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المعرفة و المواقف و الممارسات تجاه لقاح الانفلونزا لمراجعي المراكزالر علية الصحية الأولية في بغداد/ العراق/ ٢٠١٩

ي بد الجبار البغدادي وزارة الصحة العامة و المدي وزارة الصحة العراقية، دائرة الصحة العامة و المدينة من المدينة المدينة

د باديه عزيز ناصر جامعة بغداد، كلية الطب، قسم طب المجتمع وطب الأنفورة ملخص ملخص الانفاونزا (الانفلونزا الموسمية) هي احد العوامل المسببة للامراض البسرية الرئيسية المرتبطة بارتفاع معدلات الاعتلال و الوفيات، وهم السبب الأكثر شد ما المنات يمكن الو قاية منها باللقاحات.

تتسبب اوبئة الانفلونزا الموسمية كل عام في حدوث حوالي ٣-٥ مليون حالة مرض شديد و ٠٠٠٠٠٠ حالة وفاة في جميع انحاء العالم. هناك ثلاثة أنواع من الفيروسات التي تسبب الانفلونزا الموسمية: اي ، بي ، سي. نجل المراع تغييرات في السلوك الصحي. نجاح ستراتيجيات إدارة الانفلونزا تتشكل من خلال اجراء تغييرات في السلوك الصحي.

الأهداف:كان الهدف من هذه الدراسة هو تقييم معرفة ، مواقف و ممارسات المرجعين للمراكز الرعاية الصحية الاولية تجاه الانفلونزا الموسمية و التطعيم ضدها.

الطرائق: دراسة مقطعية أجريت في مراكز الرعاية الصحية الأولية في بغداد شملت ٢٠٠ مراجع للمراكز، خلال الفترة من اول فيبراير الى نهاية ابريل ٢٠١٩، من خلال مقابلة مباشرة للمراجعين و باستخدام استبيان منظم تم اختباره مسبقا

النتائج: من ٢٠٠ مشارك بلغ متوسط العمار لهم ٣٤.٥٧ +/- ١٥.٢٥٨ سنة، نسبة الاناث ٥٨.٥٪ و نسبة الذكور ١٠٥٪ كان معدل التلقيح ضد الانفلونزا منخفض ٢٤٠٪ ، و اكثر من نصف المشاركين ٥٧٥٪ كانوا في مستوى منخفض من المعرفة و المواقف و الممارسات تجاه لقاح الانفلونزا. هناك ارتباطات ذات دلالة إحصائية بين حالة التلقيح و مستوى المعرفة (يي=٠٠٠٠) و مستوى المواقف (پي=٠٠٠٠) و الممارسات (پي<٠٠٠٠) تجاه الانفلونزا و لقاحها. كما لوحظت ارتباطات ذات دلالة إحصائية بين المعرفة و المستوى التعليمي (يي-٠٠٠٠)، و مستوى المعرفة و الممارسات (بيح<٠,٠٣٠)، و الموقف و الممارسات (بيح<٥،١٠٠) في هذه الدراسة.

الاستنتاجات و التوصيات: صياغة استراتيجيات جديدة لتحسين مستوى المعرفة بلقاح الانفلونزا للجمهور و طمانتهم بشان سلامة و فعالية اللقاح ، ادراج لقاح الانفلونزا في برنامج التحصين الوطني تعد من العو امل الأساسية لتعزيز تغطية تلقيح الانفلونز ا.

