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Research Article

THE PREVALENCE OF IRRITABLE BOWEL SYNDROME AMONG ALMAAREFA UNIVERSITY

Amar Fathi Khalifa¹, Anas Abdulrhman Alqassem¹, Zied Abdullah Aljubour¹, Housam Saeed Alzahrani¹, Mohammed Abdulrhman Almuhaidib¹, Salman Sunaitan Almutairi¹, Khaled Abdullah Alshareef¹, Hisham Saleh Almalki¹

1- Al Maarefa University

Abstract:

Background: despite the modern society and medical knowledge, irritable bowel syndrome has been common these days in medical students in Ryiadh city.

Objectives: irritable bowel syndrome [IBS] is a common gastrointestinal disease presenting with abdominal pain, bloating and change in bowel habit. This study aims to assess the prevalence of irritable bowel syndrome in medical students in Almaarefa university, Saudi Arabia.

Methods: a cross-sectional study on the prevalence of irritable bowel syndrome was randomly distributed among male in almaarefa University in Riyadh city, of Saudi Arabia from January to November 2015 involving 100 medical student participants.

Results: in 18% of the participants have been diagnosed with IBS and 28.5% fit Rome III criteria for the diagnosis of IBS. Stress with a percentage of 69.2% and lack of exercise 75.9% being the highest risk factors of IBS.

Conclusion: our result showed that huge number of medical students are suffering from inflammatory bowel syndrome

Research problem: Measuring awearness of irretabile bowel syndrome among medical student in almarefa university.

Research Keywords: Irritable bowel syndrome, Medical students, Rome III criteria.

Research significant and motivation : Measuring the awareness of irritable bowel syndrome among medical student will give us an overall picture on importance of irritable bowel syndrome and how those student deal with it and there for facilitating educational programs about this condition .

Corresponding author:

Amar Fathi Khalifa,

Al Maarefa University



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INTRODUCTION:

Irritable bowel syndrome [IBS] is a chronic functional gastrointestinal disorder characterized by recurrent episodes of abdominal pain and discomfort, and altered bowel habits that are not explained by structural or biochemical abnormalities [1] . IBS is the most common chronic disease affecting the digestive system, approximately 10 - 20% of general population [2]. Only 15 % of these patients seek medical attention [2]. Some studies revealed that 12% of primary health care visits and 28% of referrals to gastroenterologists are due to IBS [3,4].

The pathogenesis of this disease is not fully understood. However, many factors such as anxiety, depression, and stress are positively related to the degree of severity of IBS symptoms [5]. Medical students undergo a high level of stress that may negatively impact their general health. A Korean study found that the prevalence of IBS was 29.2% among 319 medical students [6]. A local study in Eastern Province of Saudi Arabia showed that the prevalence of stress among medical students was 53% [7].

As a result, medical students are at higher risk of experiencing IBS. A cross-sectional study conducted on medical students in Beijing, China showed that the prevalence of IBS is 33.3% [8]. A similar study done at King Abdulaziz University, Jeddah presented a 31.8% prevalence of IBS among medical students and interns [9].

General objectives:

- To estimate the proportions of Irritable bowel syndrome.in almaarefacollege. Riyadh.
- To identify the most common types of Irritable bowel syndrome among male students in almaarfa health colleges in Riyadh city-2015.

Specific objectives:

- To estimate the Irritable bowel syndrome with stress factor like before exam and in sleep cycle dose it effect.
- To estimate the Irritable bowel syndrome with life style habits like how many type of exercise and for how much time, and if he have dietary

- system or if he have special type of food would be effect in Irritable bowel syndrome.
- To estimate of Irritable bowel syndrome with smoking habits does he feel pain after smoke or not.

METHODOLOGY:

Study design: cross-sectional community-based study

Study area: Male student almareefa university

Sample size: 100.

Technique: convenience sample of male student in MCST.

