

The Irritable Bowel Syndrome Prevalence of Amidst Iraqi Inhabitation In Kirkuk Via Utilizing Of Rome IV Gauge

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Abstract:

- **Background:** The most common functional gastrointestinal disorder is irritable bowel syndrome (IBS). food can act a function in stimulation presentations. Using the Rome IV criteria, we calculated the prevalence of irritable bowel syndrome and it's types amidst Iraqi inhabitation.
- **Method and patient:** A descriptive cross-sectional treatise carried out in the outpatient clinics at two prime Kirkuk infirmary. Between November 2019 and February 2022, a total of 2638 people (1412 men and 1226 women) completed a questionnaire with three sections (sociodemographic, Rome IV, and food constraints). We used appropriateness sampling.
- **Result:** irritable bowel syndrome was documented in 208 people (7.90%), with 52 percent of them having IBSM (mixed) type. Women had a higher prevalence than men (4.90 versus 3.00 %; P value = 0.006). There was a presumed link inter alia having irritable bowel syndrome presentation and having a minimal revenue (P value = 0.0100) and idle (P value= 0.0001).
- **Conclusions:** Irritable bowel syndrome is less prevalent in Iraqi society. The highest correlations with IBS are female genus, minimal family revenue, plus occupational situation. outlook society treatises can provide a chance to discuss educational varies and diet priorities.

Keywords: prevalence, irritable bowel syndrome, Rome IV, Kirkuk, Iraq.

INTRODUCTION

Irritable bowel syndrome (IBS) is a functional elementary disorder characterized via extended-term abdominal soreness accompanied by changes in bowels attitudes and the obscurity of any organic reasons. [1, 2, 3] Despite the fact that nonorganic elementary disorders are common in the advanced nations, irritable bowel syndrome is the major well known reason into seeing a gastroenterologist. [3, 4] irritable bowel syndrome may impact people at all ages, as well as their frugal, socialite, and racial environments. [5, 6, 7] accordingly, a result, it places a significant financial burden on all patients and caregivers. [8-10] The phenomenon of imperceptible changes in disease epidemiology is being observed all over the world. There have been numerous diagnostic criteria proposed for IBS. [11] As a result, these differences in diagnostic criteria have a significant impact on prevalence in different countries. Furthermore, there are no specific diagnostic investigations, realizations, or biomarkers, and diagnosis is typically carried out clinically based on presentations. [13] IBS affects 11.2 percent of people worldwide, and it is more common before the age of 50, together with a strong female preponderance. [13, 14]. the literature review clarified an acceleration in prevalence, extending from the Arab nations to the United States. In Saudi Arabia, in appointment, the prevalence has risen dramatically in the last decennium. [15] The cause of IBS is unknown and multifactorial. Personal factors as: genus, age, and psychological factors, as well as environmental factors such as strain, social and financial factors, drugs, and nutrition, can all play a role. As a result, people try to control their diet and avoid certain foods in order to manage their symptoms. [16] According to studies, persons

have severe elementary presentation are usually counseled to hound a rigorous dietitian and try some treatment options. [18] The majority of IBS patients ratify that their presentations are caused by nutritional sensitivities. As a result, dietary changes are used to treat IBS symptoms gradually or piecemeal. [20] According to one study, 62 percent of IBS patients had bounded or illicitly nominated nourishment clauses from their diurnal dietitian, and 12 percent of these were at hazard of extend-period dietary insufficiencies. [21] Meanwhile, persons have mild elementary presentations have counseled to hound a rigid dietitian for a long time. [22]

PATIENT and METHOD

We impartiality patients to civilize the outpatient clinics of two prime infirmary: Azadi Teaching Hospital and Kirkuk General Hospital/Kirkuk/ Iraq, between November 2019 and February 2022, in this cross-sectional descriptive treatise. Iraqi men and women (aged 18) who visited outpatient clinics were the target population. Along with the demographic questionnaire, an effective questionnaire based on gauge of Rome IV was utilized. The questionnaire had three sections (socio demographic, the gauge, and questions on dietary modifications). It was a voluntary entrant. The Rome IV Diagnostic Questionnaire (R4DQ) for adults is a useful tool that can be used in treatises and clinical action globally. It was chosen due to its widespread utilization and high sensitivity of 62.70 percent with specificity of 97.11 percent in the irritable bowie syndrome diagnosis. The R4DQ is well-understood via 90% of persons with IBS, and diagnoses built on the questionnaire have shown fantastic test-

