Effect of exercises Insanity And deep breathing in a wayQIGONGOn some complex offensive skills and recovery rates for handball players Dr/Eman Nagib Mohamed Shaheen (*)

Summary

The research aims to design a training program using...ExercisesInsanityAnd deep breathingQIGONGTo identify its effect on some physical variables (cyclic endurance-Bearing speed-Bearing strength-Transitional speed-Fit-Speed of motor response), and some complex offensive skill variables(Dribbling test, then passing and receiving, then deceiving with the body, then shooting-Testing passing and receiving, then deception by shooting from below, then deception by shooting from above, then dribbling, then shooting-Testing passing and receiving, then dribbling, then deceiving with the body, then shooting), and some respiratory capabilities (vital capacity- Vo2Max -Heart rate) in the research sample, and the researcher used the experimental approach using an experimental design with two pre- and postmeasurements for two groups, one experimental and the other control, on a sample chosen intentionally from the players of the Tanta Sports Club for Handball, registered with the Egyptian Federation, consisting of (20) players who were divided into two equal groups. One of them was experimental and the other was control. A number of (10) players were selected from within the research community and from outside the basic sample and divided into two groups, a distinguished group and the other an undistinguished group at Ghazl al-Mahalla Sports Club to conduct the exploratory study and scientific transactions. Among the most important results is that trainingInsanityAnd deep breathingQIGONGIt had a positive impactinImprovement of some physical variables, complex offensive skills, and respiratory capabilities are under investigation.

introductionAnd a problemsearch :

Sports bodies compete in developing various sports activities and programmes. One of the most important ways of development is the use of innovative innovations, methods and innovative training methods that rely on codified scientific foundations and principles in order to address any obstacle facing the development and improvement of the level of sports performance. Therefore, developed countries in sports seek to overcome

the obstacles in the sports field in order to Raising its flag in international and global forums, which reflects its progress and prosperity. Perhaps one of the most important modern methods and techniques is that which relies on the combination of more than one physical, skill and physiological element at the same time, as this helps to develop the player in an integrated manner athletically in the practiced activity.

^(*) Assistant ProfessorIn the Department of Group Games and Racquet Sports, Faculty of Physical Education - Tanta University.

Assiut Journal For Sport Science Arts	

ch sport di

Each sport differs from the other according to its nature, and the coach strives to raise the level of performance and achieve the desired goals. Therefore, the coach is required to continuously follow up on everything new in the field of training to raise the level of performance of his players.

He mentions Samia Mahran (2021), Filmorgan Velmorgan G.(2012 AD)That drillsInsanityIt is one of the and innovative modern training methods in training and has spread in international training arenas. It is characterized by high intensity and simple and high gradual intensity. It aims to improve physical and respiratory fitness, which is reflected in the skill aspect through the athlete's performance reaching the maximum of his ability in the form of intense groups for short periods and short rest. (6:191), (39:43)

It is considered trainingInsanityIt is the most appropriate way for players to gain physical fitness, as it depends on the exchange between exerting effort and rest in succession, which helps connect the mind with the body, accompanied appropriate and harmonious by adaptation. (2:236)

Both Muhammad Al-Jabri and Hamdi Al-Nawasrah (2022)AD) confirm humanistic that using trainingInsanity Positive effect using exercises OIGONGIn improving respiratory functions, the most important of which are vital capacity, maximum oxygen consumption, and resting heart rate. They represent great importance in developing the level of athletic performance, and qi gong exercises aim to maintain the regulation of energy flow and regulate breathing rate, which enables the player to be able to concentrate and relax, and thus Improving the player's functional condition, which is reflected in improved performance. (17:262)

Imad al-Din Abbas (2005 AD) states that the development of the sports training process has achieved a breakthrough in the sports field in general, in group sports, and in particular in handball. This is clearly evident in the significant increase in performance levels as a result of the development of training methods and means of measurement. It has achieved a qualitative leap in some sports games. . (14:23)

Muhammad Al-Walely (2009 AD) adds that the handball player must prepared physically, be psychologically, and physiologically to face the requirements of the game because handball depends on high intensity in a short time, interspersed with relatively short rest periods. Therefore, the player must be prepared to advance the training situation and reach international levels in light of the progress of countries to achieve International championships and achievements. (18:225)

Mohamed Khaled Hamouda, Jalal Salem (2008AD), and Mohamed Kamel (2004AD) point out that the nature of play during matches requires players to use different complex skills, which represent a form of construction consisting of integrated skills that are performed successively and sequentially. Therefore, players must be equipped and prepared to face these

129

situations. Attacking with a mutual effect by raising the level of complex skill performance according to the circumstances of the match. This requires the player to master complex skills and perform them accurately. (21:77), (16:95)

Effat Rashad (2015 AD) and Muhammad Al-Walely (2009 AD) mention that a handball player's possession of complex offensive skills is considered a skill wealth that enables him to be an effective member of the team because the player's performance varies in the match according to the requirements and changing playing situations in performing the duties he is assigned to perform and for each player. Collective tactical planning for the team, where the team's condition and ability to succeed depend on the extent to which the team members possess the ability to perform complex skills. (12:240), (18:92)

this evervone In regard. confirms: Peter Kavacs (2002 AD), Mounir Girgis (2004 AD), Yasser Dabour (2015 AD), The offensive skills combined with the ball are the main focus of the handball athlete and are the most sensitive because they take the time, effort, and thought of the coach throughout the training season, whether for the purpose of education or raising the level and mastery. Mastering these skills gives a great opportunity for the player to be distinguished and highly effective in handball competition. (35:31), (26:240), (29:92)

Everyone on Al-Baik, Imad Al-Din Abbas (2009 AD) agrees that the player cannot optimally perform the complex skills of the activity being practiced unless he has the necessary variables required physical to implement the skill, and exercises that are similar in their motor composition to the movements performed during the match must be used, and this is considered tantamount to Direct preparation of the player and one of the means of developing the player's training condition, and repeating the performance in situations similar to competition plays a major role in developing special physical variables and motor skills. (13:219)

Essam El-Din Abdel-Khaleq (2003 AD) also confirms that developing the physical qualities specific to sporting activity contributes significantly to the player's reaching the best levels of complex offensive skill performances in the specialized activity. (11:63)

From the previous presentation, researcher that training the sees exercisesInsanityIt is one of the modern training methods and can be employed for any sporting activity in general, and in handball in particular. When applied in handball, the basic aspects of these exercises must be employed within the framework of the specialty of the nature of performance in handball, and it also plays an effective role in improving the physical and physiological level of the handball player. It helps him perform the complex offensive skill duties effectively during the match, knowing that the handball player exerts a highintensity effort during short periods that do not exceed (3 seconds), which affects the player's training status, and

there is no clear strategy for training the handball player to breathe in a way that helps him recover and return. To his natural state with clarity of mind and focus on the match, thus delaying the appearance of fatigue during performance, and by reviewing scientific references such as

Yasser Dabour (2001 AD) (29), Kamal Al-Din Abdel Rahman Darwish, Qadri Sayyed Morsi, Imad Al-Din Abbas Abu Zaid (2002 AD) (15),Essam El-Din Abdel Khaleq AD) (11). Mounir Girgis (2003)Ibrahim (2004 AD) (26), Imad El-Din Abbas Abu Zaid (2005 AD) (14), Muhammad Khaled Hamouda, Jalal Kamal Salem (2008 AD) (21), Ali Fahmy Al-Beik And others (2009AD) (13), Muhammad Tawfiq Al-Walely (2009AD) (18) And reference studies such as the study of Sayed Abu Zaid (2021AD) (7), the study of Muhammad Mahmoud Kazem (2015AD) (25), the study of Omnia Mansour (2015AD) (1), the study of Muhammad Abdel Aziz (2017AD) (23), and the study of Tai Yun. Kima, Jung Hoon KimTea Yoon Kima, Jung Hyun Kim(2020 AD) (38), Shaima Muhammad Abu Zaid Abdel Fattah (2021 AD) (9)All of which confirmed that qi gong exercises are of great importance in improving the speed of recovery, restoring the physical condition of athletes, the athlete's endurance to physical and skill effort, and the ability to continue performing effectively without feeling tired. It is clear that one of the most important deep breathing exercises is deep breathing exercises.QIGONGIt aims to recover physically and mentally by deep breathing and performing complex offensive skills with high energy and efficiency without feeling stressed and with focus and clarity of mind, which helps the player to excel in performance and focus on achieving the desired goals.

The handball player bears a physical, mental, and skill burden while performing complex offensive skills and continuing the performance over a period of (60 seconds), which consequently affects the efficiency of the player's performance and his continuation of the same effectiveness throughout the period. match Therefore, it was necessary to research training directions that are appropriate to the nature of performance in handball. It is a competitive game that requires the player to have a high degree of physical fitness and skill, with the ability to think properly during periods and stages of the match, and the ability to endure and continue while performing complex skill duties imposed by the playing situations within the competition in a time not exceeding (3 seconds). The distinguished player is the one who can Performing skills with agility and agility, with speed of completion and effectiveness that clearly appears in complex offensive skills.

