

Bogotá octubre 12, 13, Menta Oleosa en SII

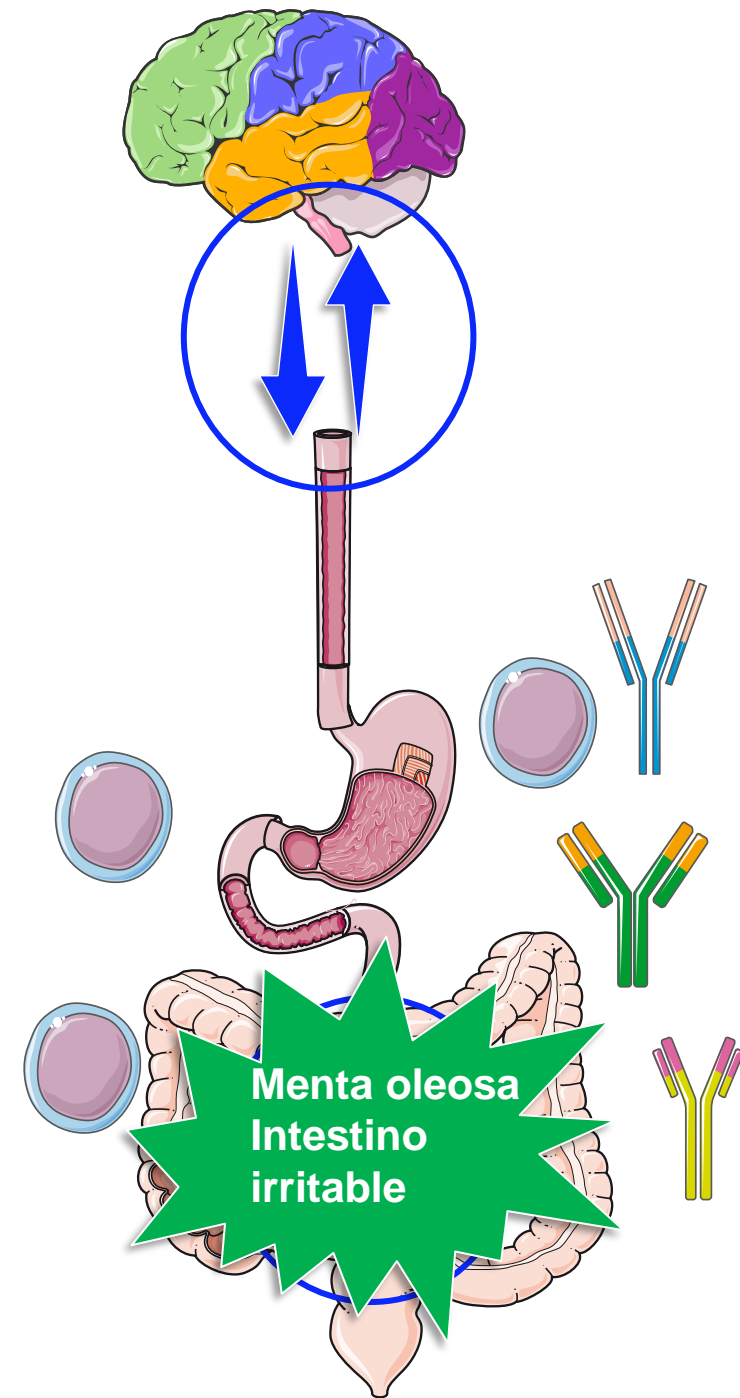
Menta Oleosa y su impacto en el Síndrome de Intestino Irritable



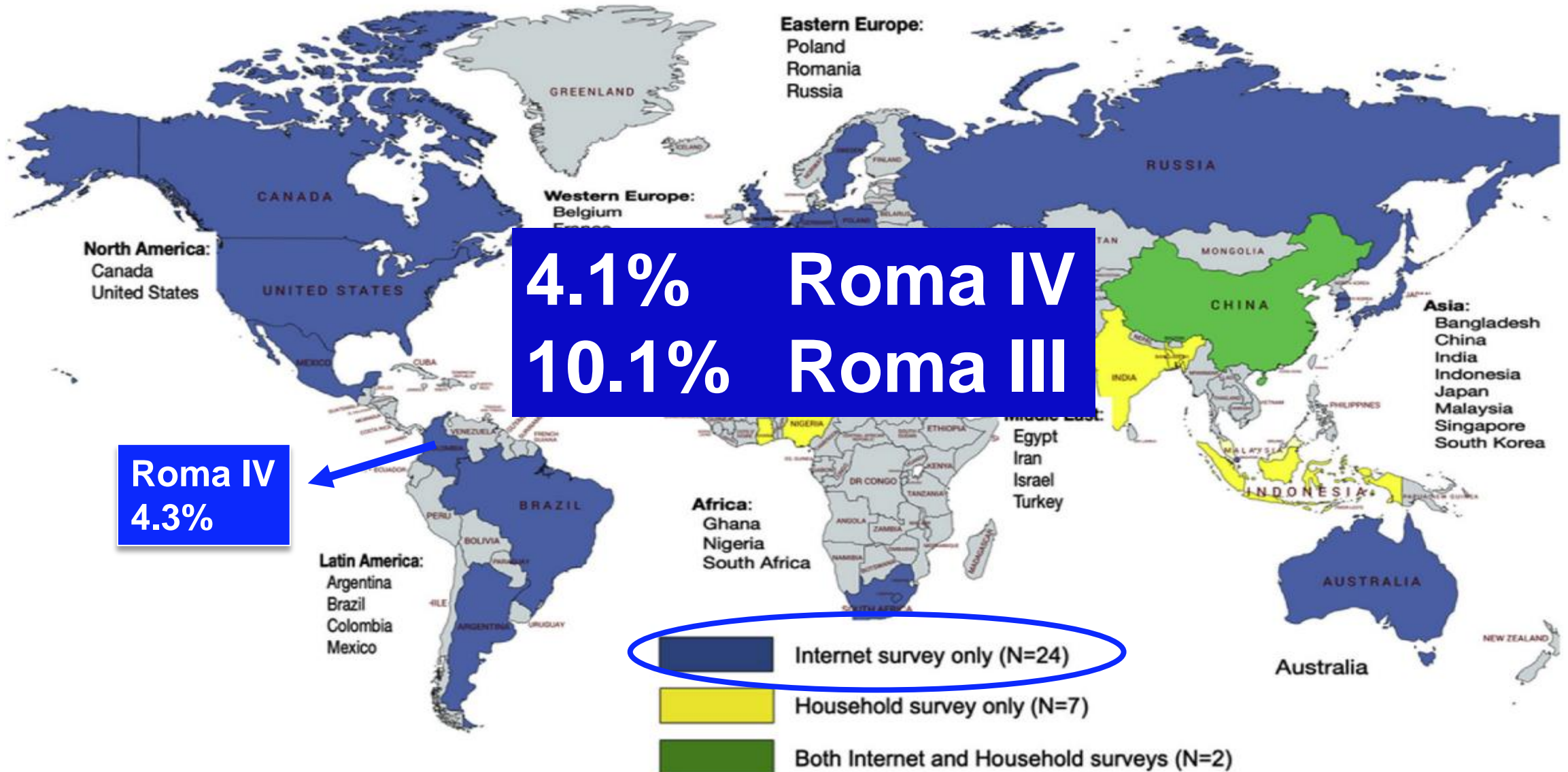
William Otero MD FAGA, FACP
Profesor Titular de Medicina
Unidad de Gastroenterología
Universidad Nacional de Colombia
Hospital Universitario Nacional de Colombia



Youtube “William otero gastroenterólogo”



Worldwide Prevalence and Burden of Functional Gastrointestinal Disorders, Results of Rome Foundation Global Study



Principal Diagnóstico Gastroenterología 28%





Developing Valid and Reliable Health Utilities in Irritable Bowel Syndrome: Results From the IBS PROOF Cohort

Brennan Spiegel, MD, MSHS¹⁻⁵, Lucinda Harris, MD⁶, Susan Lucak, MD⁶, Emeran Mayer, MD^{2,3}, Bruce Naliboff, PhD¹⁻³, Roger Bolus, PhD^{2,3,5}, Eric Esrailian, MD, MPH^{2,5}, William D. Chey, MD⁷, Anthony Lembo, MD⁸, Hetal Karsan, MD^{9,10}, Kirsten Tillisch, MD^{2,3}, Gareth Dulai, MD, MSHS¹¹, Jennifer Talley, MSPH^{1,5} and Lin Chang, MD^{2,3,5}

**Pacientes cambiarían
10 -15 años de su vida**



**Por un tratamiento
eficaz !!**

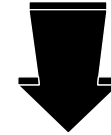
**Síndrome de
Intestino Irritable**



**Colon
Irritable**

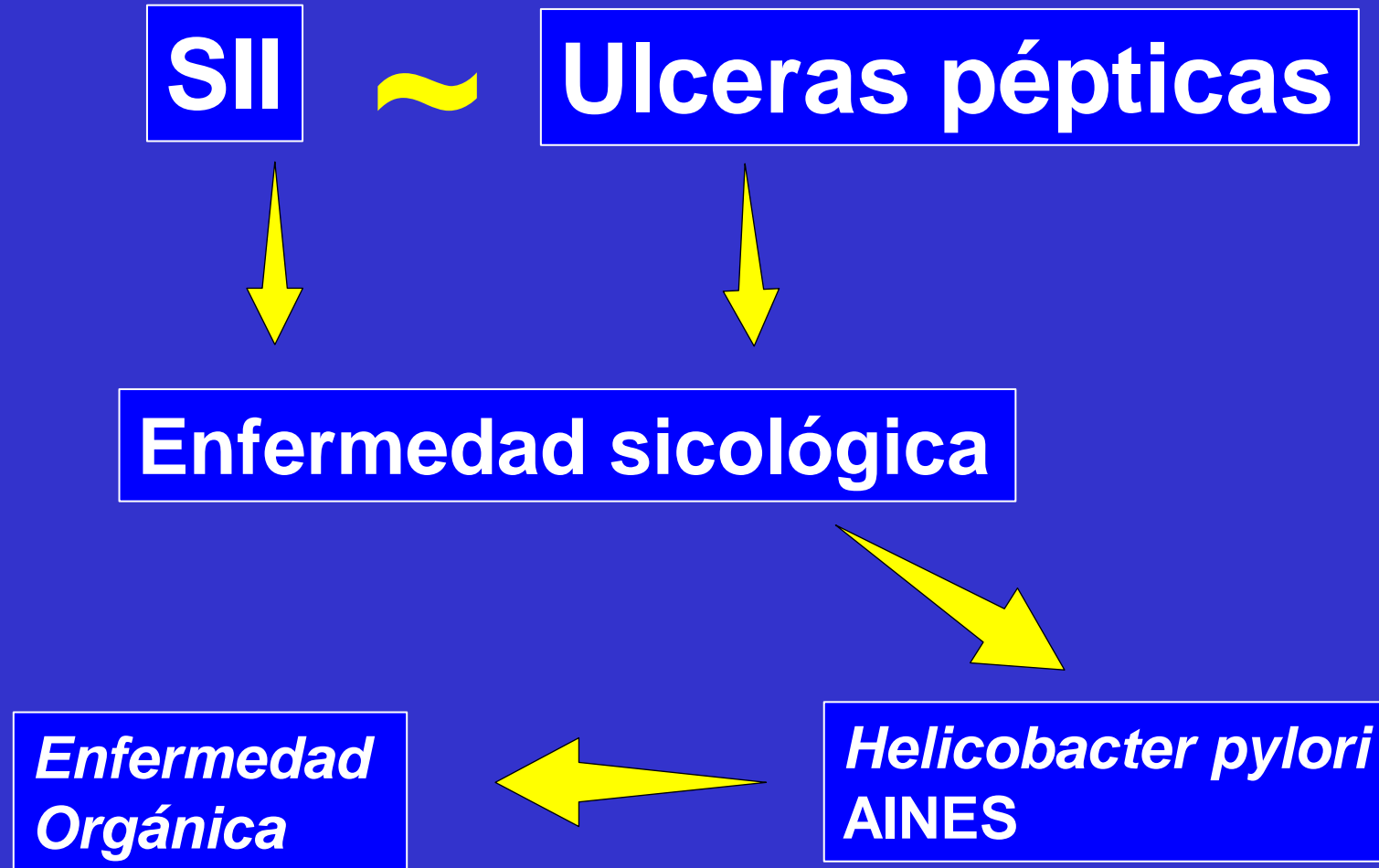


**No
Existe!!**

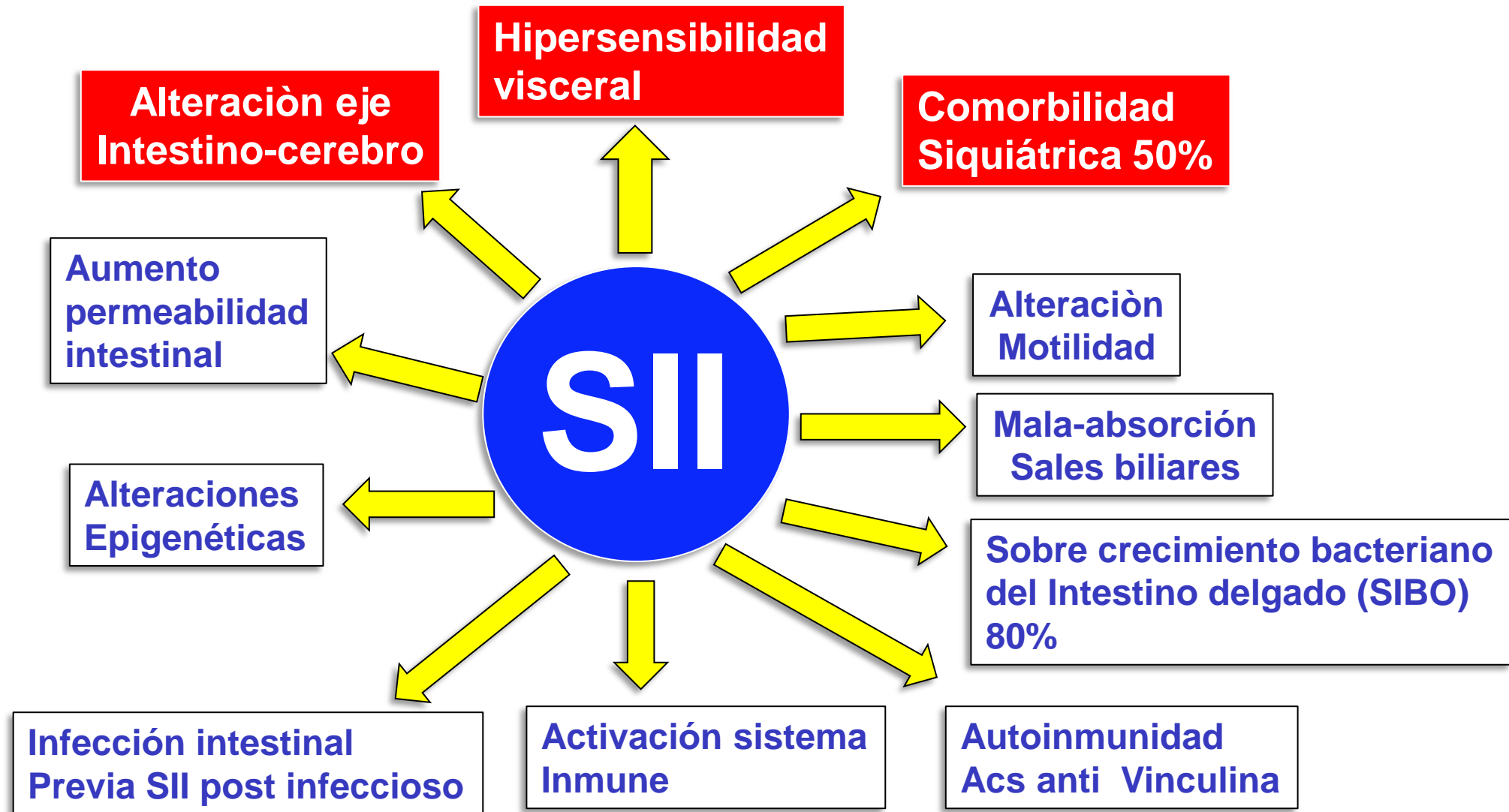


**“Dentre”
“Aiga”**





SII -Fisiopatología



Ferreira AI, GE Port J Gastroenterol 2020;27:255-68
Takakura W, Patog Dis 2022;80:1-11
Otero W, PLM Perú 2021

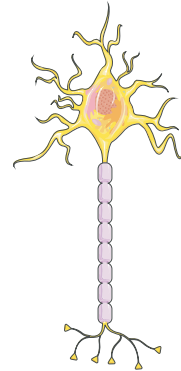
Autoimmunity Links Vinculin to the Pathophysiology of Chronic Functional Bowel Changes Following *Campylobacter jejuni* Infection in a Rat Model

Mark Pimentel · Walter Morales · Venkata Pokkunuri · Constantinos Brikos ·
Sun Moon Kim · Seong Eun Kim · Konstantinos Triantafyllou · Stacy Weitsman ·
Zachary Marsh · Emily Marsh · Kathleen S. Chua · Shanthi Srinivasan ·
Gillian M. Barlow · Christopher Chang

Anticuerpos Anti CdTB (Toxina citoletal distensionante)



Reacción cruzada
Vinculina en
Células Cajal
Ganglios mientéricos



Vinculina
Proteína Fundamental
Integridad estructural
Adhesion/migración
Neuronal

Alteración Motilidad
gastrointestinal

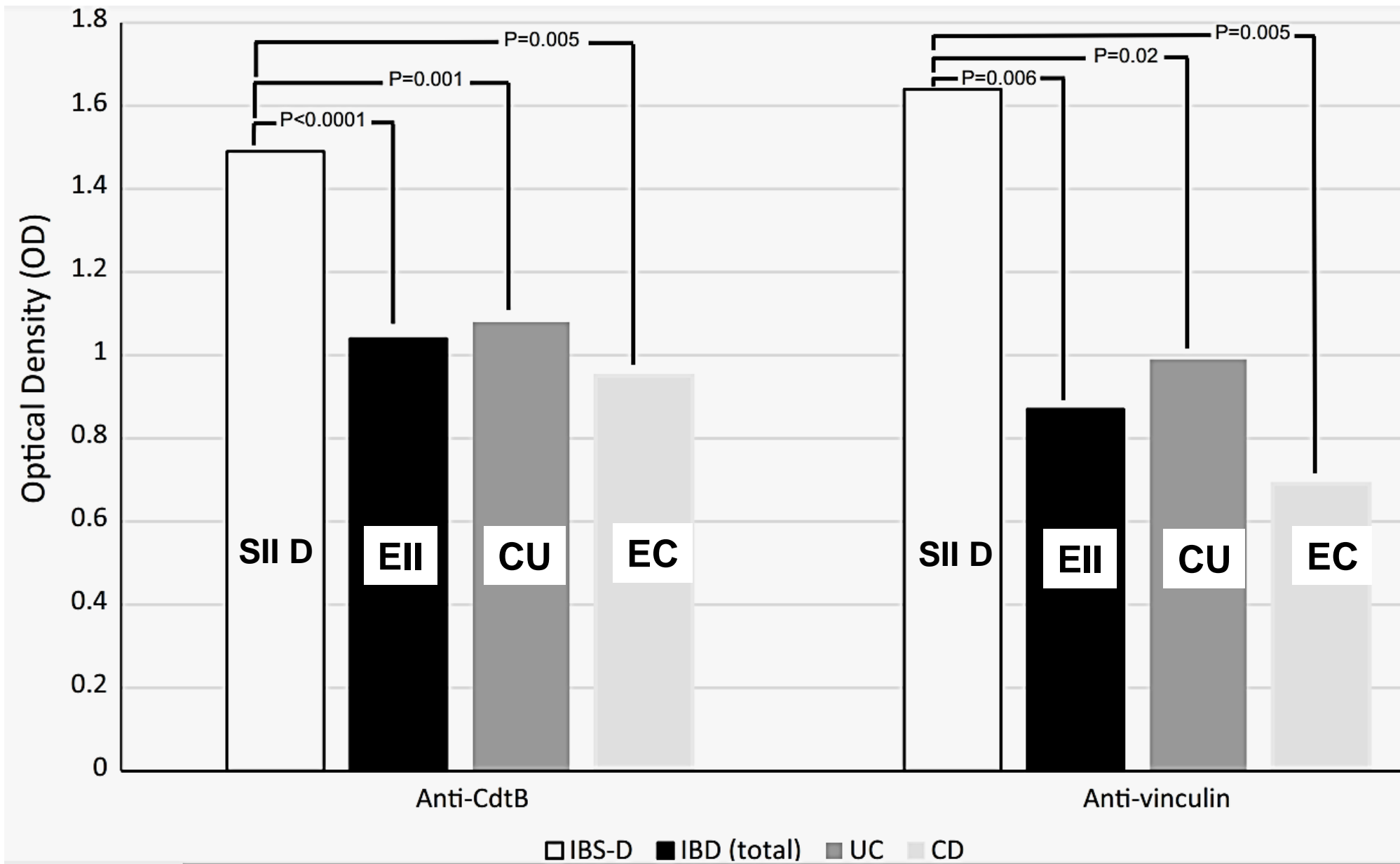


Dig Dis Sci. 2015;60:1195-205.

