A suggested vision of crisis management of swimming pools \*Dr/ Samah Mohammed Amin Halawa Research Introduction & Problem

Crisis management is considered one of the main of elements anv administration's success or failure: as risk accompanies any athletic administration either from the technical or the administrative aspects. It is wrong to think that the leader fullv secure his can administration from risks: the leader's responsibility lies in reducing the occurrence of crises or predicting the risks that accompany the activity or the administration.

Crisis management requires quick response and admitting the truth. also challenging the crisis and facing it is always better than escaping, the administration should also admit another truth which is that watch pointers always move forward, and that time never goes back. (10) Crisis management is nothing but the result of absence of

planning, policies or strategies; as administration does not move unless there is a crisis. (2)]

It is necessary for any establishment that is keen on continuing its progress to make a continuous evaluation of all aspects of work in it; as evaluation and its programs became in the modern age relevant to all the operations played by the educational establishments. Because without it, you can't know the reasons of the success achieved or the difficulties you may face. consequently, no development can be done. (1)]

When the crisis occurs, it requires taking the hardest and quickest decisions; the main characteristic of leading the crises is to keep things simple and to ask people to do things or works they are trained on and not to do new and unusual works. (3)]

There are many difficulties face the directors of swimming pools which cause lots of crises, for example,

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when a fire occurs in the swimming pools or a drowning or chlorine leaking or electric damage or lighting black out during training, swine flu and its role in reducing practice in the swimming pools or few numbers of activity practices or the crises that may happen in the interior tournaments or any other expected crises.

Therefore, we must put a strategic vision to help administrations, and directors swimming pools of in particular to manage the crisis and to know the reasons behind its occurrence and how to avoid it and manage it using scientific methods and to evaluate it in order to avoid its occurrence again.

#### **Research Aims:**

Research aims to make a suggested vision to manage the crises which swimming pools face through recognizing the following:

1- The reasons of crises in swimming pools.

2- Avoiding crises in swimming pools.

3- The scientific method of crises management in swimming pools.

4- Evaluation methods of administration performance in swimming pools.

#### **Research Questions:**

1- What are the reasons of crises in swimming pools?

2- How to avoid the crises in swimming pools?

3- What is the scientific method of crises management in swimming pools?

4- What are the evaluation methods of management performance in swimming pools?

#### **Research Term:**

Crises Management: is the ability of the decision maker to manage the crisis, before, during and after its occurrence, and to avoid its negative side and benefit from the positive one.

[Mahmoud Abu Samra, Mohammed Eltity, and Faten Ashour (2012), (10)] Research Procedures:

First: research Method:

The researcher used the descriptive method "survey study" as it suits the nature of the research.

Second: Research Society & Sample

#### **A-** Research Society:

The research society of this study represents "directors – deputy directors – administrative staff – rescuers" in the clubs' swimming pools of both governorates of (Cairo – Giza).

#### **B-** Research Sample:

The research sample of this study is represented in "directors – deputy directors – administrative staff – rescuers" in the clubs' swimming pools; their number was (101), the researcher chose the research sample deliberately.

# Third: Tools of Data Gathering:

### A- Scientific References & Researches:

The researcher reviewed many scientific references and researches and the previous studies that addressed the fields of administration, athletic administration, tests and measurements, and the crises management in the athletic field.

### B- Designing the questionnaire form:

The researcher designed a study questionnaire form of "a suggested vision of crises management in swimming pools", the researcher used the steps of questionnaire building according to the rules of scientific research.

# C- Knowing the experts' opinions:

The researcher put the suggested phrases in the questionnaire form, then, it was displayed on (5) experts in the field of athletic administration, enclose (2).

Inch	er centage or enpere s agre	emene on question	
No.	Axes	Experts' opinion agreement	percentage
1	Reasons of crises occurrence in swimming pools.	5	100%
2	Factors of safety & security in swimming pools.	3	60%
3	Avoiding crises in swimming pools.	5	100%

### Table (1)The percentage of expert's agreement on questionnaire axes N= 5

6

The <b>p</b>	percentage of expert's agre	ement on question	nnaire axes N= 5
No.	Axes	Experts' opinion agreement	percentage
4	How to prepare for crises management in swimming pools	2	40%

5

5

Follow Table (1)

Table (1) show that the axes of the questionnaire "a suggested vision of crises management in swimming pools" have been determined. its relative importance percentage was between (40% - 100%) though the results of the experts' poll form, the researcher approved the percentage (100%)to determine the preliminary axes of the questionnaire form.

The scientific method of crises management in swimming pools.

The evaluation methods of crises management in swimming pools.

Then, the researcher put the phrases of the open questionnaire form; its number was (51) phrases distributed on (4) axes, and she displayed the phrases of each axis on the experts; enclose (3) to check

the reasonable validity and that the suggested phrases are suitable for each axis, and how far are the suggested phrases formation suitable for the axis they belong, and how far can we omit, adjust or add other phrases. Through knowing the opinions, the experts' researcher could determine the relative importance of the experts' agreement,

100%

100%

The next table clarifies number of the 2 the questionnaires phrases in their preliminary shape and the number of the omitted phrases and their figures according to knowing the experts' opinions.

#### Tables (2)

The number of questionnaire's phrases in its preliminary shape and the number of the omitted phrases and its figures according to the percentage of experts' opinions

No.	Axes	Number of axis's preliminary phrases	Number of omitted phrases	Number of initial phrases	figures of omitted phrases
1	Reasons of crises occurrence in swimming pools.	١٥	,	14	8
2	Avoiding crises in swimming pools	١٢	١	11	10
3	The scientific method of crises management in swimming pools	١٢	`	11	6
4 administration performance in swimming pools		١٢	_	12	
	Total	51	01	48	

Table (2) shows the number of questionnaire's phases in its preliminary shape, the number of the omitted phrases from each axis, the number of the axis's phrases after excluding the omitted phrases and the figures of the omitted phrases according to the percentage of experts' opinions.

Thus, the total number of questionnaire's phrases "the suggested vision of crisis

managementinswimmingpools"became (48)phrases.Fourth:theScientificTransactionsofthequestionnaire:became (48)became (48)

1- The studies form validity:(A) the judges' validity(the reasonable validity):

The researcher used the judges' validity (the reasonable validity), as the form in its preliminary shape enclose (3) was displayed on (5) experts (judges), and the researcher

considered the percentage of experts' agreement on the questionnaire's phrases a proof of its validity.

