The Clinical Impact of Brain-Gut Psychotherapy on Psychological Symptoms for Patients with Complex Gastrointestinal Disorders: Outcomes in a Real-World Practice Setting

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Introduction

- Brain-gut psychotherapies, such as cognitive behavioral therapy (CBT) are increasingly recognized as important aspects of gastroenterology care.
- However, there are few studies conducted in realworld GI community practices.

Study Aim

 Describe clinical characteristics and outcomes of patients who underwent brain-gut psychotherapy in an ambulatory GI clinic.

Methods

- Retrospective demographic and patient-related characteristics for a subset of adult patients who completed treatment in a psychology clinic embedded into an outpatient GI clinic in a large, metropolitan community practice in Charlotte, NC.
 - N= 14
- Demographics were: Age, Gender, GI condition

Therapeutic Approach

- A Gi-focused CBT approach was utilized for all patients.
- For most patients, therapy was short-term (e.g., 4-7 sessions), but therapy timeframes varied.

Assessment Measurements

Measure	Purpose
Phq-9	Screening tool for depression
Range: 0-27, higher scores =	
more severe depression	
GAD-7	Screening tool for generalized
Range: 0-21, higher scores =	anxiety
more severe anxiety	
Phq-15	Screening tool for
Range: 0-30, higher scores =	somatization
greater levels of somatization	

Demographics and Clinical Characteristics

- Patients (*N*=14) were primarily female (88%) with a diverse age-range (19-89 years)
- Patients were referred for a range of complex gastrointestinal conditions'
- Abdominal pain
 Diarrhea
 Nausea
 Globus sensation
 Irritable bowel syndrome
 Functional dyspepsia
 Dyssnergic defecation
 Ulcerative colitis

Results

Measure	Baseline Number of patients (n)	Follow-up Number of patients (n)	Patient Change from Baseline to Follow-up
Phq-9	None to Minimal $n=5$ Mild $n=5$ Moderate $n=3$ Severe $n=1$	None to Minimal <i>n</i> =7 Mild <i>n</i> =6 Moderate <i>n</i> =0 Severe <i>n</i> = 1	All patients depressive symptoms improved or remained the same
GAD-7	None to Minimal n=3 Mild n=6 Moderate n=3 Severe n=2	None to Minimal $n=8$ Mild $n=4$ Moderate $n=1$ Severe $n=1$	Most patients anxiety symptoms improved or remained the same Two patients worsened, from minimal at baseline to mild at follow-up
Phq-15	None to Minimal <i>n</i> =0 Mild <i>n</i> =2 Moderate <i>n</i> =5 Severe <i>n</i> =7	None to Minimal $n=3$ Mild $n=3$ Moderate $n=5$ Severe $n=3$	All patients' somatization symptoms improved or remained the same

Discussion

- Brain-gut psychotherapy, particularly CBT, improved anxiety, depressive, and somatization symptoms in real-world practice.
- More effectiveness studies are warranted to confirm these findings.