Second-Generation Biomarker Testing for Irritable Bowel Syndrome Using Plasma Anti-CdtB and Anti-Vinculin Levels

Walter Morales¹ · Ali Rezaie¹ · Gillian Barlow¹ · Mark Pimentel¹ 

Morales W, Dig Dis Sci. 2019;64:3115-21



Second-Generation Biomarker Testing for Irritable Bowel Syndrome Using Plasma Anti-CdtB and Anti-Vinculin Levels

Walter Morales¹ · Ali Rezaie¹ · Gillian Barlow¹ · Mark Pimentel¹ 

Test	Sensitivity	Specificity	PPV	NPV	LR+
Anti-CdtB (OD > 1.56)	43.0	93.5	95.6	33.7	6.7
Anti-vinculin (OD > 1.60)	52.0	90.9	96.3	29.4	5.7
Both antibodies positive	22	100	100	22	∞

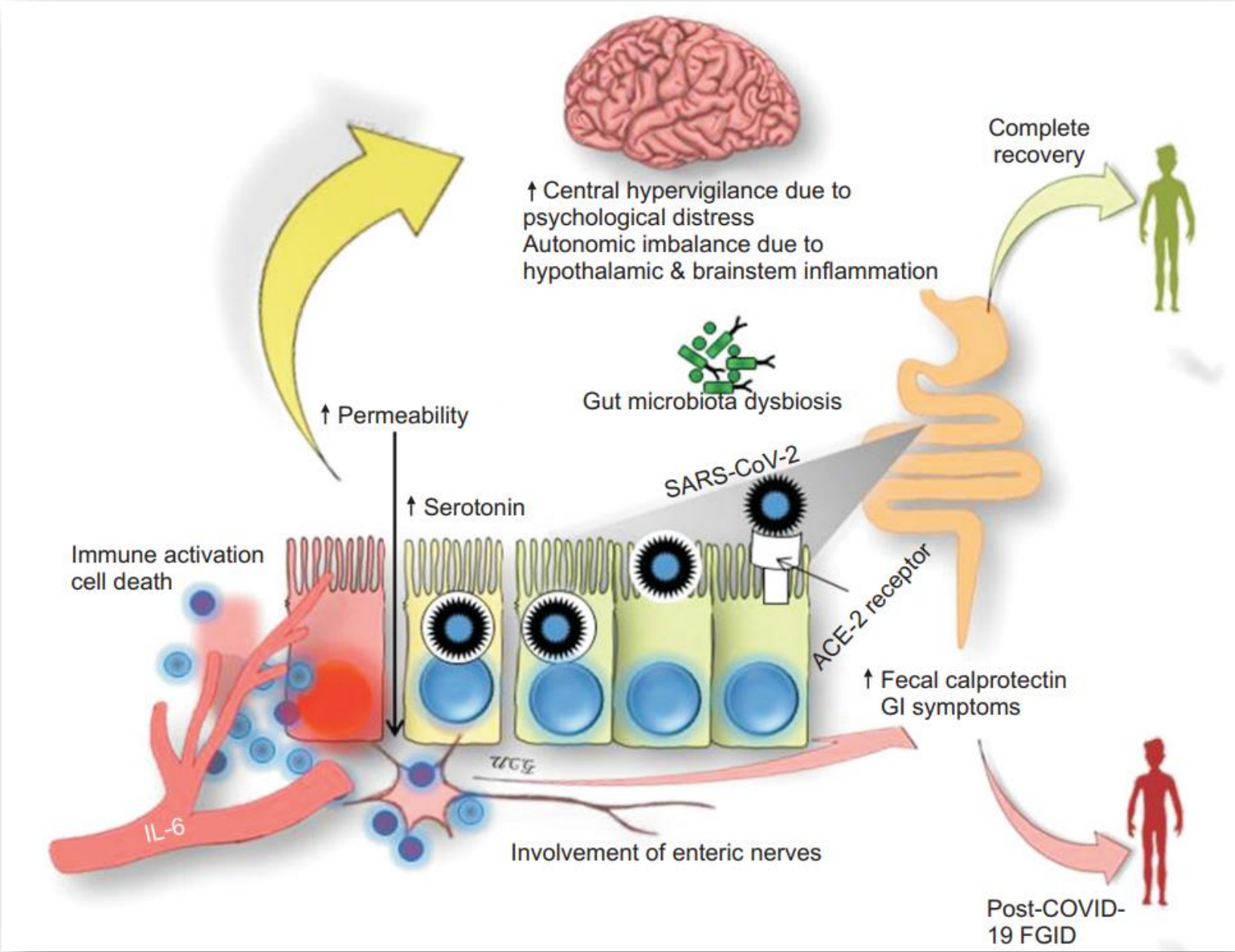
Second-Generation Biomarker Testing for Irritable Bowel Syndrome Using Plasma Anti-CdtB and Anti-Vinculin Levels

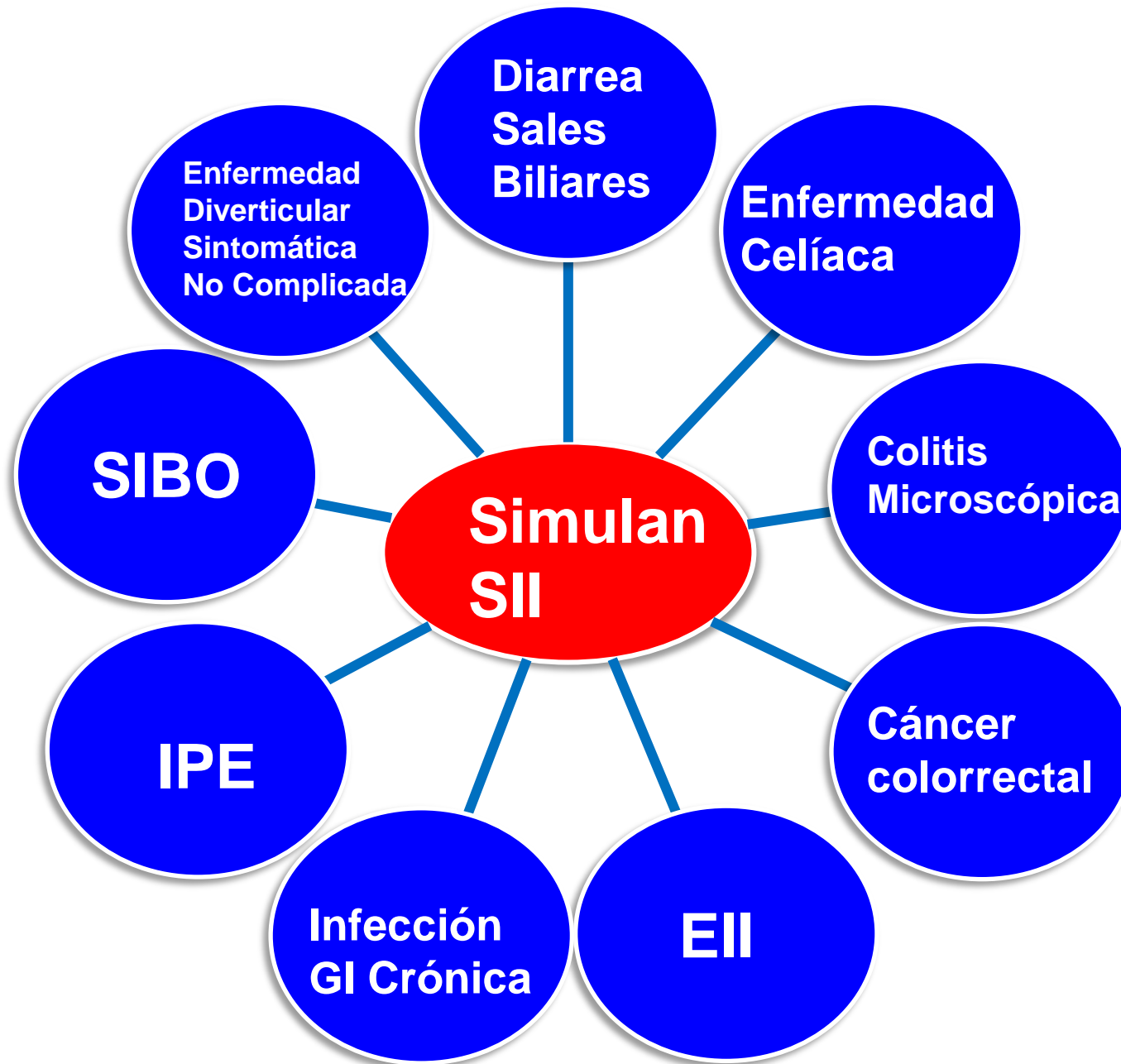
Walter Morales¹ · Ali Rezaie¹ · Gillian Barlow¹ · Mark Pimentel¹ 

Table 3 Posttest probability of IBS based on testing positive for one or both antibodies

Anti-CdtB	Anti-vinculin	Posttest probability of IBS (%)
No hay controles sanos		
+	-	89.9
-	+	88.3
+	+	98.1

SII
Pos COVID-19





SII: Diagnóstico

**Enfermedad orgánica
“Mientras se validan y llegan”
Marcadores Biológicos**



**Se hace con los “Criterios clínicos”
No es un diagnóstico de exclusión!**

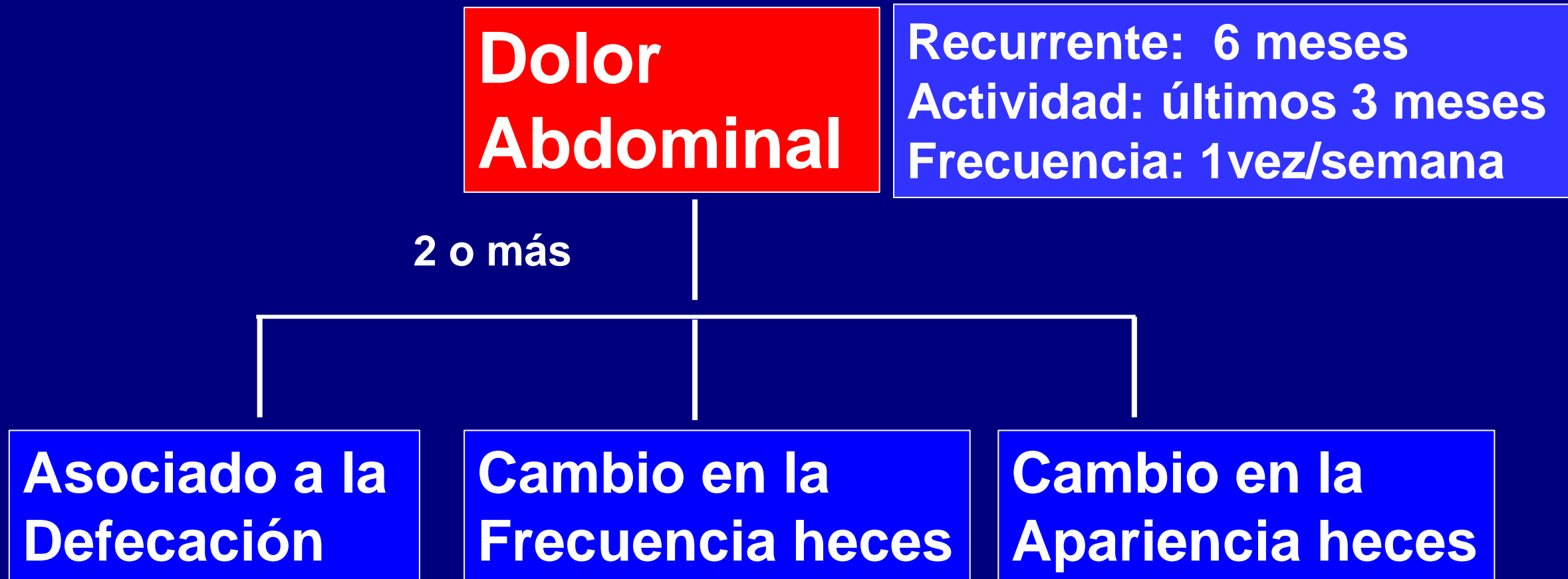
Roma IV

SII, Criterios diagnósticos, Roma IV 2016

**En ausencia de síntomas, o
signos de alarma o Patologías
que expliquen los síntomas**

Lacy BE, Gastroenterology 2016;150:1393-407

SII, Criterios diagnósticos, Roma IV 2016



Síndrome de Intestino Irritable

SII con Diarrea
30%
Heces acuosas
>25% B/6-7
Duras <25% B1,2



SII con Estreñimiento
Heces duras
>25% B/1,2
Heces acuosas
<25%



SII Mixto
Heces duras
>25%
Heces acuosas
>25%

SII
Inclasificable
Cumple
criterios SII
heces
inclasificables

ORIGINAL RESEARCH

Comparison of the Rome IV criteria with the Rome III criteria for the diagnosis of irritable bowel syndrome in secondary care

Christopher J Black ,^{1,2} Orla Craig,¹ David J Gracie ,¹ Alexander C Ford  ^{1,2}



Roma IV versus Roma II

	Specificity (95% CI)	Positive likelihood ratio (95% CI)	Positive predictive value (95% CI)
Rome IV criteria for IBS	82.9% (74.8% to 89.2%)	4.82 (3.30 to 7.28)	94.9% (92.3% to 96.9%)
Rome IV criteria for IBS with constipation	97.0% (84.2% to 99.9%)	25.7 (5.07 to 145)	98.9% (93.9% to 99.9%)
Rome IV criteria for IBS with diarrhoea	60.5% (44.4% to 75.0%)	2.07 (1.48 to 3.12)	88.4% (82.0% to 93.1%)
Rome IV criteria for IBS with mixed bowel habits	92.0% (74.0% to 99.0%)	10.6 (3.39 to 38.2)	98.6% (95.2% to 99.8%)
Rome III criteria for IBS	65.0% (54.6% to 74.4%)	2.45 (1.90 to 3.27)	90.4% (86.9% to 93.3%)

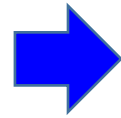
ORIGINAL RESEARCH

Compari... the III
criteria f... me
in second

Roma IV
“Gold standard”

Christopher J B... , David J Gracie , Alexander C Ford  ^{1,2}

**Valor
Predictivo
Positivo**



SII estreñimiento
SII mixto
SII diarrea

99%

98%

88%

SII -Diarrea

Enfermedad
Celíaca

Diarrea Que
No mejora
Serología
EVDA
Otro DX

Colitis
Microscópica

SII

Mala-absorción
Sales biliares

E. celíaca
Dolor,
distensión
Bloating
Diarrea

Enfermedad
Inflamatoria
Intestinal

Roma IV

RESEARCH

Evaluation of the clinical and cost-effectiveness of the York Faecal Calprotectin Care Pathway

James Turvill,¹ Daniel Turnock,² Hayden Holmes,³ Alison Jones,² Eleanor Mclaughlan,⁴ Victoria Hilton,⁵ Stacey Marriott⁶

< 100 mcg/gr

No alarma, Q.sanguínea

SII 98% Certeza

≥ 250 mcg/gr

Colonoscopia

Falsos (+): AINES, Obesidad, tumores

ACG Clinical Guideline: Management of Irritable Bowel Syndrome

Brian E. Lacy, PhD, MD, FACG¹, Mark Pimentel, MD, FACG², Darren M. Brenner, MD, FACG³, William D. Chey, MD, FACG⁴, Laurie A. Keefer, PhD⁵, Millie D. Long, MDMPH, FACG (GRADE Methodologist)⁶ and Baha Moshiree, MD, MSc, FACG⁷

Recommendation

We suggest that either fecal calprotectin¹ or fecal lactoferrin² and C-reactive protein¹ be checked in patients without alarm features and with suspected IBS and diarrhea symptoms to rule out inflammatory bowel disease.

¹Strong recommendation; moderate quality of evidence (CRP, fecal calprotectin).

²Strong recommendation; very low quality of evidence (fecal lactoferrin).

Colonoscopia: indicaciones

Edad > 45 años

Diarrea persistente: colitis microscópica

Rectorragia, anemia, masa, Pérdida de peso

Ascitis, hepato esplenomegalia, fiebre

Masa Rectal, HF Ca de colon, EII

Adultos mayores

Roma IV

Lacy BE, Am J Gastroenterol 2021;116:17-44

Adultos mayores

Cáncer de colon

Isquemia colónica

E. Inflammatoria Intestinal

Colitis microscópica

Diverticulitis

Clostridioides difficile

Enf diverticular sintomática no complicada

Diagnóstico positivo no de exclusión

***Laboratorios
Colonoscopia
Caso por caso***

***Examen
Físico***

***Historia
Clínica***

Roma IV

A Positive Diagnostic Strategy Is Noninferior to a Strategy of Exclusion for Patients With Irritable Bowel Syndrome

LUISE M. BEGTRUP,^{*,‡} ANNE LINE ENGSBRO,[§] JENS KJELDSSEN,^{*} PIA V. LARSEN,[‡]
OVE SCHAFFALITZKY DE MUCKADELL,^{*} PETER BYTZER,[§] and DORTE E. JARBØL[‡]

Aleatorizado, Cabeza a cabeza, Seguimiento un año




Costo anual US\$

40% más costoso

Positivo
3.160
C. Hemático
PCR

Exclusión
5.075
Múltiples
Exámenes

A positive diagnostic strategy is safe and saves endoscopies in patients with irritable bowel syndrome: A five-year follow-up of a randomized controlled trial

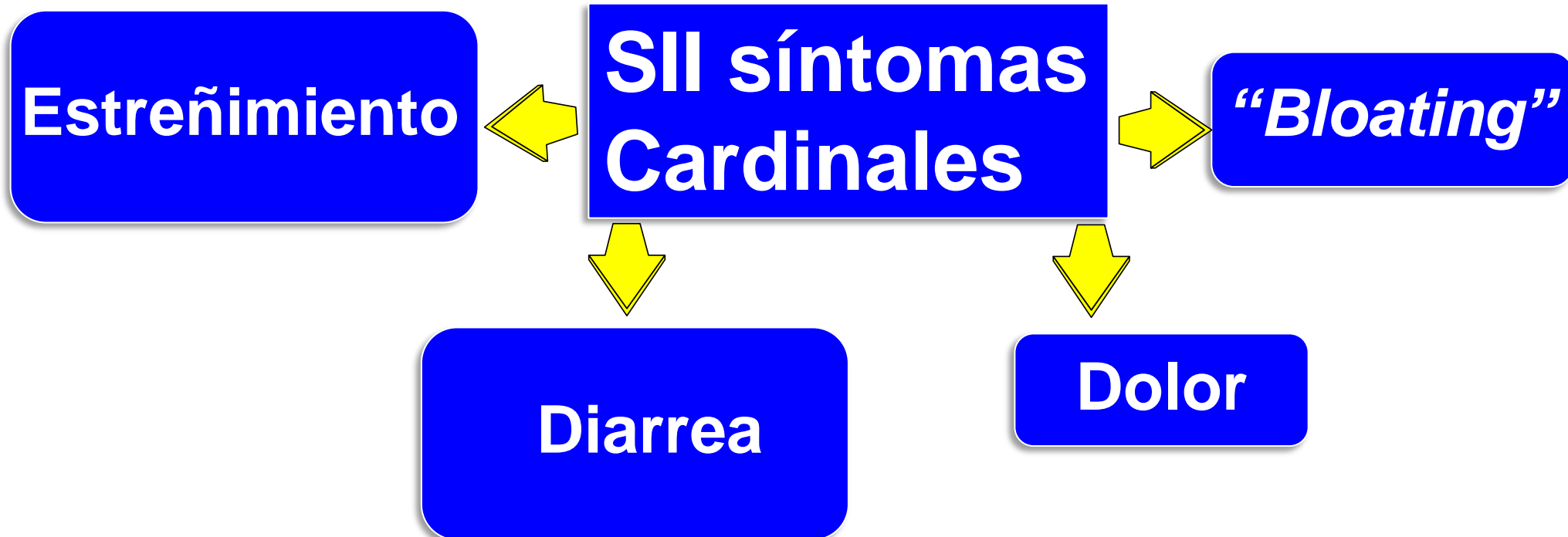
Anne Line Engsbro^{1,2}  | Luise M. Begtrup^{3,4} | Peter Haastrup⁴ | Maria Munch Storsveen⁴ | Peter Bytzer¹ | Jens Kjeldsen⁵ | Ove Schaffalitzky De Muckadell⁵ | Dorte Ejg Jarbøl⁴

13 vs 23

Engsbro AL, Neurogastroenterol Motil. 2021;33:e14004

Tratamiento está dirigido a los síntomas

Múltiples alteraciones orgánicas
Autoinmunidad, eje intestino cerebro



**Mejor tratamiento
No farmacológico**

Piedra angular

**Excelente relación
Médico-Paciente**

SII

Tratamiento farmacológico

Respuesta placebo 37%

Ford AC, Aliment Pharmacol Ther 2010;32:144-58

Dieta

CLINICAL PRACTICE UPDATE

AGA Clinical Practice Update on the Role of Diet in Irritable Bowel Syndrome: Expert Review



William D. Chey,¹ Jana G. Hashash,^{2,3} Laura Manning,⁴ and Lin Chang⁵

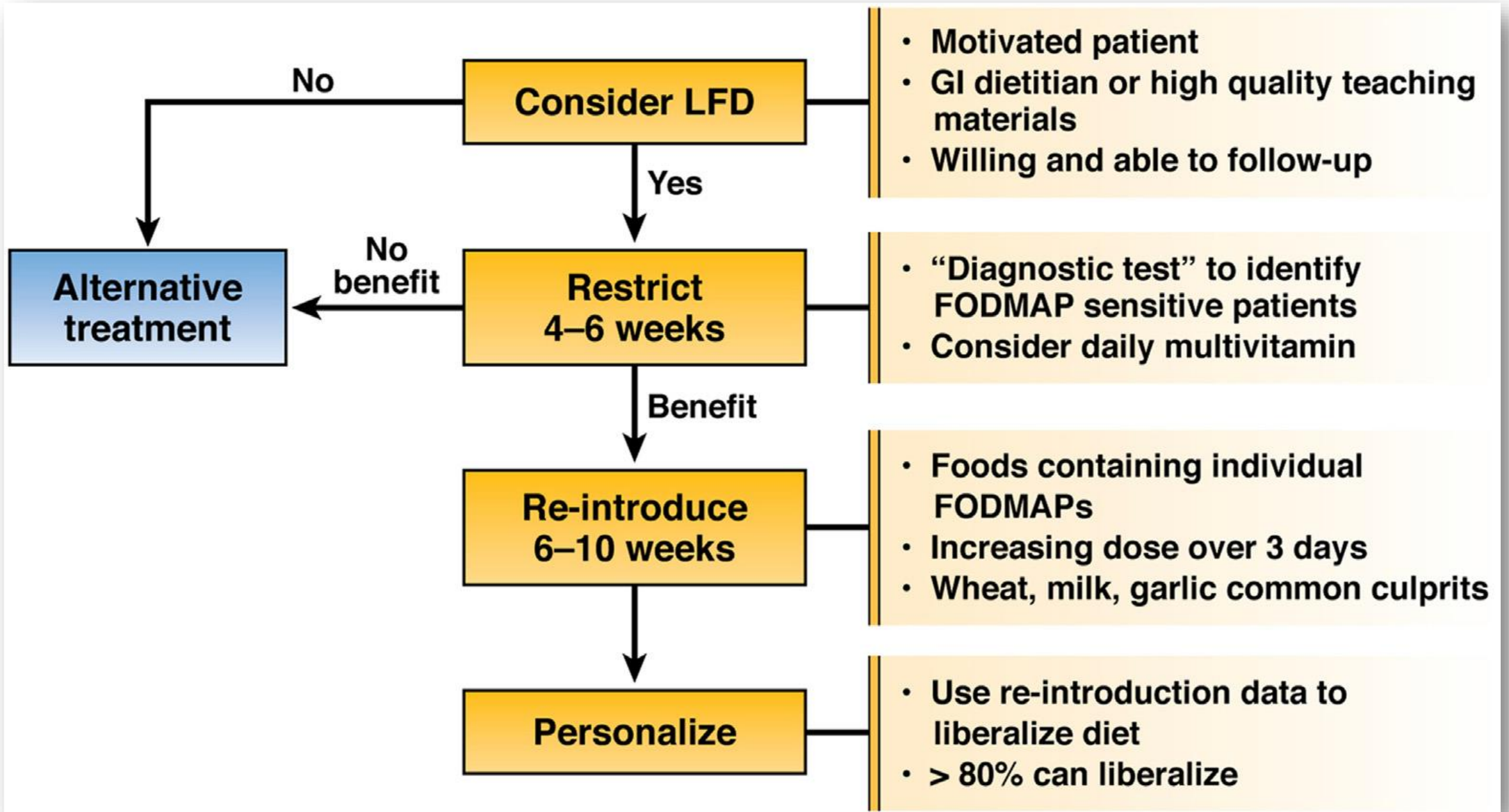
Gluten

Best Practice Advice 8: Although observational studies found that most patients with IBS improve with a gluten-free diet, randomized controlled trials have yielded mixed results.

Dieta baja en FODMAP

Best Practice Advice 6: The LFD is currently the most evidence-based diet intervention for IBS. Healthy eating advice as described by the National Institute of Health and Care Excellence Guidelines, among others, also offers benefit to a subset of patients with IBS.

Best Practice Advice 7: The LFD consists of 3 phases: 1) restriction (lasting no more than 4–6 weeks), 2) reintroduction of FODMAP foods, and 3) personalization based on results from reintroduction.



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Recommendation

We recommend a limited trial of a low FODMAP diet in patients with IBS to improve global symptoms.

Conditional recommendation; very low quality of evidence.