### (B) Validity of internal consistency:

The researcher also calculated the validity of the studied questionnaire form through using the method of internal consistency validity. As the researcher calculated the value of correlation coefficients between the degree of each phrase aside, and the total degree of the questionnaire, and also calculated the value of the correlation coefficients of each phrase aside, and the total degree of each axis to which it belongs. All of this was done applying after the questionnaire form on the study pilot sample; tables (3, 4, and 5) show that.

Table (3)

The correlation coefficients between the total scores of each axis and the total degree of the questionnaire (N=20)

No.	Axes	Correlation coefficient and its significance
1	Reasons of crises occurrence in swimming pools.	*•_٩٩٨
2	Avoiding crises in swimming pools	*. 997
3	The scientific method of crises management in swimming pools	*• <u></u> 997
4	Evaluation methods of administration performance in swimming pools	*•.999

\* (R) table value at morale level (0.05), freedom degree (18)= (0.444).

Table (3) shows that the values of correlation coefficients are significant at morale level (0.05), as the values of correlation coefficient were between (0.999 - 0.996).

### 2-The Reliability of the studied form:

researcher found The the reliability coefficient of the questionnaire's axes: their number was (4) axes and the number of their phrases was (44); using two methods: the method of half segmentation of the study pilot sample responses on the questionnaire using the Spearman & Brown

equation to find the correlation coefficient between the even phrases and odd phrases, and also to find the reliability using the Cronbach's alpha coefficient.

(a) **Reliability** using **Cronbach's alpha coefficient:** of **Cronbach**'s The value alpha coefficient of the questionnaire of phrases "crises management in swimming pools"; which its number was (44), the value was (0.986).

\*the Value of (Cronbach`s alpha coefficient) of the questionnaire = (0.986).

Table (4) shows the(Cronbach`s alpha coefficient)

Table

Cronbach`s

of the (questionnaire's) phrases and all of them are significant. (Cronbach`s its alpha as coefficient) was (0.987) which insignificant are values: because it is bigger than the (Cronbach's alpha coefficient) of the questionnaire which requires omitting them as they affect the reliability of the questionnaire. The rest of the questionnaire's phrases were significant as the (Cronbach's coefficient) value of alpha these phrases were between (0.985 - 0.982); which is less than the (Cronbach's alpha coefficient) value of the questionnaire which indicates its reliability.

#### Tables (5)

<b>Reliability coefficient using Cronb</b>	oach`s alpha of the
questionnaire's axes p	hrases

No.	axes	(Cronbach`s alpha
		coefficient)
١	Reasons of crises occurrence in swimming pools.	*•_9£7
۲	Avoiding crises in swimming pools	*. 907
٣	The scientific method of crises management in swimming pools	*• <u>.</u> 9٣٧
٤	Evaluation methods of administration performance in swimming pools	*• <u></u> 9٣٦

\* the value of Cronbach's alpha coefficient of the questionnaire = (0.986).

questionnaire as a whole, and all of them are significant; as the value of Cronbach's alpha

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(5) shows the

alpha coefficient

between all the axes and the

coefficient of the axes was between (0.953, 0.936) which is smaller than the value of Cronbach's alpha coefficient of the questionnaire (0.986) which indicates its reliability.

### (a)Reliability using half segmentation:

The researcher found the reliability coefficient of the

questionnaire's phrases; its number (44) using the method of half segmentation of the study pilot sample responses using **Spearman & Brown** equation to find the correlation coefficient between the even and the odd phrases.

#### Table (6)

The reliability of the half segmentation of the measurement

Questionnaire	Odd pł	irases	Even p	hrases	Correlation	Table	
	Μ	S	Μ	S	coefficient	"R"	
Crises management in swimming pools	101.80	28.38	98.40	27.00	*0.995	0.444	

Table (6) shows that there is a statistical significant correlation between the measurement phrases as a whole. This indicates the measurement's reliability. The next table shows the number of the two questionnaires phrases in their final shape and the number of the omitted phrases and their figures according to the experts' opinions.

Table (7)

Number of questionnaire's phrases in their final shape and the number of the omitted phrases and their figures after performing the scientific transactions "validity – reliability"

No.	Axes	Number of axis phrases	Number of omitted phrases	Final Number of axis phrases	Figures of omitted phrases	
١	Reasons of crises occurrence in swimming pools.	١٤	١	١٣	) )	
۲	Avoiding crises in swimming pools	11	١	١.	٨	
	Assiut Journal For Spo	ort Science A	arts			

#### Table (7)

Number of questionnaire's phrases in their final shape and the number of the omitted phrases and their figures after performing the scientific transactions "validity – reliability"

No.	Axes	Number of axis phrases	Number of omitted phrases	Final Number of axis phrases	Figures of omitted phrases
٣	The scientific method of crises management in swimming pools	11	١	١.	٤
<ul> <li>Evaluation methods of administration performance in swimming pools</li> </ul>		١٢	١	• •	۲
Total		48	٤	44	

Table (7) shows the number of the questionnaire's phrases in its final shape, the number of the omitted phrases from each axis, the number of the axis phrases after excluding the omitted phrases and the figures of the omitted phrases according to the percentage of experts' opinions.

- Thus, the total number of the final questionnaire phrases "a

suggested vision of crises management in swimming pools" became (44) phrases. Eighth: Display & Discussion

### of Results:

First: Display of Results:

1- Displaying the results of the study sample responses to the axis phrases "reasons of crises occurrence in swimming pools".

