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DHA TELEHEALTH CLINICAL GUIDELINES

FOR VIRTUAL MANAGEMENT

OF IRRITABLE BOWEL SYNDROME - 34

Version 2

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Health Policies and Standards Department

Health Regulation Sector (2024)



















INTRODUCTION

Health Regulation Sector (HRS) forms an integral part of Dubai Health Authority (DHA) and is mandated by DHA Law No. (14) of the year (2021) amending some clauses of law No. (6) of 2018 pertaining to the Dubai Health Authority (DHA), to undertake several functions including but not limited to:

- Developing regulation, policy, standards, guidelines to improve quality and patient safety
 and promote the growth and development of the health sector;
- Licensure and inspection of health facilities as well as healthcare professionals and ensuring compliance to best practice;
- Managing patient complaints and assuring patient and physician rights are upheld;
- Governing the use of narcotics, controlled and semi-controlled medications;
- Strengthening health tourism and assuring ongoing growth; and
- Assuring management of health informatics, e-health and promoting innovation.

The DHA Telehealth Clinical Guidelines aim to fulfil the following overarching DHA Strategic Priorities (2026):

- Pioneering Human-centered health system to promote trust, safety, quality and care for patients and their families.
- Make Dubai a lighthouse for healthcare governance, integration and regulation.





- Leading global efforts to combat epidemics and infectious diseases and prepare for disasters.
- Pioneering prevention efforts against non-communicable diseases.
- Become a global digital health hub.
- Foster healthcare education, research and innovation.

ACKNOWLEDGMENT

The Health Policy and Standards Department (HPSD) developed this Guideline in collaboration with Subject Matter Experts and would like to acknowledge and thank these health professionals for their dedication toward improving quality and safety of healthcare services in the Emirate of Dubai.

Health Regulation Sector

Dubai Health Authority





TABLE OF CONTENTS

EX	ECUTIVE SUMMARY	5	
DE	FINITIONS/ABBREVIATIONS	6	
1.	BACKGROUND	7	
2.	SCOPE	8	
3.	PURPOSE	8	
4.	APPLICABILITY	8	
5.	CLINICAL SYMPTOMS	9	
6.	DIAGNOSIS	11	
7.	DIFFERENTIAL DIAGNOSIS	12	
8.	RED FLAGS	13	
9.	INVESTIGATIONS	13	
10.	MANAGEMENT	15	
11.	REFERRAL CRITERIA	19	
RE	REFERENCES 2		

APPENDIX 1 - VIRTUAL MANAGEMENT OF IRRITABLE BOWEL SYNDROME ALGORITHM

21





EXECUTIVE SUMMARY

Telehealth is based on Evidence Based Practice (EBP) which is the conscientious, explicit and judicious use of current best evidence in making decisions about the care of the individual patient. It means integrating individual clinical expertise with the best available external clinical evidence and guidelines from systematic research.

EBP is important because it aims to provide the most effective care virtually, with the aim of improving patient outcomes. As health professionals, part of providing a professional service is ensuring that practice is informed by the best available evidence.

This guideline is presented in the format comprising of clinical history/symptoms, differential diagnosis, investigations and management. Identification of 'Red Flags' or serious conditions associated with the disease is an essential part of this telehealth guideline as it aids the physician to manage patients safely and appropriately by referrals to ER, family physicians or specialists for a face to face management.





DEFINITIONS/ABBREVIATIONS

Virtual Clinical Assessment: Is the evaluation of the patient's medical condition virtually via telephone or video call consultations, which may include one or more of the following: patient medical history, physical examination and diagnostic investigations.

Patient: The person who receives the healthcare services or the medical investigation or treatment provided by a DHA licensed healthcare professional.

ABBREVIATIONS

CBT : Cognitive Behavioral Therapy

DHA : Dubai Health Authority

EBP : Evidence Based Practice

EMA : Endomysial Antibodies

ER : Emergency Room

ESR : Erythrocyte Sedimentation Rate

FBC : Full Blood Count

HRS: Health Regulation Sector

IBS : Irritable Bowel Syndrome

SSRI : Selective Serotonin Reuptake Inhibitors

TTG : Tissue Transglutaminase





1. BACKGROUND

1.1. Introduction

- 1.1.1. Irritable bowel syndrome (IBS) is a chronic, relapsing and often life-long disorder. It is characterized by the presence of abdominal pain or discomfort, which may be associated with defecation and/or accompanied by a change in bowel habit.
- 1.1.2. People with IBS present with varying symptom profiles, most commonly 'diarrhea predominant', 'constipation predominant' or alternating symptom profiles. IBS most often affects people between the ages of 20 and 30 years and is twice as common in women as in men. But recent trend shows a significant prevalence of IBS in older people. IBS diagnosis should be a consideration when an older person presents with unexplained abdominal symptoms.