Systematic review: quality of trials on the symptomatic effects of the low FODMAP diet for irritable bowel syndrome

L. R. Krogsgaard^{1,2} | M. Lyngesen¹ | P. Bytzer^{1,2}

	Random sequence generation ^a (Selection bias)	Allocation concealment ^a (Selection bias)	Blinding of participants and personnel ^b (Performance bias)	Blinding of outcome assessment ^b (Detection bias)	Incomplete outcome data ^c (Attrition bias)	Selective reporting ^c (Reporting bias)	Choice of control group ^d (Bias in design)	Objective evaluation of data ^d (Interpretive bias)
Esweran ¹⁴	Unclear risk	Unclear risk	High risk	Low risk	High risk	Low risk	High risk	High risk
Peters ¹⁰	Low risk	Low risk	High risk	Low risk	Low risk	Low risk	High risk	Low risk
McIntosh ¹⁵	Low risk	Low risk	High risk	Low risk	Low risk	Low risk	High risk	Low risk
Böhn ¹⁶	Low risk	Low risk	High risk	Low risk	Low risk	Low risk	High risk	High risk
Chumpitazi ¹⁷	Low risk	Low risk	High risk	Low risk	Low risk	Low risk	High risk	High risk
Pedersen ¹⁸	Low risk	Low risk	High risk	High risk	High risk	High risk	High risk	Low risk
Halmos ⁹	Low risk	Unclear risk	High risk	High risk	Low risk	Low risk	High risk	High risk
Staudacher ¹⁹	Low risk	Low risk	High risk	High risk	Low risk	High risk	High risk	High risk
Ong ²⁰	Low risk	Unclear risk	High risk	High risk	High risk	High risk	High risk	High risk

**Seis semanas
Fase de reintroducción ?
Todo parece un efecto placebo**

Dieta

Dieta <<< FODMAP Inconvenientes

Difícil de seguir

Qué componentes de la dieta?

Restrictiva

Modifica microbiota

Modifica el metaboloma

Acidos grasos de cadena corta

Cambios no saludables en la microbiota

Prevotella, Clostridium

<<<<Bifidobacterium

Holvoet T, Gut 2017;66: 980-982

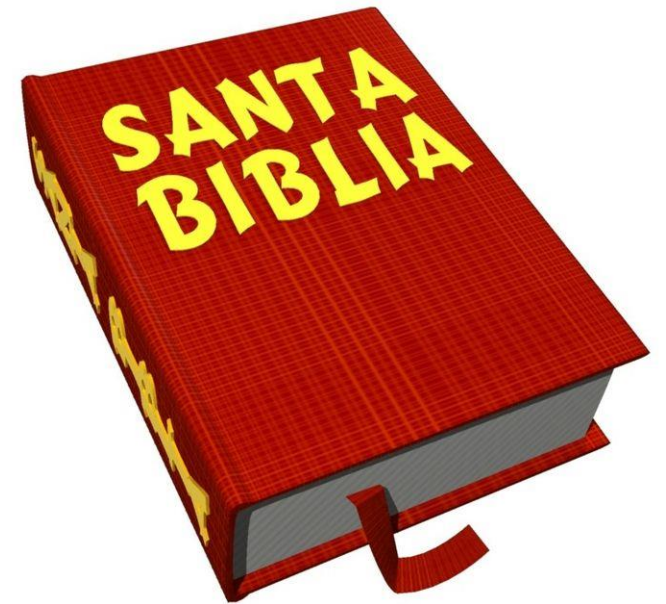
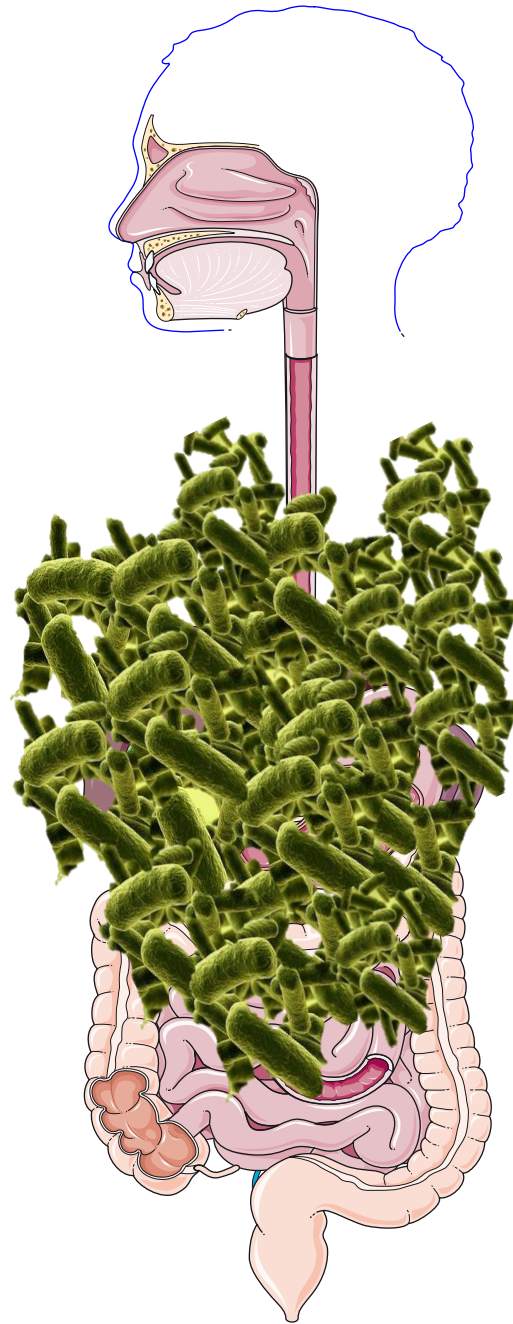
Mcintosh K, Gut 2016; on line Nov

Camilleri M Gut 2017, On line Sept 28

Dieta

**Suspender lo
que haga daño**

Probióticos



**“No me hables
de tu fe, háblame
de tus obras”**

AGA Technical Review on the Role of Probiotics in the Management of Gastrointestinal Disorders



Geoffrey A. Preidis,¹ Adam V. Weizman,² Purna C. Kashyap,³ and Rebecca L. Morgan⁴

¹Section of Gastroenterology, Hepatology and Nutrition, Department of Pediatrics, Baylor College of Medicine and Texas Children's Hospital, Houston, Texas; ²Division of Gastroenterology, Mount Sinai Hospital, Department of Medicine, University of Toronto, Toronto, Ontario, Canada; ³Enteric Neuroscience Program, Division of Gastroenterology and Hepatology, Mayo Clinic, Rochester, Minnesota; and ⁴Health Research Methods, Evidence and Impact, McMaster University, Hamilton, Ontario, Canada

The overall CoE across all critical outcomes for probiotics for the treatment of children and adults with IBS was Low.

Solamente en el contexto de ensayos clínicos

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Recommendation

We suggest against probiotics for the treatment of global IBS symptoms.

Conditional recommendation; very low level of evidence.

SII Estreñimiento

Estreñimiento-Síntoma

Estreñimiento Funcional

Disminución tránsito colónico
< Contracciones alta amplitud
Tránsito lento
Disinergia piso pélvico

Microbiota
Metanogénica
Defecación
Disinérgica
Responden similar

SII Estreñimiento

Hipersensibilidad visceral
Alodinia, hiperalgesia
> Permeabilidad
SIBO
Disinergia piso pélvico

Myths and Misconceptions About Constipation: A New View for the 2020s

Kyle Staller, MD, MPH¹ and Brooks D. Cash, MD²

Mito #2:

El estreñimiento crónico funcional es diferente a SII-Estreñimiento

ACG Clinical Guideline: Management of Irritable Bowel Syndrome

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We recommend the use of chloride channel activators to treat global IBS-C symptoms.

Strong recommendation; moderate quality of evidence.

We recommend the use of guanylate cyclase activators to treat global IBS-C symptoms.

Strong recommendation; high quality of evidence.

We suggest that the 5-HT₄ agonist tegaserod be used to treat IBS-C symptoms in women younger than 65 years with ≤ 1 cardiovascular risk factors who have not adequately responded to secretagogues.

Conditional recommendation; low quality of evidence.

We suggest against the use of PEG products to relieve global IBS symptoms in those with IBS-C.

Conditional recommendation; low quality of evidence

Lubiprostone
8mcg 2v/d
Plecanatide 3mg

Linacotide 290 mcg
Plecanatide 3mg

Tegaserod
6 mg 2v/día

**Insuficiente
Evidencia**

PEG Nosotros Si

GUIDELINES

AGA Clinical Practice Guideline on the Pharmacological Management of Irritable Bowel Syndrome With Constipation



Lin Chang,^{1,*} Shahnaz Sultan,^{2,3,*} Anthony Lembo,⁴ G. Nicholas Verne,⁵ Walter Smalley,⁶ and Joel J. Heidelbaugh⁷

6. Should Polyethylene Glycol Laxatives Be Used in Patients With Irritable Bowel Syndrome With Constipation?

The AGA suggests using PEG laxatives in patients with IBS-C.
(Conditional recommendation, low certainty in the evidence of effects)

ACG Clinical Guideline: Management of Irritable Bowel Syndrome

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Recommendation

Estreñimiento refractario

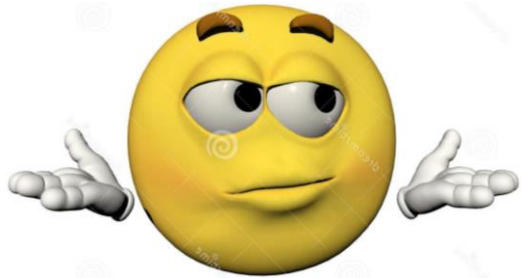
We suggest that anorectal physiology testing be performed in patients with IBS and symptoms suggestive of a pelvic floor disorder and/or refractory constipation not responsive to standard medical therapy.

Consensus recommendation; unable to assess using GRADE methodology

**SII con
Estreñimiento ?**



**Estreñimiento
Primario/Funcional ?**



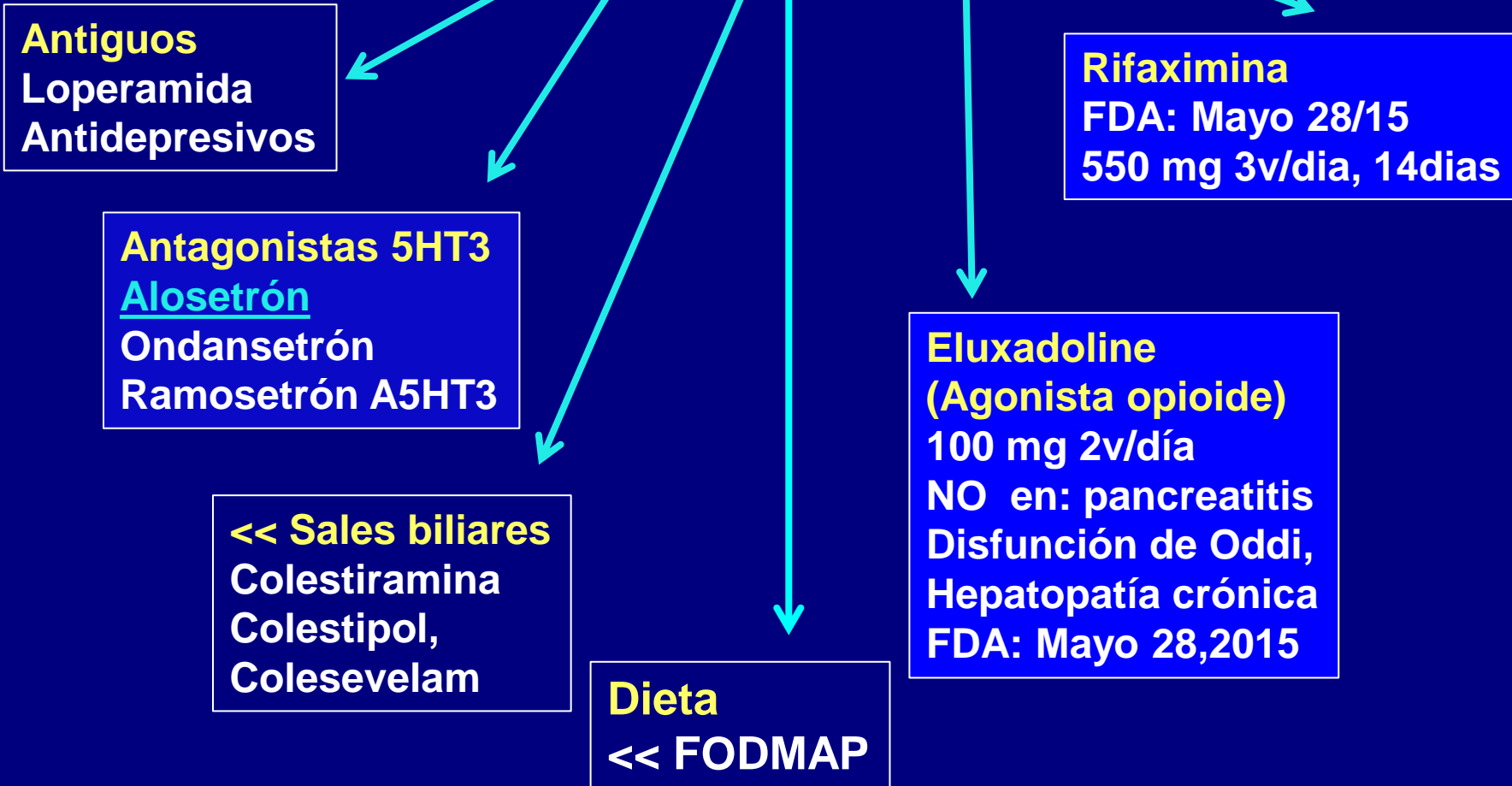
**Tranquilo: Mientras
la ciencia lo descubre**

Los remedios son similares

El dolor requiere otros medicamentos

SII Diarrea predominante

SII diarrea predominante

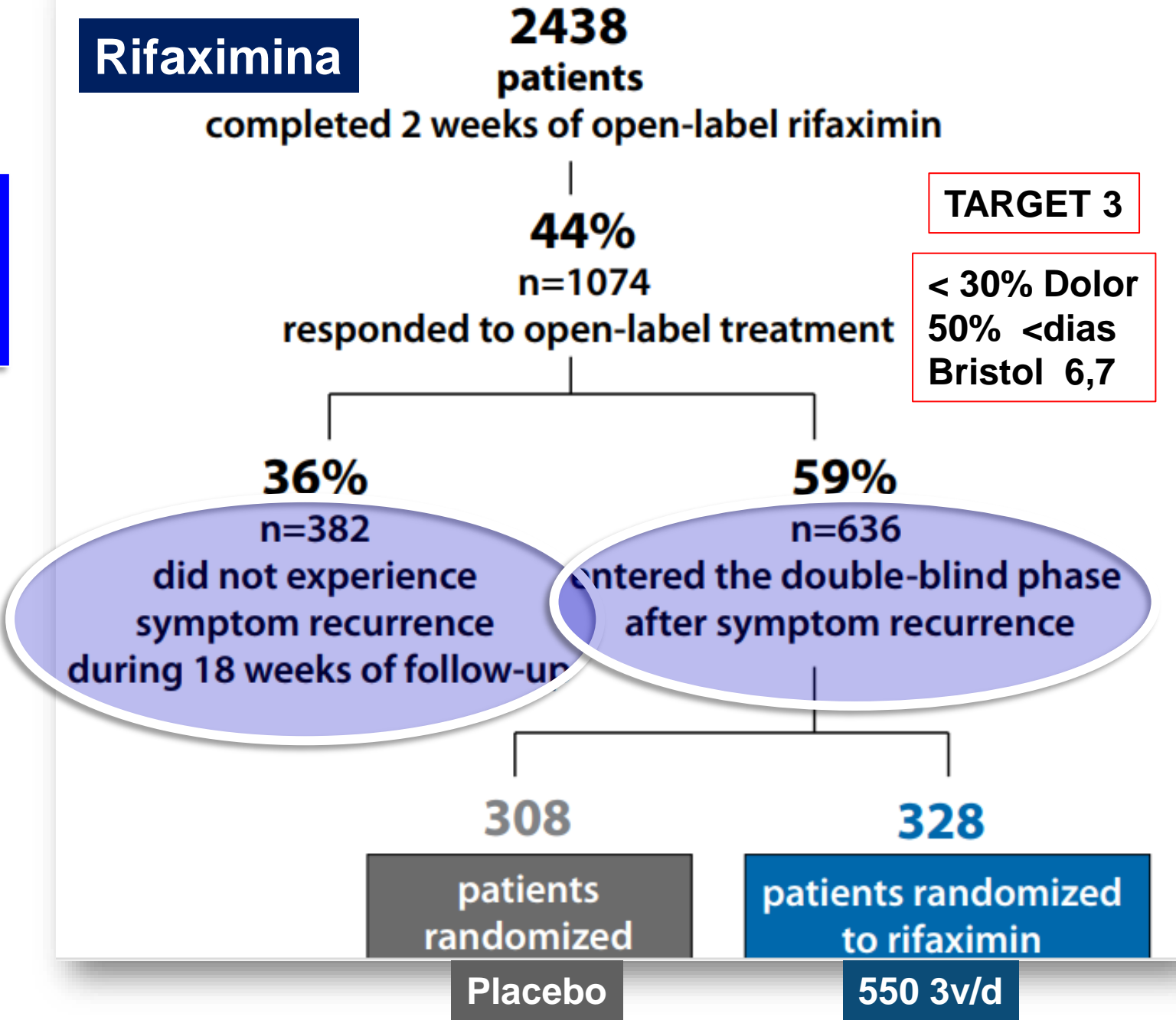


1ª línea SII

Rifaximina

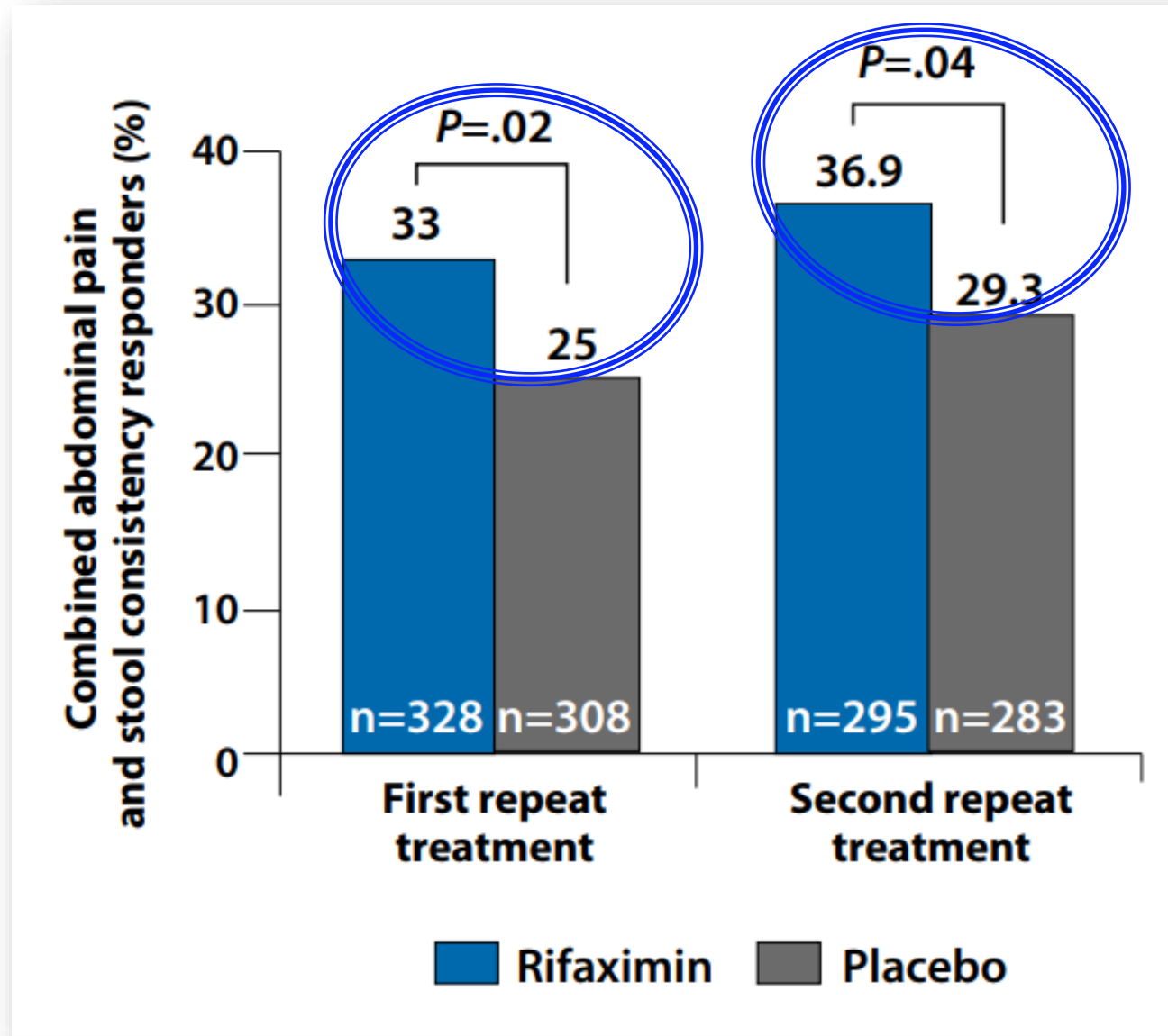


**Rifaximina
Retratamiento
En recaídas**



Rifaximina -SII

FDA



Lembo AJ, TARGET-3 study.

American College of Gastroenterology; October 17-22; Philadelphia, PA. Abstract 45.

TABLE 3. NNT and NNH Across IBS-D Trials^{32,46}

Treatment	Study duration	NNT	NNH ^a	NNT:NNH ratio
Alosetron	48 weeks	9	8	1.125
Eluxadoline	26 weeks	8.7	23.3	0.373
Rifaximin	10 weeks	10.6	8971	0.001

IBS-D indicates irritable bowel syndrome with prominent diarrhea; NNH, number needed to harm; NNT, number of patients needed to be treated.
^aNNH for alosetron is the reciprocal of the treatment difference between alosetron and placebo for any adverse effects; NNH for eluxadoline includes patients who experienced an adverse event(s) that prompted discontinuation.

Chey WD, et al. *Am J Gastroenterol*. 2004;99(11):2195-2203.
Lucak S, et al. *Ther Adv Gastroenterol*. 2017;10(2):253-275.

Rifaximina

**No es solamente SIBO
Múltiples efectos biológicos**



**Actúa tópicamente
Reduce virulencia ciertas bacteria
Reduce unión bacteria-mucosa
Eubiótico**

>>> *Lactobacilo*

>>> *Bifidobacterium*

>>> *Faecalobacterium prausnitzii*

Chey WD, Therap Adv Gastroenterol 2020;13:1756284819897531

Ponziani FR, Dig Dis 2016;34:269-78

Ponziani FT, World J Gastroenterol 2017; 23: 4491-4499

Dolor

SII

**Hipersensibilidad
Visceral**

**Comorbilidad
Sicológica**



**Impactan la calidad de vida
Búsqueda de servicios de salud**

**Blanco terapéutico
Muy importante**

1ª línea

Antiespasmódicos

**Relajan músculo
liso intestinal**

**Black CJ, et al. Lancet Gastroenterol Hepatol 2020; 5:117-31.
Ford AC, et al. BMJ 2008;337:a2313**

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Recommendation

We recommend against the use of antispasmodics currently available in the United States to treat global IBS symptoms.

Conditional recommendation; low quality of evidence.