retest reliabilities. The Questionnaire of diagnosis was likewise translated into other tongues with preserving connotation equality and educational relevance. There are three diagnostic clauses in it. [30] The 1st is repeated abdominal soreness at minimum one time per week for the previous three months. The second is soreness related with evacuation of bowel, as well as changes in stool frequency and appearance. Two of the three questions must be answered with three whets or more. The third requirement is that the onset of symptoms occur at least six months before the diagnosis. Any entrant who met the above gauge was considered a patient with IBS. IBS is divided into subtypes based on the stool form using the Rome IV questionnaire. The subtypes are determined by the extent to which the patient's predominant form of abnormal stool uniformity (as measured by the Bristol Stool Form Scale), that capable to correct excrement based on the sort plus uniformity of the excrement, is comprehensive. According to the abnormal texture of the excrement, summation from one to seven was elected, and the couple could choose the kind that was related to her or him. The following is how the scale distributes them: IBSC (preponderant constipation [types 1–2]), IBSD (preponderant diarrhea [types 6–7]), and IBSM (mainly a quarter of each type). IBSU (unsubtyped: patients who ran with diagnostic gauge for IBS but have inadequate abnormalities of excrement uniformity to be classified in each of the upon subkinds). SPSS version 21.0 was used to analyze the data. The quantitative and categorical variables were described using descriptive statistics (mean and percentages). The Chisquare test was utilized to determine whether the categorical treatise and outcome variables were related. The statistically significance of the estimations was reported using a P value of 0.05.

RESULTS

Characteristics of the treatise population

There were 3000 questionnaires in total. Valid restraints were obtained from 2638 participants, with an 87.90% return rate, and 362 questionnaires were obtained from those who attempted hospitals; 1412 (53.50%) were males and 1226 (46.50%) were females. About 1394 (52.80%) of the participants were between the ages of 18 and 30, with 498 (18.9%) in the 31–40 year age group, 460 (17.40%) in the 41–50 year age group, 216 (8.21%) in the 51–60 year age group, and only 70 (2.72%) in the 60+ year age group. The plurality of the pattern [1828 patients (69.31%)] had a university certification or higher, with 718 (27.11%) having completed secondary school, 82 (3.00%) intermediate school, 8 (0.30%) elementary school, and 2 (0.10%) unlettered. In addition to, 1328 (50.3 percent) of the entrants were celibate, 1394 (52.80 percent) had minimal revenue per month, and 1224 (46.40 percent) were idle [Table 1].

Prevalence and types of IBS

The prevalence of IBS symptoms was found to be 26% among patients who reported them. Only 7.9 percent of the 26 percent who deserved to have been notified with IBS ran across the Rome IV gauge. Males and females had IBS prevalence rates of 78 (3.10 percent) and 130 (4.90 percent), subsequently (P value= 0.006). The prevalence rate of irritable bowel syndrome clearly elevated among youth entrants (59.62%), dangled by 31–40 years (16.31%), 41–50 years (18.30%), 51–60 years (3.81%), and 60 years and above (3.8%). (1.9 percent)

[1st Table] The difference in age groups was not statistically significant (P value = 0.1961). IBSM was the famous irritable bowel syndrome type, dangled by constipation plus diarrhea, with 96 (46.60 percent), 50 (24 percent), and 50 (24 percent), subsequently (P 0.001). There was no significant link between marital status and IBS (P = 0.076). Regarding the respondents' occupational state (P value = 0.002), revenue (P value = 0.010), and irritable bowel syndrome presentation symptoms, there was a significant difference. Although not statistically significant, higher instruction was linked to the existence of irritable bowel syndrome features [Table 1].