Data needs:

- Instrument: validity and reliability will be checked being data collection.
- Definition: Irritable bowel syndrome [IBS] is a common disorder that affects the large intestine [colon]. Irritable bowel syndrome commonly causes cramping, abdominal pain, bloating, gas, diarrhea and constipation. IBS is a chronic condition that you will need to manage long term
- Data collection: questionnaire will be distributed in class rome by investigator explain the procedure and ask them to complete the form.

DATA ANALYSIS:

- 1. Statistical Package for Social Sciences [SPSS].
- 2. Descriptive statistics [e.g. number, percentage].
- 3. Questionnaire will be checked.

Objective: this questionnaire was translated to Arabic language and necessary modification was made to meet the objectives. It consists of three parts: demographic data, IBS diagnosis using Rome III criteria and associated factors.

Ethical consideration: oral consent.

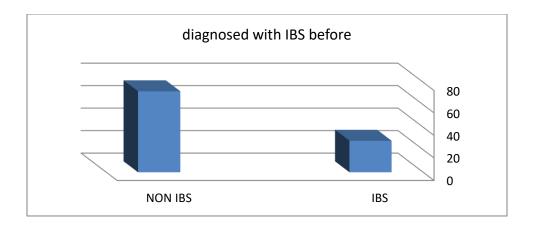
Time line: title selection [first & second week], objectives [third & forth week], background [fifth week], lit review [fifth till tenth week], area [fourth week], sampling [seventh week], instrument [seventh till tenth week], analysis plan [eleventh week]

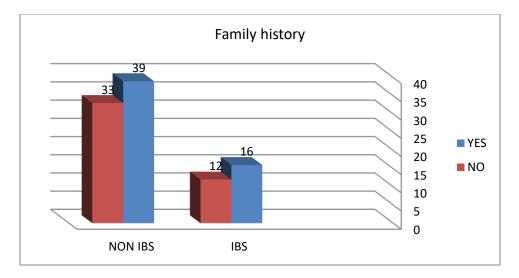
Questionnaire: the questionnaire is Rome III criteria and it consist of 19 questions

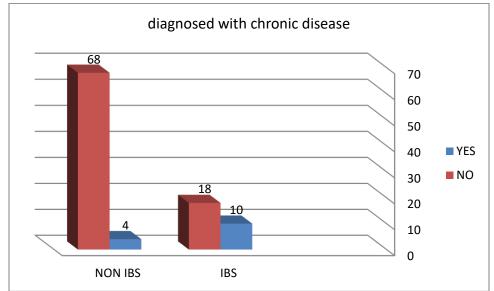
IBS	NON IBS	TOTAL		
28	72	100		
Family history				
Family history	IBS	NON IBS		
YES	16	39		
NO	12	33		
TOTAL	28	72		

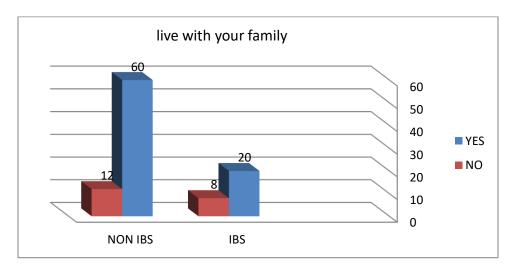
	71 7 107 7			
P 1 24 1 2 P	diagnosed with chr			
diagnosed with chronic disease	IBS	NON IBS		
YES	10	4		
NO	18	68		
TOTAL	28	72		
live with family				
live with your family	IBS	NON IBS		
YES	20	60		
NO	8	12		
TOTAL	28	. 72		
D : .	Doing exer			
Doing exercise	IBS	NON IBS		
yes	15	30		
no	13	42		
total	28	72		
HOLD	Sleep ho			
HOUR	IBS	NON IBS		
4H	15	5 15		
6H	10			
8H TOTAL	3 28	52 72		
TOTAL				
Afficiation observations lost (Affective shock durin			
Affective shock during last 6 months	IBS	NON IBS		
YES	3	2		
NO	25	70		
TOTAL	28	72		
	suffer from de			
suffer from depression	IBS	NON IBS		
YES	3	1		
NO	25	71		
TOTAL	28	72		
~ ~ .	suffered from recurring			
Suffered from recurring abdominal pain	IBS	NON IBS		
YES	20	9		
NO	8	63		
TOTAL	28	72		
	suffered from o			
suffered from diarrhea	IBS	NON IBS		
YES	12	29		
NO	16	43		
TOTAL	28	72		
	suffered from co			
suffered from constipation	IBS	NON IBS		
YES	16	46		
NO	12	26		
TOTAL	28	72		
	blood in the	stool		
blood in the stool	-			
YES	3	4		
NO	25	68		
TOTAL	28	72		
	suffer from Sudden ra			
Sudden rapid weight loss	IBS	NON IBS		