Anti-Espasmódicos

Bromuro Pinaverio

Bromuro Otilonium

Dolor

Menta oleosa

Antibiótico

Rifaximina

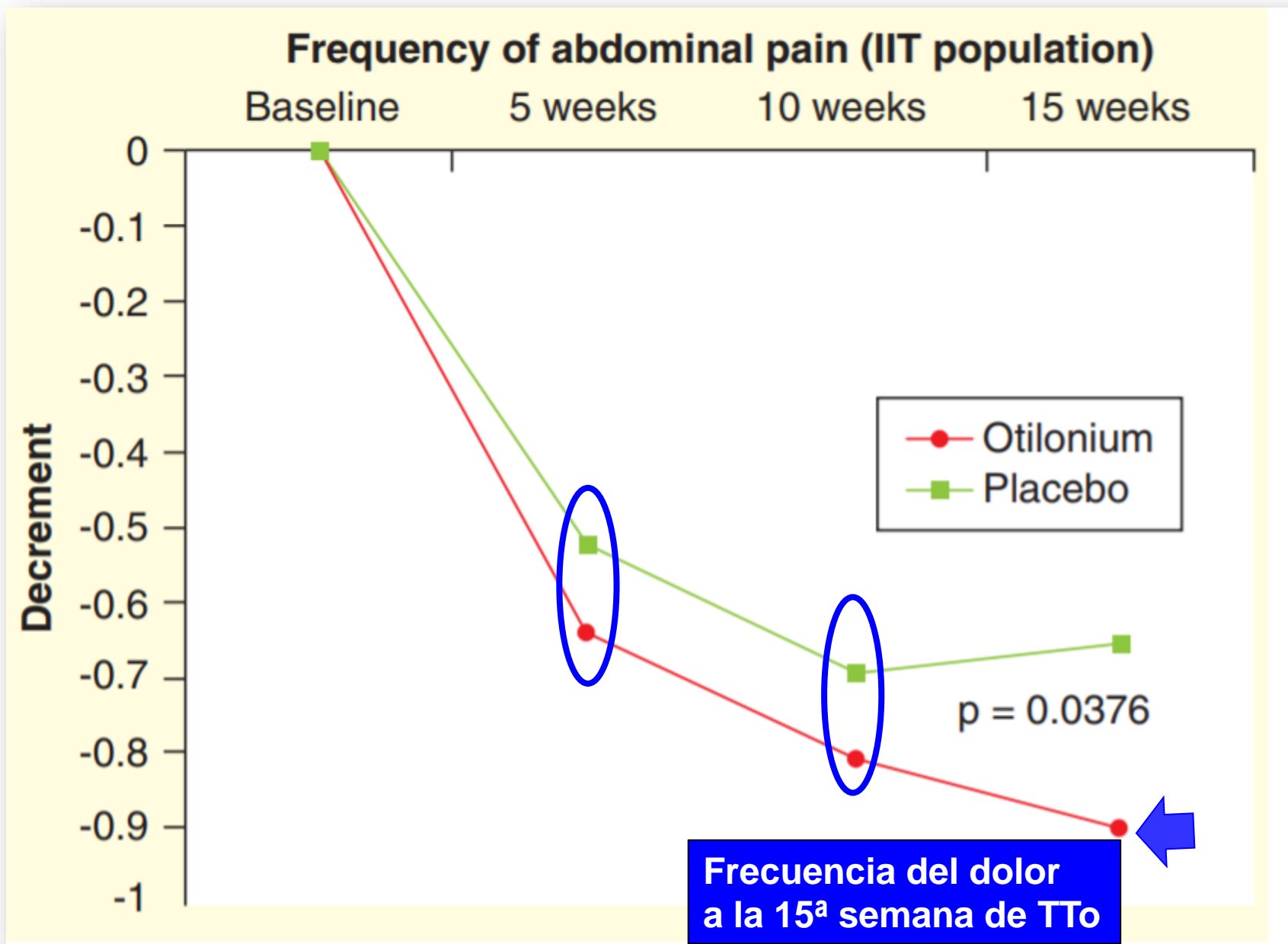
Masuy I, Minerva Gastroenterol Dietl 2020;66:136-50

Randomised clinical trial: otilonium bromide improves frequency of abdominal pain, severity of distention and time to relapse in patients with irritable bowel syndrome

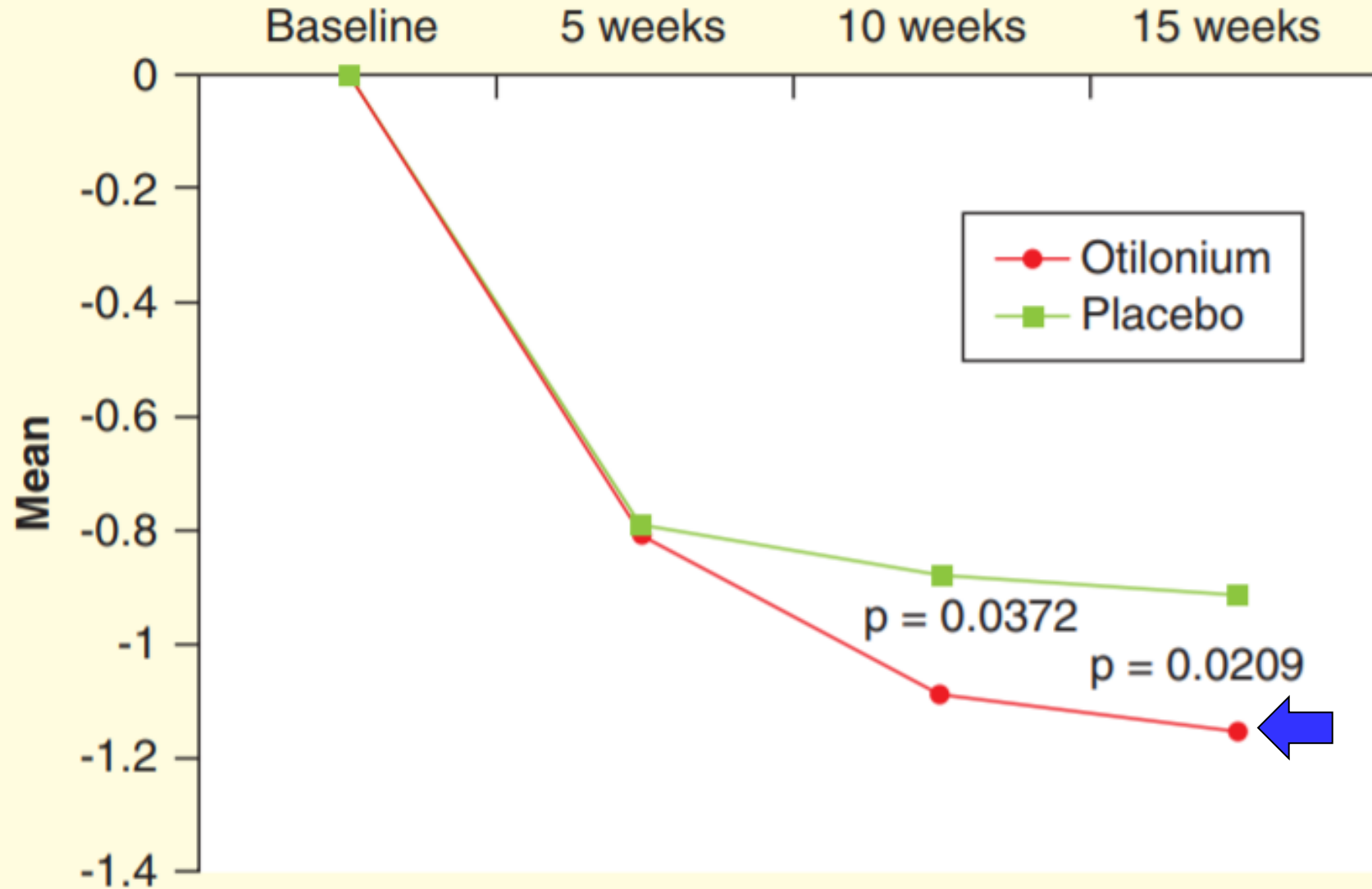
P. Clavé^{*,†,‡}, M. Acalovschi[§], J. K. Triantafillidis[¶], Y. P. Uspensky^{**}, C. Kalayci^{††}, V. Shee^{‡‡} & J. Tack^{§§} on behalf of the OBIS Study Investigators

Aliment Pharmacol Ther 2011; 34: 432–442

**Bromuro
De
Otilonium**

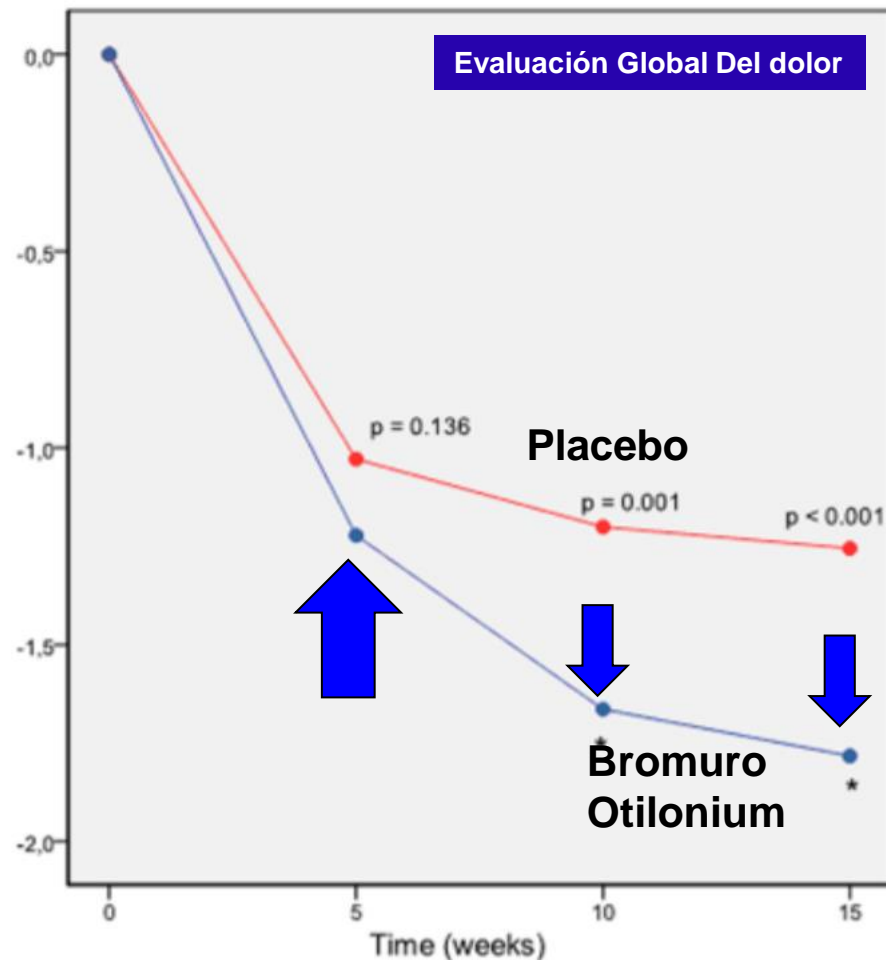


Abdominal bloating/meteorism during treatment (IIT population)



Efficacy of otilonium bromide in irritable bowel syndrome: a pooled analysis

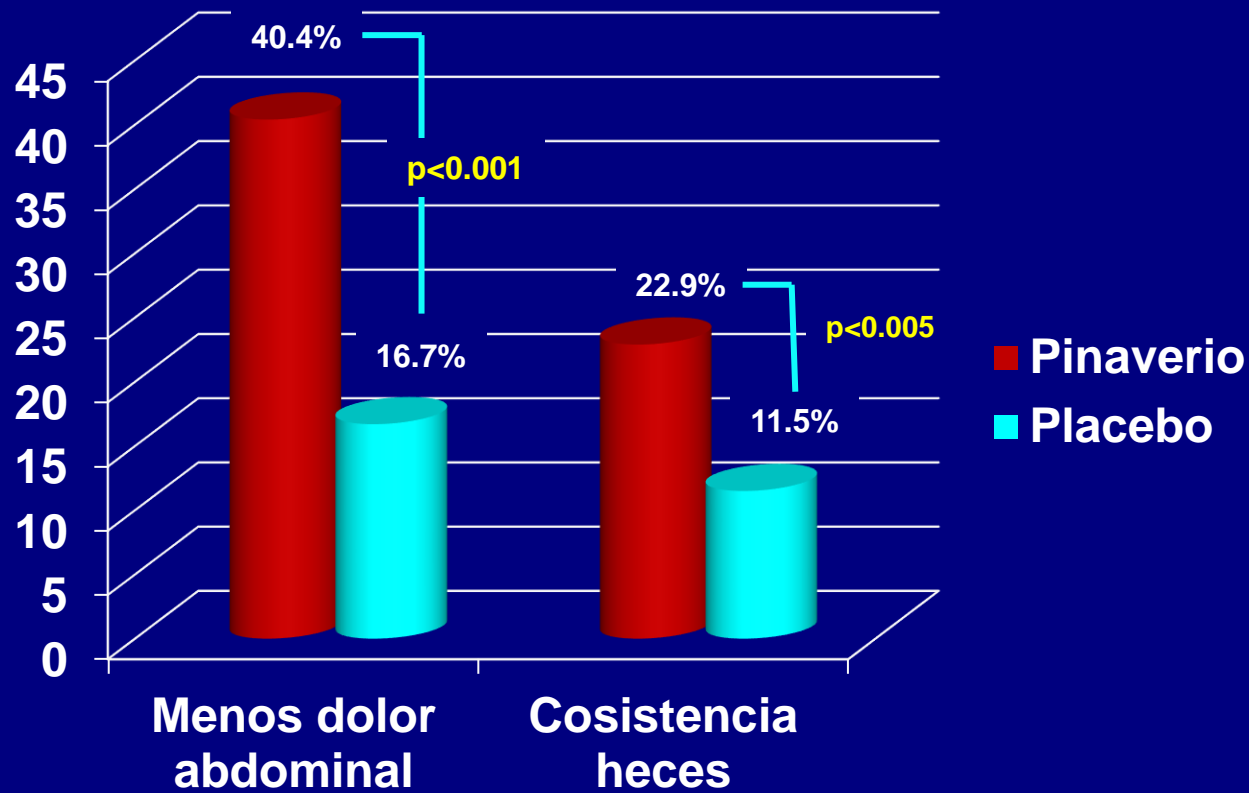
3 ECC , N 833, 69% mujeres



Pinaverium Reduces Symptoms of Irritable Bowel Syndrome in a Multicenter, Randomized, Controlled Trial

Liang Zheng,^{*} Yaoliang Lai,[‡] Weimin Lu,[§] Baiwen Li,^{||} Heng Fan,[¶] Zhixiang Yan,[#]

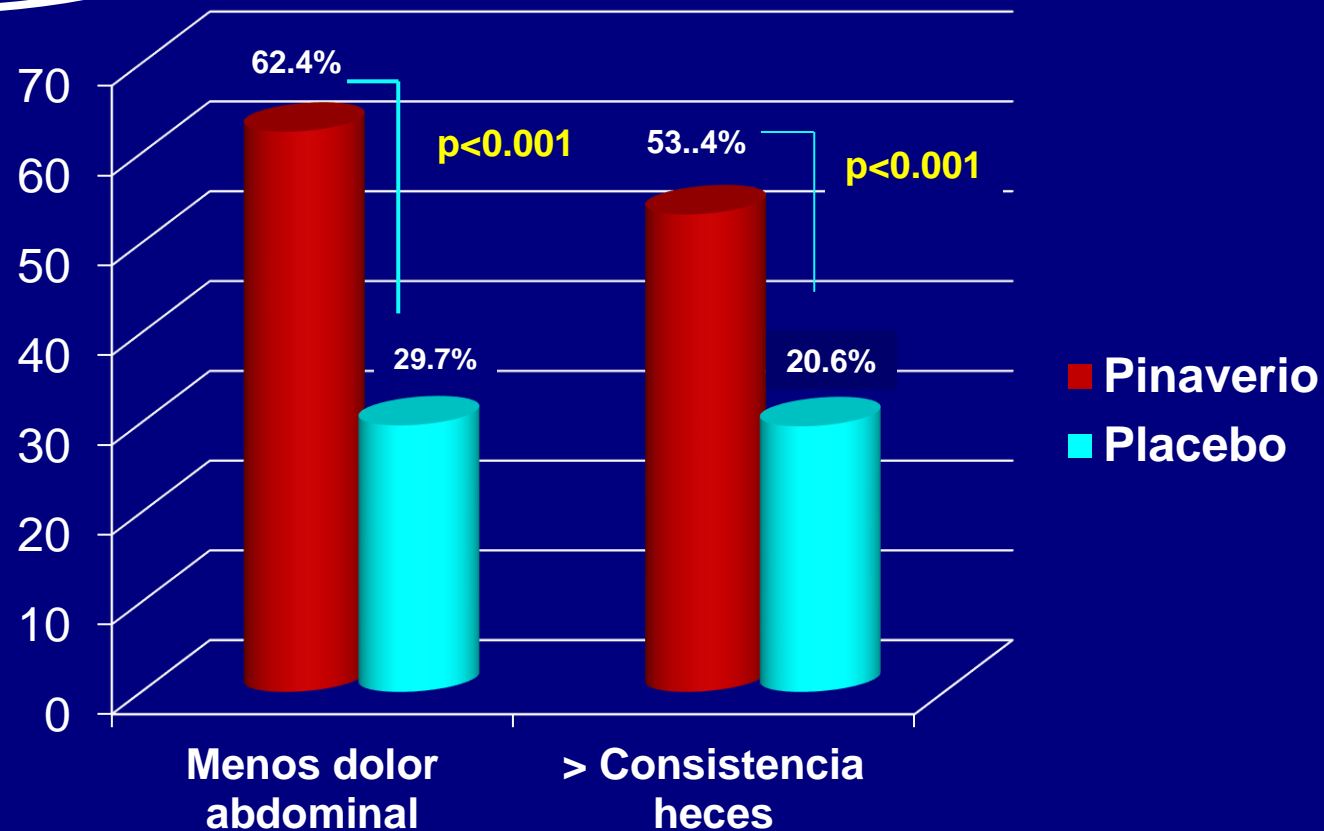
Dos semanas

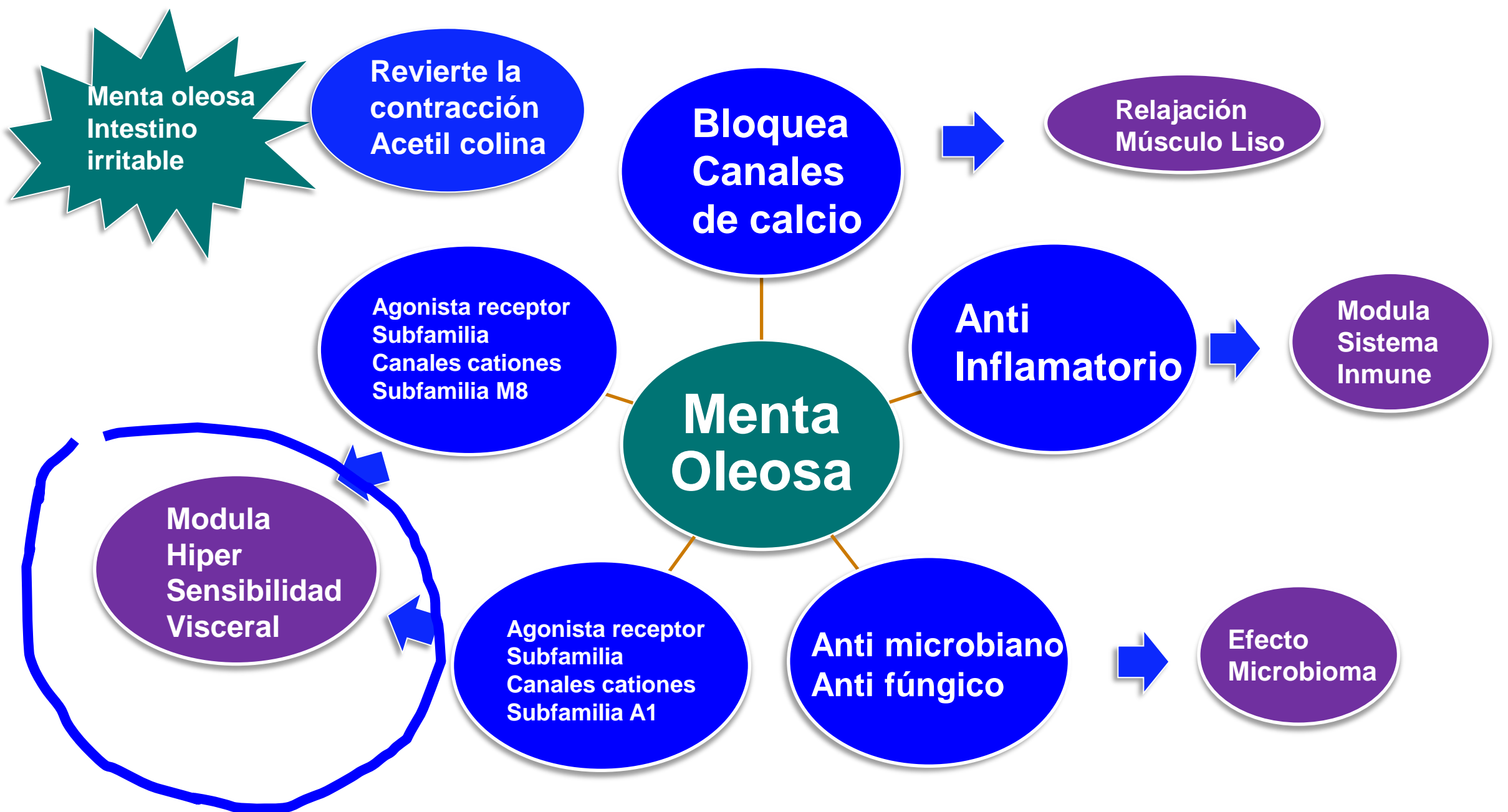


Pinaverium Reduces Symptoms of Irritable Bowel Syndrome in a Multicenter, Randomized, Controlled Trial

Liang Zheng,^{*} Yaoliang Lai,[‡] Weimin Lu,[§] Baiwen Li,^{||} Heng Fan,[¶] Zhixiang Yan,[#]

4 semanas





peppermint oil and ibs

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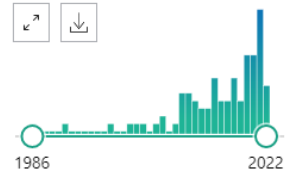
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84 results

Page 2 of 9

RESULTS BY YEAR



84 **peppermint oil** for the treatment of irritable bowel syndrome...
Weerts ZZRM, Essers BAB, Janssen DJPA, Witteman BJM, Clemens CHM, Westendorp A, Masclee AAM, United European Gastroenterol J. 2021 Nov;9(9):997-1006. doi: 10.1002/ueg.2.12134. Epub 2021 Sep 1. PMID: 34468079 **Free PMC article.** Clinical Trial.
Peppermint oil is a frequently used treatment for **IBS**, but evidence about cost-effectiveness is lacking. **Peppermint oil** was also more effective but at higher cost in 31% of replications. ...

otilonium bromide AND IBS

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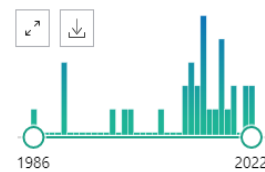
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30 results

Page 1 of 3

RESULTS BY YEAR



30 **In IBS**, a smartphone application for self-managing a FODMAP-lowering diet vs. **otilonium bromide** reduced symptoms at 8 wk.
Cox JF 3rd. Ann Intern Med. 2022 Aug;175(8):JC91. doi: 10.7326/J22-0059. Epub 2022 Aug 2. PMID: 35914257
Carbone F, Van den Houte K, Besard L et al. Diet or medication in primary care patients with **IBS**: the DOMINO study-a randomised trial supported by the Belgian Health Care Knowledge Centre (KCE Trials Programme) and the Rome Foundation Research Institute. ...

pinaverium bromide AND IBS

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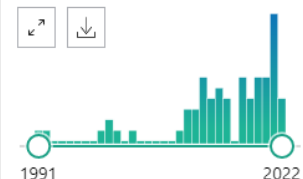
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71 results

Page 1 of 8

RESULTS BY YEAR



71 **Effect and Mechanism of Flavored Tongxie Yaofang Decoction for Diarrheal Irritable Bowel Syndrome under Intestinal Microecology.**
He S, Lin Q, Huang J, Zheng L, Lai J, Chen C. Evid Based Complement Alternat Med. 2022 Aug 3;2022:3904571. doi: 10.1155/2022/3904571. eCollection 2022. PMID: 35966738 **Free PMC article.**
This research was to analyze the effect of flavored Tongxie Yaofang on diarrheal irritable bowel syndrome (IBS) by the situation of intestinal microecology. The treatment mechanism was analyzed, so as to

trimebutine AND ibs

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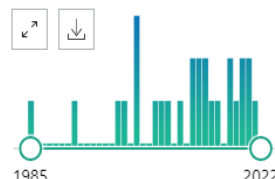
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27 results