Table 1: Prevalence of IBS depending on the sociodemographic of the entrants

denomination	No IBS no.=(%)	IBS no.=(%)	Total no. (%)	P value
age				
18- 30	1270(44.1)	124(4.7)	1394(50.4)	0.375
31-40	464 (17.6)	34(1.3)	498 (18.9)	
41-50	422(16.0)	38(1.4)	460(17.4)	
51-60	208(7.9)	8(0.3)	216(8.2)	
More than 60	66(2.5)	4(0.2)	70(2.7)	
genus				
Male	1334(50.6)	78(3.0)	1412(53.5)	0.001
Female	1096(41.5)	130(4.9)	1226(46.5)	
Marital state				
celibate	1246(47.2)	82(3.1)	1328(50.3)	0.076
wedded	1126(42.7)	118 (4.5)	1244(47.2)	
Divorced	48(1.8)	8(3.0)	56(2.1)	
relict	10 (4.0)	0(0.0)	10(4.0)	
Instructional degree				
unlettered	2(1.0)	0 (0.0)	2 (1.0)	0.487
elementary school	8(3.0)	0(0.0)	8(3.0)	
Intermediate	76(2.9)	6(0.2)	82(3.0)	
2ry school	676(25.6)	42(1.6)	718(27.1)	
University/high instruction	1668 (63.2)	160 (6.1)	1828(64.3)	
Occupational state				
Government strip	846(32.1)	36(1.4)	884(33.4)	0.002
Personal strip	224(8.5)	24(1.1)	252(9.6)	
essence employer	80(3.0)	6(0.2)	86(3.3)	
superannuated	184(7.0)	10(0.4)	194(7.4)	
Idle	1096(41.5)	128(4.9)	1224(46.4)	
Revenue degree				
minimal	1258(51.8)	136(65.4)	1394(52.8)	0.010
median	525(21.7)	22(10.6)	550(20.9)	
maximal	644(26.5)	50(24.0)	694(26.3)	

Table 2: The prevalence of IBS types between IBS and nonIBS people

Type	NO IBS no.	IBS no.	P value
Constipation (IBS-C)	420 (28.70)	50 (24.00)	0.000
Diarrhea (IBS-S) Mixed	276 (18.87)	50 (24.00)	
(IBS-M) Inapplicable	372 (25.41)	96 (46.60)	
(IBS-U)	394 (26.90)	10(4.90)	

DISCUSSION

We evaluated the irritable bowel syndrome occurrence and its prevalence in an adult population in this cross-sectional study. Only 7.9 percent adhered to the Rome IV criteria in the current study, so this result is lower than a study that was conducted among adults in Saudi Arabia, which reported a prevalence of irritable bowel syndrome of approximately 16.30 percent depending on the Rome IV criteria, but with a diverse population. [31] Furthermore, a prevalence of 21.10 and 31.30 percent was found in two different studies that were conducted among Saudi Arabian medical students depending on the Rome III criteria. [8,32], so the fact that our study has a higher prevalence could be attributed to a diverse population. The international prevalence of irritable bowel syndrome was investigated to be 11.20% [33], and the findings of this study are consistent with the literature. A methodical review of fifty-three studies that included patients from thirty-eight countries with application of the Rome III criteria manifested a pooled prevalence of 9.20% [28], which is analogous to our study results. In addition to other studies, the Rome III criteria manifested an extremely low prevalence of 1.11 percent in Iran. [1] One possible explanation for the disparities in findings is that Eastern countries use Western criteria for diagnosis of irritable bowel syndrome, that are not validated for the education and languages of our country in which they were used. Another significant cause of those discrepancies might be the application of diverse series sets of criteria, a smaller population volume, and ethnic or regional variation. [1] There is no population-based study to be performed as a representative source indicator locally.

IBS prevalence varies depending on socioeconomic factors, gender, plus age. The reported gender plus age group alter amidst those with IBS manifestation was harmonious with the findings estimated in the literatures internationally [6, 28] and locally,[8, 32] with preponderant in females gender. IBS is widely common in pubescent and decreases with age. The current treatises returns are consistent with previous research[34], so the majority of IBS patients were youth or young adults in the 18–30 age range. Psychological and social agents like strain, apprehension, stressful difficulties educational degree can act a function in rising prevalence of IBS amidst the younger descent. [35]

IBS has a socioeconomic situation-based assortment allocation. numerous treatises were demonstrated that IBS is correlated to low socioeconomic situation, [36], whereas else have suggested that IBS is associated with highest socioeconomic situations. [37] In our treatise, we discovered that IBS was closely linked to slash leanings . The appreciation and/or identification of work related verdure or veracity prohibition is historic in the foundations of occupational hygiene.