#### Table (8)

Repetition, percentage, (ca2) value and phrases order of the study sample responses to the axis phrases "reasons of crises occurrence in swimming pools" N= 81

No.	Phras	ses	Agree		To some ex	tent	disagree		Estimated	Relative	Ca2	order
			repetition	%	Repetition	%	repetition	%	total	weight		
1-	The	lack of coordina	tion between	the swim	ming pool ad	ninistratio	n and the fol	llowing:				
a-	•	The	6.0			V 4 1		WV . 4	N 4 M	7.44	*** ***	*.
	technical	teams	10	88.8 L		,	,.	,				, ,
b-	•	Athletic	<b>۲</b>	07.9	~	A 7 4	۳۱	۳۸.۳۷	10.	11.97	***.^٩	*1
	activity ac	Iministration	•			<b>.</b>			,			
c–	•	Social	۲.	* + 7.4	1.7	1 6 4 1	<i>4</i> 9	٦. ٢٩	141	VA 1.	*** • • •	,
	activity ac	Iministration					••					'

#### Follow Table (8)

#### Repetition, percentage, (ca2) value and phrases order of the study sample responses to the axis phrases "reasons of crises occurrence in swimming pools" N= 81

No.	Phrases	Agree		To some ex	tent	disagree		Estimated	Relative	Ca2	order
		repetition	%	Repetition	%	repetition	%	total	weight		
2-	Lack of sufficient sci	ication of	workers in th	e swimmiı	ng pool:	I		l			
a-	Maintenance										
u	workers.	٤١	٥٠.٦٢	^	۹.۸۸	۲۲	89.01	107	17.91	**1.07	۲.
b-	Rescue.	٤١	0.11	٩	11.11	۳۱	44.44	107	۰۹.۲۰	*19.10	41
C-	Coaches.	۲ ٤	19.77	١٤	14.44	٤٣	٥٣.٠٩	141	٧٤.٤٩	*177	۲
3-	Lack of alternative p	lans to be us	ed when a	a crisis occur	s:	1	1		1		
a–	Absence of rescuers.	٤٣	07.19	٦	٧.٤١	**	89.01	101	77.15	**1.71	۲۳
b-	• Electricity cuts.	* *	11.17	۳٩	٤٨.١٥	۲.	75.79	17.	٦٥٨٤	*^`•	۱.
C-	• Cold weather.	١٢	١٤.٨١	00	٦٧.٩٠	١٤	14.44	175	٦٧.٤٩	*£٣.٦٣	۷
d–	A crisis with the members.	١٨	11.11	٤o	°°.°7	14	77.77	177	٦٦ <u>.</u> ٦٧	*14	٨
e-	• Other.	۲.	75.79	٥١	17.97	۱.	17.00	107	17.00	***.^0	۲۱
4-	Parents interference	in matters o	f the swim	ming pool:							
a-	<ul> <li>Pool administration.</li> </ul>	٣٧	٤0.٦٨	۱.	٥٢.٣٥	٣٤	٤١.٩٨	١٥٩	٦٥.٤٣	*17.77	11
b-	Coaches.	۳۲	89.01	١٤	14.14	۳٥	٤٣.٢١	170	14.4.	*9.07	٦
c–	Rescuers.	٤١	0.11	۱.	17.50	۳.	۳۷.۰٤	101	17.16	*11.7.	۲۳
d-	Other.	۲.	75.79	٤V	۰۸.۰۲	١٤	14.44	107	16.70	***.^٩	۱۳
5-	Lack of regulations:										
a–	Being on the swimming pool.	۳0	17.71	١٤	14.44	۳۲	89.01	١٥٩	٦٥.٤٣	*9.07	• • •
b-	• Dealing with the coaches.	۲ ٤	¥9.38	4.4	11.11	۳0	£7.71	144	٧١.١٩	۳.٦٣	٥
C-	• Dealing with the workers.	١٨	11.11	٥١	14.91	١٢	۱٤.٨١	107	16.70	**1.11	١٣
d-	• Dealing with the rescuers.	٤٣	٥٣.٠٩	٦	٧.٤١	٣٢	89.01	101	77.15	**1.71	۲۳
e-	• Other.	۲.	15.19	٤V	٥٨٢	١٤	14.44	107	76.70	***.^9	۱۳
6	Lack of periodical maintenance of equipments and machines of the	37	45.68	14	17.28	30	37.04	155	63.79	*10.30	17
7	The pool's capacity exceeds the volume of activities used in it.	24	۲٩ <u>.</u> ٦٣	٣٩	٤٨.١٥	١٨	**_**	107	٦٤.٢٠	*^`\	۲۲
8	Lack of sufficient knowledge of maintenance systems and methods.	37	٤٩.٦٨	١٤	14.14	۳.	۳۷ ٤	100	۲۳ <u>.</u> ۷۹	*1٣.	١٧

#### Follow Table (8)

Repetition, percentage, (ca2) value and phrases order of the study sample responses to the axis phrases "reasons of crises occurrence in swimming pools" N= 81

No.	Phrases	Agree		To some ext	tent	disagree		Estimated	Relative	Ca2	order
		repetition	%	Repetition	%	repetition	%	total	weight		
9	Not following the scientific method of water sterilization inside the swimming pool.	41	0.37	٦	٧.٤١	٣٤	٤١_٩٨	100	37.99	**0.£1	11
10	Lack of first aid official on the swimming pool.	34	£1.9A	١٣	17.00	٣ ٤	£1.9A	177	٦٦ <u>.</u> ٦٧	*1. <u></u> ^٩	٨
11	Using the swimming pool by many people in the same time.	26	۳۲.۱۰	٤٩	٦٠.٤٩	۲	٧.٤١	1 £ 7	٥٨٠٤٤	* <b>*</b> \$. <b>*</b> •	۲۸
12	Lack of permanent security guards on the swimming pool to ban harassments or any struggles that may happen.	22	۲۷.۱٦	18	**_**	٤١	٥. <u>٦</u> ٢	141	V £. £ ٩	*11.19	۲
13	Taking long time to do         maintenance       works         without       another         alternative or a definite         time to finish these         works.	24	29.63	18	22.22	39	48.15	177	72.84	*8.67	4

Ca2 table value at morale level (0.05) and freedom degree (2) = (5.991)

Table (8) shows that (Ca2) calculated value of study sample responses to axis phrases "reasons of crises swimming occurrence in pools" were all statistically significant at morale level (0.05),except the phrase number (5-b) where the (Ca2) calculated value was (3.63) which is statistically insignificant. As (Ca2) calculated value was between (34.30 - 8.07), and the relative

percentage was between (78.60% - 58.44%), as the phrases numbered (1A, 1B, 2A, 2B, 3A, 4c, 5 D) came with high agreement percentage between (50.62% -55.56%).