Page 1 of 3

RESULTS BY YEAR



71 **Mechanism of QingHuaZhiXie Prescription Regulating TLR4-IECs Pathway in the Intervention of Diarrhea Predominant Irritable Bowel Syndrome.**
Huang H, Zhao P, Xi M, Li F, Ji L. Evid Based Complement Alternat Med. 2021 Nov 9;2021:5792130. doi: 10.1155/2021/5792130. eCollection 2021. PMID: 34795785 **Free PMC article.**
To investigate the effect and mechanism of QingHuaZhiXie prescription on diarrhea predominant irritable bowel syndrome (D-IBS), animal models of rats were used in this study. 48 rats were randomly

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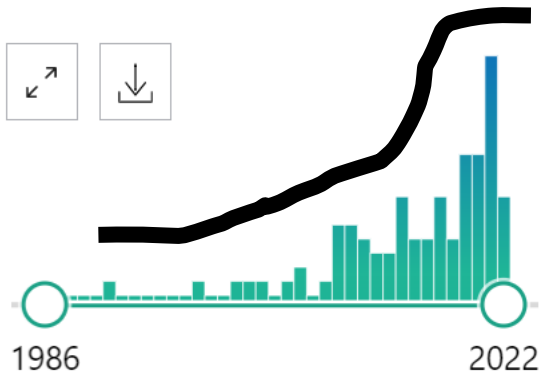
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85 results

Sept 11, 2022

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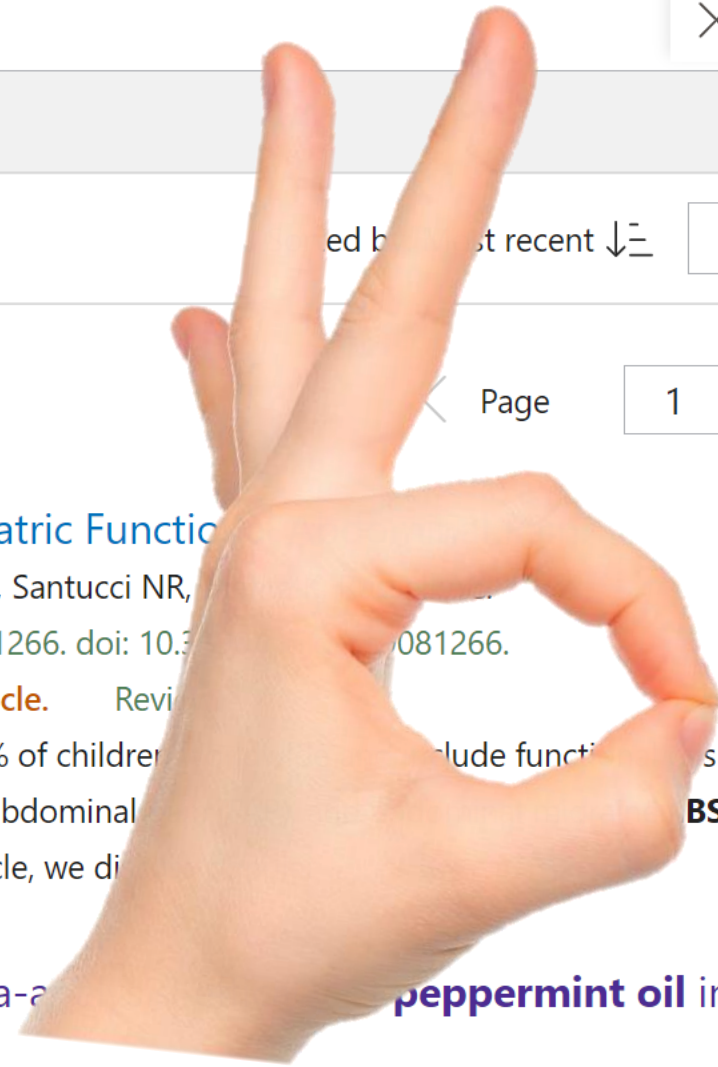
RESULTS BY YEAR



TEXT AVAILABILITY

- Abstract
- Free full text
- Full text

- Herbal Approaches to Pediatric Functional Bowel Disorders: A Systematic Review and Meta-analysis**
 1 Cherry RN, Blanchard SS, Chogle A, Santucci NR, et al. *Journal of Pediatric Gastroenterology and Nutrition*. 2022 Aug 22;9(8):1266. doi: 10.32758/1547-3484.2022.9.1266. PMID: 36010156 **Free PMC article.** Review
 Share AP-FGIDs affect approximately 20% of children and adolescents. They include functional dyspepsia (FD), irritable bowel syndrome (IBS), functional abdominal pain syndrome (FAP), and constipation-predominant IBS. IBS accounts for 45% of pediatric AP-FGIDs. ...In this article, we di
- Systematic review and meta-analysis of the efficacy and safety of peppermint oil in irritable bowel syndrome.**
 2 Ingrosso MR, Ianiro G, Nee J, Lembo AJ, Moayyedi P, Black CJ, Ford AC. *Aliment Pharmacol Ther*. 2022 Sep;56(6):932-941. doi: 10.1111/apt.17179. Epub 2022 Aug 9. PMID: 35942669



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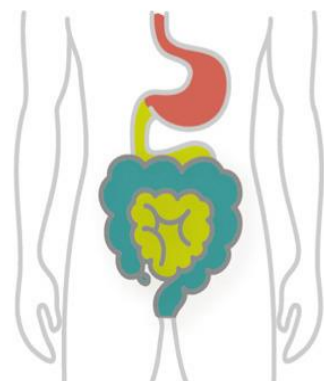
Efficacy and Safety of Peppermint Oil in a Randomized, Double-Blind Trial of Patients With Irritable Bowel Syndrome



Zsa Zsa R. M. Weerts,¹ Ad A. M. Masclee,¹ Ben J. M. Witteman,^{2,3} Cees H. M. Clemens,⁴ Bjorn Winkens,⁵ Jacobus R. B. J. Brouwers,⁶ Henderik W. Frijlink,⁷ Jean W. M. Muris,⁸ Niek J. De Wit,⁹ Brigitte A. B. Essers,¹⁰ Jan Tack,¹¹ Johanna T. W. Sijkers,¹ Andrea M. H. Bours,¹ Annieke S. de Rooter-van der Ploeg,¹² Daisy M. A. E. Jonkers,¹ and Daniel Keszthelyi¹

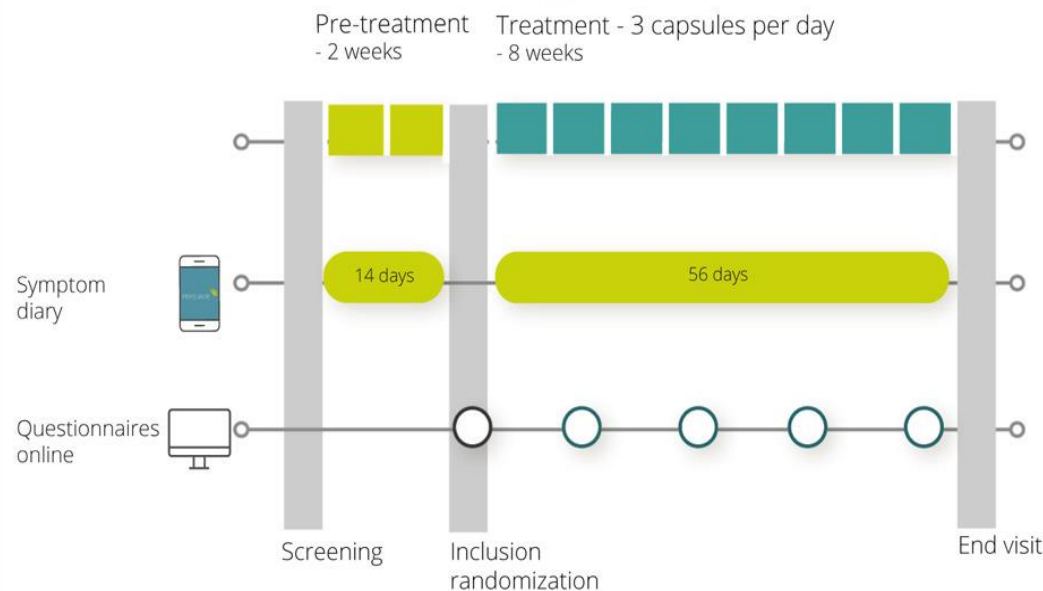
PERSUADE Peppermint oil in irritable bowel syndrome

Concept



- 189 Patients with IBS (Rome IV)
- Mean age 34.0 years
- 77.8% female, 57.7% primary care

Design

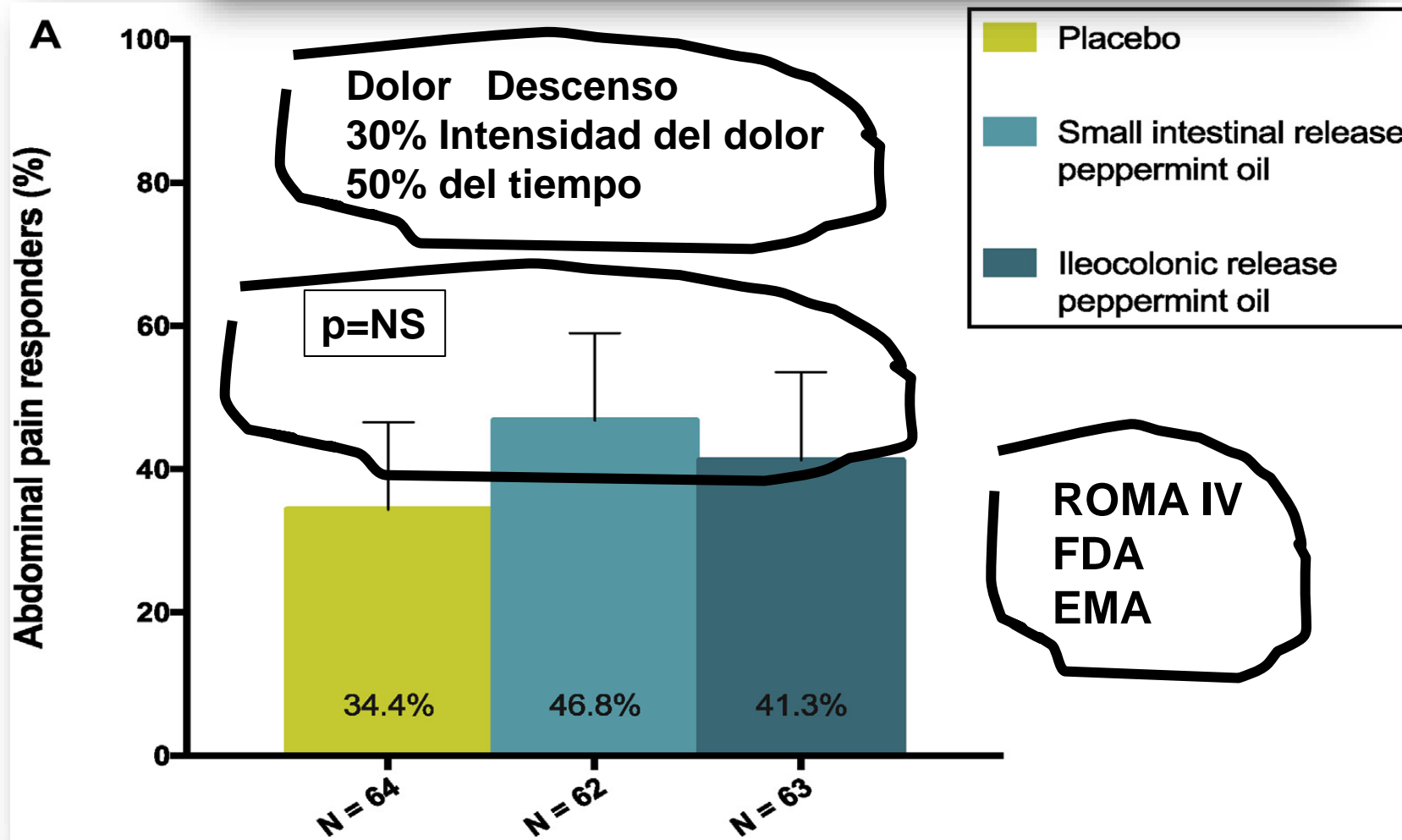


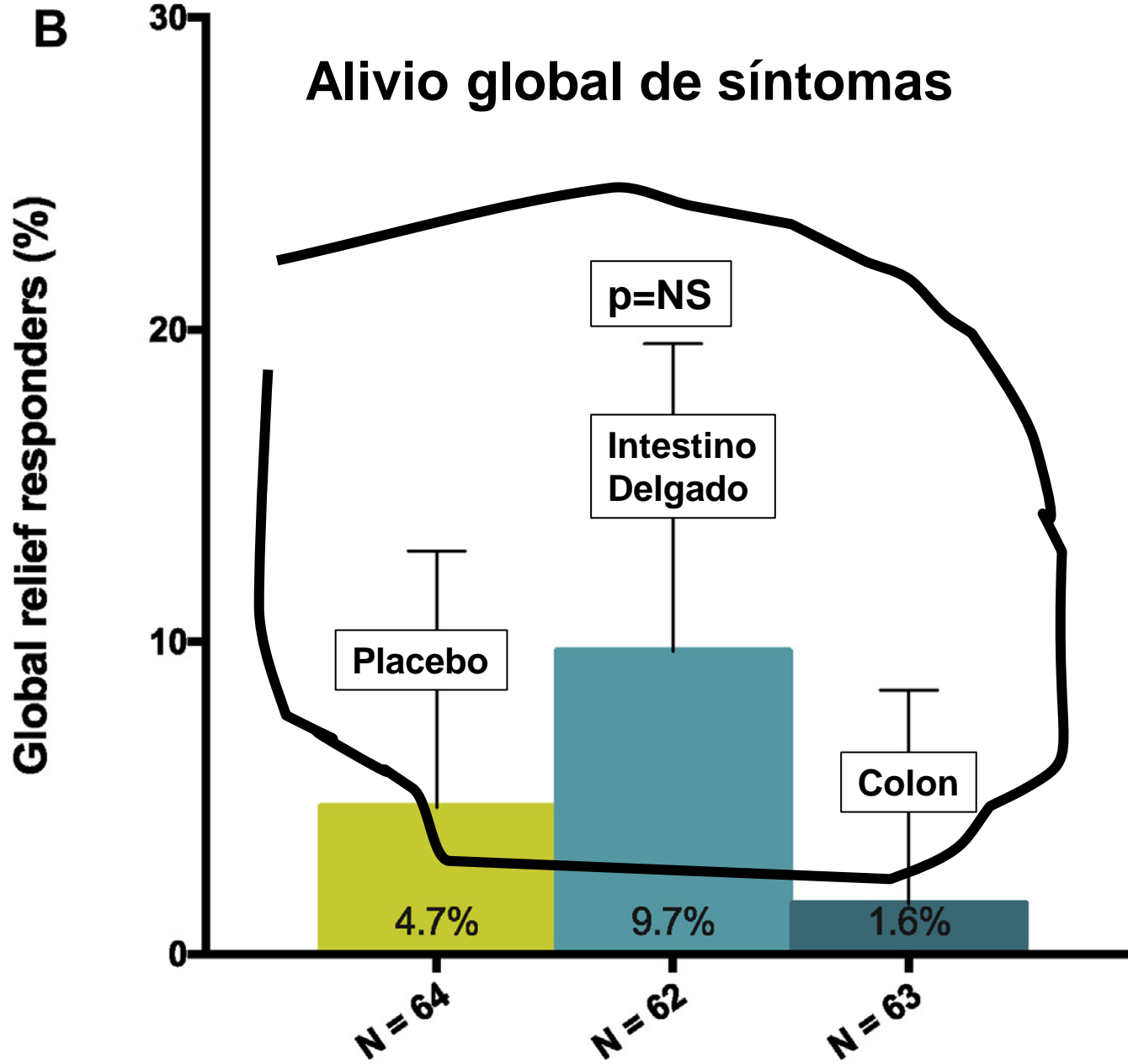
- Primary outcome: Abdominal Pain Response rate %
- Secondary outcomes, e.g.: IBS-symptom severity system (IBS-SSS)

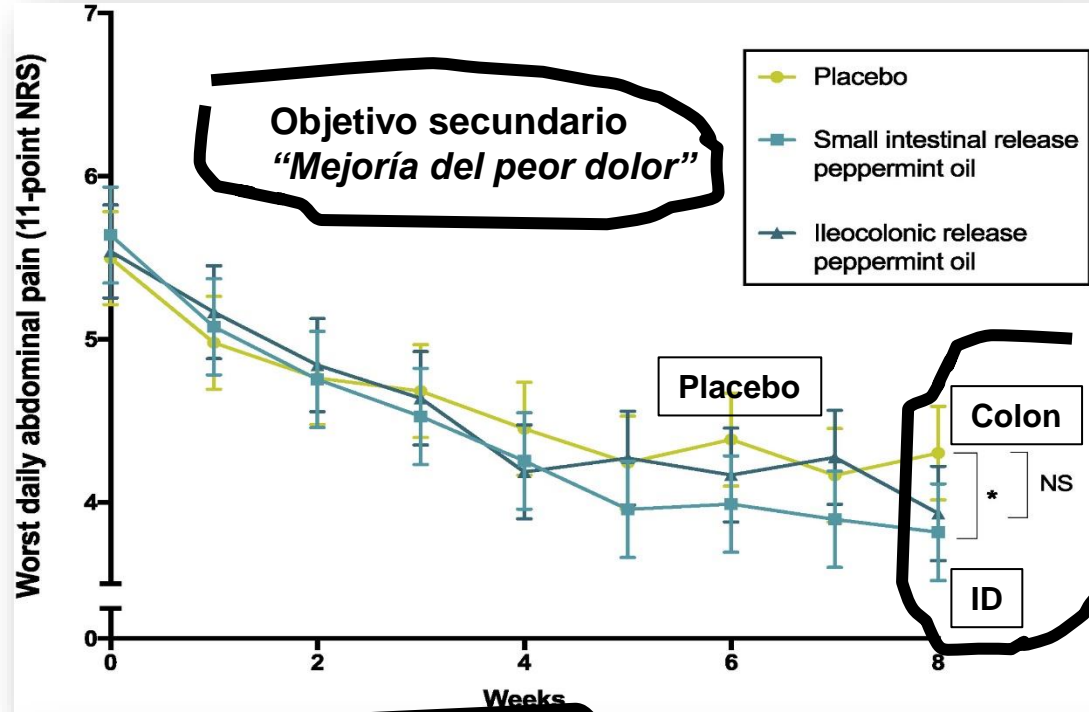
Efficacy and Safety of Peppermint Oil in a Randomized, Double-Blind Trial of Patients With Irritable Bowel Syndrome



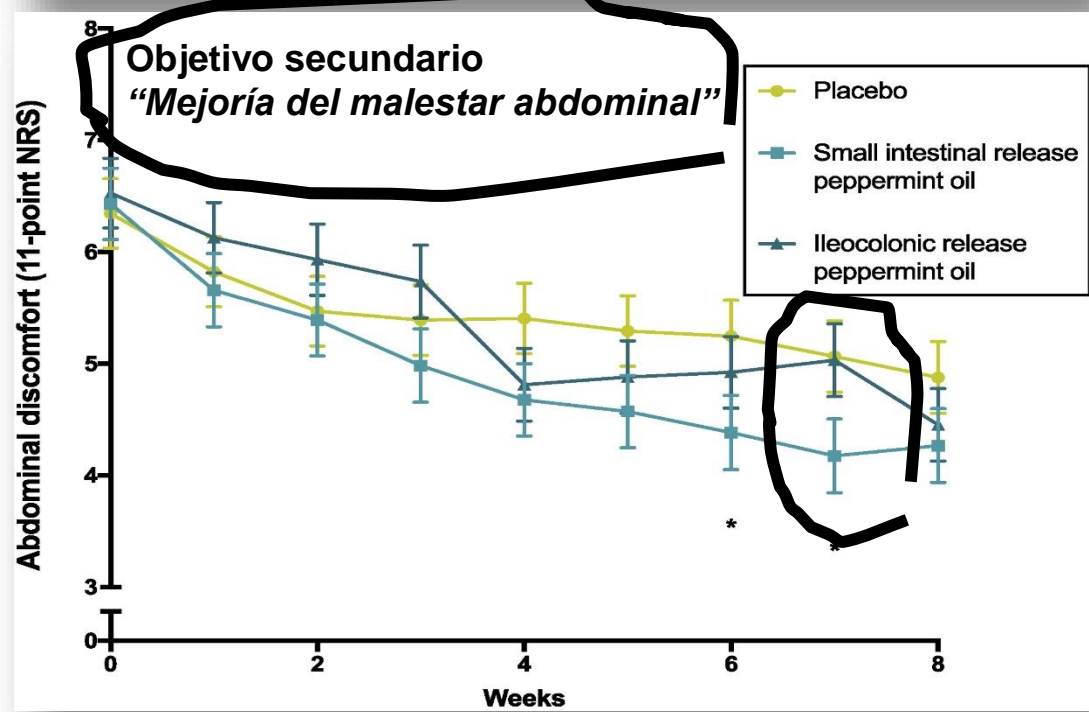
Zsa Zsa R. M. Weerts,¹ Ad A. M. Masclee,¹ Ben J. M. Witteman,^{2,3} Cees H. M. Clemens,⁴ Bjorn Winkens,⁵ Jacobus R. B. J. Brouwers,⁶ Henderik W. Frijlink,⁷ Jean W. M. Muris,⁸ Niek J. De Wit,⁹ Brigitte A. B. Essers,¹⁰ Jan Tack,¹¹ Johanna T. W. Snijkers,¹ Andrea M. H. Bours,¹ Annieke S. de Ruiter-van der Ploeg,¹² Daisy M. A. E. Jonkers,¹ and Daniel Keszthelyi¹







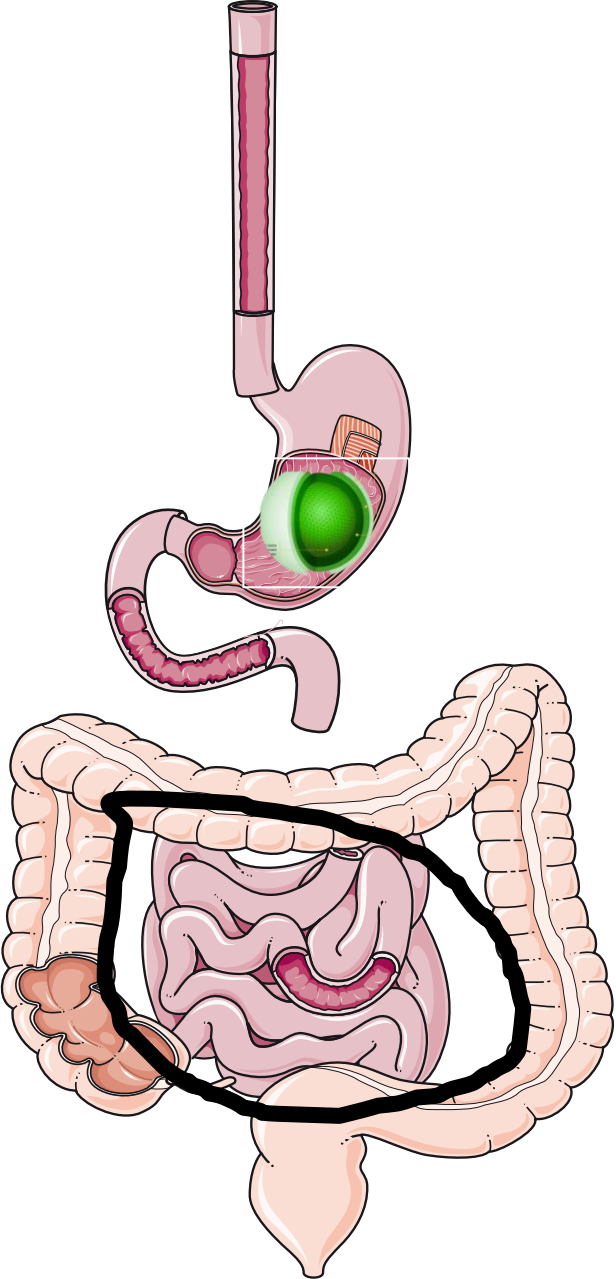
Liberación en Intestino delgado Superior a placebo