Usually, appreciation denotes the liaison between reason and consequence. IBS has also succeeded in obtaining a task ban. The query develops as to whether slash revenue leads to IBS, or IBS leads to job truanting and low output, resulting in a poor socioeconomic situation. This phenomenon requires more research. IBS was found to be more common in unmarried people than in their married counterparts. Despite the fact that our results did not have statistical significance, they are consistent with those of other treatises [1,38, 39, 40].

IBS has a converse relevance with instruction, according to several treatises [38,40] (education). We noticed the inverse and our returns were clarified the level of instruction to be a paramount participation. With more education, the propagation of inhabitation was increased. This return is nigh to the finding of treaties from Iran and Egypt, that demonstrated that IBS is extremely predominant amidst median instructed persons. [41, 12], the explication might be the comparable educational surrounding that the nations debate. Physical and psychological strain is thought to be a key agent in the development of IBS. The link amidst high degree of instruction and irritable bowel syndrome can be explicated via the verities that, at headmost, those people are seems to be beneath an abundant strain as a result of the enormous academic burden that they face through their leaning's years; one more, the numbering of favorable jobs for extremely instructed personage are limited, necessitating additional pains to puzzle out favorable task, this may cause additional strain and concern or bother, so it is clarified to be linked to irritable bowel syndrome. to irritable bowel syndrome is a clinically diversified syndrome that able to be supplementary assorting into additional diagnoses such as IBSD, IBSC, and IBSM. The prevalence varies depending on the region. IBSM is the most rife subgroup, according to a plethora of previous treatises. Parallel to most of the former treatises, we likewise established IBS-M is maximum rife subgroup utilizing the Rome IV gauge. [28]

CONCLUSION

In the current treatise, IBS is relatively uncommon among Iraqi residents when compared to global prevalence rates. Female gender, highest educational degree, lowest family revenue, and occupational situation has the strongest links to irritable bowel syndrome presentations.

Education has a significant impact on a person's health or verdure persuasion, psychological agents, and gender varies.

REFERENCES

1. Safae A, Moghimi-Dehkordi B, Pourhoseingholi MA, Vahedi M, Habibi M, Pourhoseingholi A, Ghafarnejad F. Bloating in irritable bowel syndrome. *Gastroenterology and Hepatology from Bed to Bench*. 2011;4(2):86.
2. Rehman S, Habib A, Ahmad R, Baluja Z. Assessment of IBS symptoms among patients of lower socio-economic strata attending medicine OPD in a tertiary care hospital in South Delhi. *IJAM J*. 2017 Jul 20;4:1117-22.
3. Spiller RC. Irritable bowel syndrome: gender, infection, lifestyle or what else?. *Digestive Diseases*. 2011;29(2):215-21.
4. Soares RL. Irritable bowel syndrome, food intolerance and non-celiac gluten sensitivity. A new clinical challenge. *Arquivos de gastroenterologia*. 2018 Oct;55:417-22.
5. Choung RS, Saito YA. Epidemiology of irritable bowel syndrome. *GI Epidemiology: Diseases and Clinical Methodology*. 2014 Feb 6:222-34.
6. Lovell RM, Ford AC. Effect of gender on prevalence of irritable bowel syndrome in the community: systematic review and meta-analysis. *Official journal of the American College of Gastroenterology | ACG*. 2012 Jul 1;107(7):991-1000.

