The burden and management of patients with IBS: results from a survey in Spanish gastroenterologists

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ABSTRACT

Background: irritable bowel syndrome (IBS) is a common and complex disorder. Though it is estimated that IBS constitutes an important part of the gastroenterology (GI) practice, the burden of this problem in the GI outpatients’ clinics in Spain is unclear.

Aim: the aim of this study is to obtain a “shot” of the burden and management of this syndrome in the daily GI practice.

Methods: 508 general gastroenterologists from all over the country were approached and asked to complete a survey that included questions about their daily practice and the definition, diagnosis and treatment of IBS.

Results: 55% of the surveyed physicians estimate that IBS constitute between a quarter and a half of all their consultations; and pointed out that most of these patients were referred from primary care. Overall, the Spanish gastroenterologists show an adequate knowledge of the different diagnostic criteria, though they do not always follow the current guidelines. Up to 55% of the physicians always perform a complementary test to support their diagnosis and 40% order a diagnostic test only in older patients (> 50 years) or in presence of alarm symptoms. Interestingly, 80% of the gastroenterologists start empirical treatment based on the patients’ symptoms.

Conclusions: though Spanish gastroenterologists seem to have an adequate theoretical knowledge of the disease, they do not systematically follow current guidelines and tend to manage IBS symptoms based on their own criteria.

Key words: Irritable bowel syndrome. IBS guidelines. Diagnostic criteria. Clinical management.

INTRODUCTION

Irritable bowel syndrome (IBS) is a common disorder (1). In Spain, it affects up to 10% of the population (2), and 40% of them ask for medical attention (3). Though it is estimated that IBS constitutes an important part of the gastroenterology (GI) practice, the burden of this problem in the GI outpatients’ clinics in Spain is unclear (4,5).

IBS can be difficult to manage; such complexity is mostly due to the lack of a specific diagnostic marker but also due to the lack of a specific treatment. International (6-9) and national (10) clinical guidelines have been implemented with the aim of helping the clinician in the management of IBS. These guidelines have been developed by consensus of experts based on the current symptom-based diagnostic criteria and the review of the literature. The first symptom-based criteria were elaborated by Manning in 1978 (11), and these were later substituted by the Rome symptom-based criteria: Rome I in 1994 (12), Rome II in 1999 (13) and most recently Rome III in 2006 (14).

The use of symptom-based diagnostic criteria allows us to perform a positive diagnosis of IBS instead of an exclusion one. However, it has been reported that up to 72% of physicians from different specialties in the USA (GI, internal medicine and primary care) still consider IBS as a diagnostic of exclusion, which lead to over prescription of diagnostic tests and increases unnecessarily the costs (15). Whether this approach is also followed in Spain, which has a completely different healthcare system than the USA, remains uncertain though a priori seem to be unlikely.

The results of a Delphi survey performed in 2003 among GIs and primary care physicians in Spain showed that Spanish physicians do not agree to identify only one as the best diagnostic strategy in patients with suspected IBS, while they agree to treat IBS patients according to their leading symptoms (16). This survey, though limited by its small sample size, suggests that the practical management of IBS is different in our country than in the USA.
The aim of our study is to obtain a “snapshot” of the burden and daily management of IBS in the GI daily practice in Spain.

METHODS

Design

Cross-sectional survey addressed to GI specialists from all over Spain.

Sample

It is estimated that there are about 2,500 to 3,000 GI specialists working in Spain, though unfortunately it does not exist any formal registry of the specialty that can be easily accessed to confirm this information. Therefore we decided to approach the gastroenterologists in their work place (public and private hospitals and outpatients clinics from all over the country) and asked them to fill our survey, until we reached a size sample of 500. GI fellows and gastroenterologists that spend more than 75% of their time focused in a specific GI area were excluded.

Questionnaire

We used a modified version of the 26 item questionnaire that we previously designed for the 2003 Delphi survey (16). In this new version we asked the physicians how often do they perform a specific task (responses ranging from always to never) instead of asking them which was their level of agreement with the performance of such task (responses ranged from totally agree to totally disagree). In addition, we transformed the Delphi’s open responses into affirmative or negative statements.

RESULTS

Participants

508 GI specialists from all over Spain completed the survey (142 from Andalucía, 71 from the Madrid area, 69 from Cataluña, 58 from the Valencian region, 32 from Galicia, 25 from Castilla-La Mancha, 23 from Castilla León, 23 from the Canary Islands and 21 from the Balearic Islands).

Up to 60% of the specialists referred to attend more than 50 patients per week while only 9% of them referred to attend less than 30. When they were specifically asked about which proportion presented with IBS, 55% pointed that this rate was between 25-50%; 29% of them estimated that IBS represented around 50-75% of their consults, 13% of them estimated than less than 25% and only 4% referred that IBS constituted more than 75% of their patients’ volume (Fig. 1).