Liberación en Colon = placebo

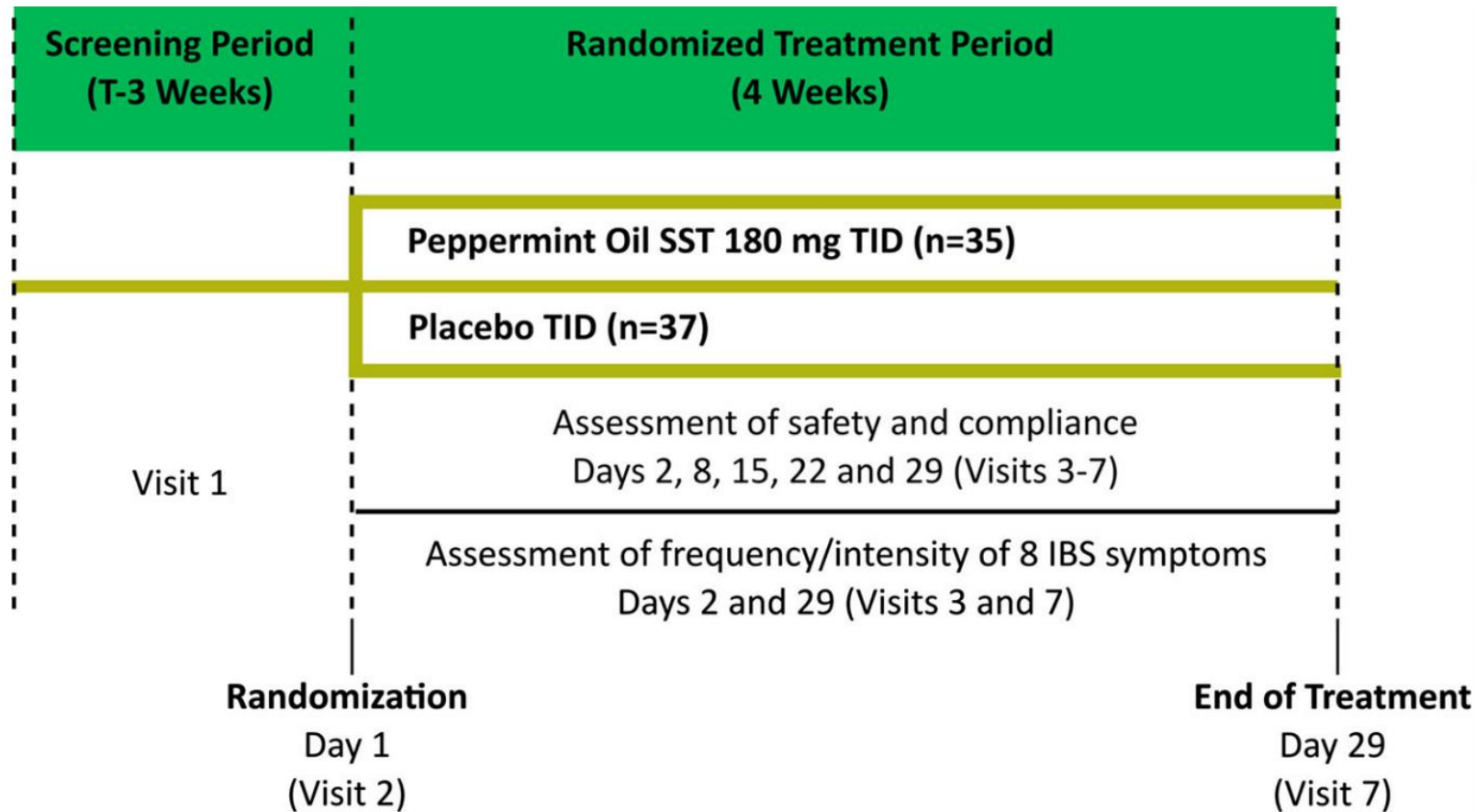
An illustration of the human small intestine, showing its characteristic coiled and folded structure. The organ is rendered in shades of pink and red, with a thick black outline. A white rectangular box with a black border is superimposed over the center of the illustration, containing text.

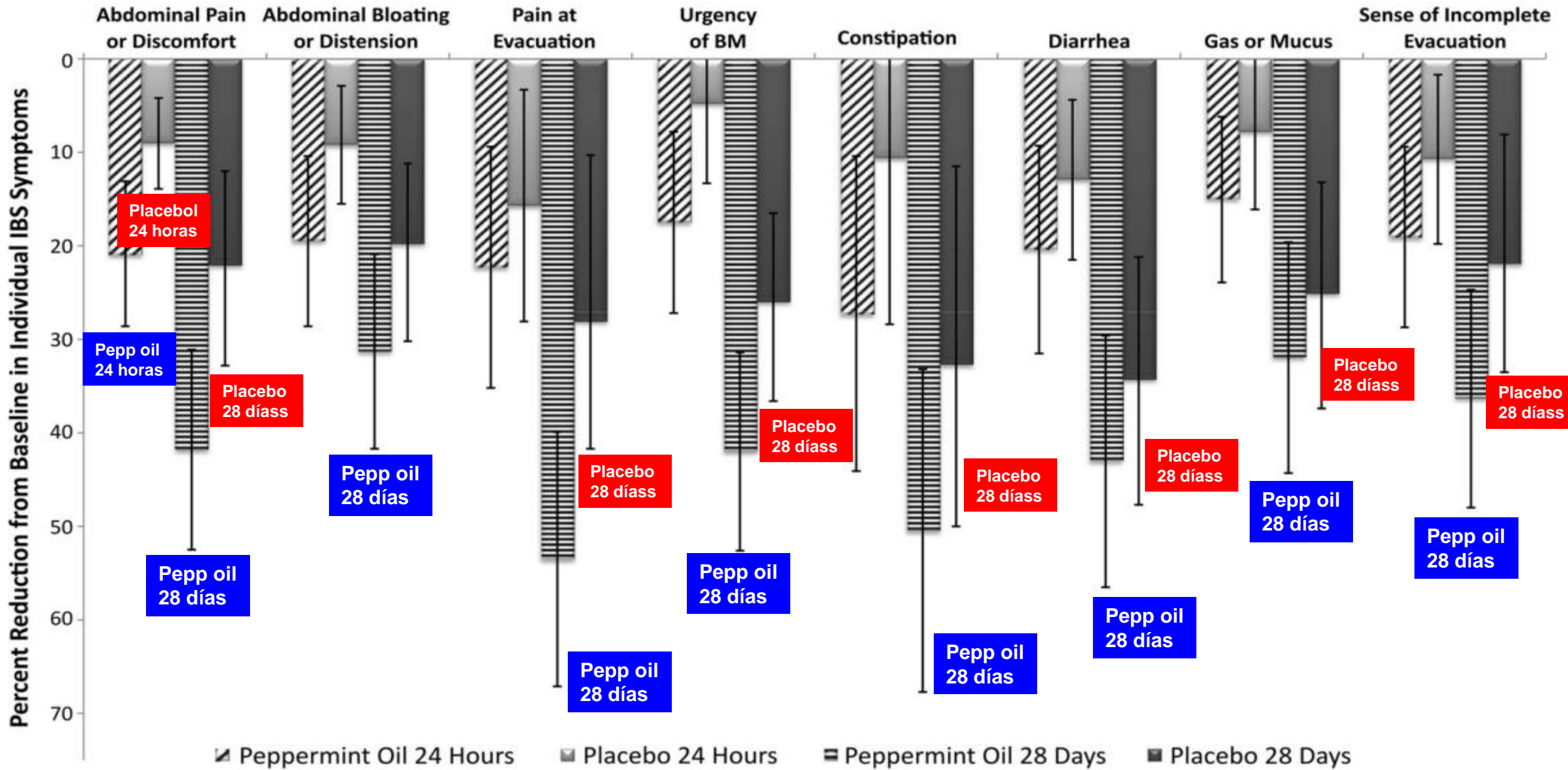
**Bacterias en el intestino delgado
son fundamentales en SII**



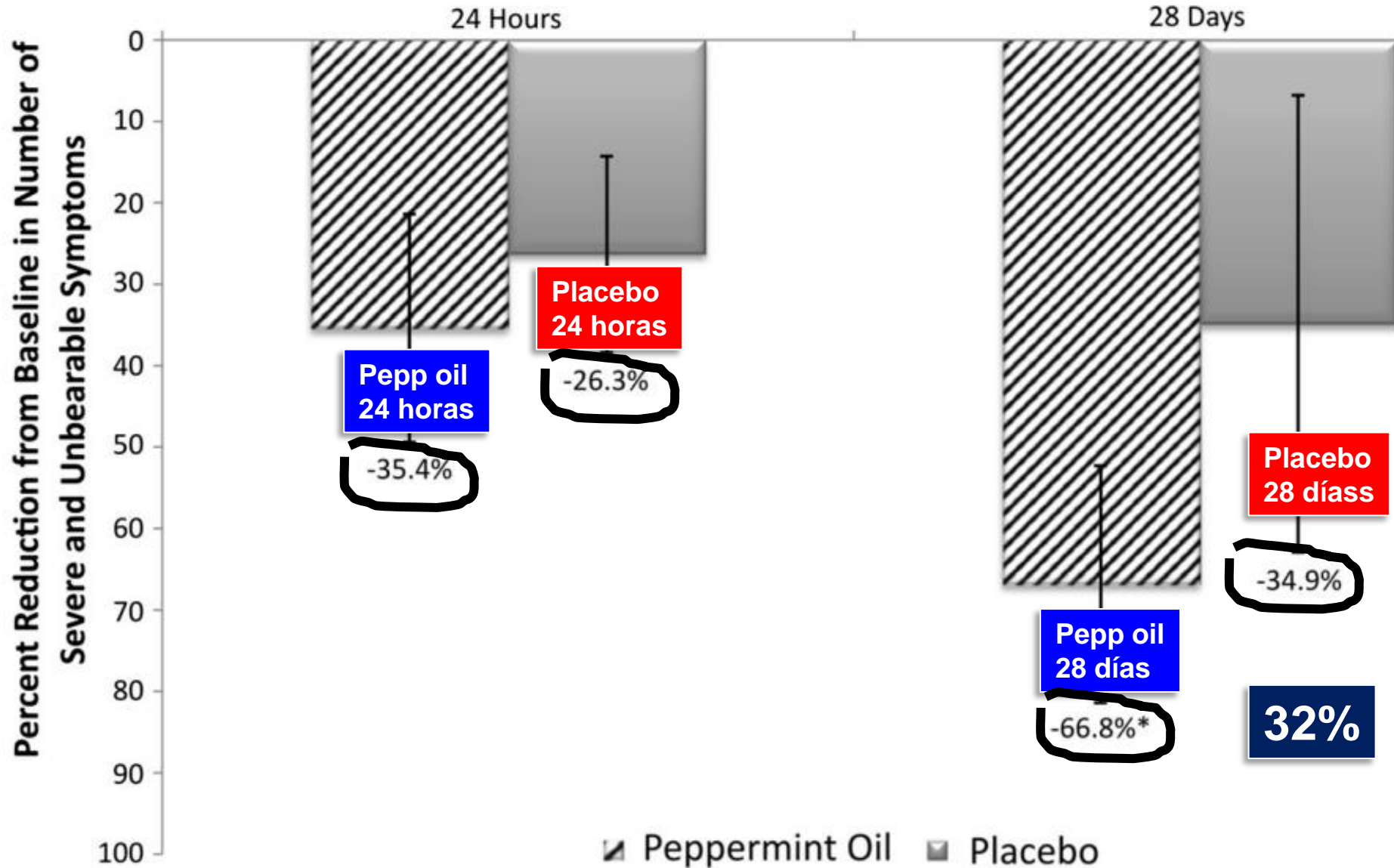
A Novel Delivery System of Peppermint Oil Is an Effective Therapy for Irritable Bowel Syndrome Symptoms

Brooks D. Cash¹  · Michael S. Epstein² · Syed M. Shah³





Reducción de síntomas severos inaguantables



Efectos adversos

	PO (<i>n</i> = 35) <i>n</i> (%)	Placebo (<i>n</i> = 37) <i>n</i> (%)	All subjects (<i>n</i> = 72) <i>n</i> (%)
Total TEAEs	2 (5.7)	4 (10.8)	6 (8.3)
Dyspepsia	1 (2.9)	0	1 (1.4)
Flatulence	0	1 (2.7)	1 (1.4)
Gastroesophageal reflux disease	0	1 (2.7)	1 (1.4)
Gastroenteritis (viral)	0	1 (2.7)	1 (1.4)
Upper respiratory tract infection	1 (2.9)	0	1 (1.4)
Back pain	0	1 (2.7)	1 (1.4)
TEAEs > grade 1	0	1 (2.7)	1 (1.4)
Serious TEAEs and deaths	0	0	0
TEAEs that led to discontinuation	0	0	0

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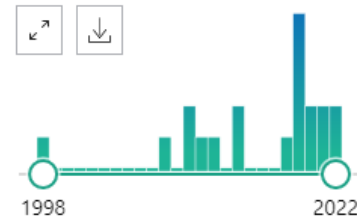
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16 results

16

Page 1 of 2

RESULTS BY YEAR



Filters applied: Meta-Analysis, Systematic Review. Clear all

TEXT AVAILABILITY

- Abstract
- Free full text
- Full text

ARTICLE ATTRIBUTE

- Associated data

ARTICLE TYPE

- Books and Documents
- Clinical Trial
- Meta-Analysis
- Randomized Controlled Trial
- Review
- Systematic Review

Systematic review and meta-analysis: efficacy of peppermint oil in irritable bowel syndrome.

1
Cite Ingrosso MR, Ianiro G, Nee J, Lembo AJ, Moayyedi P, Black CJ, Ford AC.
Aliment Pharmacol Ther. 2022 Sep;56(6):932-941. doi: 10.1111/apt.17179. Epub 2022 Aug 9.
Share PMID: 35942669

Antispasmodics are prescribed as first-line therapy because of their action on gut dysmotility. In this regard, **peppermint oil** also has antispasmodic properties. AIM: To update our previous meta-analysis to assess efficacy and safety of **peppermint oil**, ...

Efficacy and safety of biophenol-rich nutraceuticals in adults with inflammatory gastrointestinal diseases or irritable bowel syndrome: A systematic literature review and meta-analysis.

2
Cite Giang J, Lan X, Crichton M, Marx W, Marshall S.
Share Nutr Diet. 2022 Feb;79(1):76-93. doi: 10.1111/1747-0080.12672. Epub 2021 May 7.
PMID: 33960587 **Free PMC article.** Review.

In UC and CD participants, biophenol-rich nutraceuticals improved CRP by 1.6 mg/L [95%CI:0.08, 3.11; GRADE: low], malondialdehyde by 1 mmol/L [95%CI:0.55, 1.38; GRADE: low]; but only resveratrol improved QoL (SMD: -0.84 [95%CI: -1.24, -0.44; GRADE: high). Resveratrol (for UC and ...

Effects of gastrointestinal delivery of non-caloric tastants on energy intake: a systematic review and meta-analysis.

3
Cite Klaassen T, Keszthelyi D, Troost FJ, Bast A, Masclee AAM.
Share Eur J Nutr. 2021 Sep;60(6):2923-2947. doi: 10.1007/s00394-021-02485-4. Epub 2021 Feb 8.
PMID: 33559026 **Free PMC article.** Review.

Meta-análisis

Effect of fibre, antispasmodics, and peppermint oil in the treatment of irritable bowel syndrome: systematic review and meta-analysis

Alexander C Ford, clinical fellow,¹ Nicholas J Talley, professor of medicine,² Brennan M R Spiegel, assistant professor of medicine,³ Amy E Foxx-Orenstein, associate professor of medicine,⁴ Lawrence Schiller, clinical professor,⁵ Eamonn M M Quigley, professor of medicine and human physiology,⁶ Paul Moayyedi, professor of gastroenterology¹

Ford AC, BMJ. 2008;337:a2313.

Peppermint Oil for the Treatment of Irritable Bowel Syndrome

A Systematic Review and Meta-analysis

Reena Khanna, MD, John K. MacDonald, MA,* and Barrett G. Levesque, MD, MS†*

Khanna R, J Clin Gastroenterol 2014;48:505–512

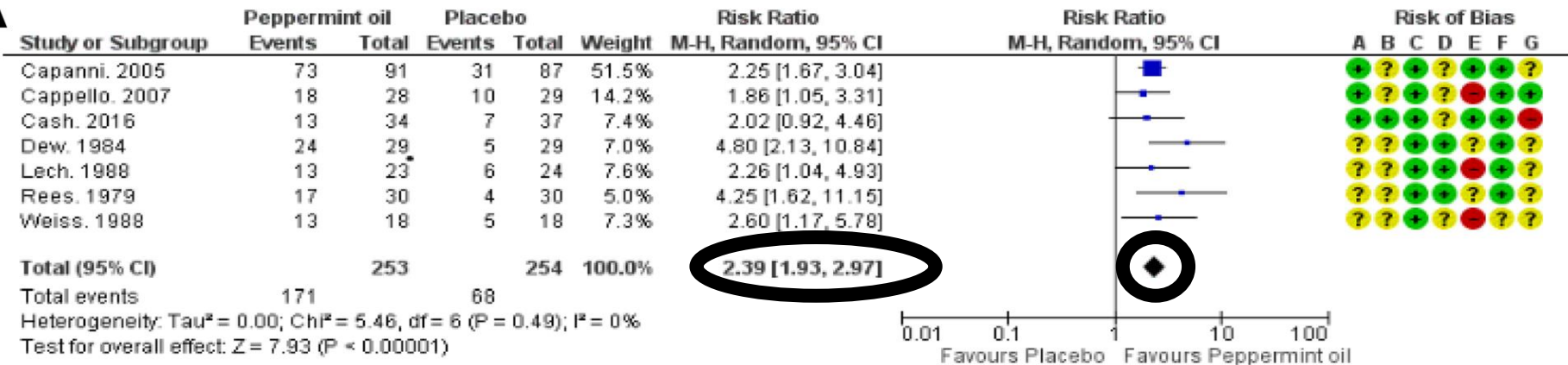
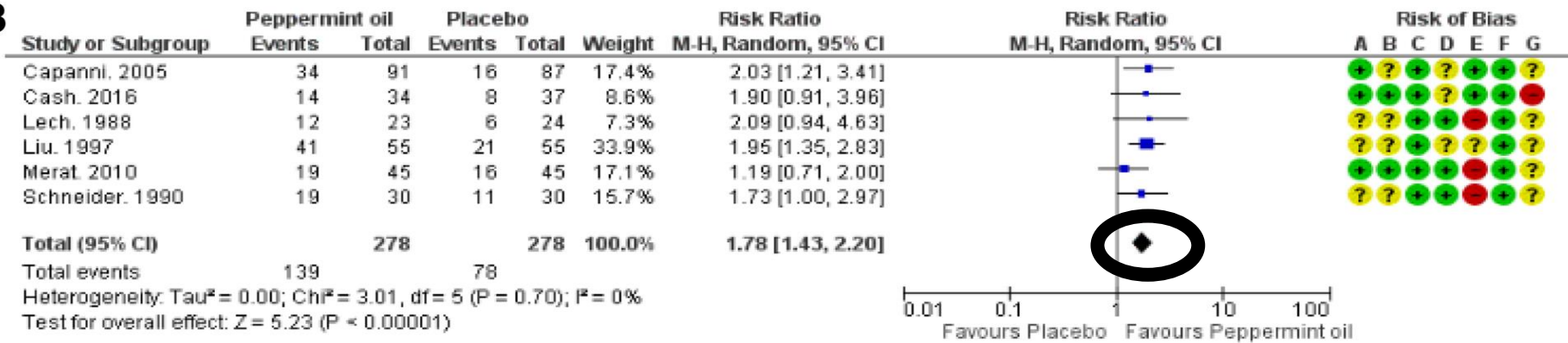
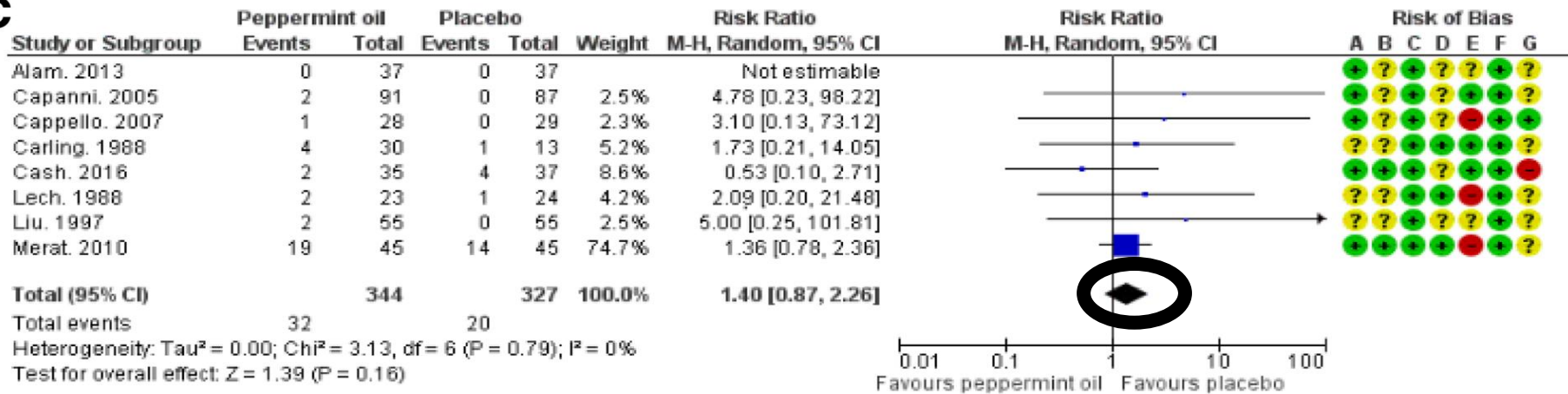
RESEARCH ARTICLE

Open Access










The impact of peppermint oil on the irritable bowel syndrome: a meta-analysis of the pooled clinical data

N. Alammar^{1,2} , L. Wang³ , B. Saberi⁴ , J. Nanavati¹ , G. Holtmann⁵ , R. T. Shinohara⁶  and G. E. Mullin^{1*} 








A**Síntomas
Globales****NNT 3****B****Dolor****NNT 4****C****Seguridad
Igual a placebo**

Systematic review and meta-analysis: efficacy of peppermint oil in irritable bowel syndrome

Maria Rosa Ingrosso^{1,2}  | Gianluca Ianiro^{1,2}  | Judy Nee³  | Anthony J. Lembo³  |
Paul Moayyedi⁴  | Christopher J. Black^{5,6}  | Alexander C. Ford^{5,6} 

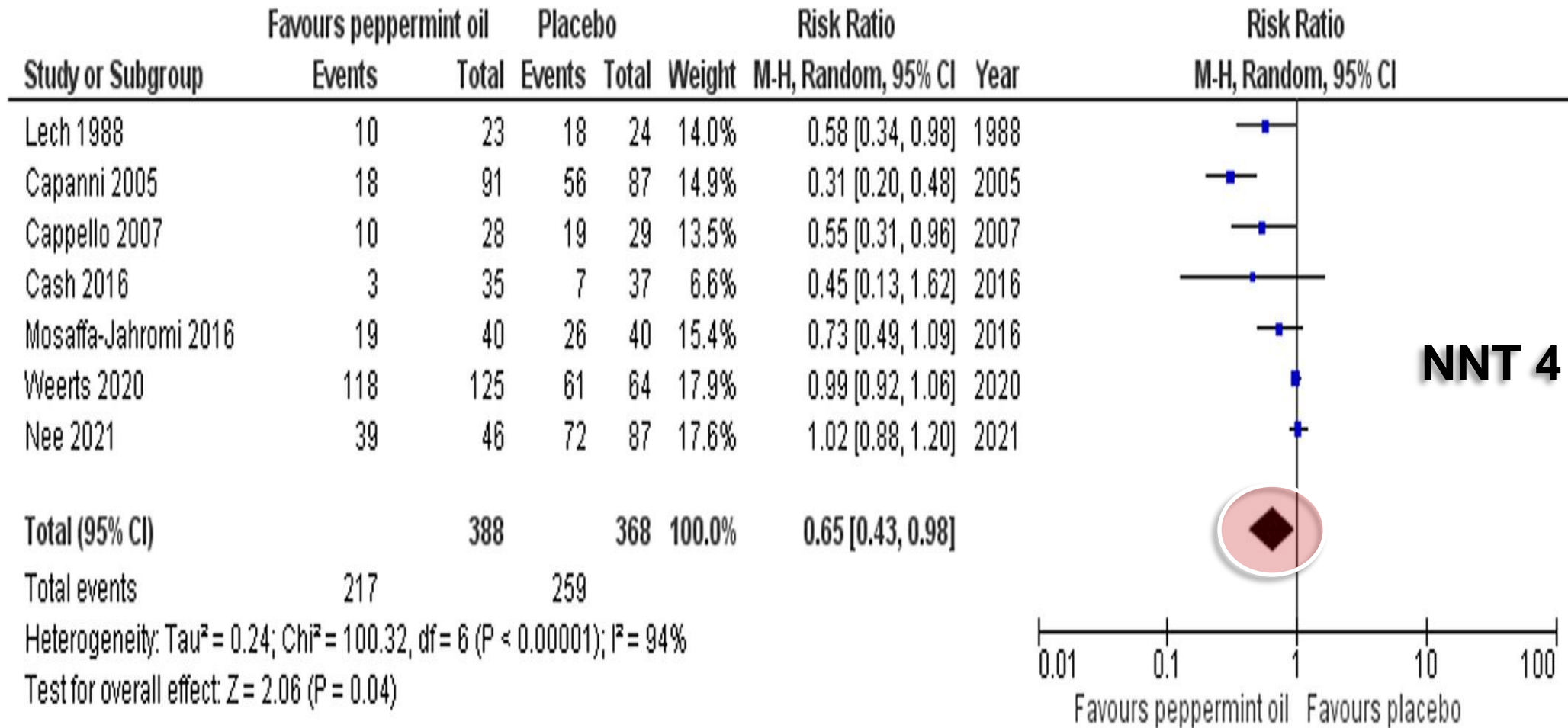
Ingrosso MR, et al. Aliment Pharmacol Ther. 2022;56:932–941.