By watching handball matches and conducting a survey on handball players under 18 years of age, the research sample-Attachment (1)-The researcher found that the player was unable to continue until the end of the match time (60 seconds) with the same effectiveness and a low rate of performance in the second half

compared to the first half, and this affects the form of performance in general and the performance of complex offensive skills in a clear and evident way during the match, knowing that in the sport of handball the player makes an effort Aerobic or aerobic, he continues to perform at intensities high of the player's maximum ability during periods of time that do not exceed a few seconds. Throughout the match there is a disparity between work and rest at high intensities and short rest, and the coaches focus on the individual aspect of offensive skills and neglect the complex offensive skills despite the fact that mastering the skills Combined attacking is the cornerstone of building and preparing a distinguished player who can confront the opponent with strength and motivation to achieve goals and achieve victory, as the nature performance of skill within competitions takes place through contact to a large extent according to specific rules. The two teams exchange different attacking positions, so the offensive skills must be shed light on. Compound: As the unique player in handball is the one who can fulfill the duties assigned to him according to what is imposed by the changing and fast-paced playing situations, the success of the team depends on the extent to which its members possess complex offensive skill performances. Hence, we must prepare the player well during the three-stage preparation period (general preparation-Special preparation-Preparation before matches. Training programs must contain aerobic endurance to maintain

good performance throughout the match without feeling tired, speed recovery, and increase motivation. This is achieved through training. QIGONG Training is done before entering the special preparation period, and the researcher used humanistic trainingInsanityDue to the positive results achieved in reference studies and its effectiveness in raising general and specific physical fitness and complex offensive skills, taking into account the use of training with the nature of performance in handball, humanistic training plays an important and positive role in building a physical, skill and functional base for the player, which helps to carry out training duties effectively during Halftime of the match, so the researcher resorted to using human training in the deep breathing training method because it suits the nature of performance in handball and its effective role in improving the breathing rate and heart rate to the maximum correctly at high intensities ranging between (70-90%) of the player's maximum intensity and for long training periods. Relatively, interspersed with short rest periods that may last a few seconds. Hence, the researcher designed a humane training program using qi gong exercises and their effect on some complex offensive skills and recovery rates for handball players.

research aims :

The research aims to design a training program using...ExercisesInsanityAnd deep breathingQIGONGto identify :

1- The effect of the proposed training program on some physical

variables (cyclic endurance-Bearing speed-Bearing strength-Transitional speed-Fit-Movement speed of the research sample.

The effect of the proposed 2training program on some complex offensive skill variables (Dribbling test, then passing and receiving, then deceiving with the body. then shooting-Testing passing and receiving, then deception by shooting from below, then deception by shooting from above, then dribbling, then shooting-Testing passing receiving, then dribbling, and then deceiving with the body, then shooting) in the research sample.

3- The effect of the proposed training program on some respiratory capabilities (vital capacity).- Vo2Max - Heart rate) in the research sample.

Research hypotheses :

1- There are statistically significant differences between the pre- and postmeasurements of the experimental group in the level of some (physical variables - complex offensive skill variables - respiratory abilities) under research in favor of the postmeasurement.

2- There are statistically significant differences between the pre- and postmeasurements of the control group in the level of some (physical variables complex offensive skill variables respiratory abilities) under research in favor of the post-measurement.

3- There are statistically significant differences between the postmeasurements of the experimental and control groups in the level of some (physical variables - complex offensive skill variables - respiratory abilities) under investigation in favor of the experimental group.

Search terms:

Humanity trainingInsanity:

It is one of the modern training methods that relies on high-intensity training with very short rest periods and works to develop speed, anaerobic endurance, muscular ability, and speed endurance in a very short time. (41) **Oi gong trainingOIGONG:**

It is one of the exercises that depends on mental clarity, deep breathing, and combining movement with stillness. It is concerned with the health of the mind and body, and aims to recover and gain energy through

exercises. Pneumatic. (40:41)

Pneumatic. (40:41)

Search procedures : Research Methodology :

The researcher used the experimental method using an experimental design with pre- and post-measurements for two groups, one experimental and the other control, as it suits the nature of the research.

Research population and sample:

The research population consists of handball players under 18 years of age, born in 2004, for the sports season (2021/2022) in the central Delta region, consisting of (96) players registered with the Egyptian Handball Federation. The research sample was chosen intentionally from players of the Tanta Sports Club for Handball who are registered with the Federation. The Egyptian team, consisting of (20) players, was divided into two equal groups, one experimental and the other control. A number of (10) players were also selected from within the research community and from outside the basic sample and divided into two distinct groups, as they achieve better results in conducting the physical and skill tests under study. The other is not assigned to Ghazl El Mahalla Sports Club to exploratory studies conduct and scientific transactions.

133 -

Table (1)Research population and sample

Explorato	ory sample	Basic	sample	research community					
%	the number	%	the number	%	the number				
10.41%	10	20.83%	20	100%	96				
Homogeneity of the two research Training age), the physical variables,									
groups (exper	rimental)Cont	roller):	the complex offensive skills, and the						

Homogeneity was conducted between the two research groups (experimental-Control) for the basic variables (age-the weight-heightTraining age), the physical variables, the complex offensive skills, and the respiratory capabilities under investigation, and Tables (2), (3), and (4) show this.

Schedule (2)

Statistical significanceFor moderationThe sample as a whole in the variables Research is underway to demonstrate the normality of the probability distribution of data using the Klumgorov-Simmernov test.Kolmogorov-Smirnov n=20

М	I Variables		lonliness Measurement	Average Arithmetic	Mediator	standard deviation	skewness	a test Kolmogorov- Smirnov
1-	ss	Age	year	17.68	17.90	0.45	-0.44	0.08
2-	riable	the weight	kg	71.55	71.00	1.75	0.53	0.10
3-	ic va	height	poison	171.05	171.00	1.23	0.08	0.20
4-	Bas	Training age	year	10.18	10.35	0.55	-0.86	0.19
5-		22m running test in a curve	(w)	4.51	4.50	0.04	-0.77	0.11
6-	al	Front and back running test for a distance of 252 metres	(w)	84.59	84.60	0.02	0.11	0.16
7-	/sic	Bend arm flexion test	(degree)	29.39	29.39	0.04	0.10	0.17
8-	lesPhy	Nelson motor response test	(time)	2.13	2.13	0.00	0.61	0.08
9-	Variat	800g medicine ball throw test of stability	(meter)	11.49	11.50	0.05	0.20	0.12
10-		Vertical jump test from stability	(poison)	36.47	36.46	0.05	1.09	0.20
11-		600 meter running test	(s)	3.48	3.49	0.03	-0.56	0.20
12-	Complex offensive skill	Dribbling test, then passing and receiving, then deceiving with the body, then shooting	time	8.70	8.70	0.02	0.03	0.13

Assiut Journal For Sport Science Arts

ce Arts

Follow Schedule (2)

Statistical significanceFor moderationThe sample as a whole in the variables Research is underway to demonstrate the normality of the probability distribution of data using the Klumgorov-Simmernov test.Kolmogorov-Smirnov n=20

Μ		Variables	lonliness Measurement	Average Arithmetic	Mediator	standard deviation	skewness	a test Kolmogorov- Smirnov
13-		Testing passing and receiving, then deception by shooting from below, then deception by shooting from above, then dribbling, then shooting	time	8.84	8.84	0.01	-0.06	0.20
14-		Testing passing and receiving, then dribbling, then deceiving with the body, then shooting	time	8.15	8.16	0.00	0.31	0.19
15-	ory ties	Vital capacity	(Liter)	4.37	4.37	0.03	-0.72	0.15
16-	Respirat capabilit	Maximum oxygen consumptionVO2 max	(degree)	72.92	72.91	0.03	2.04	0.20
17-		Resting heart rate	(n/s)	65.22	65.20	0.17	2.53	0.20

Shows a table(2The arithmetic mean, median, standard deviation, skewness coefficient, and Klumgorov-Simmernov testKolmogorov-Smirnov to determine whether the data is normally distributed or not in the variables under study. It becomes clear that the data follows a normal distribution as Sig > 0.05, and the values of the skewness coefficient ranged between (± 3) .

Schedule (3)

Statistical significanceFor moderationa sampleExperimental groupIn variables Research is underway to demonstrate the normality of the probability distribution of data using the Klumgorov-Simmernov test.Kolmogorov-Smirnov n=10

М		Variables	lonliness Measurement	Average Arithmetic	Mediator	standard deviation	skewness	a test Kolmogorov- Smirnov
1-		Age	year	17.80	17.90	0.38	-1.39	0.20
2-	201	the weight	kg	71.74	71.50	2.07	0.61	0.20
3-	sic	height	poison	170.80	171.00	1.32	0.09	0.20
4-	Ba	Training age	year	10.20	10.25	0.49	-0.88	0.11
5-	al	22m running test in a curve	(w)	4.52	4.52	0.02	0.00	0.10
6-	blesPhysic	Front and back running test for a distance of 252 metres	(w)	84.60	84.60	0.03	-0.23	0.16
7-	Varial	Bend arm flexion test	(degree)	29.38	29.38	0.02	-0.11	0.17

Assiut Journal For Sport Science Arts

Statistical significanceFor moderationa sampleExperimental groupIn variables Research is underway to demonstrate the normality of the probability distribution of data using the Klumgorov-Simmernov test.Kolmogorov-Smirnov n=10

М		Variables	lonliness Measurement	Average Arithmetic	Mediator	standard deviation	skewness	a test Kolmogorov- Smirnov
8-		Nelson motor response test	(time)	2.13	2.14	0.00	0.11	0.06
9-		800g medicine ball throw test of stability	(meter)	11.49	11.50	0.06	0.28	0.20
10-		Vertical jump test from stability	(poison)	36.45	36.46	0.04	-0.19	0.20
11-		600 meter running test	(s)	3.50	3.50	0.03	0.22	0.16
12-		Dribbling test, then passing and receiving, then deceiving with the body, then shooting	time	8.70	8.70	0.01	0.64	0.10
13-	nsive skill variables	Testing passing and receiving, then deception by shooting from below, then deception by shooting from above, then dribbling, then shooting	time	8.84	8.84	0.02	-0.02	0.20
14-	Complex offer	Testing passing and receiving, then dribbling, then deceiving with the body, then shooting	time	8.16	8.16	0.00	0.00	0.20
15-		Vital capacity	(Liter)	4.38	4.38	0.02	-0.68	0.15
16-	ratory	Maximum oxygen consumptionVO2 max	(degree)	72.91	72.90	0.03	3.03	0.13
17-	Respi	Resting heart rate	(n/s)	65.23	65.11	0.25	1.76	0.08

The table shows (3The arithmetic mean, median, standard deviation, skewness coefficient, and Klumgorov-Simmernov testKolmogorov-Smirnov to determine

whether the data is normally

distributed or not in the variables under study. It becomes clear that the data follows a normal distribution as Sig > 0.05, and the values of the skewness coefficient ranged between (± 3).

