (6), (19), (20), (9)(5)

Therefore. the researchers found that the development of these skills educational through an program according to the principles of psychological flow and knowledge of the impact on positive social behavior is the right prelude to learn the plans of play

And the movement of the team and its integration and the quality of the performance of educational games, which called for the researchers to carry out this study. of impact an educational program in accordance with the principles of psychological positive flow on social behavior and the development of some basic skills in field hockey"

#### **ReSearch Goal:**

The aim of the research is to identify the effect of an educational program according principles psychological flow in aspects of (balance of challenge and integration into performanceclarity of objectivesclear feedbackconcentration in performancesense of control-loss of selfawareness- transformation of experiencepositive selfexperience) Positive social development the and development of some basic skills (dribbling- pushing the ball- hitting the ball) in field hockey.

### **Research hypotheses:**

- There are statistically significant differences between the averages of pre and post measurements for the control group in psychological flow and positive social behavior and the development of some of the basic skills of field hockey and in favor of the post measurement.
- There are statistically significant differences between the averages of pre and post for measurements the experimental in group psychological flow and positive social behavior and the development of some basic skills of field hockey and in favor of the post measurement.

- There are statistically significant differences between the of the mean post measurements in psychological flow and the positive social behavior and the development of some basic skills of field hockey and in favor of the post ofthe measurement experimental group.
- There is a positive relationship between psychological flow and positive social behavior and the development of some basic skills of field hockey in question

### **Search procedures:**

Research Methodology: The two experimental methods were used with experimental design for two groups, one experimental and the other one by means of tribal and subdivision measurements for both groups, in accordance with the nature of the research.

### community and Research Sample:

The research community was represented in the students of the Faculty of Physical Education for Girls Zagazig University of the fourth division during the academic year 2018/2019, the number of (94) students, the sample was chosen by delibrate random

search and the number of 30 students were divided into two groups each consists of (15), One experimental and the other a control group. The researchers also excluded 20 students from the research community in order to conduct the exploratory study.

The researchers calculated the mean distribution of the research sample individuals. The values of the torsion coefficients varied between (-1.116 and 1.913) ie between (± indicating that the research sample falls under the average curve in all the variables under consideration.

### Data collection tools: Technical tests:

Ball dribbling forward moving speed test for 15 m. (19: 121), test ball momentum measurement. (6: 151), ball thrust speed measurement test (6: 153), ball thrust accuracy measurement test. (5: 152), ball hitting strength with the flat face measuring test. (6: 162), hitting the ball with the flat face speed test. (6: 164), hitting the ball with the flat face accuracy measurement test. (6: 163). The reliability coefficient for the technical tests ranged between 2.60 and 4.39, which

is greater than the value of the "T" value at the level of free grade of 8 and the level of (0.05) = (2.306) indicating the validity of the tests. the stability coefficient ofthe technical tests ranged between 0.587 and 0.733 which is greater than "R" table value at 0.05 level and the free grade score is 18 = 0.444, indicating the stability of the tests.

### Psychological Flow Meter Prepared by (Magdy Hassan Yousef) (2007)

This measure measures challenge nine aspects: skill balanceintegration of clarity ofperformanceobjectivesclear feedbackfocus on performance- sense of control- loss of self-awarenessshift of time- positive selfexperience. internal consistency Validation of the terms and dimensions of the The scale: correlation coefficient values were (0.513, 0.802), which gives a direct indication of the true consistency of the terms of the scale. The values of coefficients correlation between the degrees of each dimension and the total degree ranged between (0.612,0.89) indicating the validity of the scale for it's purpose. Gauge

Stability Calculation: A statistically significant correlation between the first and second application of the total dimensions and total sum of the scale and the correlation coefficient between the scale as a whole (0.820) indicating the stability of the scale to a high degree.