Systematic review and meta-analysis: efficacy of peppermint oil in irritable bowel syndrome

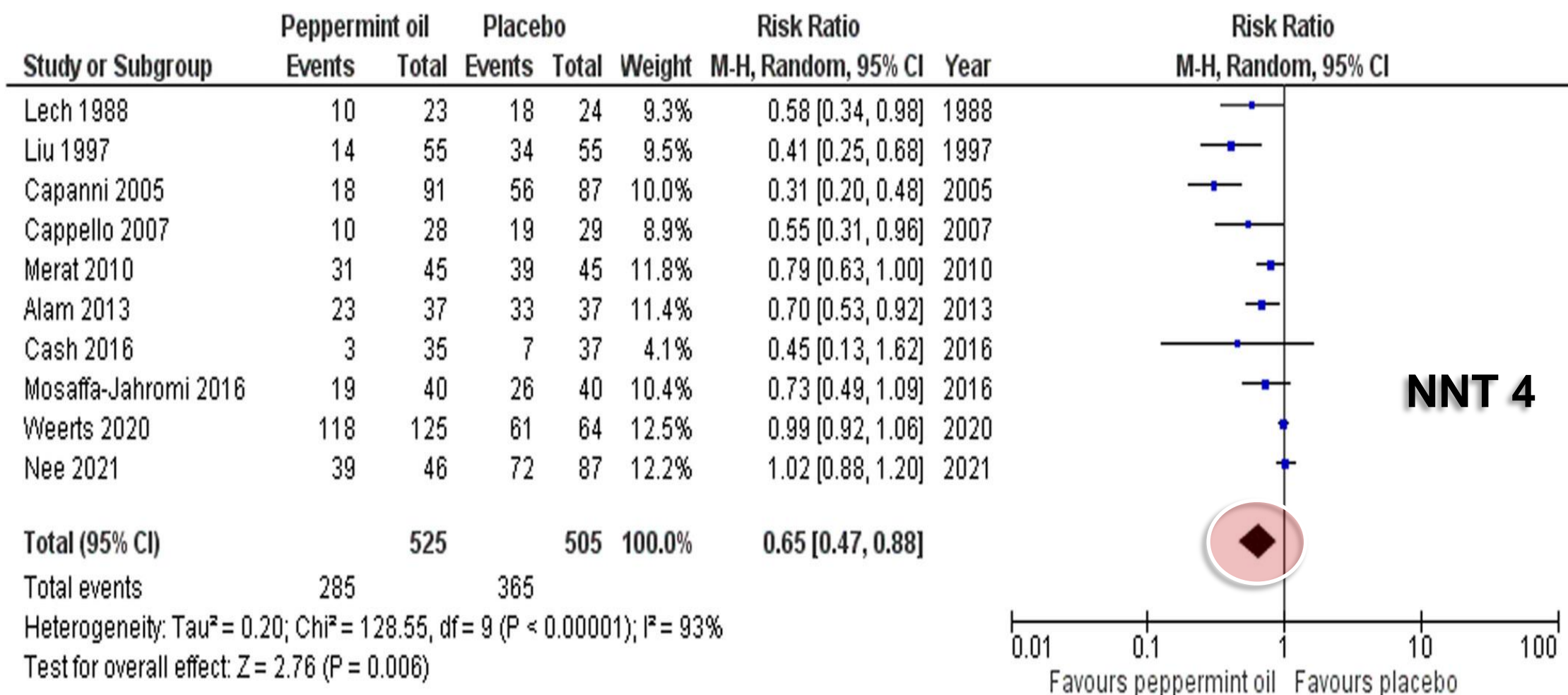
Maria Rosa Ingrosso^{1,2}  | Gianluca Ianiro^{1,2}  | Judy Nee³  | Anthony J. Lembo³  |
Paul Moayyedi⁴  | Christopher J. Black^{5,6}  | Alexander C. Ford^{5,6} 

Ingrosso MR, et al. Aliment Pharmacol Ther. 2022;56:932–941.

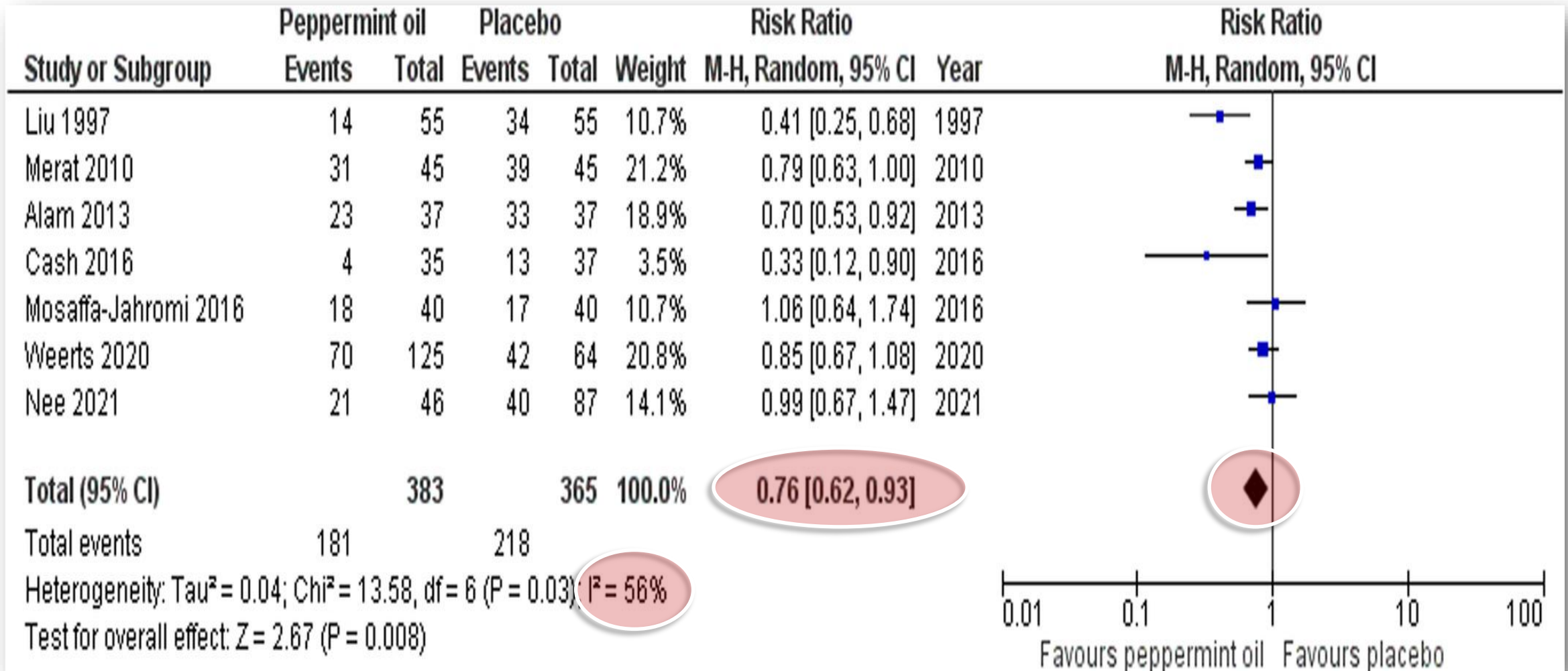
Menta oleosa Síntomas Globales



Menta oleosa Síntomas abdominales o dolor abdominal

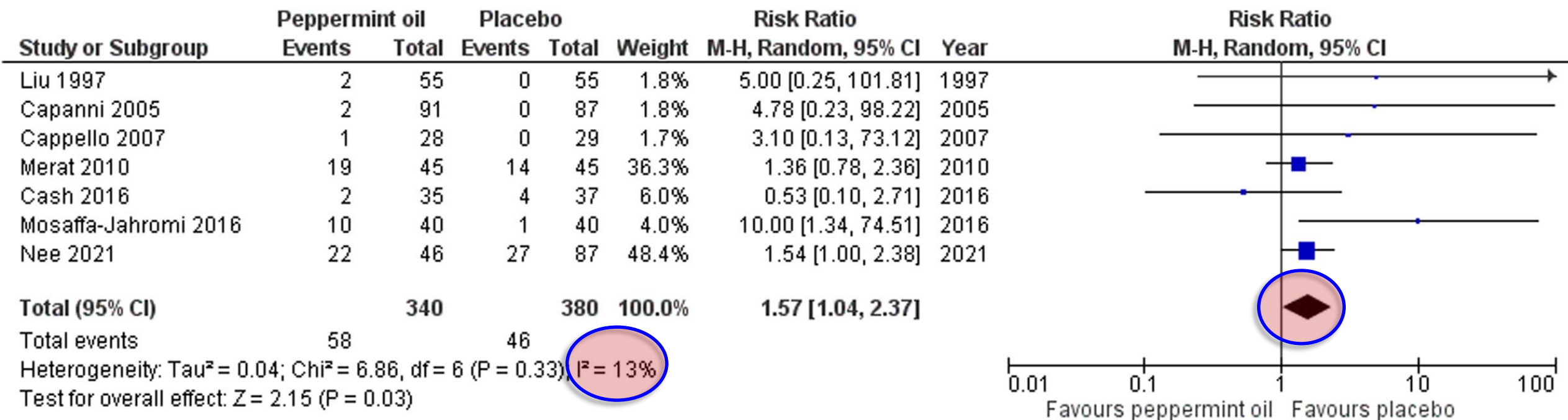


Menta oleosa dolor abdominal



Ingrosso MR, et al. Aliment Pharmacol Ther. 2022;56:932–941.

Menta oleosa efectos adversos



Reflujo

Menta oleosa NNT 14.5

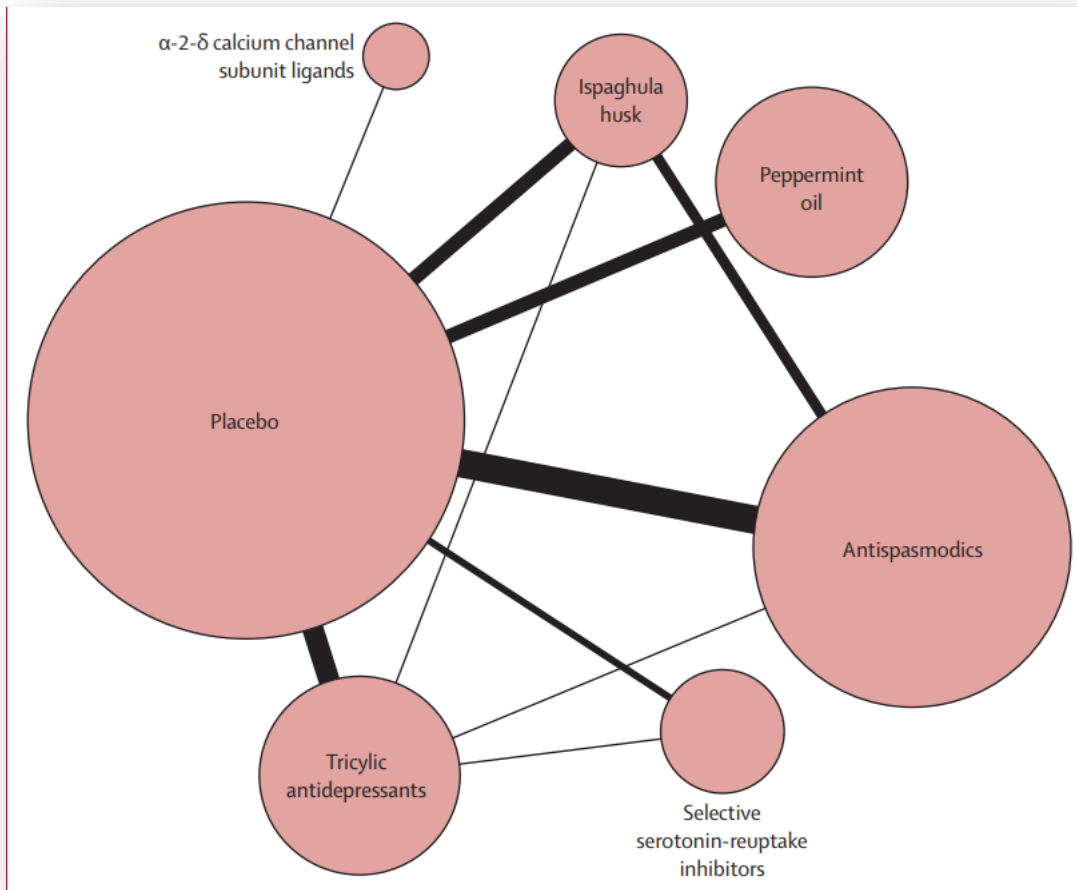
Placebo NNT 19.4

TABLE 1 Efficacy of peppermint oil in irritable bowel syndrome according to trial duration

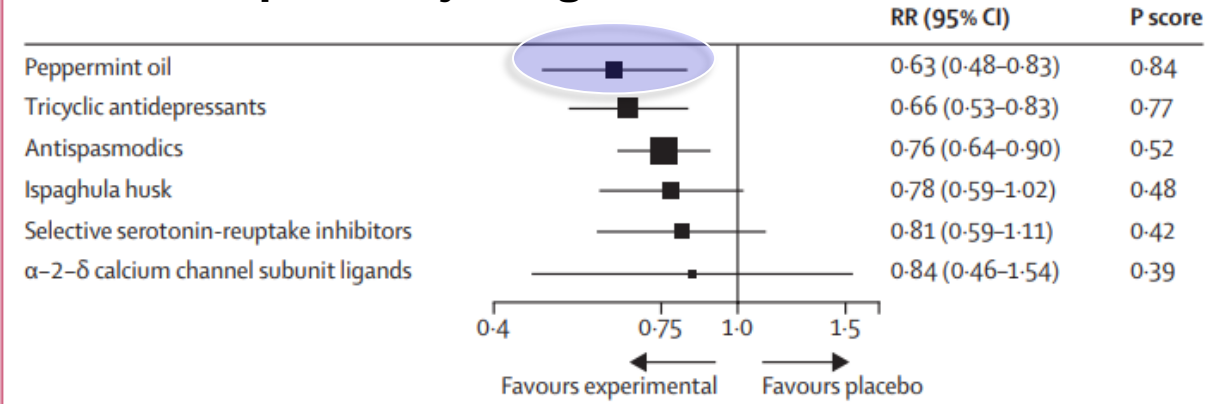
Endpoint	Trial duration (weeks)	Relative risk (95% confidence interval)	<i>I</i> ² (%)
Global IBS symptoms or abdominal pain	≤4	0.57 (0.45–0.72)	0
	>4	0.79 (0.61–1.02)	95
Global IBS symptoms	≤4	0.63 (0.48–0.82)	0
	>4	0.81 (0.58–1.11)	96
Abdominal pain	≤4	0.55 (0.26–1.18)	77
	>4	0.81 (0.72–0.92)	0

Efficacy of soluble fibre, antispasmodic drugs, and gut-brain neuromodulators in irritable bowel syndrome: a systematic review and network meta-analysis

Christopher J Black, Yuhong Yuan, Christian P Selinger, Michael Camilleri, Eamonn M M Quigley, Paul Moayyedi, Alexander C Ford



A Falla para Mejoría global 4-12 semanas

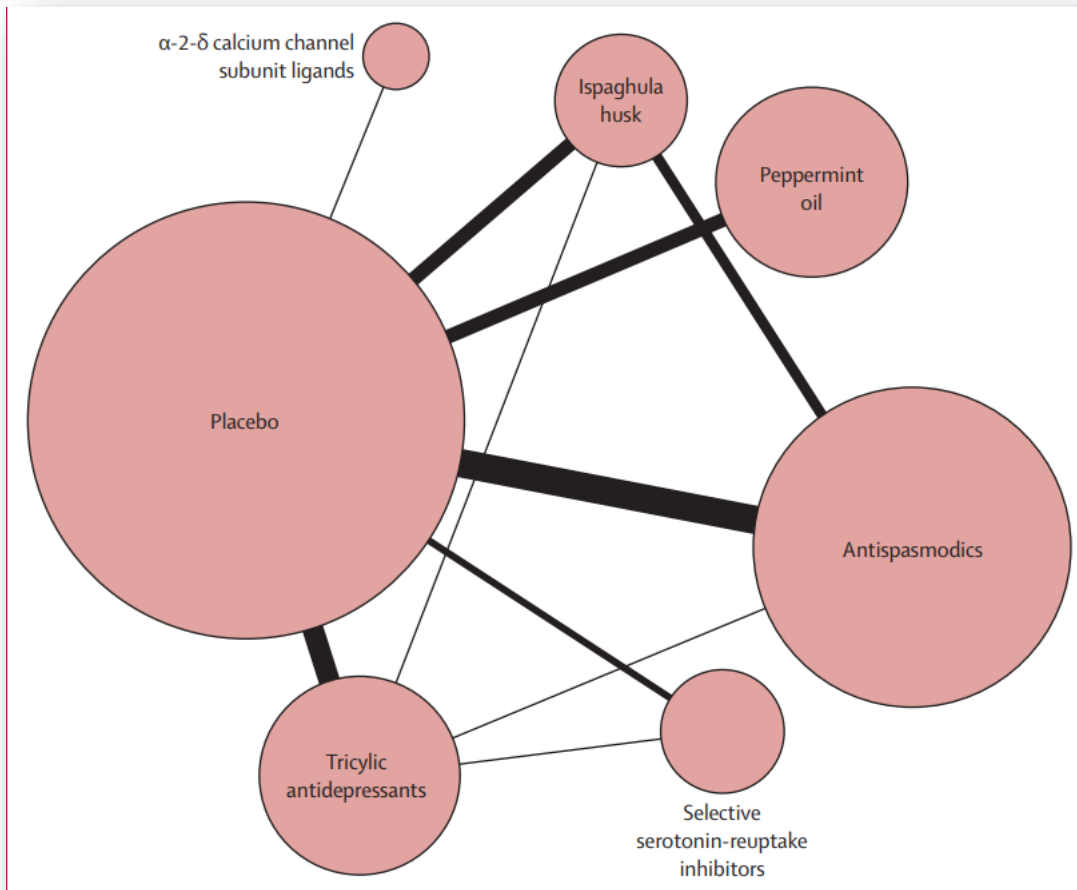


B

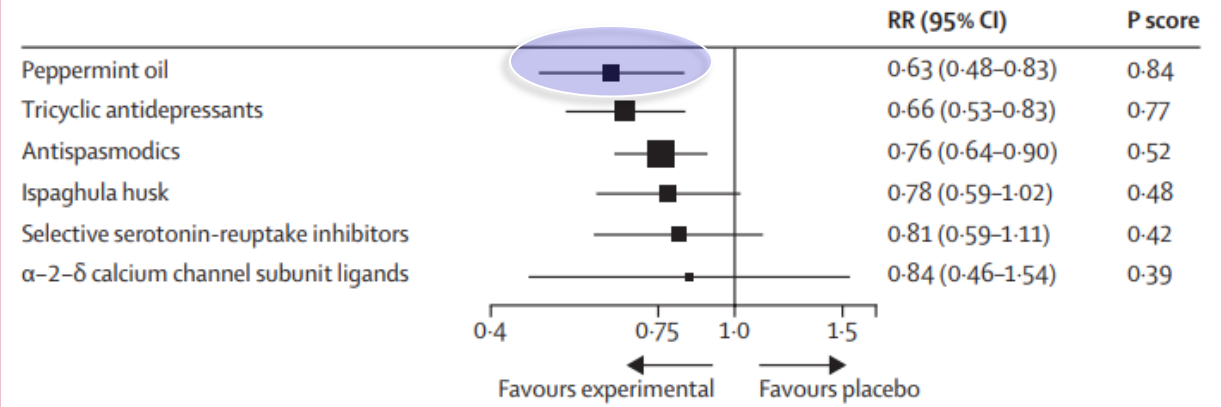
Peppermint oil	NA	NA	NA	NA	NA	0.63 (0.48-0.83)
0.95 (0.67-1.35)	Tricyclic antidepressants	1.26 (0.63-2.51)	1.07 (0.56-2.06)	0.09 (0.00-1.50)	NA	0.65 (0.51-0.81)
0.83 (0.60-1.15)	0.88 (0.66-1.16)	Antispasmodics	0.97 (0.58-1.63)	NA	NA	0.75 (0.63-0.90)
0.81 (0.55-1.19)	0.85 (0.61-1.20)	0.97 (0.71-1.33)	Ispaghula husk	NA	NA	0.77 (0.58-1.02)
0.78 (0.51-1.18)	0.82 (0.56-1.21)	0.94 (0.65-1.35)	0.96 (0.63-1.46)	Selective serotonin-reuptake inhibitors	NA	0.80 (0.58-1.10)
0.75 (0.39-1.45)	0.79 (0.41-1.50)	0.90 (0.48-1.69)	0.92 (0.48-1.79)	0.96 (0.49-1.90)	α-2-δ calcium channel subunit ligands	0.84 (0.46-1.54)
0.63 (0.48-0.83)	0.66 (0.53-0.83)	0.76 (0.64-0.90)	0.78 (0.59-1.02)	0.81 (0.59-1.11)	0.84 (0.46-1.54)	Placebo