Patients’ referral source and reasons

According to 66% of the physicians surveyed, 70% or more of the IBS patients were referred from primary care; while only 6% estimated that less than 25% of their IBS patients were referred from primary care. When asked about the reasons for referral, the doctors surveyed considered that 50% were referred for diagnosis, 6% for treatment prescription and 44% for both diagnosis and treatment.

IBS clinical classification

Pain was the predominant symptom in most patients with IBS according to 52% of the physicians; while 4% of the gastroenterologist referred that they never attend any patient with abdominal pain. 29% of the gastroenterologists pointed the alternating or mixed bowel habit as the most frequent,
while 23% considered the diarrhea and 7% the constipation. 84% of all the physicians surveyed agreed that only a minority (< 25%) of the IBS patients could not be classified according their predominant symptoms.

**Diagnosis**

When asked about the overall diagnosis approach, 5% of the responders referred that they followed a symptom-based strategy, 55% always prescribed a diagnostic test in order to rule out structural diseases and finally 40% prescribed a diagnostic test only in the presence of alarm symptoms or in subjects older than 50 years.

Table I shows the physicians’ evaluation of the different diagnostic tests according the patients’ predominant symptoms.

**Treatment**

80% of the physicians initiate empirical treatment, while 18% always wait until they receive the result of the diagnostic tests; 2% do not follow any particular rule. Table II summarizes the response of the gastroenterologists with respect to the different therapeutic options by symptoms groups.

**Follow up**

88% of the gastroenterologists consider that primary care should be responsible for most patients’ follow up, while 11% considered that this should be responsibility of GI. Interestingly 30% of the respondents chose not to respond this question.

**DISCUSSION**

This study shows the opinion of Spanish gastroenterologists regarding the daily management of patients with IBS. IBS is one of the most prevalent conditions in the GI practice. Indeed, 55% of the physicians surveyed estimated that IBS constitutes up to 25-50% of their consultations and an additional one third of physicians estimate this rate as higher than 50%; which is in agreement with data from other Euro-

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### Table I. Physicians’ evaluation of the different diagnostic tests, classified according the patients’ predominant symptoms

<table>
<thead>
<tr>
<th>Diagnostic test</th>
<th>Diarrhea</th>
<th>Constipation</th>
<th>Pain</th>
<th>Mixed</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBC and basic serum chemistry</td>
<td>89%</td>
<td>84%</td>
<td>86%</td>
<td>87%</td>
</tr>
<tr>
<td>TSH</td>
<td>85%</td>
<td>68%</td>
<td>37%</td>
<td>68%</td>
</tr>
<tr>
<td>Stool culture</td>
<td>75%</td>
<td>11%</td>
<td>15%</td>
<td>42%</td>
</tr>
<tr>
<td>Anti-gludine and antitransglutaminase antibodies</td>
<td>81%</td>
<td>18%</td>
<td>34%</td>
<td>53%</td>
</tr>
<tr>
<td>Colonoscopy</td>
<td>66%</td>
<td>63%</td>
<td>59%</td>
<td>70%</td>
</tr>
<tr>
<td>Barium enema</td>
<td>19%</td>
<td>38%</td>
<td>27%</td>
<td>24%</td>
</tr>
<tr>
<td>Small bowel radiology</td>
<td>25%</td>
<td>4%</td>
<td>17%</td>
<td>16%</td>
</tr>
<tr>
<td>Abdominal ultrasound</td>
<td>19%</td>
<td>17%</td>
<td>60%</td>
<td>23%</td>
</tr>
<tr>
<td>Upper endoscopy</td>
<td>6%</td>
<td>3%</td>
<td>12%</td>
<td>4%</td>
</tr>
<tr>
<td>Anorectal manometry</td>
<td>1%</td>
<td>7%</td>
<td>2%</td>
<td>1%</td>
</tr>
<tr>
<td>Do not respond</td>
<td>1%</td>
<td>1%</td>
<td>1%</td>
<td>0</td>
</tr>
</tbody>
</table>

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### Table II. Treatment of choice (1ª) and best alternative (2ª) according the patients’ predominant symptom