Schedule (4)

Statistical significanceFor moderationa sampleControl groupIn variables Research is underway to demonstrate the normality of the probability distribution of data using the Klumgorov-Simmernov test.Kolmogorov-Smirnov n=10

Μ		Variables	lonliness Measurement	Average Arithmetic	Mediator	standard deviation	skewness	a test Kolmogorov- Smirnov
1-	,	Age	year	17.55	17.46	0.49	0.25	0.07
2-	ic i	the weight	kg	71.36	71.00	1.43	-0.09	0.19
3-	3as	height	poison	171.30	171.00	1.16	0.34	0.20
4-	I	Training age	year	10.16	10.40	0.63	-0.90	0.08
5-		22m running test in a curve	(w)	4.51	4.50	0.05	-0.24	0.20
6-	8	Front and back running test for a distance of 252 metres	(w)	84.59	84.59	0.02	0.21	0.20
7-	iable	Bend arm flexion test	(degree)	29.40	29.40	0.05	-0.60	0.11
8-	l vari	Nelson motor response test	(time)	2.13	2.13	0.00	-0.17	0.09
9-	Physica	800g medicine ball throw test of stability	(meter)	11.50	11.50	0.05	0.50	0.20
10-	I	Vertical jump test from stability	(poison)	36.48	36.45	0.06	0.89	0.20
11-		600 meter running test	(s)	3.47	3.47	0.03	-0.99	0.11
12-	ables	Dribbling test, then passing and receiving, then deceiving with the body, then shooting	time	8.70	8.70	0.02	0.00	0.16
13-	c offensive skill varia	Testing passing and receiving, then deception by shooting from below, then deception by shooting from above, then dribbling, then shooting	time	8.84	8.84	0.00	-0.36	0.11
14-	14- Complex	Testing passing and receiving, then dribbling, then deceiving with the body, then shooting	time	8.15	8.15	0.00	0.82	0.20
15-	~	Vital capacity	(Liter)	4.35	4.35	0.03	0.00	0.10
16-	spiratory	Maximum oxygen consumptionVO2 max	(degree)	72.92	72.92	0.02	0.16	0.08
17-	Re	Resting heart rate	(n/s)	65.20	65.20	0.01	0.60	0.20

Assiut Journal For Sport Science Arts

The table shows (4The arithmetic mean, median, standard deviation, skewness coefficient, and Klumgorov-Simmernov

testKolmogorov-Smirnov to determine whether the data is normally distributed or not in the variables under study. It becomes clear that the data follows a normal distribution as Sig > 0.05, and the values of the skewness coefficient ranged between (±3).

Equivalence of the two research groups (experimental).-Controller):

Equivalence was conducted between the two research groups (experimental-Control) for the basic variables (age-the weight-height-Training age), the physical variables, the complex offensive skills, and the respiratory capabilities under investigation, and Tables (5), (6), (7), and (8) illustrate this.

Schedule (5)

Variables	the group	Average	standard deviation	the difference Between averages	Levene`s Test	value (v)
	Experimental	17.80	0.38			
Age	Female	17.55	0.49	0.249	0.069	1.268
	officer					
	Experimental	71.74	2.07			
the weight	Female	71.36	1.43	0.379	0.285	0.476
	officer					
	Experimental	170.80	1.32			
height	Female	171.30	1.16	-0.500	0.787	-0.901
	officer					
	Experimental	10.20	0.49			
Training age	Female	10.16	0.63	0.041	0.352	0.163
	officer					

It shows the t-statistics and the significance of the differences between the average scoresSample of the experimental and control groupsinTribal measurements ofvariablesthe basicunder consideration n=10

*The tabular t-value is at a significance level of 0.05 = 2.10

The table shows (5) The value of the larger variance over the smaller variance in all variables is less than the tabular (F) value At a significance level of 0.05, It indicates the homogeneity of the two research groups (experimental and control), and it is also clear that there are no statistically significant differences between the pre-measurements of the two groups (experimental and control) in the basic variables under research, which gives a direct indication of the equality of the two groups in those variables.

Schedule (6) It shows the t-statistics and the significance of the differences between the average scoresSample of the experimental and control groupsinPremeasurements of physical variablesunder consideration n=10

Variables	the group	Average	standard deviation	the difference Between	Levene`s Test	value (v)
22m munning test in a	Experimental	4.52	0.02			
curve	Female officer	4.51	0.05	0.015	0.237	0.906
Front and back	Experimental	84.60	0.03			
running test for a distance of 252	Female officer	84.59	0.02	0.007	0.376	0.703
	Experimental	29.38	0.02			
Bend arm flexion test	Female officer	29.40	0.05	-0.023	0.202	1.407
Nelson motor	Experimental	2.13	0.00			
response test	Female officer	2.13	0.00	0.000	0.060	0.738
800g medicine ball	Experimental	11.49	0.06			_
throw test of stability	Female officer	11.50	0.05	-0.014	0.236	0.564
Vertical jump test	Experimental	36.45	0.04	-0.028		_
from stability	Female officer	36.48	0.06	-0.028	0.062	1.210
600 meter running	Experimental	3.50	0.03			
test	Female officer	3.47	0.03	0.032	0.449	2.090

*The tabular t-value is at a significance level of 0.05 = 2.10

The table shows (6) The value of the larger variance over the smaller variance in all variables is less than the tabular (F) value At a significance level of 0.05, It indicates the homogeneity of the two research groups (experimental and control), and it is also clear that there are no statistically significant differences between the pre-measurements of the two groups (experimental and control) inPhysical variablesUnder investigation, which gives a direct indication of the equality of the two groups in these variables.

Schedule (7) It shows the t-statistics and the significance of the differences between the average scoresSample of the experimental and control groupsinTribal measurements of mCombined offensive skill changes n=10

Variables	the group	Average	standard deviation	the difference Between	Levene`s Test	value (v)
Dribbling test, then passing and	Experimental	8.70	0.01		0.475	0.06
receiving, then deceiving with the body, then shooting	Female officer	8.70	0.02	0.000		1
Testing passing and receiving,	Experimental	8.84	0.02			
from below, then deception by shooting from above, then dribbling, then shooting	Female officer	8.84	0.00	-0.000	0.217	0.05 0
Testing passing and receiving,	Experimental	8.16	0.00			0.44
then dribbling, then deceiving with the body, then shooting	Female officer	8.15	0.00	0.000	0.350	0.44 7

*The tabular t-value is at a significance level of 0.05 = 2.10

The table shows (7) The value of the larger variance over the smaller variance in all variables is less than the tabular (F) value At a significance level of 0.05, It indicates the homogeneity of the two research groups (Experimental and control), as it is clear that there are no statistically significant differences between the premeasurements of the two groups (experimental and control) in the complex offensive skill variables. Which gives a direct indication of the equality of the two groups in these variables.

Schedule (8)

It shows the t-statistics and the significance of the differences between the average scoresSample of the experimental and control groupsinPremeasurements of respiratory capacityunder consideration n=10

Variables	the group	Average	standard deviation	the difference Between averages	Levene`s Test	value (v)
Vital conscity	Experimental	4.38	0.02	0.030	0.304	2 006
v hai capacity	Female officer	4.35	0.03	0.030	0.394	2.090
Maximum oxvgen	Experimental	72.91	0.03			
consumptionVO2 max	Female officer	72.92	0.02	-0.013	0.516	-1.145
Resting heart	Experimental	65.23	0.25	0.020	0.001	0.370
rate	Female officer	65.20	0.01	0.029	0.001	0.370

*The tabular t-value is at a significance level of 0.05 = 2.10

Assiut Journal For Sport Science Arts

140

The table shows (8) The value of the larger variance over the smaller variance in all variables is less than the tabular (F) value At a significance level of 0.05, It indicates the homogeneity of the two research groups (experimental and control), and it is also clear that there are no statistically significant differences between the pre-measurements of the two groups (experimental and control) inRespiratory capabilitiesUnder investigation, which gives a direct indication of the equality of the two groups in these variables.

Data collection tools and methods: First: Tools used:

- Medical scale-Measuring tapehourturning off -Seating-Medicine balls-Handball court-weights-Divided boxes-Cones-Dry aspirometer-Heart rate measuring device.

Second: Data collection methods: 1-Personal interviews:

The researcher explained the idea of the research and its importance to the handball specialist professionally and practically, and approval was obtained from the Tanta Sports Club to implement the research, as well as an agreement with the coach of the team born in (2004 AD) for the sports season (2021/2022 AD) on how the proposed training program would proceed according to the research sample.

2-The forms used-Attachment (2):

- Designing a form for registering data for the research sample.

- Designing a form to record the results of measurements of the physical variables under study.

- Designing a form to record the results of measurements of the complex offensive skills under study.

- Designing a form to record the results of respiratory capacity measurements.