1.2. Pathogenesis

- 1.2.1. The actual cause is unknown; however, these factors have been shown to play a role:
 - a. Muscle contractions in the intestine that are unusually strong
 - b. Abnormalities in the nervous system of the intestines
 - Inflammation of the intestines





- d. Severe infections such as gastroenteritis and bacterial colonization of the intestines
- e. Changes in gut microflora.
- 1.2.2. Apart from these, some triggers like certain foods and drinks etc. are also known to cause a flare up. These triggers include
 - a. Alcohol
 - b. Caffeine
 - c. Spicy/Fatty food
 - d. Stress/Anxiety

2. SCOPE

2.1. Telehealth services in DHA licensed Health Facilities.

3. PURPOSE

3.1. To support the implementation of Telehealth services for patients with complaints of Irritable Bowel Syndrome (IBS) in Dubai Health Authority (DHA) licensed Health Facilities

4. APPLICABILITY

- 4.1. DHA licensed physicians and health facilities providing Telehealth services.
- 4.2. Exclusion for Telehealth services are as follows
 - 4.2.1. Emergency cases where immediate intervention or referral is required
 - 4.2.2. Prescribe Narcotics, Controlled or Semi-Controlled medications`





5. CLINICAL SYMPTOMS

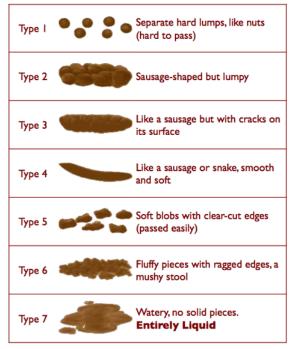
Irritable bowel syndrome (IBS) is characterized by chronic abdominal pain and altered bowel habits.

5.1. Chronic abdominal pain

5.1.1. Abdominal pain in IBS is usually described as a cramping sensation with variable intensity and periodic exacerbations. The location and character of the pain can widely. This vary

distinguishes IBS from

Bristol Stool Chart



cancer-related pain, which typically has a fixed site.

5.1.2. The severity of the pain may range from mild to severe. The pain is frequently related to defecation. While in some patients abdominal pain is relieved with defecation, some patients report worsening of pain with defecation. Emotional stress and meals may exacerbate the pain. Patients with IBS also frequently report abdominal bloating and increased gas production in the form of flatulence or belching.





5.2. Altered Bowel Habits

Symptoms of IBS include diarrhea, constipation, alternating diarrhea and constipation, or normal bowel habits alternating with either diarrhea and/or constipation. When establishing bowel habit, using Bristol Stool Form Scale can help patients with description, particularly when determining quality and quantity of stool.

5.2.1. Diarrhea

Diarrhea is usually characterized as frequent loose stools of small to moderate volume. Bowel movements generally occur during waking hours, most often in the morning or after meals. Most bowel movements are preceded by lower abdominal cramping pain, urgency, and a sensation of incomplete evacuation or tenesmus. Approximately one-half of all patients with IBS complain of mucus discharge with stools. Large volume diarrhea, bloody stools, nocturnal diarrhea, and greasy stools are not associated with IBS.

5.2.2. Constipation

Stools are often hard and may be described as pellet-shaped. Patients may also experience tenesmus even when the rectum is empty.

Associated symptoms include:

a. Bloating





- b. Flatulence
- c. Incomplete evacuation
- d. Rectal hypersensitivity
- e. Urgency
- f. Passage of mucus
- g. Back pain
- h. Urinary bladder symptoms.

General history:

- a. Appetite, weight loss, laxative abuse.
- b. Past medical history
- c. Any known condition like endocrine disorder such as diabetes mellitus or thyroid disorder, psychiatric illness
- d. Past surgical history
- e. Possibility of adhesions and obstruction

6. DIAGNOSIS

- 6.1. IBS should be suspected in patients with chronic abdominal pain and altered bowel habits.
 - 6.1.1. Diagnostic criteria

Rome IV criteria is the most widely used to standardize the diagnosis of

IBS





6.1.2. Rome IV criteria for IBS

IBS is defined as recurrent abdominal pain, on average, at least 1 day per week in the last 3 months, associated with two or more of the following criteria

- a. Related to defecation
- b. Associated with a change in stool frequency
- c. Associated with a change in stool form (appearance)

7. DIFFERENTIAL DIAGNOSIS

Common conditions which may be mistaken for IBS include:

- 7.1. Inflammatory bowel disease as in Crohn's disease (ulcerative colitis)
- 7.2. Symptoms which suggest obstruction of the intestine, called intestinal pseudoobstruction, as in diabetes or scleroderma
- 7.3. Abuse of medications such as laxatives or bowel binders
- 7.4. Lactose intolerance
- 7.5. Psychiatric disorders (such as depression, anxiety or somatization disorder)
- 7.6. Infections of the digestive tract
- 7.7. Malabsorption syndromes (such as celiac disease or pancreatic insufficiency)
- 7.8. Endocrine disorders (such as hypothyroidism, hyperthyroidism, diabetes or Addison's disease)
- 7.9. Certain rare endocrine tumors (such as gastrinomas or carcinoid tumors)





7.10. Carcinomas of the intestine

8. RED FLAGS

- 8.1. Age of onset after age 50 years
- 8.2. Progressive abdominal pain
- 8.3. Bleeding per rectum or bloody diarrhea
- 8.4. Unexplained weight loss
- 8.5. Fever
- 8.6. Shortness of breath, palpitations (Anemia)
- 8.7. Severe constipation
- 8.8. Persistent diarrhea
- 8.9. Family history of G.I. malignancy, Inflammatory bowel disease, colorectal cancer
- 8.10. Laboratory abnormalities (iron deficiency anemia, elevated C-reactive protein or fecal calprotectin/lactoferrin)

9. INVESTIGATIONS

- 9.1. There is no definitive diagnostic laboratory test for IBS. The purpose of laboratory testing is primarily to exclude an alternative diagnosis.
- 9.2. In people who meet the IBS diagnostic criteria, the following tests should be undertaken to exclude other diagnoses:
 - 9.2.1. Full blood count (FBC)
 - 9.2.2. Erythrocyte sedimentation rate (ESR) or plasma viscosity



9.3.

9.4.



9.2.3.	C-reactive protein (CRP)					
9.2.4.	Antibody testing for coeliac disease (endomysial antibodies [EMA] or					
	tissue transglutaminase [TTG])					
9.2.5.	Age-appropriate colorectal cancer screening in all patients					
In patients with diarrhea:						
9.3.1.	Fecal calprotectin or fecal lactoferrin					
9.3.2.	Stool testing for giardia (antigen detection or nucleic acid amplification					
	assay)					
9.3.3.	Serologic testing for celiac disease					
9.3.4.	C-reactive protein levels, only if fecal calprotectin and fecal lactoferrin					
	cannot be performed					
The following tests are not necessary to confirm diagnosis in people who meet the						
IBS diagnostic criteria:						
9.4.1.	Ultrasound					
9.4.2.	2. Rigid/flexible sigmoidoscopy					

Hydrogen breath test (for lactose intolerance and bacterial overgrowth).

9.4.3.

9.4.4.

9.4.5.

9.4.6.

9.4.7.

Colonoscopy; barium enema

Fecal ova and parasite test

Thyroid function test

Fecal occult blood





10. MANAGEMENT

10.1. Refer to APPENDIX 1 for the Virtual Management of Irritable Bowel Syndrome

Algorithm

10.2. Dietary and lifestyle advice:

People with IBS should be given information that explains the importance of self-help in effectively managing their IBS. This should include information on general lifestyle, physical activity, diet and symptom-targeted medication.

10.2.1. Diet and nutrition:

Should be assessed for people with IBS and the following general advice given.

- a. Have regular meals and take time to eat.
- b. Avoid missing meals or leaving long gaps between eating.
- c. Drink at least 8 cups of fluid per day, especially water or other non-caffeinated drinks, for example herbal teas.
- d. Restrict tea and coffee to 3 cups per day.
- e. Reduce intake of alcohol and fizzy drinks.
- f. It may be helpful to limit intake of high-fiber food (such as whole meal or high-fiber flour and breads, cereals high in bran, and whole grains such as brown rice).





- g. Given the absence of serious side effects and potential benefit, psyllium should be considered in patients with IBS whose predominant symptom is constipation. As some patients may experience increased bloating and gas, a starting dose of psyllium of one-half to one tablespoon daily is suggested. The dose should then be slowly titrated up based on response to treatment.
- h. Reduce intake of 'resistant starch' (starch that resists digestion in the small intestine and reaches the colon intact), which is often found in processed or re-cooked foods.
- Limit fresh fruit to 3 portions per day (a portion should be approximately 80 g).
- j. People with diarrhea should avoid sorbitol, an artificial sweetener found in sugar-free sweets (including chewing gum) and drinks, and in some diabetic and slimming products.
- k. People with wind and bloating may find it helpful to eat oats (such as oat-based breakfast cereal or porridge) and linseeds (up to 1 tablespoon per day).
- People with IBS who choose to try probiotics should be advised to take the product for at least 4 weeks while monitoring the effect.





m. Healthcare professionals should discourage the use of Aloe Vera in the treatment of IBS.