## Positive Social Behavior Scale: (made by The two researchers'):

includes (66)sentences divided into seven categories: compatibility, personal emotional balance. perseverance, communication, altruism, cooperation, flexibility. Calculation of the accuracy coefficient of the scale: The values ofthe coefficients correlation between each term and the total score of the distance between (0.6860 and 0.510) rangedfrom the values of the correlation coefficients between the degrees of each dimension and the total score ofthe scale between (0.650, 0.784). which statistically significant at 0.05, indicating the validity of the scale for it's purpose Scale Stability calculation:

The correlation coefficients ranged from (0.592,0.745) with the

Spearman-Brown equation and the "Alpha Cronbach" formula, indicating that the scale is highly stable.

# Educational program using the principles of psychological flow

### The purpose of the program:

The use of principles of psychological flow to develop positive social behavior and some basic skills in field hockey for fourth-year students specialized in racket games in the Faculty of Physical Education for Girls Zagazig University.

### program content selection:

The content of the educational program for this study was the development of the skills of dribbling, pushing and hitting the ball with the flat face.

### **Program Execution Time Plan:**

The program consists of (10) weeks with one unit of study per week, (45 m) and contains (12 m) warm up and physical preparation, (30 m) main part, (3 m) conclusion.

### **Survey study:**

The researchers carried out the exploratory study the during period from 1/10/2018 to 15/10/2018 order to find scientific coefficients and verify the validity of the tools used.

### pre measurements:

The researchers carried out pre measurements from 17/10/2018 to 19/10/2018. These measurements are considered as a parity between the two research groups.

### Application of the educational program:

From 21/10/2018 until 12/12/2018. The traditional program (learning by command) was applied to the control group members.

#### Post measurements:

The post measurements were carried out from 12/12/2018 to 13/12/2018.

#### **Statistical treatments:**

Mean- Standard
Deviation- Median- SkewnessCorrelation CoefficientsT.Test Ratios & Rates

### View and discussion of the results:

Table (1)
The significance of the differences between the pre and the post measurements of the control and experimental group on psychological flow, positive social behavior, and skill variables

Var	iable	Measurement	Control group					Experimental Group				
		Unit	pre measurement		Post Measurement		"T" Value	Pre measurement		Post Measurement		"T"Value
Balance challenge with skill		Degree	0.77	.95	٦,٢٦	.97	*0.51	0.40	.٧٨	٧.٥٠	٠٧٥.	*997
Integration into performance		Degree	0.01	.99	7.50	1.11	*0.77	۰۲.۰	19	٧.٨٥	1	*٨.٧٩٤
Clarity of	objectives	Degree	٤.٦٣	.٨٨	0.17	.47	* ٤. ٢ ١	٤.٧٠	.99	7.9 •	.97	*175
Reversible	feedback	Degree	٤.٧٧	1.17	0.07	۱.۰٤	*0.75	٤.٨٠	1	٧.٧٣	٠.٩٧	**\.\*\*
Focus on performance		Degree	1	1.77	17.77	1.18	*7.11	110	1.50	10.7%	1.77	*11.40
Sense of control		Degree	0.81	1.•4	٦.٧٥	٠.٩٧	*٤.١٩	0.07	1.17	۸.۰۰	1.1•	*117
Loss of self- awareness		Degree	٤.٨٩	.۸٩	0.9 •	19	*0.00	٤.٩٥	.٩٨	٧.٤٤	.^^	* 9.77
Time Shif	t	Degree	٤.٨٨	.۷۹	٥.٨٧	.97	*0.77	٥.٠٠	.90	٧.٨٧	.91	*104
Positive experience	self-	Degree	1.97	1.70	15.71	1	*7.75	11	1.11	17,70	11	*17.55
Total of the scale		Degree	14.47	۲.٤١	٧٥.٤٢	۲.٦٢	*11.70	۱۸.۸۱	۲.۰۰	۸۳.۲۲	1.49	*******
Positive Social Behavior Scale		Degree	٩٠.١١	7.77	119.40	7.10	۸.۰۸	9.99	7.77	188,09	۲.۱۸	٣١.١٧
Dribbling		Seconed	Y0. V0	۲.۳۰	77.77	۲.۰۳	٥.٤٨	10.11	۲.۰٦	19.91	1.70	10.57
Ball pushing	Accuracy	Degree	٠٠.٦٣	۲.۳٤	1.77	7.77	٣.٣٣	٠.٦٥	٠.٩١	٤.٩٦	1.11	11.750
	Strength	Meter	٤.٤٤	۲.۲۰	۲.۸۱	1.07	0.40	0.51	۲.۰۰	٩.١١	1.7.	15.00
	Speed	Seconed	YY.•Y	1.77	75.77	1.17	٦.٨٤	۲٦.٠٠	1.77	71.75	1.11	19.7.
Ball	Accuracy	Degree	٧.٧٨	1.95	11.7.	1.7%	٧.٢٣	٨.٠٥	1,77	17.14	1.70	14,47
Hitting	Strength	Meter	۸.۰۰	1.0.	1.17	1.11	٥.٤٧	٨.٤٣	1.58	17.71	1.10	17.77
	Speed	Seconed	17.17	1.77	19.17	1	7.14	77.77	1.07	14.41	1.77	15.37