3-The tests used in the research under study-Attachment (3):

1- Physical tests:

Through the researcher's review of reference studies and scientific references, the most appropriate physical tests under study were determined, which are:

- A 22 m sprint test in a curve to measure the translational speed (s).

- Front and back running test for a distance of 252 meters to measure speed endurance (s).

- Arm bending test from prone position to measure force endurance (degree).

- Nelson motor response test to measure motor response speed (time).

- Test of throwing an 800 g medicine ball from stability to measure the muscular ability of the arms (meters).

- Vertical jump test from a standstill to measure the muscular capacity of the legs (cm).

- 600-meter running test to measure cyclic respiratory endurance (S).

2- Combined offensive skill tests:

- Dribbling test, then passing and receiving, then deceiving with the body, then shooting (time).

- Test of passing and receiving, then deception by shooting from

141

below, then deception by shooting from above, then dribbling, then shooting (time).

- Test of passing and receiving, then dribbling, then deceiving with the body, then shooting (time).

3- Respiratory
tests:Harvard test to
maximum
consumptionVo2max.capacity
measure
oxygen

Survey study:

The exploratory study was conducted on a sample of (10) players in the Ghazl El Mahalla Club from the same research community and from outside the basic sample and registered with the Egyptian Handball Federation for the sports season (2021-2022 AD), on Saturday, 6/11/2022 AD, until Wednesday, 15/2022 AD. 6/2022 AD, with the aim of conducting scientific procedures for the tests used and verifying the following points:

- Suitability of the proposed program to the research sample.

- Identifying difficulties and obstaclesthatYou encounter the application and try to solve it.

- Suitability of the training unit time for the research sample.

-Scientific parameters for the tests under investigation:

First: Validity coefficient of tests:

To verify the validity of the physical, skill, and functional tests, the researcher used discriminant validity in two groups, one of which was distinguished in the level of technical performance and regularity in training, and the other was not distinguished and consisted of (10) players, and this is clear from Table (9).

Schedule (9)

Shows the results of the Mann-Whitney testMann-Whitney Test, Z value between scoresThe upper and lower quartiles of the variables under investigation n=5

М	Variables		lonliness Measurement	Upper qu Average rank	artiles Total ranks	Lower qu Average rank	artiles Total ranks	Mann Whitney valueZ	Sig (0.05) P.Value
1-		22m running test in a curve	(w)	3.00	15.00	8.00	40.00	-2.78	0.00
2-	ariables	Front and back running test for a distance of 252 metres	(w)	3.00	15.00	8.00	40.00	-2.62	0.00
3-	ical v	Bend arm flexion test	(degree)	8.00	40.00	3.00	15.00	-2.62	0.00
4-	Phys	Nelson motor response test	(time)	3.00	15.00	8.00	40.00	-2.67	0.00
5-		800g medicine ball throw test of stability	(meter)	8.00	40.00	3.00	15.00	-2.62	0.00
6-		Vertical jump test from stability	(poison)	8.00	40.00	3.00	15.00	-2.62	0.00

Assiut Journal For Sport Science Arts

ience Arts

Follow Schedule (9) Shows the results of the Mann-Whitney testMann-Whitney Test, Z value between scoresThe upper and lower quartiles of the variables under investigation n=5

				Upper au	artiles	Lower at	artiles	Mann	Sig
Μ		Variables	lonliness Mooguromont	Average	Total	Average	Total	Whitney	(0.05)
			Wieasurement	rank	ranks	rank	ranks	valueZ	P.Value
7-		600 meter running test	(s)	3.00	15.00	8.00	40.00	-2.66	0.00
8-	variables	Dribbling test, then passing and receiving, then deceiving with the body, then shooting	time	3.00	15.00	8.00	40.00	-2.66	0.00
9-	sive skill	Testing passing and receiving, then deception by shooting from below, then deception by shooting from above, then dribbling, then shooting	time	3.00	15.00	8.00	40.00	-2.66	0.00
10-	Complex offen	Testing passing and receiving, then dribbling, then deceiving with the body, then shooting	time	3.00	15.00	8.00	40.00	-2.66	0.00
11-		Vital capacity	(Liter)	8.00	40.00	3.00	15.00	-2.73	0.00
12-	iratory	The maximum consumption limitaAs a prisonerVO2 max	(degree)	8.00	40.00	3.00	15.00	-2.65	0.00
13-	Resp	Resting heart rate	(n/s)	3.00	15.00	8.00	40.00	-2.65	0.00

It is clear from table (9) There are statistically significant differences at a significance level of 0.05 between the two meansUpper quartiles and lower quartilesIn the variables under study, where P.Value Sig >0.05.

Second: Reliability coefficient of tests:

The stability of the tests used was found using the application and reapplication method on a sample of (10) players, and this is evident from Table (10).

Schedule (10) Shows coefficient statisticsLinkBetween the first and second applications of the variables under study n=20

M		Variables	lonliness	Fir applic	st ation	The se applic	econd ation	(R)	Sig (0.05)
			Measurement	s	Α	s	Α		P.Value
1-		22m running test in a curve	(w)	3.93	0.06	4.02	0.21	0.73	0.00
2-	oles	Front and back running test for a distance of 252 metres	(w)	77.26	3.73	78.31	4.09	0.95	0.00
3-	variat	Bend arm flexion test	(degree)	37.20	3.07	37.70	2.92	0.98	0.00
4-	'sical	Nelson motor response test	(time)	2.07	0.05	2.33	0.28	0.80	0.00
5-	Phy	800g medicine ball throw test of stability	(meter)	13.40	0.97	13.57	0.97	0.97	0.00
6-		Vertical jump test from stability	(poison)	37.96	1.46	38.21	1.63	0.98	0.00
7-		600 meter running test	(s)	2.91	0.53	3.00	0.52	0.96	0.00
8-	variables	Dribbling test, then passing and receiving, then deceiving with the body, then shooting	time	7.22	0.64	7.29	0.59	0.98	0.00
9-	offensive skill	Testing passing and receiving, then deception by shooting from below, then deception by shooting from above, then dribbling, then shooting	time	7.54	0.51	7.88	0.67	0.76	0.00
10-	Complex	Testing passing and receiving, then dribbling, then deceiving with the body, then shooting	time	6.82	0.23	7.05	0.50	0.72	0.00
11-		Vital capacity	(Liter)	5.10	0.52	5.26	0.57	0.95	0.00
12-	spiratory abilities	Maximum oxygen consumptionVO2 max	(degree)	86.41	6.67	88.31	8.17	0.92	0.00
13-	Re	Resting heart rate	(n/s)	62.82	1.64	63.67	1.80	0.74	0.00

The tabulated R value is 0.05 = 0.553

Assiut Journal For Sport Science Arts

144

It is clear from table (10There is a high correlation with statistical significance between the first application and the second application at a significance level of 0.05.Sig>0.05, which indicates the reliability of the tests.

Proposed training program:

Through a reference survey of scientific references and related studies within the researcher's knowledge, a training program was designed using exercisesInsanityAnd deep breathing to improve some physical and skill variables and recovery rates for handball players-Attachment (4).

Objective of the training program:

The training program aims to develop some physical variables, complex offensive skills, and recovery rates for handball players by designing a training program using exercisesInsanityAnd deep breathing exercisesQIGONGto identify :

- The effect of the proposed training program on some of the physical variables under investigation for handball players.

- The effect of the proposed training program on some complex offensive skills under investigation for handball players.

- The effect of the proposed training program on some of the hospitalization rates under investigation for handball players.

Fundamentals of developing the training program:

- Achieving the goal for which the training program was developed.

- The training program should be flexible.

- Gradual training loads and diversity.

- Ensure that sample members do not suffer from breathing or joint problems.

- Make sure that the training is performed correctly to avoid injuries.

Scientific foundations that must be taken into account for trainingInsanity:

- Taking into account the player's individual response during the implementation of the training program.

- Taking into account the specified time of (3 seconds) for each exercise, accompanied by (1 minute) of rest between sets.

- Gradual degree of pregnancy.

- Taking into account the principle of adaptation to training requirements.

- Consider continuity in training without interruption.

- The intensity should range between 70%-90% of the player's maximum ability.

Time distribution of the proposed training program:

After reviewing the scientific references and previous studies related to the research topic, the researcher developed a time plan for the program, represented as follows:

1	45	

-	<u>-</u> <u>-</u>	F	8
Content of the training program	Target number	The intensity used	degree of pregnancy
The total time	8 weeks	-	-
of the program			
Distribution of	The first and second week	Ranging between	Simple load
weeks of the		70-75%	
training	The third and fourth week	75-80%	Medium intensity load
program	Week five and six	80-85%	High intensity load
	Seventh and eighth weeks	85-90%	Load less than maximum
		From the player's	
		maximum ability	
Number of	3 weekly units, and the	According to the ex	ercises used and the
training units	total number of units is	training status of the	e player, taking into
	24 training units	account the progres	ssion of proportions
		with the duration	of the exercise as
		training adaptation o	ccurs.
Training unit time	90 BC	-	-
Total program time in minutes	2160 BC	-	-