الكلمات الرئيسية: المعرفة، الموقف، الممارسة، لقاح الإنفلونز او الانفلونز ا

toward Influenza Vaccine among Knowledge, Attitudes and Practices Attendants of Primary Health Care Centers in Baghdad/Iraq 2019

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ABSTRACT BACKGROUND:

The seasonal flu, or influenza, is a serious human infection that is linked to high rates of morbidity and mortality. It is also the most common reason for preventable disease cases. Seasonal influenza epidemics cause -fatal vaccine sodes of serious disease and between 250,000 and million epi 5-between 3

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fatalities worldwide each year. Seasonal influenza is caused by 500,000 viruses of three different types: A, B, and C. Successful influenza management plans are shaped by modifying one's lifestyle **OBJECTIVE**

The purpose of this study was to evaluate patients' knowledge, attitudes, and practices about seasonal influenza and vaccination

METHODS

was performed involving 200 patients who sectional research-Cross attending to thecenters for primary healthcare in Baghdadcity, from 1st February to the end of April 2019, through direct interview using a .tested questionnaire-structured pre

RESULTS

From 200 participants; the mean age respondents was 34.57±SD 15.258 d males were 83 years, with females predominant were 117 (58.5%) an Low vaccination rate (24.5%) was reported. More than half of the .(%41.5) participants (57.5%) were in low KAP level. There were highly statistical significant associations between vaccination status with knowledge and Practices on Influenza and its vaccine (000.p=0.000), attitude (p=0) .(p<0.001)This study also found statistically significant correlations between knowledge and educational level (p= 0.030), knowledge and practices (p0.036), and attitudes and practices (p0.015).

ND RECOMMENDATIONS CONCLUSION A

The key components to increasing vaccination coverage are developing novel methods to raise public awareness of the influenza vaccine, reassuring people of the vaccine's efficacy and safety, and including the shot in the national immunization program.

KEYWORDS: Knowledge, Attitude, Practice, Influenza Vaccine and Influenza.

:INTRODUCTION

Influenza is a serious public health issue that affects people all around the world, especially the elderly and high-risk populations [1]. The influenza virus has two surface glycoproteins and nine internal proteins. It is an enveloped negative sense segmented RNA virus. The surface glycoproteins HA and NA help the virus attach to, enter, and exit infected cells [2,3].

Types A, B, C, and D of seasonal influenza viruses differ from one another in terms of their genomic organization, pathogenicity, antigenicity, epidemiology. Seasonal outbreaks of disease are brought on by the influenza A and B viruses, which circulate [2,3]. In the years 1918–19, at the start of the 20th century, influenza was widespread. A type A influenza isolate was discovered in ferrets in 1933. B-type influenza was first discovered in 1936. Millions of deaths worldwide were attributed to the Asian flu pandemic of 1957, the Hong Kong flu

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pandemic of 1968, and the 2009 global H1N1 outbreak that turned into a seasonal trend in 2010 [4]. All age groups are susceptible, however some are at more risk than others. Pregnant women, children under the age of 59 months, the elderly, people with chronic medical conditions (such as HIV/AIDS, people receiving chemotherapy or steroids, or people with cancer) and people immunosuppressive conditions (such HIV/AIDS, as people receiving chemotherapy or steroids, or people with malignancy) are all at higher risk of developing severe illness or complications from infection.

Due to increased patient exposure and the possibility of influenza virus spreading, healthcare personnel are at a greater risk of contracting the illness [2,3]. The best defense against influenza infection and serious consequences like hospitalization, death, and morbidity is immunization [4-5]. The WHO GVAP aspires to achieve national immunization rates of at least 90% and to hasten the control of all avoidable diseases [4]. Public vaccination uptake was extremely poor, with nations stating that less than half of target populations worldwide had the desired coverage [6]. During World War II in the United States, the first influenza vaccine was created in 1938 and administered to American soldiers [7,8].

Only the monovalent type A influenza virus was used in the first flu vaccinations. In 1942, a bivalent vaccine was available that contained both influenza types A and B. The first brand-new trivalent inactivated influenza vaccine received U.S. licensure in 1978 [7]. The FDA granted approval for the first LAIV, a trivalent vaccine delivered as a nasal spray, in 2003 [8]. The first quadrivalent influenza vaccination received FDA approval in 2012 [9]. Immunization of those at high risk for illness complications, their close contacts, and the healthcare professionals (HCWs) who care for them has been one of the strategies for the management of influenza. In this study, we estimate the levels of knowledge, attitudes, and practices about influenza and its vaccine among people who visit primary health care centers in Baghdad. Estimate vaccination status for this group of people as well as the presence of any relationship between knowledge and attitudes toward influenza and its vaccine.

