

Nutritional awareness, dietary rule and fit lifeway of medical students in al Muthanna university

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Abstract:

Background: We have before revealed that systematic regime of youthful Chinese female students is significantly associated with their wish to be slimmer. In the current revision, we observed the nutritional awareness, dietary rule and fit lifeway of medical students in al Muthanna university and matched them with persons of other peoples.

Methods: across sectional study, self-informed survey was directed to 285 students, varying in oldness from 18-25 years. Medical college students from al Muthanna University (93 males and 192 females) joined inside this revision. Variables were analyzed using Chi-square analyses.

Results: Our outcomes revealed that 73% of students had a usual BMI and 16 % of students were underweight and 2% of them were obese in current revision example. Youthful Iraqis feminine students had a more wish to be slimmer (73%) than males (66%). Lifestyles including systematic intake designs and vegetable eating were informed and characterize exercises that must be fortified.

Conclusions: The university and college grounds characterize the ultimate chance for the fitness and dietary learning of a huge number of students from the instructor's viewpoint. Our conclusions advise the requirement for plans aimed to increase fitness in the region of diet.

INTRODUCTION:

Obesity is unusual and unnecessary fat deposition in adipose tissue to may be harmfully affected by the health [1].

Obesity is a problem has been increasing in numerous states especially in low-income states. Iraq has been accepted and approved free a rule of marketing and increase in economic development which led to change in the building of the diet of Iragis [2,3,4]. The structure of the Iragis diet has been included much meat, fats and carbohydrate more than fruits, vegetable and fibres [20,5]. Added to all above sedentary lifestyle has been increasing the numbers of obese and overweight people and these raise the food-related chronic diseases; dyslipidemia, hypertension, ischemic heart diseases, diabetes mellitus type 2 and metabolic syndrome [21],[6,7,8].

students of universities are theoretically essential aims for the advertising of well lifestyles of residents due to they have poor eating routine, fast psychological and physical developments may lead to weight gain [9][10,11,12]. Poor eating routine in college students occurs due to stress, anxiety, deficiency of time and Environmental elements [13,14,15].

usual harmful eating habit is involved: meal missing, eating outside the home, fast food eating, smoking and impropriate sleep habit[11,12,16][19].

It had been supposed that medical students would have routine well nutritional lifestyles matched to non-medical students [17].

While medical students had adequate information concerning good dietary lifestyles, they unsuccessful to put on this information into habit [13]. The stress of life and medical education load are the factors that have an adverse effect on their food habit [18].

The reason for this paper was to get a primary accepting of a relation level of basal metabolic rate spreading in al Muthanna university medical students and to regulate the dietary awareness and body-imagen insights.

METHODS:

across-sectional analysis was done between November 2017 & May 2018 in al some city/Iraq. Medical students of al Muthanna university [92 (32%) men and 193 (68%)women] contributed in this paper. An experimental students old (18-25) years with mean and SD.(19.9 \pm 1.3), were ordered by a self-informed survey. The survey involved 15 requests; concerning drinking, eating and smoking behaviours (13 requests), and tow requests related to slimming (weight loss). All students mention there weight and height to assess their basal metabolic rate (kg/m^2) . A survey was planned by the writers and grounded on a general nutritional assessment via the Iraqis' the ministry of health and chines study. A knowledgeable agreement was obtained from all students of this paper affording to the Declaration of Helsinki. SPSS 22 was applied for analytic data In this paper, Chi-square examines were guided for analyzed variables. P-value < 0.05 was reflected statistically significant.

Features of the model and BMI groups

In features of study sample table (1) showed: the whole sample of study are 92 male and 193 female, with a mean and standard deviation(SD). (20 ± 1.3) years. Mean and SD of BMI was (22 ± 3.04). To examine the spreading of BMI and health-related performance, BMI was classified into 4 clusters according to WHO classification of obesity and BMI [1]. As showed in the table (2) and fig. (2), normal BMI groups showed 24% males and 49% females. While low weight (less than 18.5) showed 2% males and 7% females, overweight BMI (25-29.9) showed 5% males and 10% females. While obese students (over than 30) in males 1% only and females 1% also.

Table (1): Features of the study sample.