Table (11)Time distribution of the proposed training program

Table (12) Distribution of the total time over the different preparation stages

							The	prepa	ratior	ı stage	durin	g the	trainiı	ıg pro	gram	period	1								
WeeksTrain	ing	6	Senera	l prep	aratio	tion stage Special physical preparation stage				Pr	Preparation stage before matches														
the week the first the second		tl	the third		th	e four	th		Fifth			VI		S	Sevent	h	VIII								
%			50%			50%			25%			25%			25%			25%			50%		50%		
Q		2	270 BC	5		270 BC	C	1	270 BC	5	1	270 BC	C	2	270 BC	C	1	270 BC	0		270 BC	5		270 BC	2
Daily unit	t	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Time of loneliness		90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
Warm up		10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Physical	%	60	60	60	65	65	65	70	70	70	70	70	70	75	75	75	75	75	75	45	40	40	35	35	35
preparation (40 minutes)	Q	42	42	42	45	45	45	49	49	49	49	49	49	52	52	52	52	52	52	31	28	28	25	25	25
Composite	%	40	40	40	35	35	35	30	30	30	30	30	30	25	25	25	25	25	25	55	60	60	65	65	65
offensive skill numbers	Q	28	28	28	25	25	25	21	21	21	21	21	21	17	17	17	17	17	17	38	42	42	45	45	45
Conclusion	n	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10

146

Contents of the training unit:

Table (13)
Contents of the training unit

				Training (time				
Parts of the training unit		Part time	the performance	Comforts	K	Mg	Rest between sets	Content	Its purpose
Warm up		10 BC	30-60s	15-30s	2	1	10s	Aerobic training using drillsQIGONGStretches for all muscles of the body	Preparing all body muscles and aerobic conditioning during the training unit
The main	Physical preparation	40 BC	30s-1s	15-30s	2	2	15s	Implementing the training program using humanistic exercises and deep breathing to prepare the joint muscles	Improving and developing the physical variables under research
part	Skilled preparation	30 BC	45s-80s	15s-30s	2	2	15s	Apply the section on complex offensive skills	Improving complex offensive skill performances
The	concluding part	10 BC	30-45s	15s	2	1	10s	Qi Gong exercises with light stretches	Preparing the body's muscles and returning the player to recovery

Table (14)

Formation of training load degrees during the weeks of the training program

Program weeks Degrees of pregnancy	1	2	3	4	5	6	7	8
Maximum load	$\overline{}$		۶	$>$				
High load 🔍	۹,			/	>			
Average load								
Simple load	$\overline{\ }$	$\mathbf{}$	•					

Duration of implementation of the proposed training program:

	1 1 1		0			
The	training program was implemented	variables	were	condu	icted	from
usin	g exercisesInsanityUsing	Saturday,	6/18/2	2022	AD,	to
drill	sQIGONGFor (8) weeks, (3) units	Wednesday	, 6/22/20	022 AI).	
per	week.	Program a	pplicati	on:		
Bas	ic study:	The	trainin	g pr	ogram	was
Pre	-measurement:	applied to t	he expei	rimenta	ıl group	from
	Scientific tests of the research	Saturday,	6/25/2	2022	AD	to
	Assiut Journal For Sport Science Arts					

Wednesday, 8/31/2022 AD.

Dimensional measurement:

The post-measurement was conducted in the same manner as the pre-measurement in the period from Saturday, September 3, 2022 AD to Wednesday, September 7, 2022 AD.

Statistical treatments:

In order to achieve the objectives of the study, the researcher used the statistical programSpss)) :

- Arithmetic mean .
- standard deviation .
- Mediator .

- Torsion coefficient.
- Klumgorov-Simmernov
- testKolmogorov-Smirnov

• Correlation coefficient (Pearson).

- Mann-Whitney testMann-Whitney Test
- Levene's testLevene`s Test.
- Graphs

Presentation and discussion of results:

First: Display the results:

Schedule (15) It shows (t) statistics and the significance of the differences between the average scores of the experimental group in the pre- and post-applicationPhysical variables

Variables	Measur ement	Average	standard deviation	Degrees of freedom	value (v)	Sig P.Value (0.05)	Improve ment rate %
22m running test in a	Tribal	4.52	0.016	0	122 47	0.00	
curve	after me	3.88	0.003	9	155.47	0.00	-14.15
Front and back	Tribal	84.60	0.028				
running test for a distance of 252	after me	73.62	0.014	9	990.48	0.00	-12.97
Bend arm flexion test	Tribal	29.38	0.021	0	1122.86	0.00	
	after me	40.20	0.016	,	-1122.00	0.00	36.82
Nelson motor	Tribal	2.13	0.003	0	104 14	0.00	
response test	after me	2.01	0.001	9	104.14	0.00	-5.63
800g medicine ball	Tribal	11.49	0.063	9	-29.66	0.00	
throw test of stability	after me	14.28	0.300		-27.00	0.00	24.28
Vertical jump test	Tribal	36.45	0.036	0	165 45	0.00	
from stability	after me	39.11	0.024	9	-103.43	0.00	7.29
600 meter running	Tribal	3.50	0.026	0	71 19	0.00	
test	after me	2.40	0.031	9	/4.48	0.00	-31.42

*The tabular (t) value is at a significance level of 0.05 = 2.26

It is clear from Table No.15) There are differences between the preand post-application of the experimental group in the physical variables under research in favor of the post-measurements, as we find that the value of (calculated T) with the level of significance P.Value Sig < 0.05.

Schedule (16) It shows the t-statistics and the significance of the differences between the average scores of the experimental group in the pre- and post-application of the complex offensive skill variables.

Variables	Measurement	Average	standard deviation	Degrees of freedom	value (v)	Sig P.Value (0.05)	Improvement rate %
Dribbling test, then passing and	Tribal	8.70	0.011				
deceiving with the body, then shooting	after me	6.60	0.033	9	215.22	0.00	-24.13
Testing passing and receiving, then deception	Tribal	8.84	0.019				
by shooting from below, then deception by shooting from above, then	after me	7.04	0.001	9	300.78	0.00	-20.36
Testing passing and receiving,	Tribal	8.16	0.003				
then dribbling, then deceiving with the body, then shooting	after me	6.59	0.005	9	889.89	0.00	-19.22

*The tabular (t) value is at a significance level of 0.05 = 2.26

It is clear from Table No.16) There are differences between the preand post-application of the experimental group in the complex offensive skill variables under research in favor of the post-measurements, where we find that the value of (calculated T) is with the level of significance. P.Value Sig < 0.05.

Schedule	(17)
----------	------

It shows the t-statistics and the significance of the differences between the average scores of the experimental group in the pre- and post-application of respiratory abilities.

Variables	Measur ement	Average	standard deviation	Degrees of freedom	value (v)	Sig P.Value (0.05)	Improve ment rate %
Vital capacity	Tribal	4.38	0.018	9	-	0.00	
	after me	5.60	0.024		124.80	0.00	27.85
Maximum oxygen	Tribal	72.91	0.032	0	-	0.00	
consumptionVO2	after me	92.90	0.053	9	1716.9	0.00	27.41
Resting heart rate	Tribal	65.23	0.248	0	37 10	0.00	
	after me	61.31	0.322		57.10	0.00	-6.00

*The tabular (t) value is at a significance level of 0.05 = 2.26

Assiut Journal For Sport Science Arts

It is clear from Table No.17) There are differences between the preand post-application of the experimental group in the respiratory abilities under study in favor of the post-measurements, as we find that the value of (calculated T) with the level of significanceP.Value Sig < 0.05.

Schedule (18)

It shows the t-statistics and the significance of the differences between the group average scoresFemale officerIn the pre- and post-application of physical

Variables	Measur ement	Averag e	standard deviation	Degrees of	value (v)	Sig P.Value	Improve ment
22m running test in a	Tribal	4.51	0.050	Q	19.20	0.00	
curve	after me	4.00	0.047	,	17.20	0.00	-
Front and back running	Tribal	84.59	0.015				
test for a distance of 252	after me	80.90	0.031	9	341.70	0.00	-4.36
Bend arm flexion test	Tribal	29.40	0.047	9	- 182.70	0.00	
	after me	34.19	0.048			0.00	16.29
Nelson motor	Tribal	2.13	0.001	0	16 11	0.00	
response test	after me	2.12	0.003	9	10.11	0.00	-0.46
800g medicine ball	Tribal	11.50	0.047	0	14.01	0.00	
throw test of stability	after me	12.35	0.201	9	-14.31	0.00	7.39
Vertical jump test	Tribal	36.48	0.064	0	0.26	0.00	
from stability	after me	36.40	0.959	9	0.26	0.00	-0.29
600 meter running	Tribal	3.47	0.031	0	1 /0	0.00	
test	after me	3.41	0.110	9	1.49	0.00	-1.72

variables

*The tabular (t) value is at a significance level of 0.05 = 2.26

It is clear from Table No.18) There are differences between the group's pre- and postapplicationFemale officerIn the physical variables under investigation, in favor of dimensional measurements, we find that the value of (calculated T) corresponds to the level of significanceP.Value Sig < 0.05, except for the testVertical jump from standstill,600 meter running testThere are no significant differences.

Schedule (19) It shows the t-statistics and the significance of the differences between the group average scoresFemale officerIn the pre- and post-application of complex offensive skill variables

Variables	Measurement	Average	standard deviation	Degrees of freedom	value (v)	Sig P.Value (0.05)	Improvement rate %
Dribbling test, then	Tribal	8.70	0.024				
passing and receiving, then deceiving with the body, then shooting	after me	7.84	0.006	9	116.92	0.00	-9.88
Testing passing and	Tribal	8.84	0.003				
receiving, then deception by shooting from below, then deception by shooting from above, then dribbling, then shooting	after me	8.04	0.002	9	1100.31	0.00	-9.04
Testing passing and	Tribal	8.15	0.002				
receiving, then dribbling, then deceiving with the body, then shooting	after me	7.04	0.005	9	775.05	0.00	-13.66

*The tabular (t) value is at a significance level of 0.05 = 2.26It is clear from Table No.19) variables under

It is clear from Table No.19) There are differences between the preand post-application of the control group in the complex offensive skill variables under research in favor of the post-measurements, as we find that the value of (calculated T) is with the level of significance.P.Value Sig < 0.05.