PATIENTS AND METHODS:

A cross-sectional descriptive study was conducted starting on February 1st. to the end of April 2019; included twelve primary health centers in Baghdad from both regions, Al-kakh and Al-Rusafa. The study was performed in a sample of 200 attendants to primary health care centers in Baghdad City by direct interview. We used multistage simple random sampling technique in this study. Using a questionnaire form for collecting data [10]. The questionnaire form was the participant demographics-ciostructured. The first part included 8 items of so characteristics. The second section tested the participants' knowledge of the 11 vaccination components for influenza. In the third section, individuals' attitudes were evaluated The fourth .emstowards administering influenza vaccine 7 it section included the participants' vaccination habits and preventative strategies

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for influenza 9 items. In order to do the statistical analysis, SPSS version 21.0 ve was used. Participant sociodemographic traits were described using descripti statistics. Categorical variables were described using percentages and frequencies, whereas continuous variables were described using mean, standard deviation, and range calculations. The significance of the association between the variables was d using the chi square test. A P value of 0.05 or lower was regarded as examine .significant

:RESULTS

participants who attended to 200 (In this research primary health care centers in Baghdad City from both regions, Al-kakh and Al-Rusafa by direct interview. There were 117 females (58.5%) and 83 males (41.5%) with female to male ratio .1.4:1The mean age of the respondents was 34.57 years, (SD=15.258), median 32.00 with a range of 70 years. All socio-demographic characteristics distribution is shown in table 1. 38 -Most participants were in age group range from 29 female (58.5%), married (74.5%), middle income (68.5%), low (%23.5) education (40.5%) and employee (37%).Regarding knowledge on influenza and of participants were in a good knowledge on %vaccine are shown in table 2. 97 influenza symptoms, 93% knew mode of transmission and 91.5% knew the risk of influenza and complications. Regarding Attitude statements on influenza za are shown in table vaccine are shown in table 3. Regarding Practices on influen Distribution of study sample regarding total level scores KAP are shown in .4 .table 5

:DISSCUSION

In this study, 24.5% of the participants had been immunized. This is similar to the by Akram M. et al Baghdad Iraq 2017 [17] 21.7% findings of a study conducted and Blank et al 2012 for rates of influenza vaccination in 5 countries, 25% in Germany, 29% in France, 30% in Mexico, and 24.7% in UAE, which agreed with the question "how long flu this study results [12]. Only 38.0% correctly answered vaccine could protect individuals against influenza," which differs from the findings of Rehmani et al. in KAS 2010 [13]. Attitudes toward influenza vaccine, study said "vaccine is effective," which is similar to the results of a %60.5 conducted by Khazaeipour et al.2010 in Iran, which showed 51.4%[14], and vaccination reduces the " .approximately 73% of participants correctly answered risk of influenza transmission from one person to another," according to the aaragi et al. 80.58% in Karbala City/Iraq in -conducted by Al findings of a study Regarding Preventive measures of seasonal influenza, only 21.5% were .[15] 2015 "ksam gniraew gnisu" erew %32 "dnah gnihsaw" erew %99 "eniccav gnisu" neezing and coughing", these were" covering nose and mouth during s %94 findings were higher in US citizens, showing differences in cultural personal hygiene awareness. 63.5% were "avoid crowding places", which agreed According to a study published by Yanni et al USA 2010, 55% [16], 74.5% were counter medication," which was higher than the findings of an -the-ng overusi"