The value of "T" is the table at the level of 0.05 = 2.145 \* D at the level of 0.05

Table (1) shows that there are statistically significant differences at level 0.05 between the pre and post-measurements of the control group and the experimental group in all the research variables in favor of the post-measurement of each.

The researchers attributed this to the fact that the player who lacks the positive psychological features will not be able to achieve the highest levels despite whatever level of physical and technical levels he can achieve. (20). this is consistent with what

Stephen Koehn (2013) (23) points out that the level of performance of sports players is largely influenced by their ability to control their emotions and self-confidence.

Thus, validating the first research, which states There are statistically significant differences between the pre averages of and post measurements for the control group in psychological flow and positive social behavior and the development of some of the basic skills of field hockey and in favor of the post measurement.

the interest strengthening and developing psychological skills leads to the integrated preparation of players to achieve the best levels of athletic performance, and the acquisition psychological skills increases the ability of the player to cope with pressure and adapt to conditions of training competition to achieve good performance and enjoy the practiced activity. (2: 179), (22: 37), (1: 165), (18:25)

Thus, the validity of the second research, which states There statistically are significant differences between the averages of pre and post measurements for experimental group in psychological flow and positive social behavior and the development of some basic skills of field hockey and in favor of the post measurement.

Table (2)
The significance of the differences between the The two Post measurements of the control and experimental groups on psychological flow, positive social behavior, and skill variables

Variable		Measurement		nent for control oup	Post Measu experimen	"T"	
		Unit	pre measurement	Post Measurement	pre measurement	Post Measurement	- Value
	challenge h skill	Degree	٦,٢٦	.97	٧.٥٠	.٧٥	۳.۸۷
	ntion into rmance	Degree	٦.٣٥	1.11	٧.٨٥	1	٣.٨٤
Clarity of	f objectives	Degree	0.17	.44	7.9.	.97	٤.٠٢
Reversib	le feedback	Degree	0.07	1.+£	٧.٧٣	•.9٧	٥.٨١
	cus on rmance	Degree	17.77	1.18	10.71	1.77	0.90
Sense o	of control	Degree	٦.٧٥	•.9٧	۸.۰۰	1.1•	۳.۲۰
	of self- reness	Degree	0.9+	19	٧. ٤ ٤	.^^	٤.١٦
Tim	e Shift	Degree	٥.٨٧	.97	٧.٨٨	.91	٥.٧٤
	ve self- rience	Degree	۱۳.٦٠	1	17.7.	1.•1	٧.٠٢
	otal of the cale	Degree	٧٥.٤٢	77.7	Λ£ <u>.</u> Λ£	1.49	1.90
	ve Social ior Scale	Degree	119.40	7.10	188.09	۲.۱۸	٣٠.٢٤
Dril	bbling	Seconed	77.77	۲.۰۳	19.91	1.40	٣.٢١
Ball	Accuracy	Degree	1.77	7.77	1.11	11.750	٣.٩٩
pushing	Strength	Meter	۱٫۸۱	1.07	1.7.	12.00	٣.٨٩
pusining	Speed	Seconed	71.37	1.17	1.11	19.7.	9.71
Ball	Accuracy	Degree	11.7.	1.7%	1.70	14.44	١٠.٣٧
Hitting	Strength	Meter	1.17	1.11	1.10	17.77	٤.٩٥
Timung	Speed	Seconed	19.14	1	1.77	15.37	٤.٤٢

In addition, The value of "T" is the table at the level of 0.05 = 2.145 \* D at the level of 0.05

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Table (2) shows statistically significant differences at the level of 0.05 between the two dimensions of the experimental and control groups in all the research variables for the benefit of the experimental group.