Assiut Journal For Sport Science Arts

Schedule (20)
It shows the t-statistics and the significance of the differences between the group average
scoresFemale officerIn the pre- and post-application of respiratory abilities

Variables	Measurement	Average	standard deviation	Degrees of freedom	value (v)	Sig P.Value (0.05)	Improvement rate %
37', 1 ',	Tribal	4.35	0.033	0	11.01	0.00	
Vital capacity	after me	4.60	0.050	9	-11.31	0.00	5.74
Maximum	Tribal	72.92	0.016		-		
consumptionVO2 max	after me	79.90	0.033	9	619.65	0.00	9.57
Resting	Tribal	65.20	0.009	0	158 70	0.00	
heart rate	after me	64.40	0.015	, ,	130.79	0.00	-1.22

*The tabular (t) value is at a significance level of 0.05 = 2.26

It is clear from Table No.20) There are differences between the group's pre- and postapplicationFemale officerIn the respiratory capabilities under investigation in favor of dimensional measurements, we find that the value of (calculated T) corresponds to the level of significanceP.Value Sig < 0.05.

Schedule (21)

Explains the significance of the differences between the average scoresSample of the experimental and control groupsinDimensional measurements ofvariablesPhysicalunder consideration n: 10

Variables	the group	Average	standard deviation	the difference Between averages	value (v)	Sig P.Value (0.05)
22m running test in	Experimental	3.88	0.00	0.12	<u>۹ 07</u>	0.00
a curve	Female officer	4.00	0.05	-0.12	-8.07	0.00
Front and back running test	Experimental	73.62	0.01	-7.28	-	0.00
for a distance of 252 metres	Female officer	80.90	0.03	7.20	687.46	0.00
Bend arm flexion	Experimental	40.20	0.02	6.01	378.30	0.00
test	Female officer	34.19	0.05	0.01	010100	
Nelson motor	Experimental	2.01	0.00	-0.11	-96 80	0.00
response test	Female officer	2.12	0.00	0.11	20.00	0.00
800g medicine ball	Experimental	14.28	0.30	1.02	16.91	0.02
throw test of stability	Female officer	12.35	0.20	1.95		0.05
Vertical jump test	Experimental	39.11	0.02	0.71	0.02	0.00
from stability	Female officer	36.40	0.96	2.71	8.93	0.00
600 meter running	Experimental	2.40	0.03	1.01	27.09	0.01
test	Female officer	3.41	0.11	-1.01	-27.98	0.01

*The tabular t-value is at a significance level of 0.05 = 2.10

Assiut Journal For Sport Science Arts

The table shows (21) There are statistically significant differences between the post-measurements of the two groups (experimental and control) in the physical variables under study in favor of the experimental group, as the calculated t-value is greater than the tabulated t-value at a significance level of 0.05.

Schedule (22)

Explains the significance of the differences between the average scoresSample of the experimental and control groupsinDimensional measurementsFor complex offensive skill variables n: 10

Variables	the group	Average	standard deviation	the difference Between averages	value (v)	Sig P.Value (0.05)
Dribbling test, then passing and	Experimental	6.60	0.03	1.24	11576	0.00
the body, then shooting	Female officer	7.84	0.01	-1.24	-115.70	
Testing passing and receiving, then deception by shooting from below, then deception by shooting from above, then dribbling, then shooting	Experimental	7.04	0.00		-	
	Female officer	8.04	0.00	-1.00	1254.36	0.00
Testing passing and receiving, then dribbling, then deceiving with the body, then shooting	Experimental	6.59	0.00	0.45	204.06	0.00
	Female officer	7.04	0.01	-0.43	-204.90	0.00

*The tabular (t) value is at a significance level of 0.05 = 2.10

The table shows (22) There are statistically significant differences between the post-measurements of the two groups (experimental and control) in the complex offensive skill variables under study in favor of the experimental group, as the calculated t-value is greater than the tabulated t-value at a significance level of 0.05.

Schedule (23)

Explains the significance of the differences between the average scoresSample of the experimental and control groupsinDimensional measurements of respiratory capacityunder consideration n: 10

Variables	the group	Average	standard deviation	the difference Between averages	value (v)	Sig P.Value (0.05)
Vital capacity	Experimental	5.60	0.02	1.01	57.55	0.00
	Female officer	4.60	0.05	1.01		
Maximum oxygen	Experimental	92.90	0.05	12.00	659.22	0.00
consumptionVO2	Female officer	79.90	0.03	13.00		0.00
Resting heart rate	Experimental	61.31	0.32	-3.09	-30 35	0.00
	Female officer	64.40	0.02	5.07	50.55	0.00

*The tabular (t) value is at a significance level of 0.05 = 2.10

The table shows (23) There are statistically significant differences between the post-measurements of the two groups (experimental and control) in the respiratory capabilities under study in favor of the experimental group, as the calculated T-value is greater than the tabulated T-value at a significance level of 0.05.

Second: Discussing the results:

Discussing the results of the first hypothesis:

Which states (There are statistically significant differences between the preand postmeasurements of the experimental group in the level of some physical variables, complex offensive skills, and respiratory abilities under investigation in favor of the post-measurement.).

clear fromSchedule It is (15)Concerning the significance of the differences between the pre- and postexperimental measurements of the favor of the group in postmeasurements in the physical variables under investigation, as the calculated (t) value was limited to (-1122.86: 990.48), which is statistically significant in all physical tests because it is greater than the tabulated (t) value at The level of significance was 0.05 and equal to 2.26, which reached the highest percentage of improvement in the testBend the arms from prone positionA percentage improvement rate of (36.82%).

It is clear fromSchedule (16)Concerning the significance of the differences between the pre- and postmeasurements of the experimental favor of the postgroup in measurements in the composite offensive skill variables under investigation, as the calculated (t) value was limited to (215.22: 889.89), which is statistically significant in all composite offensive skill tests because it is greater than the (t) value.) tabulation at a significance level of 0.05 and equal to 2.26, as the highest percentage of improvement was achieved in the testDribbling, then passing, receiving, then deceiving with the body, then shootingA percentage improvement of (-19.22%).

The researcher attributes that the humanistic trainingInsanityIt led to a positive impact on the experimental group's physical tests and offensive skills and the sample members' regularity in training during the period of the proposed training program.

Ayman Al-Suwaify (2017) (4) states that the humanistic training program affects in a positive way the improvement of physical variables (endurance, strength, speed, muscular ability of the arms and legs, and speed of reaction) and that humanistic training has a clear role in developing the physical variables, which in turn is reflected in improving skill performance.

Walid Hassan (2020 AD) (28) also indicates that human training has a positive effect on the development of skill performance, which also leads to a clear improvement in the level of physical variables, which increases the rates of improvement in skill performance. and deep breathing training also plays an important role in the speed of the player's recovery and his ability to recover. Trying to struggle and continue within the match to achieve the desired goal and persevere in exerting effort throughout 60 seconds so that he can overcome the difficulties he faces during the match, which helped adapt the performance of the experimental group.

In this regard, Abdul Hamid Muhammad (2021 AD) confirms:**Peter Kavacs (2002 AD)**The main factor associated with achieving high and distinguished levels, raising the level of players, depends on the player's ability to endure the performance, as it is the greatest common factor for the player to reach the sporting form and optimal skill performance for the longest possible period during the match without a decrease in the level of performance. (10:73), (35:136)

This is consistent with the results of the study of Sayed Abu Zaid (2021AD) (7), Shaima Faraj (2019AD) (8), and Walid Hassan (2020AD) (28) that insanti training includes many benefits such as increasing muscular ability, performance endurance, speed, etc., and also It increases the capacity of the respiratory and cardiac systems and increases the ability to adapt performance. It has a positive effect on physical and skill variables.

It is clear fromSchedule (17) Concerning the significance of the differences between the pre- and postmeasurements of the experimental in favor of the group postmeasurements in the respiratory capacity under investigation, as the calculated (t) value was limited to (-1716.94: 37.10), which is statistically significant in all respiratory capacities because it is greater than the tabulated (t) value at The level of significance was 0.05 and equal to 2.26, which reached the highest percentage of improvement in the test**Vital** capacityA percentage improvement rate of (27.85%).

The researcher attributes the of statistically significant results differences for the experimental group in the respiratory function variable to positive effect the of using exercisesInsanityOn the components of the structural structure of the variables under research and the suitability of the proposed training program for the research sample according to the abilities and capabilities of the sample members, taking into account the diversity of the exercises used.

Samia Mahran (2021 AD) mentions that humanistic training is one of its most important features: high efficiency and gradual intensity between simple and high, as it contributes greatly to improving the training condition of the players. (6:191)

And everyone agreesJensen and Fisher (1985 AD), Muhammad Allawi (1994 AD), Essam Abdel Khaleq (2003 AD)The exercises included in the training program must be compatible with the nature of the sporting activity practiced in order to make the practice more positive and the desired achieve results in competition, as it is the basis for reaching high levels and thus is reflected in the training situation.

(33:139), (20:68), (11:97) These results are consistent with the results of the study of Samia Mahran (2019AD) (6), Shaima Faraj (2019AD) (8), Hamdi Al-Sayed Abdel Hamid (2022AD) (5), Kanang et al.Kanang et al.(2014) (34), alFernandez Fernandez et et al.(2006AD) (30)That drillsInsanityIt has a positive effect in improving the technical performance of players, whether physically or skillfully, and has many benefits, including increasing the player's ability to endure performance and cyclic respiratory endurance, which in turn is reflected in improving the ability of the

respiratory system and heart and increasing the ability to adapt to performance, and this is what the researcher confirmed that during the use of training exercisesInsanityCare was taken to select the most specialized exercises and employ them in a way that was appropriate for the experimental sample.