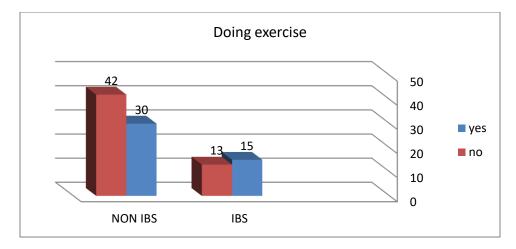
YES	8	2		
NO	20	70		
TOTAL	28	72		
smoking				
smoke	IBS	NON IBS		
YES	17	55		
NO	11	17		
TOTAL	28	72		
an allergy to any type of foods				
an allergy to any type of foods	IBS	NON IBS		
YES	8	21		
NO	20	15		
TOTAL	28	72		
financial problem				
financial problem	IBS	NON IBS		
YES	6	6		
NO	22	66		
TOTAL	28	72		
pain affects your presence on university				
pain affects your presence on university	IBS			
YES	14			
NO	14			
TOTAL	28			
pain wake you from sleep				
pain wake you from sleep	IBS	•		
YES	16			
NO	12			
TOTAL	28			
pain go away after the bowel habits				
pain go away after the bowel habits	IBS			
YES	12			
NO	16			
TOTAL	28			

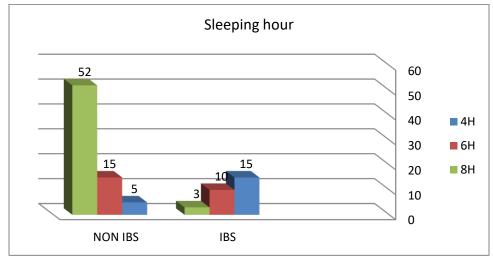


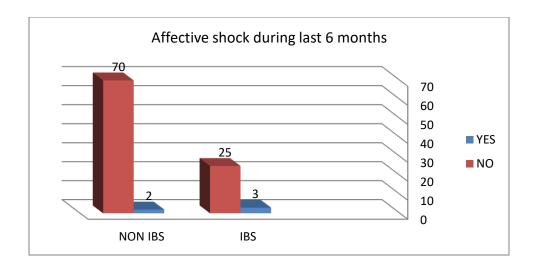


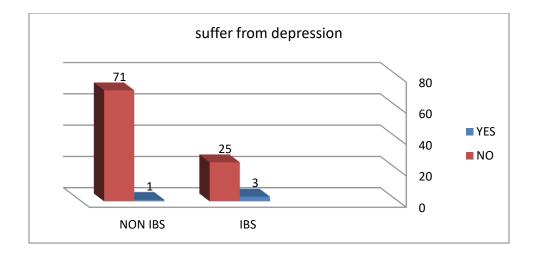


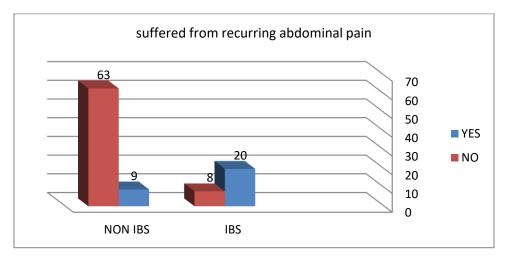


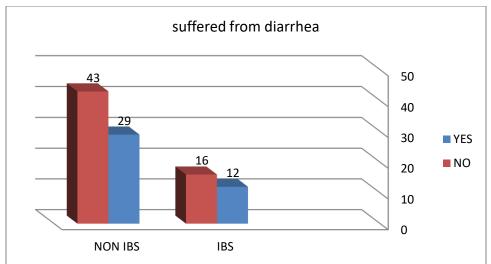


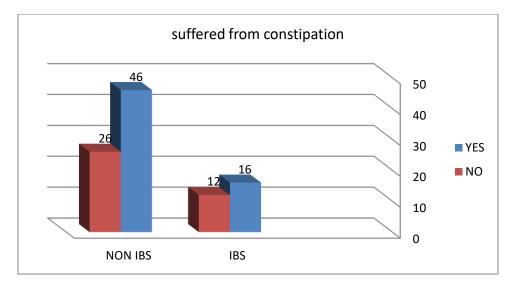


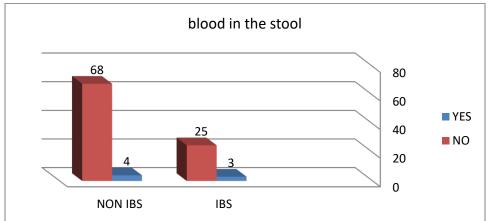


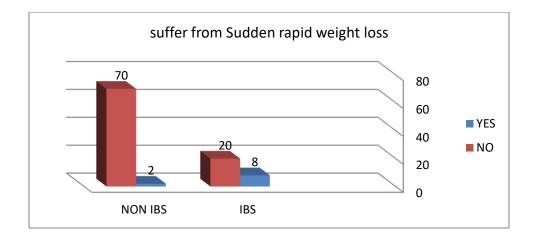


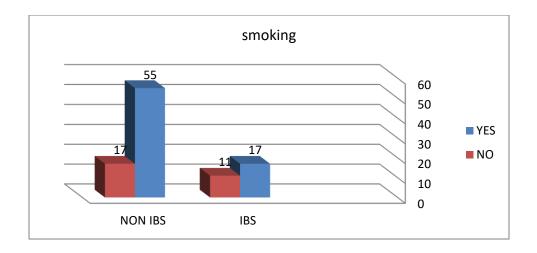


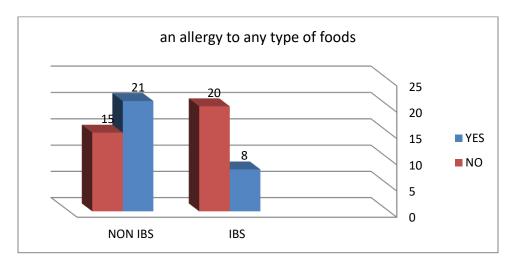


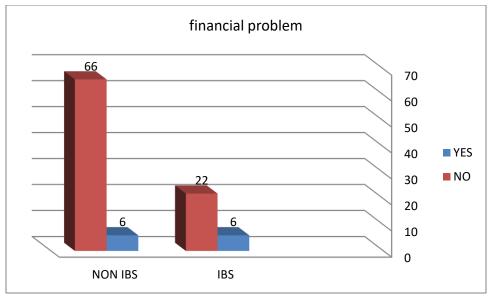


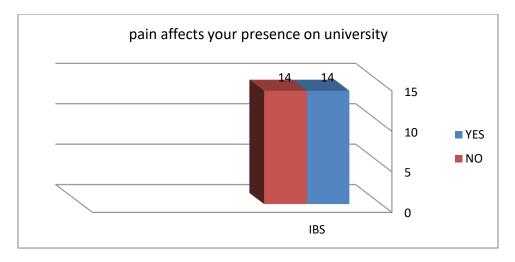


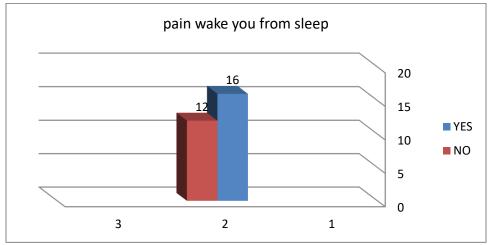


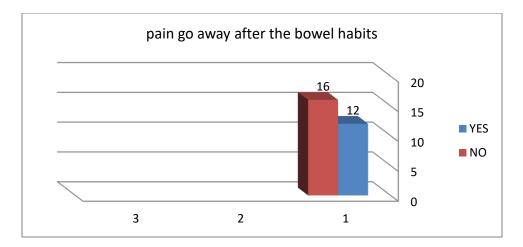












RESULTS:

A total of 100 students participated in the study28% was diagnosised as IBS before and 72 % not diagnosed as IBS .and from whom diagnosed as IBS 57.1% had family history of IBS and non IBS students had family history in 45.8%. 35.% of IBS