	Age	BMI
Mean	19.89	22.21
Std. Deviation	1.317	3.043

			1 able (2). Divin	clusters of student	ა.		
				Total			
			low weight	normal	overweight	obese	Total
	mala	Count	6	68	15	3	92
condor	male	% of Total	2.1%	23.9%	5.3%	1.1%	32.3%
gender	famala	Count	21	140	30	2	193
	Temate	% of Total	7.4%	49.1%	10.5%	0.7%	67.7%
	Total	Count	27	208	45	5	285
	Total	% of Total	9.5%	73.0%	15.8%	1.8%	100.0%

Table (2): **PMI** abustars of students

		Table	(3): Regime p	performs by g	gender				
Questions	Levels	Total (%)		Mal	e (%)	Fema	p values		
Vou hous a most	-always regular	139	49 %	52	18 %	87	31 %	n.s.	
i ou nave a meai	-irregular	146	51%	40	14%	106	37%	-	
	everyday	126	44%	47	16 %	79	28 %		
you have	-3 or 4 periods/week	57	20%	18	6%	39	14 %	_	
breakfast	-1or 2/	45	16%	15	6 %	30	10 %	n.s.	
	-not often	57	20 %	12	4 %	45	16 %	-	
	-1 spells	15	5 %	9	3 %	6	2 %		
times you eat	-2 spells	105	37 %	24	8 %	81	29 %		
snacks	-3 spells	138	48 %	51	18%	87	30 %	- P<0.05	
Shacks	-4 spells	27	10 %	8	3 %	19	7 %	-	
	-everyday	64	22 %	16	6 %	48	16 %		
snacks you have	-3 or 4/week	73	26 %	23	8 %	50	18 %	_	
fixed meal	-1 or 2/week	76	27 %	31	11 %	45	16 %	n.s.	
fixed filear	-not often	72	25 %	22	8 %	50	17 %	-	
	everyday	110	39 %	25	9 %	85	30%	- D -0.05	
you have green,	3 or 4/week	93	32 %	38	13%	55	19%		
red or yellow	1 or 2/week	60	21 %	25	9%	35	12%	- P<0.05	
colored vegetables	not often	22	8 %	4	2 %	18	6%	-	
	everyday	106	37%	25	9%	81	28%	- D -0.05	
	3 or 4/week	96	34%	34	12%	62	22%		
you eat fruits	1 or 2/week	66	23%	29	10%	37	13%	- P<0.05	
	not often	17	6%	4	1%	13	5%	-	
	everyday	95	33%	29	10%	66	23%		
	3 or 4/week	99	35%	37	13%	62	22%	_	
you eat fried food	1 or 2/week	65	23%	21	7%	44	16%	n.s.	
	not often	25	9%	5	2%	20	7%	-	
	everyday	200	70%	56	20%	144	50%		
you have to eat	3 or 4/week	32	11%	12	4%	20	7%	-	
friends	1 or 2/week	36	13%	15	5%	21	8%	п.s.	
menus	at all times lonely	17	6%	9	3%	8	3%	-	
	present smoker	16	6%	16	6%	0	0%		
you are smoking	ex-smoker	12	4%	9	3%	3	1%	P<0.05	
	not smoke	257	90%	67	24%	190	66%	-	
food you eat to	mostly meat	20	7%	12	4%	8	3%		
ensure a stable	mostly	46	16%	14	5%	32	11%	P<0.05	
diet	meat, vegetable and	219	77%	66	23%	153	54%	-	

Eating routine:

Regime performs were linked by gender table (3). The bulk of students (51 %) informed they had meals irregularly, 44 % had everyday breakfast,27% had snacks 1 or 2 /week together with the fixed meal, 35% they had to eat fried food 3 or 4 per week,70 % of them eat with family and friends. But there was no difference between males and females for all above.

Conversely, a significant variance was established in the reaction relating to 3 spells eat meals exclude snacks, with 18% of males and 30% of females (p < 0.05). Every day had green, red or yellow colored vegetables was notably more in women(30%) than in men (9%), (p < 0.05). Every day ingesting vegetable and fruits was significantly more in female than male (28%), (9%) respectively p < (0.05).smoking habit is more significant in male (6%) than female (0%) but (90%) of students, not smocking.

Female more eat stable diet meat, vegetable and another type of food than male (54%) p< 0.05. Table (3).