The researcher's study of assured the lack coordination between the swimming pool administration and the athletic activity administration by percentage (09.53%), this contradicts with the study of (Mahmoud Abu Samra, Mohamed Eltity, and

Faten Ashour 2012) (10) where thev have an open communication system between the department the administration. students and the crises team during the crisis: as coordination and communication are necessary to solve the crises and lack of both of them or even their moderate existence is one of the reasons of crises occurrence in swimming pools. The researcher also sees that one of the reasons behind the crises occurrence is the lack of sufficient qualifying of maintenance and rescue workers in particular, as half of the study sample confirmed that by (50.62%), also during the researcher's meetings with a number of rescue guards, she found lack of satisfaction from side their their concerns salaries, long rescue hours and the inequality between them and the coaches in training courses, or the salaries which result in the occurrence of a crisis; this agrees with the study of (Mohamed Hanafy Soudi) 2006 (9). The administration sees the necessity of scientific qualification of coaches by (53.09%) of study sample.

6- Results display of study sample responses to the axis phrases "avoiding crises in swimming pools".

#### Table (9)

Repetition, percentage, Ca2 value, and phrases order of study sample responses to axis phrases "avoiding crises in swimming pools" (N=81)

No.	Phrases	agree		To some e	xtent	Disagree		Estimated	Relative	Ca2	order
		repetition	%	repetition	%	Repetition	%	total	weight		
There	is an instructions a	and guidance	booklet of	the swimming	g pool for t	the following:					
a-	*employees.	۲۸	٣٤.٥٧	۲۸	٣٤.٥٧	٢٥	۳۰ ۸٦	170	٦٧ ٩٠	• 77	۳۱
b-	*coaches.	٥٣	٦٥.٤٣	۲۱	10.98	٧	٨٦٤	۲۰۸	٨٥ ٦٠	*£1.19	١٨
C-	*rescuers.	٦٤	٧٩.٠١	٩	11.11	٨	٩٫٨٨	۲۱۸	A9.V1	*71.7	٨
d–	*Members.	٥٦	٦٩_١٤	١٦	19.00	٩	11.11	۲.٩	۸٦ ۱۰	*£V_7٣	١٦
e-	*audience.	۳۲	59.01	۳۹	٤٨ ١٥	۱.	11.00	145	Y0.Y7	*17,97	۲٦
The e	The existence of clear definition of responsibilities and specializations of all the employees in the swimming pool.										
a-	*swimming pool director.	٦٩	٨٥.١٩	٧	٨.٦٤	٥	٦.١٧	777	۹۳ <sub>.</sub>	*9A.•Y	١
b-	*deputy director.	٦٧	XY.YY	٦	٧,٤١	^	٩.٨٨	171	9.90	*\\ 91	٦
C-	*coaches.	٦٥	٨٠.٢٥	٧	٨,٦٤	٩	11.11	۲۱۸	A9.Y1	*/	٨
d–	*rescuers.	٦٤	۲٩.٠١	١٢	15,01	٥	1,17	177	9.90	* 11,91	٦
e-	*workers.	٤٦	07.79	29	۳۰٫۸۰	٦	٧.٤١	۲۰۲	۸۳٫۱۳	*19.70	۲۱
The s	wimming pool admi	inistration hold	d training o	ourses of cris	sis manage	ement:					
a-	*periodical.	٦٨	۸۳.90	6	٧.٤١	۷	٨٦٤	222	٩١,٧٧	*97.51	٤
b-	*infrequently.	۲٤	۲٩ ٦٣	26	77.1.	۳۱	77.77	100	٦٣.٧٩	• 97	۳۲

#### Follow Table (9)

#### Repetition, percentage, Ca2 value, and phrases order of study sample responses to axis phrases "avoiding crises in swimming pools" (N=81)

No.	Phrases	agree		To some e	ktent	disagree		Estimated	Relative	Ca2	order
		repetition	%	repetition	%	Repetition	%	total	weight		
C-	*no courses.	۳.	۳۷.۰٤	8	٩٫٨٨	٤٣	07.19	1 5 9	71,77	*17.19	٣٣
In the	swimming pool the	ere are pre-m	ade model	s of the possi	ble crises	and how to de	al with the	m and related	to:		
a-	*water	٦.	٧٤٠٧	١٣	17.00	٨	٩.٨٨	۲١٤	٨٨. • ٧	*1.91	
b-	*equipments										
	and	00	٦٧,٩٠	14	۲۰.۹۹	٩	11.11	۲.۸	10.7.	* ٤ ٤ . ٧ ٤	11
	machines.										
c–	*official										
	tournaments.	17	17.2.	07	10.25	0	1,11	14.	V2.•V	*25.01	14
d–	*friendly			6	- (0				<u></u>	***	
	matches.		11.11	21	11.21	1.	11,18	1 4 2	v1_1.	*11,01	11
e-	*rescuers.	١٢	٧٥.٣١	١٤	14.14	٦	٢.٤١	117	٨٩.٣٠	*70.51	۲٩
f–	*visitors.	۲.	٢٤.٦٩	٥٣	٦٥.٤٣	٨	٩.٨٨	١٧٤	۲۱٫۲۰	* £ • . 77	۱.
g–	*conflicting										
	schedules of	٥٧	٧٠.٣٧	١٤	14.14	۱.	11.00	۲.٩	٨٦.٠١		19
	teams.										
h-	*other	77	۳۲.۱۰	٤٧	٥٨.٠٢	٨	٩.٨٨	14.	٧٤.٠٧		١٦
There	an experienced of	ficial to deal v	vith the cri	sis, such as:	-				-		
a-	*delegated										
	from board of	59	72.84	15	18.52	7	8.64	214	88.07	58.07	11
	directors.										
b–	*senior	47	59.00	26	22.10	0	0.00	201	80.70	28.22	22
	coaches.	47	58.02	26	32.10	8	9.88	201	82.72	28.22	22
c–	*senior	57	70.27	15	19 50	0	11 11	210	69.42	50.67	15
	technician.	57	70.37	15	16.52	9	11.11	210	08.42	30.07	15
d–	*security	30	20.51	41	50.62	o	0.00	196	76.54	21.56	24
	officer.	32	39.31	41	30.02	0	9.00	180	70.34	21.30	24
The a	dministration's atte	ntion to urgin	g the empl	oyees to obta	in educatio	onal courses a	bout crises	and how to d	eal with ther	n:	
a-	*pool director.	٦٧	AT_YT	٩	11.11	٥	٦.١٧	272	۹۲.۱۸	*/19	۲
b-	*coaches.	٦٨	٨٣.٩٥	v	٨,٦٤	٦	٧.٤١	۲۲ź	٩٢.١٨	*95.51	۲
c–	*technicians.	٥٧	٧٠.٣٧	١٧	۲۰.99	٧	٨.٦٤	717	٨٧.٢٤	*01 <u>.</u> /0	۱۳
d–	*workers.	۳۱	۳۸.۲۷	٤٢	01.10	٨	٩.٨٨	١٨٥	٧٦.١٣	*11.7	۲٥