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Akram M. study. et al Baghdad Iraq 2017 38.7% [17] and Yanni et al 2010 Table 6 shows a significant relationship between knowledge level and .[16](%17) was similar to the findings of a study conducted in practice level (p=0.036). This Jempol, Malaysia (Mohd Shahriman et al., 2009) [18] and Latiff et al. in Kuala Lumpur, Malaysia 2012[19]. There was a statistically significant association This was consistent with the .7 between attitudes and practices (p=0.015) table .[findings of Wisedjinda(2009)[19]

:CONCLUSION AND RECOMMENDATIONS

Our data show that the uptake of seasonal vaccination among primary health care center attendants in Baghdad is low (24.5%). This is largely due to a lack of understanding about influenza vaccine and its benefits (56.5%). The total low KAP level is (57.5%), which necessitates educating people about this anomaly. We need to increase vaccination coverage among the general population by establishing an educational program for adults about influenza using all media (internet, television, and radio), as well as using newspapers to spread positive attitudes toward influenza vaccine; assuring the population about the safety and efficacy of influenza vaccine, and educating the population about the risk groups would benefit most vaccination. that the from

Table 1: sociodemographic characteristics of study sample with vaccination status

Variables	Groups	Frequenc	Percent
	-	y	
Age	17-15	39	19.5
	28-18	39	19.5
	38-29	47	23.5
	48-39	42	21.0
	58-49	17	8.5
	59<	16	8.0
Gender	Male	83	41.5
	Female	117	58.5
Marital Status	Married	149	74.5
	Unmarried	51	25.5
Financial Status	Low	26	13.0
	Middle	137	68.5
	High	37	18.5
Occupational Status	Employee	74	37.0
	Student	22	11.0
	Free job	23	11.5
	Housewife	63	31.5
	Unemployee	17	8.5
	Others	1	0.5
Educational Level	Illiterate & Primary	81	40.5

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	school Middle school College and Post graduate	74 5	37.0 22.5
Presence of chronic illness	Present Not present	55 145	27.5 72.5
Vaccination Status	Vaccinated not vaccinated	49 151	24.5 75.5
Total		200	%100

Table 2: Distribution of study sample regarding knowledge on influenza .and vaccine

Knowledge statments	Correct		Inco	rrect	Do	n't	Total
3	ansv	ver	answer		know		
K1=Awareness of influenza	194	97.0	3	1.5	3	1.5	
symptoms [fever, sore							
throat, cough, muscle ache,							
fatigue, nasal discharge,							
red and watery eyes, and							
headache].							
K2=Knowledge of	186	93.0	2	1.0	12	6.0	
influenza transmission							
[coughing and sneezing,							
face-to-face							
communication, hand							
shaking and embracement,							
and indirect hand contact].							
K3=Knowledge about	183	91.5	4	2.0	13	6.5	
influenza risk and							
complication [pneumonia,							
sinusitis, otitis media,							
deaths and others].			4.0			4.0.0	
K4=Have you ever heard	170	85.0	10	5.0	20	10.0	
about flu vaccine?	100	<i>-</i>	_				
K5=Is flu vaccine freely	123	61.5	7	3.5	70	35.0	
available in PHC?	7.0	260	2.5	4.0.	4.4.4		
K6=When is appropriate	52	26.0	37	18.5	111	55.5	
time to take flu vaccine?							
[Before, during, or							
immediately after flu							
season starts].							

vaccination?

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K7=For how long flu 76 38.0 25 12.5 vaccine can protect you against influenza? [One, two or three or more flu season]. K8: How many different 8 4.0 33 16.5 159 79.5 influenza vaccines are there for preventing the .illness? a single or two K9=How can flu vaccine be 122 61.0 8 4.0 70 35.0 [Injection, giving? nasal spray, or mouth drop]. K10=Dose the vaccine has 62 31.0 | 43 21.0 95 47.5 side effect? [Headache, soreness/swelling at injection site, fever, nausea, muscle ache and others]. K11: Are severe allergic 60 30.0 25 12.5 115 57.5 reactions to chicken, egg, or other vaccine ingredients a contraindication to

Table 3: Distribution of study sample regarding Attitude statements vaccine on influenza

Attitudes statements	Correct answer		Incorrect answer		Do kn	Total	
	No.	%	No.	%	No.	%	
A1=Is flu a serious illness and therefore vaccination is necessary? A2=Is the vaccine safe?	130 141	70.5	14	7.0	26	13.0	
A3=Is the vaccine effective?	121	60.5	16	8.0	63	31.5	
A4=Influenza vaccine can prevent serious	121	60.5	9	4.5	70	35.0	200

sativa& ginger) on influenza vaccine?