Body shape and health awareness :

According to body shape and health awareness, we study group of males separate from group of females, 53% of males not tried to be on a regime but 66% had been slim to become attractive, and (38%) had snacks 3 or 4/ week,(67%) had awareness to discover extra information about dieting, (63%) of them had to change lifestyle and improve dieting but all not significant and not dependable on their BMI they had normal BMI.

In the female group, there was significant and dependable body shape and health awareness, (51%) of female had been tried to be on regime p < 0.05. And (69%) of them had an awareness to discover extra information about dieting p < 0.05.

Male						BMI	groups					
Requests	Stages	Low	weight%	Ň	formal %	Ove	rweight %	()bese %	Т	otal %	p values
you tried to	sure	3	3%	30	33%	8	9 %	2	2%	43	47%	
be on a regime	No	3	3%	38	41%	7	8%	1	1%	49	53%	n.s.
you need to	Sure	4	4%	45	49%	11	12%	1	1%	61	66%	
be slim to become attractive	No	2	2%	23	25%	4	5%	2	2%	31	34%	n.s.
	everyday	2	2%	13	14%	5	6%	1	1%	21	23%	
you have	3 or 4/ week	3	3%	27	29%	4	5%	1	1%	35	38%	
snacks	1 or 2 / week	1	1%	14	15%	4	4%	0	0%	19	20%	11.8.
	not often	0	0%	14	15%	2	2%	1	1%	17	18%	
	to discover extra	4	4%	48	52%	7	8%	3	3%	62	67%	
You have	discover in the future	2	2%	15	17%	3	3%	0	0%	20	22%	_
awareness	Not concern but well to discover	0	0%	3	3%	5	6%	0	0%	8	9%	— n.s.
	not concerned	0	0%	2	2%	0	0%	0	0%	2	2%	
Vou have to	dietary lifestyles& improve	4	4%	42	46%	11	12%	1	1%	58	63%	
change	not need	1	1%	15	17%	2	2%	2	2%	20	22%	n.s.
	Don't care	1	1%	11	12%	2	2%	0	0%	14	15%	
Female						DMI and						
						DIVIT gro	oups					
Requests	stage	Low we	eight(%)	Norn	nal(%)	Overwe	ight(%)	Ob	ese(%)	Tota	d (%)	p-value
Requests you tried to	stage Sure	Low we	eight(%) 3%	Norn 70	nal(%) 36%	Overwei 21	ight(%) 11%	Ob	ese(%) 1%	Tota 98	l (%) 51%	p-value
Requests you tried to be on a regime	stage Sure No	Low we 6 15	right(%) 3% 7%	Norn 70 70	nal(%) 36% 36%	Overwe 21 9	sups ight(%) 11% 5%	Ob 1 1	ese(%) 1% 1%	Tota 98 95	l (%) 51% 49%	p-value P<0.05
Requests you tried to be on a regime you need to	stage Sure No Sure	Low we 6 15 15	right(%) 3% 7% 7%	Norm 70 70 98	nal(%) 36% 36% 51%	Overwei 21 9 27	sups ight(%) 11% 5% 14%	Ob 1 1	ese(%) 1% 1% 1%	Tota 98 95 141	l (%) 51% 49% 73%	p-value P<0.05
Requests you tried to be on a regime you need to be slim to become attractive	stage Sure No Sure No No	Low we 6 15 15 6	ight(%) 3% 7% 7% 3%	Norm 70 70 98 42	nal(%) 36% 36% 51% 21%	Overwei 21 9 27 3	ight(%) 11% 5% 14% 2%	Ob 1 1 1 1 1	ese(%) 1% 1% 1% 1%	Tota 98 95 141 52	1 (%) 51% 49% 73% 27%	p-value P<0.05 n.s.
Requests you tried to be on a regime you need to be slim to become attractive	stage Sure No Sure No everyday	Low we 6 15 15 6 9	ight(%) 3% 7% 7% 3% 5%	Norm 70 70 98 42 55	nal(%) 36% 36% 51% 21% 28%	BMI gro Overwee 21 9 27 3 13	Jups ight(%) 11% 5% 14% 2% 7%	Ob 1 1 1 1 1 0	ese(%) 1% 1% 1% 1% 0%	Tota 98 95 141 52 77	I (%) 51% 49% 73% 27% 40%	p-value P<0.05 n.s.