7. Lacy BE. The science, evidence, and practice of dietary interventions in irritable bowel syndrome. *Clinical Gastroenterology and Hepatology*. 2015 Nov 1;13(11):1899-906.
8. Alaqeel MK, Alowaimer NA, Alonezan AF, Almegbel NY, Alaujan FY. Prevalence of irritable bowel syndrome and its association with anxiety among medical students at King Saud bin Abdulaziz University for Health Sciences in Riyadh. *Pakistan journal of medical sciences*. 2017 Jan;33(1):33.
9. Jahangiri P, Jazi MS, Keshteli AH, Sadeghpour S, Amini E, Adibi P. Irritable bowel syndrome in Iran: SEPAHAN systematic review No. 1. *International journal of preventive medicine*. 2012 Mar;3(Suppl1):S1.
10. Al-Turki YA, Aljulii MZ, Al Murayshid A, Al Omaish HR, Al Daghiri KS, Al Seleemi AY, Al Jerawi AI. Prevalence of irritable bowel syndrome among students in King Saud University, Riyadh, Saudi Arabia. *Middle East J Fam Med*. 2011 Jun 1;9:17-20.
11. Saha L. Irritable bowel syndrome: pathogenesis, diagnosis, treatment, and evidence-based medicine. *World Journal of Gastroenterology: WJG*. 2014 Jun 14;20(22):6759.
12. Ahmed A, Mohamed RA, Sliem HA, Eldein HN. Pattern of irritable bowel syndrome and its impact on quality of life in primary health care center attendees, Suez governorate, Egypt. *Pan African Medical Journal*. 2011;9(1).
13. Plavšić I, Hauser G, Tkalčić M, Pletikosić S, Salkić N. Diagnosis of irritable bowel syndrome: role of potential biomarkers. *Gastroenterology research and practice*. 2015 Jun 11;2015.

14. Lovell RM, Ford AC. Global prevalence of and risk factors for irritable bowel syndrome: a meta-analysis. *Clinical gastroenterology and hepatology*. 2012 Jul 1;10(7):712-21.
15. Amin HS, Irfan F, Karim SI, Almeshari SM, Aldosari KA, Alzahrani AM, Almogbel AT, Alfouzan SM, Alsaif AA. The prevalence of irritable bowel syndrome among Saudi population in Riyadh by use of Rome IV criteria and self-reported dietary restriction. *Saudi Journal of Gastroenterology: Official Journal of the Saudi Gastroenterology Association*. 2021 Nov;27(6):383.
16. Böhn L, Störsrud S, Törnblom H, Bengtsson U, Simrén M. Self-reported food-related gastrointestinal symptoms in IBS are common and associated with more severe symptoms and reduced quality of life. *Official journal of the American College of Gastroenterology| ACG*. 2013 May 1;108(5):634-41.
17. Lovell RM, Ford AC. Effect of gender on prevalence of irritable bowel syndrome in the community: systematic review and meta-analysis. *Official journal of the American College of Gastroenterology| ACG*. 2012 Jul 1;107(7):991-1000.
18. Buscail C, Sabate JM, Bouchoucha M, Torres MJ, Allès B, Hercberg S, Benamouzig R, Julia C. Association between self-reported vegetarian diet and the irritable bowel syndrome in the French NutriNet cohort. *PLoS One*. 2017 Aug 25;12(8):e0183039.
19. Cuomo R, Androozzi P, Zito FP, Passananti V, De Carlo G, Sarnelli G. Irritable bowel syndrome and food interaction. *World Journal of Gastroenterology: WJG*. 2014 Jul 7;20(27):8837.

20. Lenhart A, Ferch C, Shaw M, Chey WD. Use of dietary management in irritable bowel syndrome: results of a survey of over 1500 United States gastroenterologists. *Journal of neurogastroenterology and motility*. 2018 Jul;24(3):437.
21. Spiro HM, Pilot ML. The irritable bowel. 1958. *Connecticut medicine*. 2009 Jan;73(1):41-5.
22. Fifi AC, Axelrod CH, Chakraborty P, Saps M. Herbs and spices in the treatment of functional gastrointestinal disorders: A review of clinical trials. *Nutrients*. 2018 Nov 9;10(11):1715.
23. Cash BD, Epstein MS, Shah SM. A novel delivery system of peppermint oil is an effective therapy for irritable bowel syndrome symptoms. *Digestive diseases and sciences*. 2016 Feb;61(2):560-71.
24. Ghayur MN, Gilani AH. Pharmacological basis for the medicinal use of ginger in gastrointestinal disorders. *Digestive diseases and sciences*. 2005 Oct;50(10):1889-97
25. Terry R, Posadzki P, Watson LK, Ernst E. The use of ginger (*Zingiber officinale*) for the treatment of pain: a systematic review of clinical trials. *Pain medicine*. 2011 Dec 1;12(12):1808-18.
26. van Tilburg MA, Palsson OS, Ringel Y, Whitehead WE. Is ginger effective for the treatment of irritable bowel syndrome? A double blind randomized controlled pilot trial. *Complementary therapies in medicine*. 2014 Feb 1;22(1):17-20.