#### Follow Table (9) Repetition, percentage, Ca2 value, and phrases order of study sample responses to axis phrases "avoiding crises in swimming pools" (N=81)

No.	Phrases	agree		To some e	xtent	disagree		Estimated	Relative	Ca2	order
_		repetition	%	repetition	%	Repetition	%	total	weight		
C–	*no courses.	۳.	۳۷.۰٤	8	٩.٨٨	٤٣	07.19	159	۲۳_۱۱	*17.19	٣٣
	There are modern communication means of crises management.	٤٣	٥٣.٠٩	۲۹	۳۰ <u>٬</u> ۸۰	٩	11 <u>.</u> 11	191	۲۲.۰۸	*11.75	77
8	In the pool administration, there are files about the past crises to make use of them.	01	٦٢_٩٦	٢٥	۲۰ <sub>.</sub> ۰٦	٥	٦.١٧	۲۰۸	٨٥ ٦٠	*79.51	14
9	The administration makes a daily report about the ratios of chlorine and ph.		AY_VY	٨	٩ <u>.</u> ٨٨	٦	٧.٤١	775	91 <u>.</u> VV	*^^.9ï	٤
10	The swimming pool administration makes a pre- scenario of crises management.		٧٠.٣٧	٦	19.70	٨	٩_٨٨	411	A7.A7	*01 <u>.</u> 19	١٤
(C (C sa	Ca2) table v Table Ca2) calcu mple re Assiu	(0.05) at y s Scienc	and free phra swir stati e Arts	edom ises nmin stical	degree ( "avoid g poo ly si	(2) = (5 ing c ols" ignific	are ant	in all at			

morale level (0.05), except the two phrases numbered (1 A)and (3 -b) where (Ca2)calculated value of them were (0.22, 0.96) respectively, which are statistically insignificant value.

(Ca2) value As was between (16.96 - 98.07), and the relative weight was between (61.32 - 93.00%). Where the phrases numbered (1c, 2a, 2b, 2c, 3a, 4a, 4h, 4f, 5a, 5b, 6a, 6b, 6c, 9, 10) came with high agreement percentage between (70.37% : 85.19%).

The researcher's study assured that there is a clear definition of responsibilities and specializations of workers; as the phase (2a) occupied the first place by (85.19%) of the complex director and 82.72% of his deputy, this agrees with the study of (Sabria Bint Muslim Alyehyay 2006) (5), that the most of the crises management operations are represented in the leadership, as for (Dolan, T, 2006) (14); he referred to the importance of having a crises team in which each person knows what he should do when a crisis occurs, and this is what phrase number (2) confirmed.

The administration also periodical makes courses which is confirmed by phrase (3a)bv (83.95%)which confirms that the administration is keen on these courses and its importance and it urges workers to join educational courses about crises and how to deal with them; which phrase (6a, or 6b) assured; as it occupied the second place. This contradicts with the results concluded by (Mahmoud Abu Samra. Mohamed Eltity, and Faten Ashour 2012) (10) as they had moderate results on educational programs and courses and guidance in crises for faculties and universities. The researcher sees that there is no pre-made model for the possible crises and how to deal with them especially in official championships and friendly matches, this contradicts with (Adams.Ch. Kritsons.W. 2006) (13); because their study assured that there is no crisis strategic plan to management which contradicts with the results the researcher concluded through the positive axis of avoiding crisis. While (Abdel Hadi Aly Ahmed Excell 2003) (6) agrees with her, about the how far the clubs

are prepared to athletic crises which include the plan. organization and training, which phrases number (5a, 5b, and 5c) confirmed that there is an experienced official to deal with the crisis and he has the authorization from board of administration by (72.84%) in addition to the senior coach and the senior technician: which is an integrated team work to face crises which

agrees with the study of (Vogelaar. 2005)(17).

The necessity to have a team work to face crises authorized by the higher administration and enjoys the power to take decisions if necessary.

7- Displaying the results of study sample responses to the phrases of axis "the scientific method of crisis management in swimming pools".

**Table (10)** 

Repetition, percentage, Ca2 value, and phrases order of study sample responses to axis phrases "the scientific method of crisis management in swimming pools" (N=81)

No.	phrases	agre	e	To some	extent	disagr	ee	Estimated	Relative	Ca2	order
		repetition	%	repetition	%	repetition	%	total	weight		
1	The swimming pool administration has the delegation of authority style in case of director's absence.	٦٤	٧٩١	۰.	١٢.٢٥	Y	٨٦٤	٢١٩	۹۰.۱۲	*V1,YY	۲
2-	In the swimming pool administration, there are cadres have the ability to face athletic crises inside the swimming	٧٢	AY_VY	ĩ	٧.٤١	Α	٩.٨٨	771	٩٠,٩٥	*۸۸,٩٦	Ŷ
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#### Follow Table (10)

complex.