students diagnosed as chronic disease while non IBS students only 5.5% diagnosed as chronic disease. 71.5 % of IBS sudents live with their family while other non IBS students 83% are living with family .53.6 %doning exercise in IBS student and 41.6% doing exercise in non IBS students.10% of IBS students sleep 8 huors per day while in non IBS 72.2% students sleep 8 hours per day .10.7% was affected by shock in last 6 months in IBS students and in non IBS student about 2.78 % only was affected by shock in last 6 months.10.7 in IBS was affected bdepreesion in non IBS students the 1.38%.abdominal perentage is pain71.4%, diarrhea42.9%, constpition57.1%, blood in stool 10.7% in IBS student while in non IBS students perentage is 12.5%.abdominal pain71.4%, diarrhea40.3%, constpition63.8%, blood in stool 5.5%. in IBS students 28.5 had sudden loss of weight while in non IBS students 2.7%. in IBS student 60.75somker .and21.4% had financial problems and 50% pain suffering in university. in non IBS student 76.38somker .and8.3% had financial problems.28.5% had allerg to some food in IBS students in other non IBS about 29.1% in IBS 57.1% had pain wake them from sleep .42.8% relif the pain after bowel habit.

DISCUSSION:

The global estimated prevalence of IBS is 10-15% [4]. Our study reports a prevalence of 28% of IBS among the students of University in almaarefa, KSA. KSA which reported a prevalence of 21% of medical students are having IBS [10]. The disparity of our result with those of the cited published studies maybe attributed to the variability of the study group, diagnostic criteria, age group, learning environment, culture and geographical location. The difference in sample size may also be another reason for this difference in disparity. It turns that IBS is increasing these days not only worldwide but also in all students of almaarefa university. Family history was reported as good risk factor for IBS in this study 57.1%. in our study no difference between living with family or in in devolping IBS may be related to the person him self. This study reports no statistically significant association between doing exercise in IBS students and non IBS student.but sleep patteren and quality of sleep play importanyrol in IBS sudent and in non IBS student in IBS only 10% sleep 8 hours per day wile in non IBS students the percentage about 72.2%%. The main complain in our study are abdominal pain followed by contiption, diarrehea, lasly is blood with stool.the pain relifed with bowel habits in 42.8.

CONCLUSION:

We can conclude that irritable bowel syndrome is common in students of almaarefa University, KSA. Stress and lack of exercise, family history smoking are risk factors of IBS. More community awareness and education is required and internal medicine doctors are advised to have an active role in the health education and awareness about IBS problem among all students.

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