Requests you tried to be on a regime you need to be slim to become attractive	stage Sure No Sure No everyday 3 or 4 /week	Low we 6 15 15 6 9 4	ight(%) 3% 7% 7% 3% 5% 2%	Norm 70 70 98 42 55 40	nal(%) 36% 36% 51% 21% 28% 21%	BMI gro Overwei 21 9 27 3 13 6	Jups ight(%) 11% 5% 14% 2% 7% 3%	Ob 1 1 1 1 1 0 1	ese(%) 1% 1% 1% 1% 0% 1%	Tota 98 95 141 52 77 51	I (%) 51% 49% 73% 27% 40% 27%	p-value P<0.05 n.s.
Requests you tried to be on a regime you need to be slim to become attractive you have snacks	stage Sure No Sure No everyday 3 or 4 /week 1 or 2 / week	Low we 6 15 15 6 9 4 3	sight(%) 3% 7% 7% 3% 5% 2%	Norn 70 70 98 42 55 40 34	nal(%) 36% 36% 51% 21% 28% 21% 17%	Bining ref Overwei 21 9 27 3 113 6 7	Jups ight(%) 11% 5% 14% 2% 7% 3% 3%	Ob 1 1 1 1 1 0 1 1	ese(%) 1% 1% 1% 1% 1% 0% 1% 1%	Tota 98 95 141 52 77 51 45	I (%) 51% 49% 73% 27% 40% 27% 23%	p-value P<0.05
Requests you tried to be on a regime you need to be slim to become attractive you have snacks	stage Sure No Sure No everyday 3 or 4 /week 1 or 2 / week not often	Low we 6 15 15 6 9 4 3 5	sight(%) 3% 7% 7% 3% 5% 2% 3%	Norn 70 70 98 42 55 40 34 11	nal(%) 36% 36% 51% 21% 28% 21% 17% 5%	BMI gr Overwe 21 9 27 3 13 6 7 4	Jups ight(%) 11% 5% 14% 2% 7% 3% 2%	Ob 1 1 1 1 0 1 1 0 1 1 0 1 0 1 0 1 0	ese(%) 1% 1% 1% 1% 1% 0% 1% 1% 0%	Tota 98 95 141 52 77 51 45 20	1 (%) 51% 49% 73% 27% 40% 27% 23% 10%	p-value P<0.05
Requests you tried to be on a regime you need to be slim to become attractive you have snacks	stage Sure No Sure No everyday 3 or 4 /week 1 or 2 / week not often to discover extra	Low we 6 15 15 6 9 4 3 5 10	sight(%) 3% 7% 7% 3% 5% 2% 3% 5% 5%	Norm 70 70 98 42 55 40 34 11 100	nal(%) 36% 36% 51% 21% 28% 21% 5% 52%	BMI gr Overwe 21 9 27 3 13 6 7 4 24	Jups ight(%) 11% 5% 14% 2% 7% 3% 3% 2% 12%	Ob 1 1 1 1 1 1 1 1 1 0 1 0 0 0 0 0 0 0 0	ese(%) 1% 1% 1% 1% 1% 0% 1% 1% 0% 0% 0%	Tota 98 95 141 52 77 51 45 20 134	1 (%) 51% 49% 73% 27% 40% 27% 10% 69%	p-value P<0.05
Requests you tried to be on a regime you need to be slim to become attractive you have snacks	stage Sure No Sure No everyday 3 or 4 /week 1 or 2 / week not often to discover extra discover in the future	Low we 6 15 15 6 9 4 3 5 10 8	ight(%) 3% 7% 7% 3% 5% 2% 3% 5% 4%	Norm 70 70 98 42 55 40 34 11 100 26	nal(%) 36% 36% 51% 21% 28% 21% 5% 52% 14%	BMI gr Overwe 21 9 27 3 13 6 7 4 24 4	Jups ight(%) 11% 5% 14% 2% 7% 3% 2% 12% 2%	Ob 1 1 1 1 1 1 0 1 0 1 0 1 0 1 0 1 2	ese(%) 1% 1% 1% 1% 1% 0% 1% 1% 0% 1% 1% 1%	Tota 98 95 141 52 77 51 45 20 134 40	1 (%) 51% 49% 73% 27% 40% 27% 23% 10% 69% 21%	p-value P<0.05