#### Repetition, percentage, Ca2 value, and phrases order of study sample responses to axis phrases "the scientific method of crisis management in swimming pools" (N=81)

No.	phrases	agre	e	To some	extent	disagr	ee	Estimated	Relative	Ca2	order
		repetition	%	repetition	%	repetition	%	total	weight		
3	There are study and analysis of all the conditions that may be resulted from the crisis and preparation for it.	54	٧١,٦٠	١٤	14.44	٩	11.11	411	٨٦,٨٢	*07.40	١٧
4	In the swimming pool administration, there are modern technological means of managing sudden crises.	04	٧١,٦٠	١٨	¥¥.¥¥	٥	٦,١٧	٢١٥	۸۸_٤٨	*07.0Y	١٢
5	There are files for all the crises related to the swimming pool.	٥ź	11 <u>.</u> 1V	۲۱	۲٥ <u>.</u> ٩٣	٦	٧.٤١	۲۱.	۶۹ <u>.</u> ۶۲	*££_7V	١٨
6	There is a scientific method to analyze information and facts related to the crisis.	01	17,91	44	۲۸,٤٠	v	٨.٦٤	۲.٦	λέ <u>.</u> νν	*T1.V£	۲.
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#### Follow Table (10)

#### Repetition, percentage, Ca2 value, and phrases order of study sample responses to axis phrases "the scientific method of crisis management in swimming pools" (N=81)

No.	phrases	agre	e	To some	extent	disagr	ee	Estimated	Relative	Ca2	order
		repetition	%	repetition	%	repetition	%	total	weight		
7-ther	e are reports that m	av be returned	to about t	he swimming	pool in cor	ncerning:					
	*maintenance										
-	rates.	٦٦	۸۱.٤٨	٣	٨.٦٤	~	٩.٨٨	۲۲.	9.07	*\£_01	٤
b-	*chlorine										
	ratio in water.	٦٤	٧٩.٠١	~	۹.۸۸	٩	11.11	111	٨٩ ٣٠	**1*	١.
c-	Some										
	members'	۲۷	٣٣.٣٣	٤٩	٦٠.٤٩	٥	٦.١٧	145	Y0.Y1	*70 <u>.</u> 10	۲٤
	riots.										
d-	The										
	continuous										
	absence of	٦٥	۸۰.۲۰	۱.	11.50	٦	٢.٤١	177	9.90	****.01	۲
	coach or										
	rescuer.										
e-	The										
	continuous										
	complaints	01	२४ १२	٢٤	19 15	٦	٧٤١	۲.۷	10 19	* ٣٨ •••	١٩
	from some		-				-		-		
	employees or										
	coaches.										
	8- There are pr	re-made scenar	rios in the j	pool administr	ation to de	al with the cri	ses related	to:			
a-	*equipments	٦٣	YY YA	١٢	15 41	٦	YÉI	۲۱۹	9.15	*77 77*	v
	and machines.		-				-				
b-	*members.	٤١	٥٠ <u>.</u> ٦٢	۳۳	٤٠.٧٤	٧	٨,٦٤	١٩٦	٨٠.٦٦	*75.51	۲۱
С	*coaches.	٦١	۲۰ <u>.</u> ۳۱	۱۲	15.41	٨	٩_٨٨	۲۱۰	۸۸ ٤٨	*15.01	۱۲
D	*employees.	۳۸	£7,91	٣٤	٤١,٩٨	٩	11,11	١٩١	٧٨ ٦٠	*11,7.	۲۳
Е	*rescuers.	00	٦٧ ٩٠	۲۱	80.98	٥	1.17	717	٨٧.٢٤	* ٤٨.٣٠	١٦
F	*other.	٤٠	٤٩.٣٨	۳٥	٤٣.٢١	٦	٧.٤١	١٩٦	٨٠ ٦٦	*75.97	۲۱
9-whe	n a crisis occurs in	the swimming	g pool, it is	dealt with usi	ng:					1	1
А	*admitting the										
	existence of	٦٥	1.10	٩	11.11	Y	٨٦٤	۲۲.	9.07	*^•.~	٤
	the crisis.										
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				1 . ~							

#### Follow Table (10) Repetition, percentage, Ca2 value, and phrases order of study sample responses to axis phrases "the scientific method of crisis management in swimming pools" (N=81)

No.	phrases	а	agree		To some	extent	disagı	ee	Estimated	Relative	Ca2	order
		repetitio	on	%	repetition	%	repetition	%	total	weight		
В	*determining crisis reasons.	٦٤		۲٩ <sub>.</sub> .١	٩	11.11	٨	٩.٨٨	114	A9_V1	*Y1,.Y	٩
С	*determining who is responsible for the crisis occurrence.	۲۲		٧٦ <u>.</u> ٥٤	۱.	۱۲ <u>.</u> ۳۵	٩		710	۸۸ <u>.</u> ٤٨	*1٨,٠٧	١٢
D	*quickly solving the crisis.	٦٩		٨٥.1٩	۲	٨٦٤	٥	1,11	277	٩٣	*9A.•Y	١
Е	*ignoring the crisis.	۲۲		٣٩ <u>.</u> 01	۲	٧.٤١	٤٣	07.19	101	٦٢١٤	*77 <u>.</u> 72	۲0
10-wł	nen a crisis occurs,	you make	use of	fexperts	to solve it:							
A	*maintenan companies (in c crisis related equipments	ce ase of to	٦٤	٧٩.٠١	• • •	۱۳.0۸	٦	٧.٤١	۲۲.	٩٠٫٥٣	*Y1.0Y	٤
В	*members of b directors (in ca crisis related members)	ooard ise of to	٦٢	٧٦.0٤	١٢	15.01	Y	٨,٦٤	۲۱۷	۸۹ ۳۰	*14 <u>.</u> 01	١.
c	*members of C Federation (in c crisis related to	Game ase of clubs).	٦٠	٧٤٠٧	, IT	17.00	٨	٩ <sub>.</sub> ٨٨	715	AA •Y	*1. <u></u> 91	١٥

(Ca2) table value at morale level (0.05) and freedom degree (2) = (5.991)Table (10) shows that statistically significant at (Ca2) calculated value of study morale level (0.05). responses to As (Ca2) value sample axis was between (18.30 - 98.07), and phrases "the scientific method of crisis management relative the weight in was swimming pools" are all between (75.72% - 93.00%); Assiut Journal For Sport Science Arts

where the phrases number (1, 2, 3, 4, 7a, 7b, 7d, 8a, 8c, 9a, 9b, 9c, 9d, 10a, 10b, and 10c) came with high agreement percentage between (71.60% : 85.19).