10.2.2. Lifestyle modification:

- a. Physical activity: Healthcare professionals should assess the physical activity levels of people with IBS. People with low activity levels should be given brief advice and counselling to encourage them to increase their activity levels.
- b. Stress management: Encourage the patient to identify and make the most of their available leisure time and to create relaxation time.
- c. Adequate sleep: Encourage them to have adequate sleep.

10.2.3. Pharmacological treatment

Decisions about pharmacological management should be based on the nature and severity of symptoms.

The recommendations made below assume that the choice of single or combination medication is determined by the predominant symptom(s).

a. Antidiarrheal drugs: To relieve diarrhea. These include
 Loperamide

For acute diarrhea - 4mg initially followed by 2mg after each loose stool for up to 5 days; usual dose 6–8mg daily; maximum - 16mg daily

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For chronic diarrhoea in adults, initially, 4–8 mg daily in divided doses, subsequently adjusted according to response and given in 2 divided doses for maintenance; maximum – 16 mg

- b. Laxatives To relieve complaints of constipation
 Bisacodyl 5 to 15 mg as enteric coated tabs 1 time per day or 10
 mg suppository per rectum 1 time per day
- c. Antispasmodics: To relieve spasms. E.g. Hyoscine butylbromide
 Dosage 20mg 4 times daily
 Irritable bowel syndrome 10mg 3 times daily, increased if required
 up to 20mg 4 times daily
- d. Tricyclic antidepressants and Selective serotonin reuptake inhibitors (SSRIs): To relieve depression and severe pain. If needed, then the patient should be referred to Family Physician/Specialist for face to face consultation

10.2.4. Psychological interventions:

Referral for psychological interventions (cognitive behavioral therapy [CBT], hypnotherapy and/or psychological therapy) should be considered for people with IBS who do not respond to pharmacological treatments after 12 months and who develop a continuing symptom profile (described as refractory IBS).

Clinical Guidelines for the Virtual Management of Irritable Bowel Syndrome





11. REFERRAL CRITERIA

11.1.	Routine	referral	to	Family	/ Ph	/sician

- 11.1.1. Patient is not responding to medications
- 11.1.2. Severe constipation
- 11.1.3. Persistent diarrhea
- 11.1.4. Recurrent fever
- 11.1.5. Abdominal mass
- 11.1.6. Age of onset after age 50 years
- 11.1.7. Persistent or frequent abdominal distension especially in a woman
- 11.1.8. Unexplained weight loss
- 11.1.9. Family history of G.I. malignancy, Inflammatory bowel disease, colorectal cancer
- 11.1.10. Laboratory abnormalities (iron deficiency anemia, elevated C-reactive protein or fecal calprotectin/lactoferrin)

11.2. Referral to Emergency Department:

- 11.2.1. Severe rectal bleeding
- 11.2.2. Shortness of breath, palpitations
- 11.2.3. Persistent vomiting or diarrhea





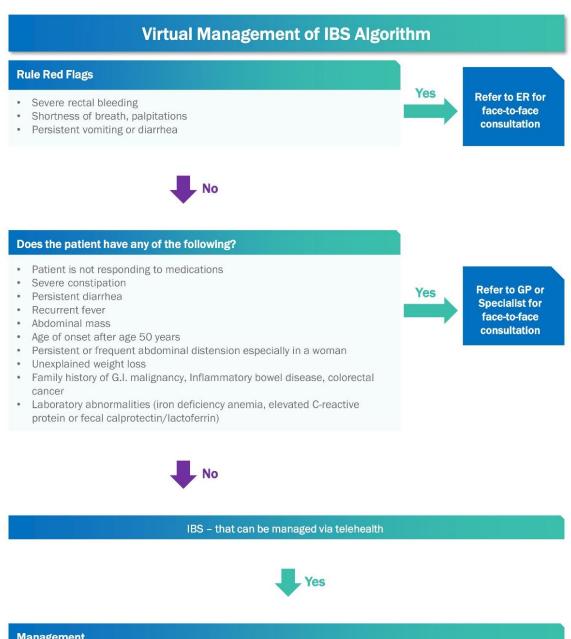
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APPENDIX 1 – VIRTUAL MANAGEMENT OF IRRITABLE BOWEL SYNDROME ALGORITHM



Management

- · Patient education for dietary and lifestyle modification
- Follow up call after 10 days
- Pharmacological management:
 - · Antidiarrheal drugs if complaint mainly diarrhea
 - · Laxatives if complaint mainly constipation
 - · Antispasmodics for pain
- · Consider referral to psychiatry department if antidepressants or psychotherapy is needed

Clinical Guidelines for the Virtual Management of Irritable Bowel Syndrome

Code: DHA/HRS/HPSD/CG-45 Issue Nu: 2 Issue Date: 21/02/2024 Effective Date: 21/04/2024 Revision Date: 21/02/2029 Page 21 of 21