27. Zhang C, Huang Y, Li P, Chen X, Liu F, Hou Q. Ginger relieves intestinal hypersensitivity of diarrhea predominant irritable bowel syndrome by inhibiting proinflammatory reaction. *BMC complementary medicine and therapies*. 2020 Dec;20(1):1-0.
28. Oka P, Parr H, Barberio B, Black CJ, Savarino EV, Ford AC. Global prevalence of irritable bowel syndrome according to Rome III or IV criteria: a systematic review and meta-analysis. *The lancet Gastroenterology & hepatology*. 2020 Oct 1;5(10):908-17.
29. Canavan C, West J, Card T. The economic impact of the irritable bowel syndrome. *Alimentary pharmacology & therapeutics*. 2014 Nov;40(9):1023-34.
30. Palsson OS, Spiegel BS, Sperber AD, Tack JF, Walker LS, Whitehead WE, Yang Y, van Tilburg MA. Development and Validation of the Rome IV Diagnostic Questionnaires for Adults, Neonate/Toddlers, and Child/Adolescents.
31. AlAmeel T, Roth LS, Al Sulais E. The prevalence of irritable bowel syndrome among board-certified medical doctors in Saudi Arabia: a cross-sectional study. *Journal of the Canadian Association of Gastroenterology*. 2020 Dec;3(6):e32-6.
32. Ibrahim NK, Battarjee WF, Almeahmadi SA. Prevalence and predictors of irritable bowel syndrome among medical students and interns in King Abdulaziz University, Jeddah. *Libyan Journal of Medicine*. 2013;8(1).
33. Pan CH, Chang CC, Su CT, Tsai PS. Trends in irritable bowel syndrome incidence among Taiwanese adults during 2003–2013: A population-based study of sex and age differences. *PloS one*. 2016 Nov 28;11(11):e0166922.

34. Gwee KA, Ghoshal UC, Chen M. Irritable bowel syndrome in Asia: pathogenesis, natural history, epidemiology, and management. *Journal of gastroenterology and hepatology*. 2018 Jan;33(1):99-110.
35. Chatila R, Merhi M, Hariri E, Sabbah N, Deeb ME. Irritable bowel syndrome: prevalence, risk factors in an adult Lebanese population. *BMC gastroenterology*. 2017 Dec;17(1):1-6.
36. Marmot M, Allen J, Bell R, Bloomer E, Goldblatt P. WHO European review of social determinants of health and the health divide. *The Lancet*. 2012 Sep 15;380(9846):1011-29.
37. Cremonini F, Talley NJ. Irritable bowel syndrome: epidemiology, natural history, health care seeking and emerging risk factors. *Gastroenterology Clinics*. 2005 Jun 1;34(2):189-204.
38. Arasteh P, Maharlouei N, Eghbali SS, Amini M, Lankarani KB, Malekzadeh R. A comprehensive look at irritable bowel syndrome and its associated factors considering the Rome IV criteria: a penalized smoothly clipped absolute deviation regression approach in the pars cohort study. *Middle East Journal of Digestive Diseases*. 2018 Jul;10(3):149.
39. Han SH, Lee OY, Bae SC, Lee SH, Chang YK, Yang SY, Yoon BC, Choi HS, Hahm JS, Lee MH, Lee DH. Prevalence of irritable bowel syndrome in Korea: population-based survey using the Rome II criteria. *Journal of gastroenterology and hepatology*. 2006 Nov;21(11):1687-92.
40. Husain N, Chaudhry IB, Jafri F, Niaz SK, Tomenson B, Creed F. A population-based study of irritable bowel syndrome in a non-western population. *Neurogastroenterology & Motility*. 2008 Sep;20(9):1022-9.

41. Mansouri A, Rarani MA, Fallahi M, Alvandi I. Irritable bowel syndrome is concentrated in people with higher educations in Iran: an inequality analysis. *Epidemiology and health*. 2017;39. the current treatise, IBS is relatively uncommon among Iraqi residents when compared to global prevalence rates. Female genus, highest educational degree, lowest family revenue, and occupational situation has the strongest links to irritable bowel syndrome presentations. Education has a significant impact on a personage health or verdure persuasion, psychological agents, and genus varies.