<table>
<thead>
<tr>
<th>Treatment</th>
<th>Diarrhea</th>
<th>Constipation</th>
<th>Pain</th>
<th>Mixed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diet</td>
<td>1ª 18%</td>
<td>2ª 1%</td>
<td>1ª  16%</td>
<td>2ª  6%</td>
</tr>
<tr>
<td>Antidiarrheal</td>
<td>22%</td>
<td>36%</td>
<td>1ª  1%</td>
<td>2ª  1%</td>
</tr>
<tr>
<td>Antispasmodics</td>
<td>48%</td>
<td>36%</td>
<td>1ª  14%</td>
<td>2ª  25%</td>
</tr>
<tr>
<td>Dietary Fiber</td>
<td>33%</td>
<td>18%</td>
<td>1ª  73%</td>
<td>2ª  22%</td>
</tr>
<tr>
<td>Laxatives</td>
<td>1%</td>
<td>1%</td>
<td>1ª  10%</td>
<td>2ª  56%</td>
</tr>
<tr>
<td>Anxiolytics</td>
<td>5%</td>
<td>23%</td>
<td>1ª  1%</td>
<td>2ª  10%</td>
</tr>
<tr>
<td>Antidepressants</td>
<td>1%</td>
<td>9%</td>
<td>1ª  1%</td>
<td>2ª  5%</td>
</tr>
<tr>
<td>Do not respond</td>
<td>1%</td>
<td>1%</td>
<td>1ª  1%</td>
<td>2ª  1%</td>
</tr>
</tbody>
</table>
pean countries (4,5). Quantitatively, this rate means an important number of patients to be seen by the gastroenterologist; mainly if we consider that the GI average patient volume was ranged between 50-100 patients per week.

More than half of the physicians confirmed abdominal pain as the cardinal symptom in IBS. In addition, most gastroenterologists agree that is rare that a patient with IBS cannot be classified according the predominant symptoms. In general, our physicians consider the symptom-based diagnostic criteria as a simple and useful diagnostic tool, mostly in young patients. Most Spanish GI physicians know and use the Rome II and III criteria, while only a minority know and use the Manning criteria. Therefore, it seems as the Spanish gastroenterologist accept the current diagnostic criteria (7,10,14), and tend to apply them in their daily practice; which contrast with what has been reported in other countries (17,18).

A significant proportion of the doctors surveyed applied a diagnostic approach in agreement with the published guidelines; in general they do not over prescribe diagnostic test, but order a complete blood count, basic serum chemistry and, except when the abdominal pain is the main symptom, a TSH determination. In addition, in patients with diarrhea, our physicians order stool cultures, ova and parasites exam. Though currently there is not enough scientific evidence that support this approach, the truth is that clinically is not an unreasonable strategy and previous diagnostic criteria, such as those of Kruis (19,20) used to include some lab parameters for the diagnosis of IBS.

Most gastroenterologists agree to screen for celiac disease (CD) in patients with diarrhea and occasionally in other IBS subtypes. This strategy is in agreement with previous studies that report a higher prevalence of CD in patients with IBS like symptoms, mainly in those presenting with abdominal pain and diarrhea. The risk of CD in IBS seems to be up to 3-4 folds higher than in the normal population (21). In fact the American College of Gastroenterology recommends routine serological screening for CD in patients with diarrhea or mixed symptoms (19); being preferable the use of tissue-transglutaminase antibodies that are the most sensitive and specific (22).

More than a half of the gastroenterologists recommend the performance of colonoscopy in patients with IBS, mainly in patients with mixed symptoms where the proportion reach the 70%. Despite that there is lack of evidence to support the routine performance of colonoscopy in patients younger than 50 years old, except when red flags or alarm symptoms are present (23); this same approach is also common in other countries, like USA (15).

The therapeutic management of this disorder is also complex, given that to date; there is no any drug available that can successfully control all symptoms of IBS. Current guidelines recommend a symptom based therapeutic approach, which seems to agree with the opinion of the Spanish gastroenterologists. Our physicians recommend the use of antispasmodic and anti-diarrheal drugs in case of diarrhea, dietary fiber and laxatives in case of constipation, antispasmodics when pain is the main symptom and antispasmodics and dietary fiber for those with mixed symptoms. Interestingly, when asked about the use of psychotropic drugs, our physicians rather prescribe benzodiazepines than antidepressants, even when the scientific evidence supports the opposite (24,25).

We do not find important differences between the results of this study and the data obtained in our prior survey addressed to primary care doctors and GI. Our prior study was designed using the Delphi methodology which at the end of the day implied the lost of a number of participants. In this study, we used a cross-sectional design which allowed us to get a larger sample size. In our opinion, the similitude found in the outcomes of both studies reinforces the validity of our results (16).

Our study has an obvious limitation which is that these data represent only the view of the respondents and therefore should be interpreted cautiously. However, this survey is also the best source of information on this topic that is currently available in Spain, representing the opinion of up to 20% of all Spanish gastroenterologists.

In summary, despite their limitations this study shows the high prevalence of IBS in the GI clinics and suggests that the Spanish gastroenterologist have an adequate theoretical knowledge of IBS but experience certain difficulties in the daily management of this disease. The main pitfalls found in the practice of Spanish gastroenterologists are the prescription of unnecessary diagnostic test and treatments not always evidence-based; but otherwise their approach is in consonance with the strategy used by other gastroenterologists in the international community.

REFERENCES