Requests you tried to be on a regime you need to be slim to become attractive you have snacks	stage Sure No Sure No everyday 3 or 4 /week 1 or 2 / week 1 or 2 / week not often to discover extra discover in the future Not concern but well to discover	Low we 6 15 15 6 9 4 3 5 10 8 2	bight(%) 3% 7% 7% 3% 5% 2% 3% 5% 4% 1%	Norm 70 70 98 42 55 40 34 11 100 26 13	nal(%) 36% 36% 51% 21% 28% 21% 5% 52% 14% 7%	Birling Overwee 21 9 27 3 13 6 7 4 24 4 1	Jups ight(%) 11% 5% 14% 2% 7% 3% 3% 2% 12% 2% 0.5%	Ob 1 1 1 0 1 0 1 0 2 0 0	ese(%) 1% 1% 1% 1% 1% 0% 1% 1% 0% 1% 1% 0% 0% 1% 0% 0%	Tota 98 95 141 52 77 51 45 20 134 40 16	1 (%) 51% 49% 73% 27% 40% 27% 20% 21% 8.5%	p-value P<0.05
Requests you tried to be on a regime you need to be slim to become attractive you have snacks	stage Sure No Sure No everyday 3 or 4 /week 1 or 2 / week not often to discover extra discover extra discover in the future Not concern but well to discover not concerned	Low we 6 15 15 6 9 4 3 5 10 8 2 1	ight(%) 3% 7% 7% 3% 5% 2% 3% 5% 4% 1% 0.5%	Norm 70 70 98 42 55 40 34 11 100 26 13 1	nal(%) 36% 36% 51% 21% 28% 21% 17% 5% 52% 14% 7% 0.5%	BMI gr Overwe 21 9 27 3 13 6 7 4 24 4 1 1	Jups ight(%) 11% 5% 14% 2% 7% 3% 3% 2% 12% 2% 0.5%	Ob 1 1 1 1 1 0 1 0 1 0 1 0 1 0 1 0 1 0 0 2 0 0 0 0	ese(%) 1% 1% 1% 1% 1% 0% 1% 1% 0% 1% 0% 0% 1% 0% 0% 0%	Tota 98 95 141 52 77 51 45 20 134 40 16 3	1 (%) 51% 49% 73% 27% 40% 27% 23% 10% 69% 21% 8.5% 1.5%	p-value P<0.05
Requests you tried to be on a regime you need to be slim to become attractive you have snacks	stage Sure No Sure No everyday 3 or 4 /week 1 or 2 / week 1 or 2 / week not often to discover extra discover in the future Not concern but well to discover not concerned dietary lifestyles&improve	Low we 6 15 6 9 4 3 5 10 8 2 1 11	ight(%) 3% 7% 7% 3% 5% 2% 3% 5% 4% 1% 0.5% 5.5%	Norm 70 70 98 42 55 40 34 11 100 26 13 1 95	nal(%) 36% 36% 36% 21% 21% 21% 5% 52% 14% 7% 0.5% 49%	Birling Overwee 21 9 27 3 13 6 7 4 24 4 1 21	Jups ight(%) 11% 5% 14% 2% 7% 3% 3% 2% 12% 2% 0.5% 11%	Ob 1 1 1 0 1 0 1 0 2 0 0 1 0 1 0 1 0 0 1 0 1 0 1	ese(%) 1% 1% 1% 1% 1% 0% 1% 1% 0% 1% 0% 0% 0% 0% 0%	Tota 98 95 141 52 77 51 45 20 134 40 16 3 128	1 (%) 51% 49% 73% 27% 40% 27% 40% 27% 23% 10% 69% 21% 8.5% 1.5% 66%	p-value P<0.05
Requests you tried to be on a regime you need to be slim to become attractive you have snacks You have awareness You have to change	stage Sure No Sure No everyday 3 or 4 /week 1 or 2 / week 1 or 2 / week not often to discover extra discover in the future Not concern but well to discover not concerned dietary lifestyles&improve not need	Low we 6 15 15 6 9 4 3 5 10 8 2 1 11 3	ight(%) 3% 7% 7% 3% 5% 2% 3% 5% 4% 1% 0.5% 5.5% 2%	Norm 70 70 98 42 55 40 34 11 100 26 13 1 95 29	nal(%) 36% 36% 36% 51% 21% 28% 21% 17% 5% 52% 14% 7% 0.5% 49% 15%	Birling Overwee 21 9 27 3 13 6 7 4 24 4 1 21 5	Jups ight(%) 11% 5% 14% 2% 7% 3% 2% 12% 2% 0.5% 11% 3%	Ob 1 1 1 1 0 1 0 1 0 2 0 0 1 1 0 1 1 0 1 1 0 1 1 1 1	ese(%) 1% 1% 1% 1% 1% 1% 1% 0% 1% 1% 0% 0% 1% 0% 0% 0% 0% 0% 0% 0% 0.5%	Tota 98 95 141 52 77 51 45 20 134 40 16 3 128 38	I (%) 51% 49% 73% 27% 40% 27% 23% 10% 69% 21% 8.5% 1.5% 66% 20.5%	p-value P<0.05