From what is mentioned previously, it is clear that the high agreement percentage which confirms that swimming complexes use the scientific method of crisis management, swimming as the pool administration enjoys the style of delegation of authority in case of the director's absence which should be prepared and trained on before. This is due to the existence of cadres that have the ability of confrontation: which was confirmed by phrase number (2) by (82.72%) that occupied the second place in the axis for its importance and positivity. This is sustained by the modern technological means used by the administration in solving crises: which was confirmed by phrase number (4) by (71.60%). Also, there is a followed style and steps when the crisis occurs; we find phrases number (9a, 9b, 9c, 9d) when a crisis occurs, we must admit its occurrence, determine its reasons and who is responsible for it and to

quickly solve it. In addition, the complex administration has the cadres that enjoy the ability face crises: this phrase to occupied the second place by (82.72%). This agrees with the study of (Edert, R and Griffin, R. 2005) (15) in ways of crisis management, also when the crisis occurs, we should use the specialized experts in the crisis kind; this confirmed by phrases was (10a, 10b, 10c) which agrees with the study of (Mohamed Elserafy 2005) (8) the methodological administration in dealing with crises in light preparation, knowledge. of understanding and the available potentials, the skills and the prevailing patterns of administration. It also has premade scenarios to deal with these crises. But the researcher sees that the pre-made scenario to deal with the members occupies the 21<sup>st</sup> place by (50.62%) which is a tinv percentage for a number of members and the difference in cultural & knowledge level of crises management in swimming pools, the axis in general depends on the crises scientific method of management and this disagrees with the study of Sbria Bin

Muslim Alyehewy (2006) (5) that concluded that most of crises management operations are concentrated on the higher leadership and not distributed.

9- Displaying the study sample responses to the phrases of axis "evaluation method of administration performance in swimming pools".

#### Table (11)

Repetition, percentage, Ca2 value, and phrases order of study sample responses to axis phrases "evaluation method of administration performance in swimming pools" (N=81)

No.	Phrases	agre	e	To some	extent	disagı	ee	Estimated	Relative	Ca2	order
		repetition	%	repetition	%	repetition	%	total	weight		
1	There are periodical and official records about the swimming pool accredited by club director and board of directors about the pool activity.	٥٣	۲۰.٤٣	19	۲۳.٤٦	٩	11.11	Y-3	λ£.ΨV	* <b>*</b> 4.£1	۲١
2	There are annual reports about the crises that occurred in the swimming pool.	<b>.</b> .	٧٤٧		19.00	•	۲ <u>.</u> ۱۷	* 1 V	٨٩.٣٠	* <b>1</b> 4.V£	٨
3	There are daily reports about the ratio of chemicals used in the swimming pool.	٥١	۲۲ <u>۹</u> ۲	٧٤	¥4_1#	1	٧.٤١	۲.۷	٨٥.1٩	***	۲.
4	There are a map	٦١	۷۰.۳۱	١٣	17.00	v	٨٦٤	* 1 7	۸۸ <u>.</u> ۸۹	*1£./9	۱.
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clarifies					
the					
rescue					
points					
that must					
be					
 covered.					

### Follow Table (11)

Repetition, percentage, Ca2 value, and phrases order of study sample responses to axis phrases "evaluation method of administration performance in swimming pools" (N=81)

No.	Phrases	agre	e	To some	extent	disagı	ree	Estimated	Relative	Ca2	order
_		repetition	%	repetition	%	repetition	%	total	weight		
5	There are steps to be followed to treat crises in the swimming pool.	٥١	17_91	**	۲۷.۱٦	٨	٩.٨٨	¥.0	٨٤.٣٦	**0.1*	۲۲
6	There is a map clarifies the performance schedules of athletic teams.	7.4	¥7.0£	۱.	17.40	٩	11.11	710	٨٨.٤٨	*14V	١٢
7	To have ways to punish the responsible for the crisis occurrence.	٦.	V£.•V	17	19.40	0	۲.۱۷	*1V	٨٩.٣٠	* <b>`Y</b> .V£	٨
8	To have ways to reward who helped to end the crisis.	٤٣	٥٣.٠٩	۳۲	<b>~</b> 9.01	٦	٧.٤١	१९२	۸۱ <u>.</u> ۸۹	**1.V£	۲۳

9-there are forms for the continuous evaluation of performance in the swimming pool that covers all the employees in it:

Α	*pool	* 4			N 4 1		N 4 1			***	
	director.		A8.13	`	v.z 1	`	v.z (	115	11.01	***.**	,
в	*deputy	**	A		9	v	A 7.4	**1	4. 40	*** •*	٥
	director.		, , <b>, , ,</b> , , , , , , , , , , , , , ,	~	1.000	•	<i>.</i>				•
С	*employees.	۳۲	89.01	٤٣	07.19	r	٧.٤١	188	vv.*v	*77.71	۲٥
D	*coaches.	21	۷۰.۳۱	١٢	15.41	٨	٩.٨٨	410	۸۸.٤٨	*71.07	۱۲
Е	*rescuers.	٥٩	¥ 7_A £	١٣	17.00	٩	11.11	* 1 *	۸۷ <u>.</u> ۲٤	*01.19	1 Y
F	*other.	۳ ۲	89.01	££	٥٤.٣٢	٥	٦.١٧	1 / 9	VV.VA	* 4 9.07	۲ ٤

Follow Table (11) Repetition, percentage, Ca2 value, and phrases order of study sample responses to axis phrases "evaluation method of administration performance in swimming pools" (N=81)