The researcher also confirms that the development of the experimental group in physical and skill performance is not limited to intense deep breathing exercises. QIGONGIt also plays an important role in supporting the handball player's rapid recovery and resistance to fatigue by developing aerobic endurance and pumping large amounts of oxygen. This contributed greatly to storing energy for the members of the main sample. The researcher also relied on deep breathing exercises.QIGONGDuring the warmup periods, the rest period between sets, and the cool-down with motor performance to bring the players to a normal state and speed up recovery from the impact of the training unit.

It confirms bothStudy by Sayed Abu Zaid (2021 AD) (7), and study by Tae-Yun Kima, Jung Hoon KimTea Yoon Kima, Jung Hyun Kim(2020AD) (38)On the importance of exercisesQIGONGIn recovery and mobilizing the energies of the players through deep breathing exercises and

contemplating the goal to be achieved in bearing the burden of training to improve the level through what is called (the life card) (breathing).

Therefore, the researcher believes that building an aerobic base and saving a reserve of aerobic energy for the handball player while building training units with high-intensity intensity plays an important role in improving and developing the player's training condition, and this is reflected in the player's ability to continue during the two halves of the match (60 seconds) with the same effectiveness and efficiency at which it begins. The match progresses with the training level away from traditional methods.

Therefore. researcher the confirms that trainingInsanityAssociated with high performance and little rest. it constitutes a burden on the circulatory and respiratory system, and this appears during the application period (8) weeks, which contributes to the occurrence of functional adaptation improvement and of respiratory capabilities, as the heart rate may reach the maximum limit of the player's ability, and here it shows us the effectiveness of the exercises. QIGONGWhich is performed during rest periods between sets during trainingInsanityAlso, during the warmup and closing period, we find that it clearly contributes to the expansion of the lungs and the absorption of a greater amount of oxygen and its transfer to the blood and from there to the working muscles, which increases the player's oxygen consumption capacity and improves functional capabilities.

Through the previous presentation and discussion of the first hypothesis of the research, we find that it has been achieved procedurally.

Discussing the results of the second hypothesis:

Which states (There are statistically significant differences between the preand postmeasurements of the control group in the level of some physical variables, offensive skills, complex and respiratory abilities under investigation in favor of the post-measurement.).

It is clear fromSchedule (18)Concerning the significance of the differences between the pre- and postmeasurements of the control group in favor of the post-measurements in the physical variables under study, as the calculated (t) value was limited to (-182.70: 341.70), which is statistically significant in all physical variables because it is greater than the tabulated (t) value at The level of significance was 0.05 and equal to 2.26, which reached the highest percentage of improvement in the testBend the arms from prone positionA percentage improvement of (16.29%).

Assiut Journal For Sport Science Arts

157

It is clear fromSchedule (19)Concerning the significance of the differences between the pre- and postmeasurements of the control group in favor of the post-measurements in the composite offensive skill variables under investigation, as the calculated (t) value was limited to between (116.92: 1100.31), which is statistically significant in all the composite offensive skill variables because it is greater than the (t) value.) tabulation at a significance level of 0.05 and equal to 2.26, as the highest percentage of improvement was in the testPass and receive then cheat palShoot from below, then trick by shooting from above, then dribbleThen straightenA percentage improvement rate of (9.04%).

fromSchedule It is clear (20)Concerning the significance of the differences between the pre- and postmeasurements of the control group in favor of the post-measurements in the respiratory abilities under investigation, as the calculated (t) value was limited to (-619.65: 158.79), which is statistically significant in all respiratory abilities because it is greater than the tabulated (t) value at The level of significance was 0.05 and equal to 2.26, which reached the highest percentage of improvement in the testMaximum oxygen consumptionVO2 maxA percentage improvement rate of (9.57%).

The researcher attributes the results of the post-measurements of the control group to being a logical result for the sample members during the period of implementation of the training program followed by the team coach. The researcher attributes this slight improvement to the regularity of the control group members in training, as the coaches neglect to pay attention to deep breathing exercises and the necessity of taking into account and monitoring respiratory abilities. For the players, they rely on traditional exercises within the unit, such as stretching and flexibility only, periodic respiratory endurance during the warm-up period, general physical preparation only, and no development in aerobic and respiratory exercises, despite the necessity of monitoring the functional status of the player in order not to create a physiological burden on the player's respiratory and circulatory systems, so there is improvement in the group members. The control group, but to a small extent, and also the continuation of the control group in training is considered one of the important principles of training within the framework of continuity of training, and it is one of the reasons for the improvement of the control group in the variables under study.

Mounir Girgis (2004 AD) states that the requirements of the handball player are important factors for

achieving complex skill performance in handball. It requires physical elements that are appropriate to the nature of the skill performance. Therefore, developing physical fitness elements helps the player to protect the offensive position throughout the match and thus behave well and achieve the best performance. Results . (26:57)

Kamal Darwish, Qadri Morsi, and Imad al-Din Abu Zaid (2002 AD) confirm that the skill requirements are the player's ability to score the largest number of goals and that this can only be achieved by mastering performance without a decline in physical and functional level. (15:47)

This is consistent with the results of each study Muhammad Ashraf (2004 AD)(16),Shaima Faraj (2019AD) (8), Samia Mahran (2019AD) (6),childHassan(2020 AD) (28), Muhammad Kazem (2015 AD) (25).

Through the previous presentation and discussion of the second hypothesis of the research, we find that it has been achieved procedurally.

Discussing the results of the third hypothesis:

Which states (There are statistically significant differences between the post-measurements of the experimental and control groups at the level of some (physical variables, complex offensive skills, and respiratory abilities under investigation in favor of the experimental group)).

It is clear fromSchedule (21)Figure (1) of the significance of the differences between the postmeasurements of the experimental and control groups in favor of the experimental group in the physical variables under study, as the calculated (t) value was limited to (-687.46: 378.30), which is statistically significant in all physical variables because it is greater than the value (T) The tabulation is at a significance level of 0.05 and equal to 2.10, as it reached the highest statistical significance in the test Throw an 800g medicine ball from stabilityIt reached (0.03).

It is clear fromSchedule (22) And Figure (2) of the significance of the differences between the postmeasurements of the experimental and groups in control favor of the experimental group inFor complex offensive skill variablesUnder investigation, as the calculated (T) value was limited to (-1254.36: -115.76), which is statistically significant in all cases.For complex offensive skill variablesBecause it is greater than the tabulated (t) value at a significance level of 0.05, which is equal to 2.10.

It is clear fromSchedule (23)And Figure (3) of the significance of the differences between the post-

measurements of the experimental and in control groups favor of the experimental group **Respiratory** capabilities Under investigation, as the calculated (T) value was limited to (-30.35: 659.22), which is statistically significant in all cases. Respiratory capabilities Because it is greater than the tabulated (t) value at a significance level of 0.05, which is equal to 2.10.

The researcher attributes this clear improvement through presenting the results to the application of the training program using humanistic exercisesInsanityIn physical the variables, complex offensive skills, and capabilities respiratory under investigation for the benefit of the experimental this depends group, following scientific primarily on principles and foundations in training in order to achieve the desired goal.

The researcher attributes the results reached by the control group to the regularity of the group members in the usual daily training and following and the scientific rules. clear improvement in the physical and skill tests of the experimental group is due to the proposed program in addition to the continuous competition among the sample members to achieve the best technical level. We should also not forget that good planning For the humanist program using Qi Gong exercisesQIGONGIt led to a clear improvement the respiratory in

capabilities of the experimental group during the training program period (8) experimental weeks. The group achieved positive results in improving respiratory efficiency and lung expansion compared to the control group. Results showed less improvement of in favor the experimental group.

This is confirmed by Aya Farid (2019), that the ultimate goal of those working in the sports field is to improve and develop performance and achieve sports achievement based on scientific research to improve sports performance and achieve achievements. (3:1)

Cheng adds Sheng(2015AD) (37), James ReiferJames Driver (2012AD) (**32**)Qi gong training helps burn fat and improve the breathing process, which helps enhance health and allows the player to withstand the effort expended during the match without dropping in level. Humanistic training also achieves a high level of time compared to other forms of training and thus improves athletic performance.

Hilki Jackson confirms this Hailey Jackson (2019AD) (31) Aerobic and anaerobic training contribute greatly to burning fat and gaining a good level of fitness, as any human training plays a role in improving the player's physical fitness, in addition to deep breathing training, 160

which helps effectively and clearly in improving the level of the player's respiratory efficiency, and this is reflected in achieving high athletic levels.

This is consistent with the study of Walid Hassan (2020AD) (28), Sayed Abu Zaid (2021AD) (7), Shaima Faraj (2019AD) (8), Hamdi Al-Sayyid Abdel Hamid (2012AD) (5), and Ayman Al-Suwaifi (2017AD). (4) Human training using qi gong exercises has led to building an aerobic base for the player and increasing the ability to continue in the match throughout a period of 60 minutes without feeling tired and stressed. Rather, his performance appears well, which is reflected in the combined physical and skill performance of the experimental group, so he has an effective role in positive The technical level of the player and he can perform his physical, skill and tactical duties in a fairly integrated manner and demonstrates his proficiency in the art of the game and carrying out his required duties on the field with quality and effectiveness.