Catherine Breton (2005) (7) mentions that flow does not happen suddenly, but there are conditions or stages during which the psychological flow occurs - clear goals, emphasis on task, continuous training of skills, a sense of total personal control over

performance, feeling that This activity is a substantial reward, possessing high and sufficient skills for completed effectiveness.

Thus, the validity of the third research hypothesis, which states There are statistically significant differences between the mean of the post measurements in psychological flow and positive social behavior and the development of some basic skills of field hockey and in favor of the post measurement of the experimental group.

 $Table\ (3)$  Interaction matrix between the dimensions of the psychological flow meter and the dimensions of the measure of positive social behavior and the level of skill performance in Field Hockey N=30

Psychological flow	Personal Consensus	Emotional balance	persistence	communication	Altruism	cooperation	Social flexability	total summation	Dribbling	Ball pushing	Ball Hitting
Balance challenge with skill	.,44.6	•1910	1,111	*	*.971	*	*. ٨٤٨	.11:	· AYY	.950	1,967
Integration into erformance	• ,AY0	*.41A	+,4+4	*• . ٨٧٩	**.97%	**.971	**. ٩٨٧	• 477	*,9£A	-,411	•.411
Clarity of objectives		+,4+4	+.11A	* . 919	*. 111	**. ٨٢٩	*	. 117	• 977	171	-,114
Reversible feedback			. A £ £	*	* 177	*. 907	*. 97.	· ,AY1	AAT	AYE	. ۸۳۳
Focus on performance	At.	* AYY	117	*. 970	*. 901	*	*	.,410	· AAY		. 404
Sense of control	. AY t	. AV1	.,900	*	* 977	*	*	.,117	-,1-1	9.7	.915
Loss of self-awareness	AtY	•.917	111.	*. Ao.	*	*•.9• £	*	. 117	•.917	- 114	138.
Time Shift	174.	· A4V	. 977	*. ,٨٨٥	* 1 . /	*	· AAY	. 970	• 979	. 9 £ 1	. 971
Positive self- experience	.,.44.	.,177	+.4+V	*. 1.0	*•. \11	*٩١٠	*,A1F	•,41•	*.9°Y	. 47%	+,9£Y

The value of the "R" table at a significant level of 0.05 = 0.361

Table (3) shows statistically significant correlations between the basic dimensions of psychological flow, the basic dimensions of positive social behavior, and the level of skill performance of the field hockey for the research sample.

As the interest in strengthening and developing psychological skills leads to the integrated preparation of players to achieve the best levels of athletic performance, and the acquisition of psychological skills increases the ability of the player to cope with pressure and adapt to

conditions of training and competition to achieve good performance and enjoy the practiced activity. (2: 179), (22: 37), (1: 165), (18:25)

Positive social relations among members of the sports group play a role in the nature of the results achieved by that group. Positive relationships helps the team achieve good results however negative social relations such as jealousy, envy and jealousy play a major role hindering the team's progress and its failure to satisfactory achieve anv outcome, regardless of the level of competence of the players. (3: 102)

Thus, the validity of the forth research hypothesis, which states There is a positive relationship between psychological flow and positive social behavior and the development of some basic skills of field hockey in auestion

#### **Conclusions:**

In light of the research objectives and hypotheses, the two researchers reached the following conclusions:

1 - The program according to the principles of psychological flow positively affects positive social behavior and development of some basic skills of field hockey.

2- There is a positive relationship between psychological flow and positive social behavior and the development of some basic skills of field hockey.

### **Recommendations:**

- 1- The need to use the psychological flow as one of the new helping strategies in the preparation programs for different sports, which contributes to the quality of the educational and training.
- 2- Conduct similar studies using programs according to the principles of psychological flow of different skills and other sports activities on other variables and samples.

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