No.	Phrases	agre	e	To some	extent	disagı	ree	Estimated	Relative	Ca2	order
		repetition	%	repetition	%	repetition	%	total	weight		
	10-	-there is a sc	ientific m	ethod to eval	uate the	employees' p	erforman	ce in the swir	nming pool	:	
Α	*pool director.	٦٨	٨٣.٩٥	۷	٨٦٤	٦	٧.٤١	Y Y £	۹۲.۱۸	*97.51	٣
В	*deputy director.	٣	vv.vA	١٢	١٤.٨١	٦	٧.٤١	*19	9.17	***.1*	۷
с	*employees of systems.	١٢	۷۰.۳۱	١٣	17.00	v	٨.٦٤	*12	۸۸ <u>.</u> ۸۹	*15./9	۱.
D	*rescuers.	00	٦٧.٩٠	١٨	**.**	٨	٩.٨٨	۲.٩	۸٦.٠١	* 50. 51	١٨
Е	*coaches.	٦٨	۸۳.۹٥	۷	٨.٦٤	٦	۷.٤١	225	97.11	*97.51	۴
	11-there	e are a scient	ific metho	d to measure	e the crisi	s manageme	nt operati	on:			
Α	*crisis nature.	٦٥	۸۰.۲۵	• • •	۱۳.0۸	٥	۲.۱۷	* * *	٩١.٣٦	***.*4	£
В	*time of occurrence.	٦٥	۸۰.۲۵	۱.	17.00	٦	٧.٤١	* * 1	٩٠ <u></u> ٩٥	*****	٥
С	*its persons.	٥٨	۷۱ <u>.</u> ۲۰	17	19.00	۷	٨٦٤	* 1 **	۸۷.٦٥	*0٤.٨٩	17
D	*factors resulted from it.	١٢	۷۰.۳۱	١٢	۱٤.۸۱	٨	۹.۸۸	*10	۸۸.٤٨	*75.07	١٢
E	°crisis result.	١٢	۷٥.۳۱	• • •	۱۳.0۸	٩		215	۸۸ <u>.</u> .۷	*15.7.	١٥
F	*the decision about it.	٦٨	۸۳.۹٥	٨	۹.۸۸	٥	۲.۱۷	**0	٩٢.0٩	*97.07	ſ

Ca2) table value at morale level (0.05) and freedom degree (2) = (5.991)

Table (11) shows that (Ca2) calculated value of study responses axis sample to phrases "evaluation method of administration performance in swimming pools" are all statistically significant at morale level (0.05).

(Ca2) value was between 98.00). (26.74)and \_ the relative weight was between (77.37% - 92.59%), where the phrases number (2,4, 6, 7, 9a, 9b, 9d, 9h, 10a, 10b, 10c, 11a, 11b, 11c, 11d, 11h, 11y) came with high agreement percentage between (71.60% -85.19%).

The study made by the researcher confirmed that the axis of evaluation method of administration performance is a result of the axis of scientific method of crises management, as the all axis' phrases were positive and of high percentage there whereas are annual reports about the crises that the occurred in swimming and the pool. agreement percentage on phrase number (74.07%)(2) was and it occupies the eighth place for its importance in analyzing the problem and knowing its reasons, which agrees with the study of (Abdel Hadi Aly

Ahmed Excell 2003) (6) their expectations of crisis repetition. the time of its occurrence and how far they are prepared for it. Also, the existence of a map that shows the rescue points and performance times of athletic which teams facilitates evaluating the administration performance during the crisis, this was clarified by phrases number (4. and 6) by percentage (75.31%, 76.54%). Moreover, there is firmness when the crisis occurs, as this obtained phrase high agreement percentage What (74.07%). emphasizes that the swimming complexes follow modern evaluation methods to evaluate administration performance is that they have performance evaluation form continuously for all the employees (director, director. coaches. deputy workers and rescuers) that enjoy high percentage between (75.31% - 85.19%). They also have scientific methods and techniques for evaluation. which all the axis phrases confirmed; phrases number (11a, 11b, 11c, 11d, 11h, 11y) agree with the study of (Kelsay, L. 2007) (16) that the crisis' nature. timing and

persons affect measuring crisis management operation. and consequently, affect the consequential results and decisions as phrase number (11y) obtained high percentage (83.95%) which indicates that decision is the most important step in the operation of crisis management measuring. That disagrees with the study of (Sherif Mohamed Awad 2007) (4) that decision makers are the high and medium categories, while (Dolan. 2006) (14) sees the importance of having a team group in time of crises where every person knows what he should do in time of crisis occurrence The researcher sees that decision making is influenced by continuous change. intervention. impulse and complication, so the research praises and recommends teams of crises management for its experience and knowledge of crises management, its solution, and taking decision without reference to high categories as it is a waste of time

#### **Research conclusions:**

In light of research questions and the statistical procedures, the researcher concluded the following:

#### First: reasons of crises occurrence in swimming pools:

- Lack of coordination between the swimming pool administration and the technical systems.

- Lack of coordination between the swimming pool administration and the athletic activity administration.

- Lack of sufficient scientific qualification of maintenance workers in swimming pool.

- Lack of scientific qualification of rescue in swimming pool.

- Lack of alternative plans to use them when rescuers are absent.

- Lack of regulations to deal with rescuers.

- Not following the scientific method of water sterilization systems inside the pool.

Second: Avoiding crises in swimming pool complexes:

- The existence of clear definition of responsibilities and specializations of all the employees in the swimming pool (director – deputy director – coaches – rescuers).

- The swimming pool administration should make

training courses of crises management periodically.

- To have a clear definition of responsibilities and specializations of all the employees in the complex.

- The administration must urge the employees to have educational courses about crises and how to deal with them.

- To have a booklet of instructions and guidance for rescuers on the swimming pool.

#### Third: the scientific method of crises management in swimming pools:

- The administration should had the style of delegation of authority when the director absence from the swimming complex.

- The administration should have cadres that enjoy the ability of facing athletic crises inside the swimming complex.

- To have reports about maintenance rates and chlorine ratios in water to be referred to.

- To have reports about coaches and rescuers absence this helps in accountability when the crisis occurs.

- To deal with the crisis using the method of (acknowledgment – determining reasons – determining who is responsible – quickly solving it).

- To make use of experts in order to solve the crisis when it occurs.

Fourth: evaluation methods of administration performance in swimming pools:

- To have annual reports about the crises that occurred.

- To have a map that shows rescue points which have to be covered and the timing of teams' performance on the swimming pool.

- To have method of punishing the careless people when a crisis occurs.

- To have a scientific method for continuous evaluation of the employees' performance.

- To use the scientific method in measuring the crisis management concerning (crisis' nature – time of its occurrence – its persons – the consequential factors – crisis result – and the decision taken about it).

#### **Recommendation**:

1- To use the questionnaire made by the researcher to measure the level of crises management in swimming pools. 2- To make similar studies on clubs in different governorates in order to recognize the scientific method of crises management.

3- To perform similar studies on clubs of low financial level in order to recognize the level of scientific method of crises management.

4-To make а study comparing between clubs of high financial resources (elite clubs) and those of low financial resources in order to recognize the aspects of agreement and disagreement among them in the scientific method of crises management. References:

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