Table 4 - Body shape and health awareness of Iraqis students



While (73%) had been slim to become attractive, and (40%) had snacks every day. (66%) of them had to change lifestyle and improve dieting but all not significant and not dependable on their BMI they had normal BMI. Table (4).

DISCUSSION:

The aim of this study is to conclude nutritional awareness, dietary rule and fit lifeway of Iraqis medical students in al Muthanna university. As an outcome, we documented the spreading of BMI between students and we discovered a small frequency of the obesity, a result is uniform with a paper of female students in Japan (overweight was 5.8%, obese was 0%) [22]. 35% of the college scholars are described to be overweight or obese in USA [24]. Agreeing to the WHO description of obesity [23]. Also, the result was uniform with a study of Chinese students (overweight was 2.5%, obesity was 0.4%) [34].

The WHO skilled discussion described that BMI in Asian populations is associated with disease [25]. The amount of energy resulting from the oil of both animal and vegetable origins enlarged every year. A new revision showed that energy resulting from nutritional fat equal extra than 30% of the entire power [26]. Variations in nutritional structure, which parallel to socioeconomic development, may be quicken occurrence of obesity in Iraq. A consequences of revision display that a bulk of scholars asymmetrical eat 3 spells/day (48%), in contrast to Chinese students (83%) had regular eat three spells /day , and nearly (39%) of Iraqis students eat fruit and vegetables every day this results from similar Chinese research (48%) ,these eating lifestyles must be fortified [34].

The traditional Iraqis diet contains sufficiently of vegetables especially rice. Like Chinese students (76%), the current study informed a great number of scholars eat breakfast daily (48%) [34]. In compare, a nutritional survey of Japanese students and Chinese students have shown a little of students involved in systematic eating arrangement [27].

The missing of breakfast had been related to poorer dietary rank and a danger of circulatory illnesses [28]. Also had been described that insufficient breakfast lifestyles may effect on appearance and additional progress of obesity [29]. So the significance of systematic eating designs not be exaggerated in dietary learning. Results revealed that build character awareness was significantly changed among female and male students. A number of scientists had been explored the association of body appearance and gender character.

females have always try to be a thinner character, direct additional worry about appearing obese, and are further liable to the regime than males [30,31]. In compare, males had been described a wish for a fuller build and bulkiness [32]. In current years, eating sicknesses had been rising intensely among youthful females. The outcomes of our revision not approved this idea to the level of statistical significance; though, it means aiming that 49% and 7% of female students normal and low weight BMI, designated a wish to be slim. Actuality youthful, female, and slimming are known danger causes that had been dependably related to the progress of consumption illnesses [33]. It was guessed that the students who were anxious with a slim build may progress eating disorders. So, a preferment of fit mass managing exercises must be measured when evolving health training plans.

CONCLUSION:

our results expose that a bulk of students be there categorized into the normal basal metabolic rate set, with a frequency of obesity creature actual little in this revision example. Youthful feminine students had a more wish to be slimmer than male students. Lifestyles including systematic consumption arrangements and vegetable eating were initiate and characterize performs that must be fortified. The snack and meal plans in Iraqis students were like to the old-style consumption design. The university grounds signify the last chance for the nutritional instruction of a big amount of students from the instructor's viewpoint. We suggest the need for plans planned to develop capability in the area of nutrition. Also, community request for fitness and dietary data should be occupied into thought when applying plans to educating the dietary healthy people.

ACKNOWLEDGEMENTS:

The authors direct their gratefulness for the vital trust and provision of Dr. Zena ismaeel kadhem ...for helping us in all parts of our study.

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