Through the previous presentation and discussion of the third hypothesis of the research, we find that it has been achieved procedurally. Conclusions and recommendations: Conclusions:

In light of the objectives and hypotheses of the research and the

presentation and discussion of the results, the following conclusions can be drawn:

1- Impact exercises Insanity And deep breathing QIGONG Positive effectin Improvement of some respiratory variables under investigation.

2- Impact exercisesInsanityAnd deep breathingQIGONGPositive effectinSome physical variables are under investigation.

3- Impact exercises Insanity And deep breathing QIGONG Positive effectin Some complex offensive skill variables under investigation.

Recommendations:

In light of the research findings, the researcher recommends the following:

1- Educating trainers about the importance of trainingInsanityTo increase functional and respiratory efficiency.

2- The need to shed light on the application of trainingInsanityAnd deep breathingQIGONGIn various sports activities and various age stages.

3- Trainers' interest in using exercisesInsanityWhile training special teams to help them raise their physical and skill levels.

4- Conduct more similar scientific studies in the field of trainingInsanityAnd deep breathing.

5- It is necessary to educate trainers about the importance of deep

breathing exercisesQIGONGIn recovery and meditation in training modules and developing respiratory abilities.

6-It is necessary to pay attention to monitoring, evaluating and developing training programs and good planning for rest periods.

the reviewer

First: Arabic references:

Omnia Muhammad Mansour (2015 AD):Effect of

exercisesQIGONGChinese breathing exercises to learn shooting skills in basketball for female students in the second year of the Faculty of Sports for Girls, Education published research, Journal of Physical Education Research. Faculty of Physical Education for Boys, Zagazig University, No. 99, Part 53.

Amin Anwar Al-Khouly, Jamal Al-Din Al-Shafi'i (2001 AD): Tennis (history-Skills-rules of play)Dar Al-Fikr Al-Arabi, Cairo.

Ava Muhammad Farid (2019 AD): The effect of using beta-alanine as a nutritional supplement on some biochemical physiological and variables and the effect of fatigue in athletes, Master's thesis, Faculty of Physical Education. Mansoura University.

Ayman Muhammad Al-Swaify (2017 AD): The effect of human training with arginine intake on some physiological variables and the effectiveness of the skill performance of squash players, published research, Assiut Journal of Physical Education Sciences and Arts, Faculty of Physical Education, Assiut University.

Hamdy El-Sayed Abdel Hamid (2012 **AD**): The effect of Asanati exercisesInsanityTaking beta-alanine as a nutritional supplement improves cardiorespiratory fitness, delays the onset of fatigue and the digital level of 1500m/run published runners, research, Assiut Journal of Physical Education Sciences and Arts, Faculty of Physical Education, Assiut University.

Samia Ismail Ahmed Mahran (2021 AD):Effect of using drillsInsanityOn developing the level of some physical variables, defensive performance, and psychological flow among female basketball players, published research, Scientific Journal Physical of Education and Sports Sciences, vol. 92, no. 4, Faculty of Physical Education, Helwan University.

Sayed Muhammad Abu Zaid (2021 AD):Effect of exercisesQIGONGOn some rates of physical recovery and a measure of the technical performance of the pumza in taekwondo, vol. 62, no. 62, published research, Scientific Journal of Sports Sciences and Arts, Faculty of Physical Education for Girls, Helwan University.

Shaima Faraj Saleh Muhammad (2019 AD): The effectiveness of using

humanistic training on the level of some physical variables and the level of skill performance in handball, published, Scientific Journal of Sports Sciences, Faculty of Physical Education, Minya University.

Shaima Muhammad Abu Zaid Abdel Fattah (2021 AD):Effect of exercisesInsanity CardioOn improving the physical and skill variables and the level of performance of Taekwondo players' offensive skills, published research, Scientific Journal Theories and Applications, College of Physical Education for Girls, No. 59.

Mohamed Abdel Hamid Abdel Hamid (2021 AD): The effect of Sakyo training on reactive agility and endurance performance among boxers, Suef of Beni Journal Physical Sciences. Education and Sports Volume 4, No. 8, Faculty of Physical Education, Beni Suef University.

Essam El-Din Abdel Khaleq (2003 **AD**):Sports training (theories-**Analytics-applications**)11th edition, Dar Manshaet Al Maaref, Alexandria.

Effat Rashad (2015 AD)Technical rules and incentives that contribute to the development of technical and performance, physical unpublished notes, Studies of Coaches in the Egyptian Handball Federation, 3rd edition.

Ali Fahmy Al-Beik, Muhammad Al-Dabin Abbas Abu Zaid, Muhammad Ahmed Abdo (2009): Series of Modern Trends in Sports Training (Theories-applications) Part Four, Planning Sports Training, First Edition, Manshaet Al Maaref. Alexandria.

Imad Al-Din Abbas Abu Zaid (2005 **AD**): Planning and scientific foundations for building and preparing the team in group games (theories and applications) Knowledge facility, Alexandria.

Kamal Al-Din Abdel Rahman Darwish, Qadri Sayyed Morsi, Imad Al-Din Abbas Abu Zaid (2002 AD): Measurement, evaluation, and match analysis in handball (theories-Applications), Al-Kitab Publishing Center, Cairo.

Muhammad Ashraf Kamel (2004 **AD**):The impact of developing some complex deceptive skill performances on the effectiveness of attack in handball, PhD thesis, Faculty of for Physical Education Boys, Alexandria University.

Muhammad Abdel-Aleem Al-Jabri, Hamdi Al-Sayyid Al-Nawasri (2022 AD): The effect of human training and al-Bayan Alanine taking as а nutritional supplement on cardiorespiratory fitness, delaying the onset of fatigue, and the digital level of 1500 m running runners, published research, Assiut Journal of Physical Education Sciences and Arts, Volume 61, No. 1, Faculty of Physical Education, Assiut University.

Muhammad Tawfiq El-Walely (2009 AD):Handball between theory and practice, Dar Al-Fikr Al-Arabi, Cairo.

Muhammad Jassim Al-Yassara (2010)**AD**): The theoretical foundations of physical education tests, House of Books and Documents, Baghdad.

Muhammad Hassan Allawi (1994 AD):Sports Training Science, Dar Al Maaref, Cairo.

Muhammad Khaled Hamouda, Jalal Kamal Salem (2008 AD): Attack and defense in handball, Al-Maaref facility, Alexandria.

Muhammad Sobhi Hassanein (2004): Measurement and evaluation in physical education and sports.Part Two, Dar Al-Fikr Al-Arabi, Cairo.

Muhammad Abdel Aziz Abdel Rijal (2017)**AD**):Effect of exercises OIGONGOn physiological some variables in soccer players, unpublished master's thesis, Faculty of Physical Education, Helwan University.

Muhammad Abdullah Abdul Al-Madare (2012 AD): The effect of developing physical attributes, in light of their contribution rates, on the level of skill performance, and some physiological variables for handball players, unpublished doctoral Faculty of dissertation. Physical Education for Boys, Benha University. Muhammad Mahmoud Kazem (2015 AD):Endurance of skill performance

and its relationship to some physiological variables for youth handball premier league players, published research, Journal of Physical Education Sciences, Volume 8, Issue 3, Faculty of Physical Education, Helwan University.

Mounir Girgis Ibrahim (2004 AD): Handball for everyoneDar Al-Fikr Al-Arabi, Cairo,

Naglaa Muhammad Ibrahim Salah Hassan (2021 AD):Effect of circuit and exercisesOIGONGOn training improving some physical abilities, physiological measurements, and basic stroke strength in tennis, published research, Scientific Journal of Sports Sciences and Arts, Volume 67, Faculty of Physical Education for Girls, Helwan University.

Walid Muhammad Hassan Muhammad (2020 AD): The effect of a human training program on some physical variables and the performance level of volleyball players, published research, Scientific Journal of Physical Education and Sports Sciences, Faculty of Physical Education for Boys, Helwan University.

Yasser Dabour (2001): Tactical preparation in handballAbu Daher, Publishing Group, Cairo.

Second: Foreign references:

Fernandez - Fernandez. A Medez -Villanueva, B. M. Pluim (2006): Insanity of tennis match play, May

Hailey Jackson (2019): Yoga for weight loss, burn fat, look better and fall younger, insight health communications.

James Driver (2012): High intensity training interval explained createspace independent publishing platform form.

Jensen R., Dlyne Fisher A. (1985): Scientifibsis of athletic conditioning led, episer Philadelphelia.

KanangSrihirun,WanchaiBoonrod,TimothyD.Mickleborough, Daroonwan Suksom(2014): The effect of no-court Vs. Off-
court interval training on skilled tennisperformance and tolerance to fatigue in
young male tennis players, 11-20,
Article on Journal of the American
Society of Exercise Physiologists.

PeterKavacs(2002):HandballSymosiumforcoachessubstitutiontacticstop, IHF, Portugal.

Peter Kavacs (2002): Substituation tactics, top Andebol, Symposium for coaches ihf, Porugal.

Sheng (2015): Effect of aerobic exercise on the maximum oxygen uptake of obese college students, Tech Pract Fight, 10, pp 12-13.

Tea Yoon Kima, Jung Hyun Kim (**2020**): High school baseball players' experiences with static QIGONG training: A qualitative and complementary approach, Therapies in Clinical Practice.

Velmurgan G. (2012): Effects of speed, agility, quickness training method on, among men kabaddi players, Indian Journal of Applied Research, Volume 3m Issue 11, 45.

Wang, J.S. Chen, Sy., Wo., M.K. (2002): Taichi chuan training is associated with enhanced endothelium dependent dilation in skin vasculature of healthy old men, University, Taiwan.

http://www.beachbody.com/product/fit ness-programs/insanity.com1/6/2015