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complication and severity of influenza? **A5=Is vaccination reduces** 146 73.0 15 7.5 39 19.5 the risk of transfer of influenza from one person to another? A6=Do you advice your 145 72.5 32 16.0 23 11.5 family and friends to take influenza vaccine? A7=Do you prefer herbal 103 51.5 70 35.0 27 13.5 medications (honey, nigella

Distribution of study sample regarding Practices on : Table 4 .influenza

Practices statements	Correct answer		Incorrect answer		Don't know		Tota 1
	.No	%	.No	%	.No	%	
P1=Are you using vaccine?	43	21.5	156	78.0	1	0.5	
P2=Are you washing hands?	198	99.0	2	1.0		0	
P3=Are you using wearing mask?	46	23.0	147	73.5	7	3.5	
P4=Are you covering nose & mouth during sneezing & coughing?	188	94.0	11	5.5	1	0.5	200
P5=Do you avoid crowding places?	127	63.5	60	30.0	13	6.5	
P6=Are you using over the counter medication?	149	74.5	50	25.0	1	.5	
P7=Are you using doctors prescribed medication?	123	61.5	75	37.5	2	1.0	
P8=Are you using home based remedies?	157	78.5	40	20.0	3	1.5	
P9=Do you isolation yourself when you infected?	128	64.0	69	34.5	3	1.5	

Table 5: Distribution of study sample regarding total level scores.

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	.No	%	.No	%	N	%	
					.0		
Level KAP on Influenza &	11	57.5	49	24.	36	18.0	200
Vaccination	5			5			
Knowledge level on Influenza	11	56.5	55	27.	32	16.0	
&Vaccine	3			5			
Attitude level toward Vaccine	12	60.0	43	21.	37	18.5	
	0			5			
Practice level on Influenza	80	40.0	100	50.	20	10.0	
				0			

:Table 6Association between knowledge and practices on influenza &its vaccine.

		level	practices :	score		
Variables	Groups	Low	Modera	High	square-Chi	value-p
			te			
	T over	52	54	7		0.036
	Low	%46.0	%47.8	%6.2	^a 10.261	
	Moderat e	21	28	6		
level knowlege		%38.2	%50.9	10.9		
scores				%		
		7	18	7		
	High %21	%21.9	%56.3	21.9		
				%		

Table 7:Association between attitudes and practices on influenza & its vaccine.

105 vaccines										
		level _l	practices	score	square-Chi	value-p				
Variables	Groups	Low	Modera	High						
			te							
		57	56	7						
	Low	47.5	%46.7	%5.8						
		%								
Level	Moderat	13	25	5						
attitude		30.2	%58.1	11.6	12.314	0.015				
scores	e	%		%						
		10	19	8						
	High	27.0	%51.4	21.6						
		%		%						