Efficacy of soluble fibre, antispasmodic drugs, and gut-brain neuromodulators in irritable bowel syndrome: a systematic review and network meta-analysis

Christopher J Black, Yuhong Yuan, Christian P Selinger, Michael Camilleri, Eamonn M M Quigley, Paul Moayyedi, Alexander C Ford



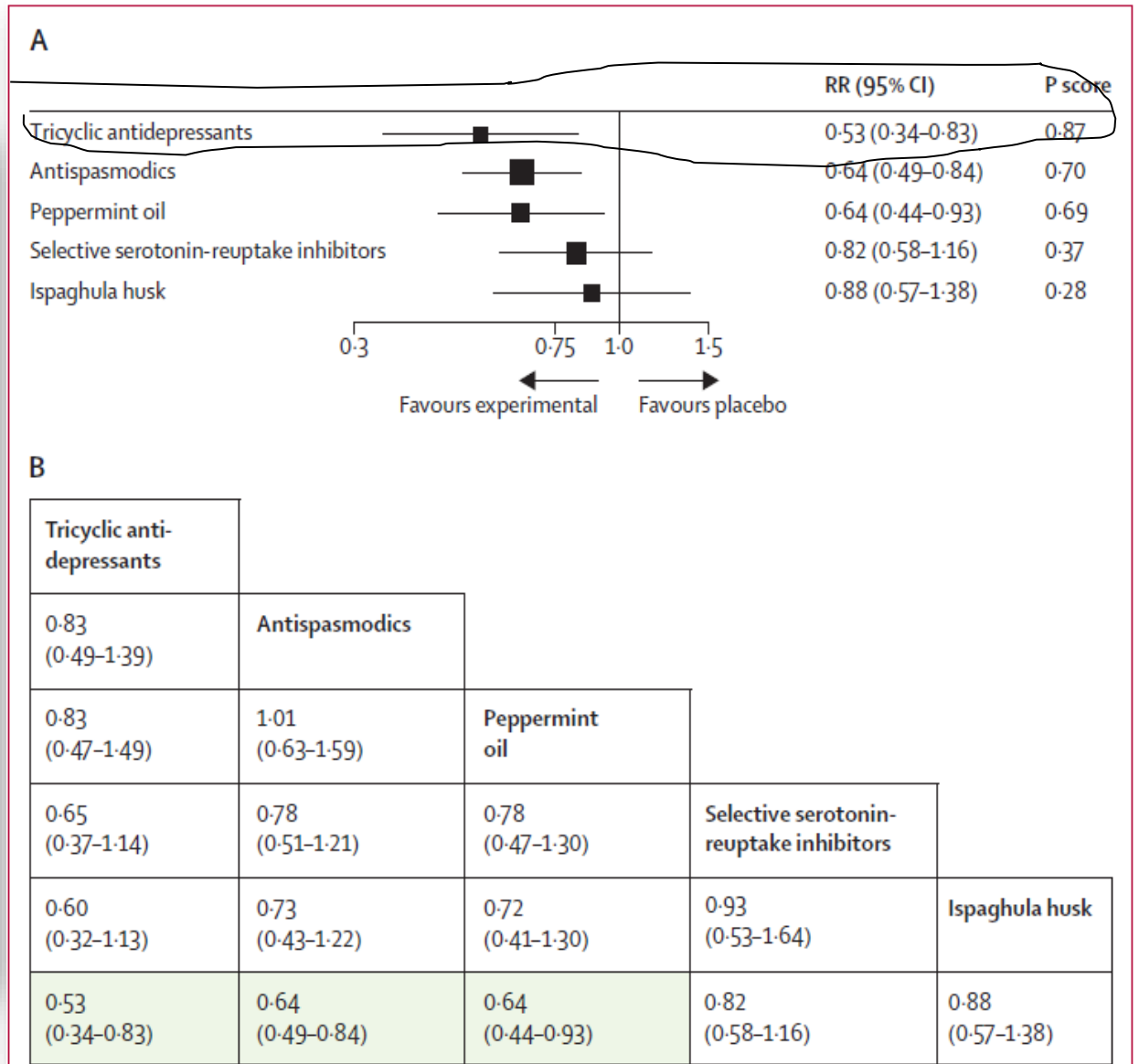
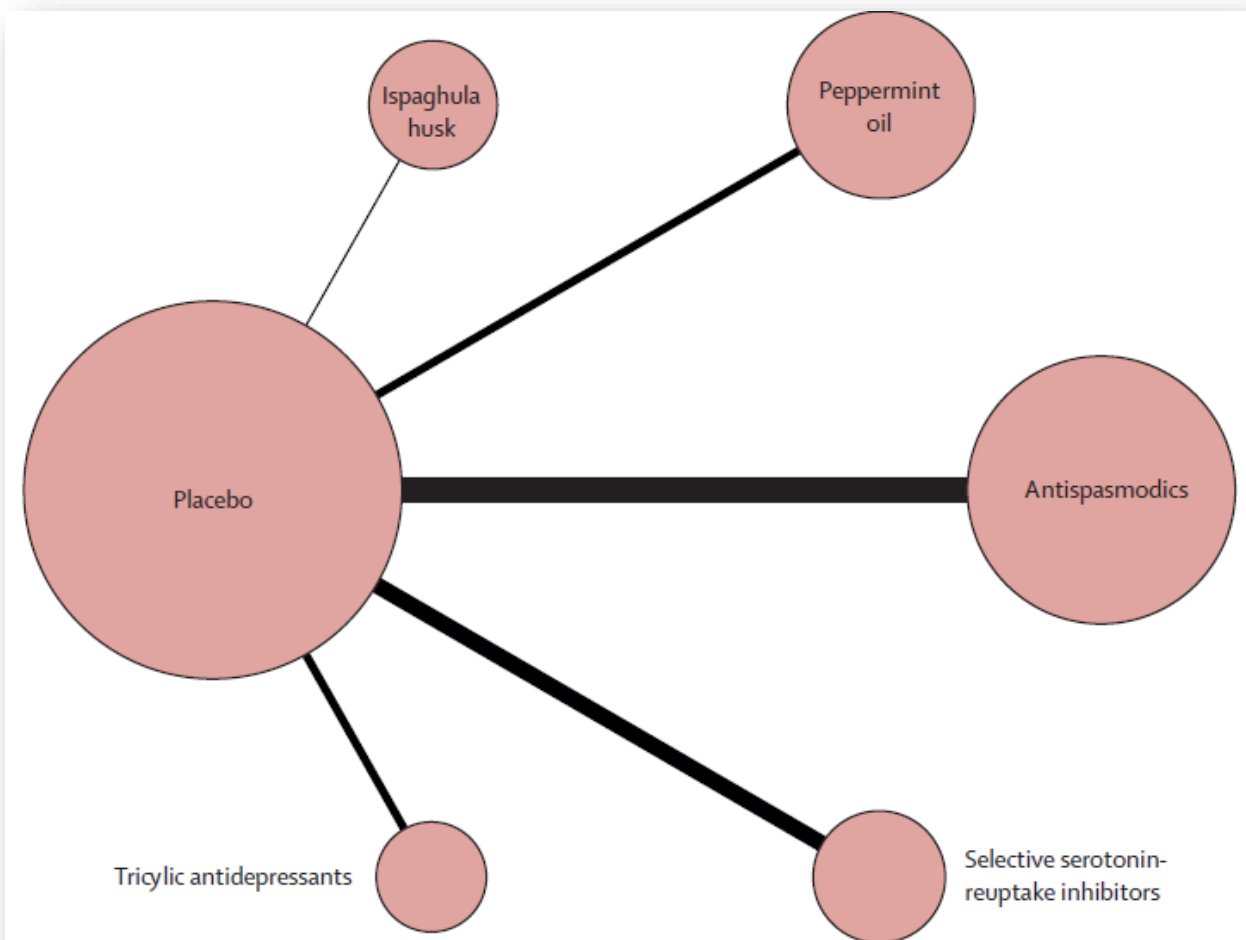
A Mejoría global 4-12 semanas



B

Peppermint oil	NA	NA	NA	NA	NA	0.63 (0.48-0.83)
0.95 (0.67-1.35)	Tricyclic antidepressants	1.26 (0.63-2.51)	1.07 (0.56-2.06)	0.09 (0.00-1.50)	NA	0.65 (0.51-0.81)
0.83 (0.60-1.15)	0.88 (0.66-1.16)	Antispasmodics	0.97 (0.58-1.63)	NA	NA	0.75 (0.63-0.90)
0.81 (0.55-1.19)	0.85 (0.61-1.20)	0.97 (0.71-1.33)	Ispaghula husk	NA	NA	0.77 (0.58-1.02)
0.78 (0.51-1.18)	0.82 (0.56-1.21)	0.94 (0.65-1.35)	0.96 (0.63-1.46)	Selective serotonin-reuptake inhibitors	NA	0.80 (0.58-1.10)
0.75 (0.39-1.45)	0.79 (0.41-1.50)	0.90 (0.48-1.69)	0.92 (0.48-1.79)	0.96 (0.49-1.90)	α-2-δ calcium channel subunit ligands	0.84 (0.46-1.54)
0.63 (0.48-0.83)	0.66 (0.53-0.83)	0.76 (0.64-0.90)	0.78 (0.59-1.02)	0.81 (0.59-1.11)	0.84 (0.46-1.54)	Placebo

SII- dolor



In summary, the results of this systematic review and network meta-analysis show that peppermint oil, TCAs, and antispasmodic drugs are more efficacious than placebo for improving both global IBS symptoms and abdominal pain in patients with IBS. Based on data from all RCTs included in our analysis, peppermint oil was ranked first for improving global IBS symptoms and TCAs were ranked first for improving abdominal pain. After restricting the analysis to RCTs done in western countries only, TCAs were ranked second to peppermint oil for improving abdominal pain. Out of all therapies analysed, only TCAs were significantly more likely to cause adverse events than placebo, a

**Dolor
Antidepresivos
Tricíclicos**

NNT 4

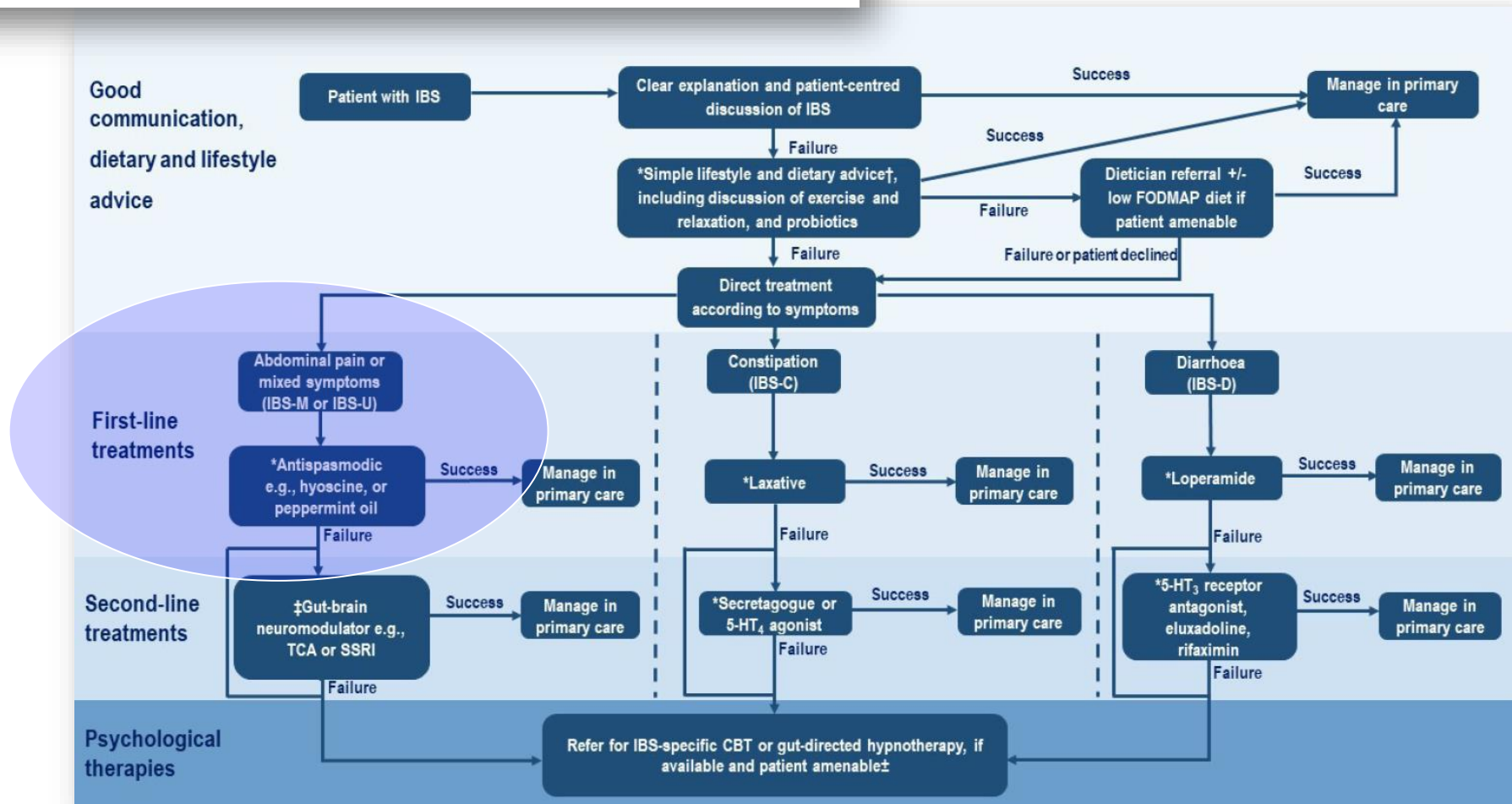
NNH 2

Stone J, BMJ 2002;325:1449-50

British Society of Gastroenterology guidelines on the management of irritable bowel syndrome

Dipesh H Vasant ^{1,2}, Peter A Paine,³ Christopher J Black ⁴,
 Lesley A Houghton ^{5,6}, Hazel A Everitt,⁷ Maura Corsetti,⁸ Anurag Agrawal,⁹
 Imran Aziz ¹⁰, Adam D Farmer,^{11,12} Maria P Eugenicos,¹³ Rona Moss-Morris,¹⁴
 Yan Yiannakou,¹⁵ Alexander C Ford ¹⁶

Vasant DH, Gut 2021;70:1214-1240



ACG Clinical Guideline: Management of Irritable Bowel Syndrome

Brian E. Lacy, PhD, MD, FACG¹, Mark Pimentel, MD, FACG², Darren M. Brenner, MD, FACG³, William D. Chey, MD, FACG⁴, Laurie A. Keefer, PhD⁵, Millie D. Long, MDMPH, FACG⁶ and Baha Moshiree, MD, MSc, FACG⁷

Recommendation

We suggest the use of peppermint to provide relief of global IBS symptoms.

Conditional recommendation; low quality of evidence.

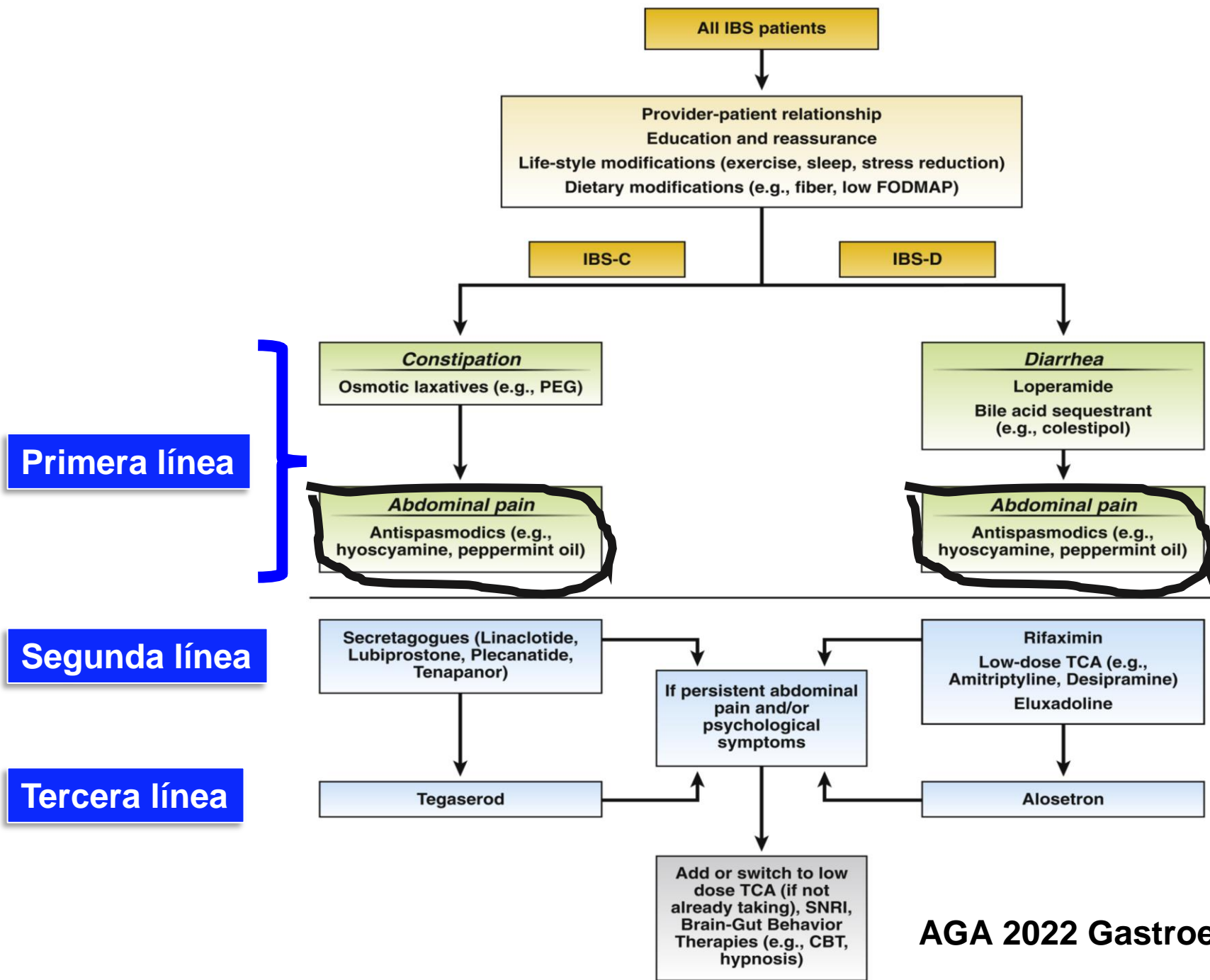
Lacy BE, Am J Gastroenterol. 2021;116:17-44.

Canadian Association of Gastroenterology Clinical Practice Guideline for the Management of Irritable Bowel Syndrome (IBS)

Paul Moayyedi MD¹, Christopher N. Andrews MD², Glenda MacQueen MD³, Christina Korownyk MD⁴, Megan Marsiglio MD⁵, Lesley Graff MD⁶, Brent Kvern MD⁷, Adriana Lazarescu MD⁸, Louis Liu MD⁹, William G. Paterson MD¹⁰, Sacha Sidani MD¹, Stephen Vanner MD¹⁰

Statement 16: We suggest offering IBS patients peppermint oil to improve IBS symptoms.

GRADE: Conditional recommendation, low-quality evidence. Vote: strongly agree, 17%; agree, 83%



Primera línea

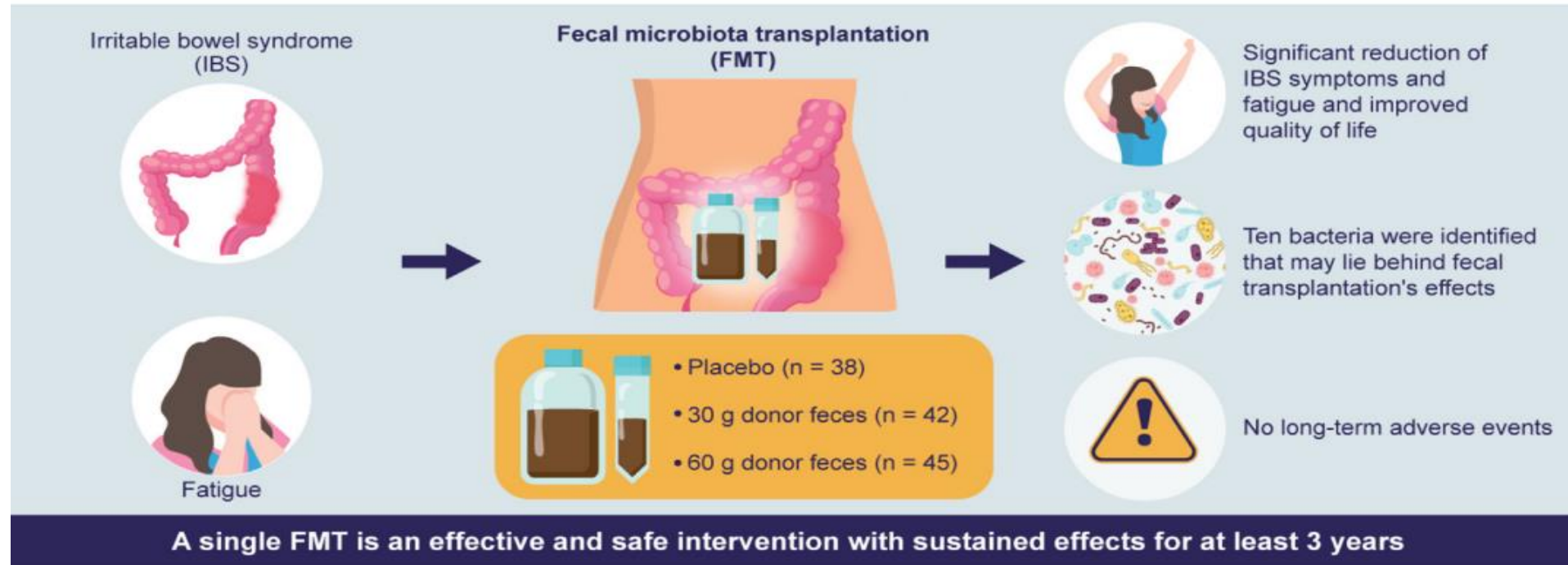
Segunda línea

Tercera línea

Efficacy of Fecal Microbiota Transplantation for Patients With Irritable Bowel Syndrome at 3 Years After Transplantation



Magdy El-Salhy,^{1,2} Renate Winkel,¹ Christina Casen,³ Trygve Hausken,^{2,4} Odd Helge Gilja,^{2,4} and Jan Gunnar Hatlebakk²



	Placebo	30 gr	60 gr
2 años	26%	69%	78%
3 años	27%	65%	72%

NNT 4-5

Mensajes para la casa

SII enfermedad orgánica

No es una enfermedad psicológica

Altera la calidad de vida

Diagnostico Roma IV VPP > 98%

Tratamiento depende del síntoma principal

Trasplante fecal es prometedor

Menta oleosa: Segura dolor, síntomas globales

Todo Claro al final de la consulta El paciente con SII está feliz







Este es el paciente con SII que ve el Ginecólogo y le ***llama dolor pelvico crónico***

Muchas gracias!

SI Tratamiento