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REFERENCES

- 1. World Health Organization. Influenza vaccines. WHO position paper. Wkly Epidemiol Rec 2002; 28:229–240.
- 2. Potter CW. A History of Influenza. *J. Appl. Microbiol* 2001; 91(4): 572-579.
- 3. Influenza (Seasonal)-World Health Organization fact sheet on influenza: includes key facts, definition, symptoms, transmission, seasonal epidemics, effects, and prevention, WHO
- **4.** World Health Organization. World Health Organization (WHO) influenza (seasonal) factsheet N211.Available online: http://www.who.int/mediacentre/factsheets/fs211/en/print.html (accessed on 4 March 2015).
- 5. Hayward AC, Harling R, Wetten S, Johnson AM, Munro S, Smedley J, Murad S, Watson JM. Effectiveness of an influenza vaccine programme for cares home staff to prevent death, morbidity, and health service use among residents: cluster randomized controlled trial. Bmj. 2006 Dec 14; 333(7581): 1241.
- 6. World Health Organization (WHO) Global Influenza Programme. Seasonal Influenza Vaccine Use in Low and Middle Income Countries in the Tropics and Subtropics—ASystematic Review. 2015. http://
- www.who.int/influenza/resources/publications/9789241565097/en/ (accessed on 5 May 2016).
- 7. f Influenza Viruses and Influenza Hannoun C. The Evolving History o .1094-1085:(9)12 '2013 Expert Rev Vaccines .Vaccines
- **8.** Cada DJ, Levien T, Baker DE. Influenza virus vaccine, live, intranasal. Hospital Pharmacy. 2003 Oct; 38(10): 947-57.
 - 9. Lowes R. First QuadrivalentFlu

vaccineApproved,DebutsFall2013. Medscape Medical News Mar 1, 2012.

- 10. Tan E K, Lim L H, Teoh Y L, Ong G, Bock H L Influenza andseasonal influenza vaccination among diabetics in Singapore: knowledge, attitudes .and practices Singapore Med J 2010; 51(8): 623
- 11.Masri MM. Predicting seasonal influenza vaccination -rentette T, ElMa .38-based nurses. ClinNursRes2011; 20:422-among hospital
- 12.Blank PR, Bonnelye G, Ducastel A, Szucs TD. Attitudes of the general public and general practitioners in five countries towards pandemic and seasonal influenza vaccines during season 2009/2010. PLoS One. 2012 Oct 11; 7(10): e45450.
- 13.Rehmani R, Memon JI. Knowledge, attitudes and beliefs regarding influenza vaccination among healthcare workers in a Saudi hospital. Vaccine. 2010 Jun 11; 28(26): 4283-7.
- **14.**Khazaeipour Z, Ranjbarnovin N, Hoseini N. Original Article Influenza Immunization rates , knoweldge , attitudes and practices of health care workers in Iran. *J Infect Dev Ctries* 2010;4(10):636-644.

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No. 7A - December 2022

Print ISSN 2710-0952 —— Online ISSN 2790-1254



15.Al aaragi A. Knowledge and Awareness Regarding Seasonal Flu among a Sample of Paramedical Staff in Holy Karbala City/ Iraq. Journal of Biology,

.Agriculture and Healthcare.2015

16.Yanni EA, Marano N, Han P, Edelson PJ, Blumensaadt S, Becker M, DwyerS, Crocker K, Daley T, Davis X, Gallagher N. Knowledge, attitudes, and practices of US travelers to Asia regarding seasonal influenza and H5N1 avian influenzaprevention measures. Journal of travel medicine. 2010 Nov 1; 17(6): 374-81.

17. Akram M. Knowledge and attitude about Seasonal Influenza in Clientsvisiting Primary Health Centers in Baghdad. Int. J. of Multidisciplinary and Current research. 2017 Jan; 5.

18.Mohd Shahriman A. F., & Sin Y. K. (2009). A cross sectional studies on and practice (KAP) 'demographic factors in knowledge, attitude-the socio on influenza A H1N1 among residents of Felda Palong, Jempol, and Negeri .Sembilan. MD dissertation. University Putra Malaysia

19.Latiff LA, Parhizkar S, Zainuddin H, Chun GM, Liyana MA, Ramli N, YunKL. Pandemic influenza a (H1N1) and its prevention: a cross sectional study onpatients' knowledge, attitude and practice among patients attending primary healthCare Clinic in Kuala Lumpur, Malaysia. Global journal of health science. 2012 Mar; 4 (2): 95.