# Psychosocial Aspects of Chronic GI Illness

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#### **Disclosures**

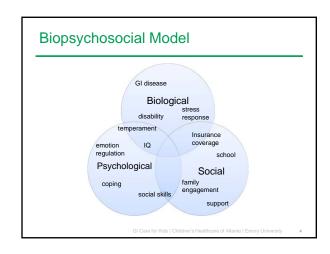
No conflicts of interest or disclosures

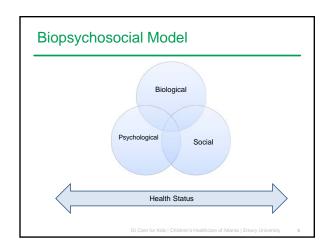
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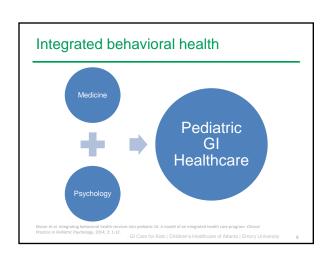
## **Learning Objectives**

- Describe the bidirectional nature of physical and psychological functioning in pediatric patients with chronic GI disorders.
- 2. List common areas of psychosocial concern across pediatric GI disorders.
- 3. Explain the value of incorporating psychosocial assessment and treatment into care for patients with chronic GI disorders.

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# Psychosocial Issues to acknowledge



"I'm right there in the room, and no one even acknowledges me."

## Psychosocial issues

Domain	GI group (n = 100)	HC matched group (n = 100)	F-value
Internalizing problems- BASC-P	55.48 (11.51)	46.29 (9.33)	1.86*
Adaptive Skills- BASC-P	48.75 (11.12)	52.32 (9.68)	2.19**
Somatization- BASC-P	60.96 (11.35)	47.49 (10.89)	3.81**
Social Skills- BASC-P	48.97 (10.30)	52.09 (9.67)	2.01*
Parent Depression- SCL-90-R	52.35 (10.29)	51.08 (8.65)	1.63*
Parent Phobic Anxiety- SCL-90-R	47.78 (7.09)	46.28 (5.25)	1.99**
Symptoms- SCL-90-R	51.18 (10.39)	49.30 (8.71)	1.29*
		* p < .05; ** p	0 < .01

## Psychosocial Issues

- Chronic GI Illnesses
  - Constipation & Encopresis
  - Abdominal Pain
  - Inflammatory bowel disease
- Mental Health Screening

#### Constipation & Encopresis

- Behavioral Treatment
  - 83% success at 3.5-5 years vs. 36-58% with medical management alone (McGrath, Mellon, & Murphy, 2000)
- Retentive
  - Anxiety specific to toileting
- Nonretentive
  - ADHD
  - Oppositionality
- Psychosocial Factors Contributing to Treatment Success

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**Abdominal Pain** 

- Impact on functioning
- What factors reinforce pain behaviors?
- What factors could we rely on to reinforce healthy behaviors?



- Functional Pain
  - Attentional bias towards pain (Compas & Boyer, 2001; Beck et al., 2011)
  - Coping
    - Self-isolation, behavioral disengagement, catastrophizing (van Tilburg et al., 2015)
  - Daily stress → somatic complaints (AAP, 2005)

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#### **Abdominal Pain** 80% 70% 60% 50% Shelby et al., 2013 40% 30% 20% Campo et al, 2004 10% 0% Lifetime Lifetime Anxiety Depression

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#### Inflammatory bowel disease

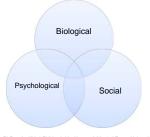
- Emotional functioning
  - Compared to healthy children:
    - More symptoms of anxiety/depression (internalizing symptoms)
      - Separately, symptom domains not higher
    - Higher risk for diagnosis of depression
      - Rates up to 25%
  - Adults
    - Higher risk for anxiety disorders (OR = 2.18)

### Inflammatory bowel disease

- Psychosocial functioning and adherence
  - Symptoms of depression, anxiety, and behavioral/emotional problems associated with worse
  - High depression/anxiety barriers predict much worse adherence

### Psychosocial functioning and IBD outcomes

- How do psychosocial factors relate to IBD outcomes?
  - Disease activity ratings
  - Relapse



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#### Psychosocial factors and IBD outcomes (adults) Outcome Psychosocial predictors Disease predictors Bernstein et al 2010 Major life stress, general stress, depressed mood, social support NSAIDs, antibiotics, infections (e.g., UTI, respiratory) Bitton et al 2008 eral stress,\* coping,\* overall psychological distress, CRP, ESR, IL1 $\beta$ , IL6, IL10, TNF $\alpha$ , baseline CDAI, medications, extraintestinal dz, relapse depression, anxiety resection, dz behavior, site, duration Langhorst et al 2013 Relapse General stress, depression Mucosal healing Mardini et al 2004 Disease activity Major life stress, depression, Mittermaier et al 2004 General stress, depression, anxiety, QOL Relapse CRP, ESR, CDAI/CAI, disease duration frequency Vidal et al 2006 Dx (UC vs CD), disease duration, medications, previous relapses Relapse Major life stress Disease activity Mackner, L. Psychosocial issues and health in pediatric IBD. Presented at Spring Improve Care Now Community Conference, 2015.

#### Psychosocial factors in pediatric outcomes

 Prospective study: QOL and healthcare utilization in the next 12 months

Ryan et al, 2013 Hospitalizations, ED visits, psych visits, QOL None		Outcomes	Psychosocial predictors	Disease predictors
phone contacts, Gl clinic visits, pain referral	Ryan et al, 2013	Hospitalizations, ED visits, psych visits, phone contacts, GI clinic visits, pain referral	QOL	None

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#### Psychosocial factors in pediatric outcomes

- Research like the adult research doesn't exist (yet)
- Several studies have investigated relationships between depression/anxiety and disease activity <u>at</u> one point in time
  - Most of these were not specifically focusing on these relationships
  - Very little research on stress

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## Psychosocial factors and IBD outcomes (kids)

	Psychosocial factors	Disease factors	
Clark et al 2014	Depression symptoms	PCDAI score, ESR	
Ondersma et al 1997	Negative mood	ESR, health care utilization, subjective healt	
Mackner et al 2005a	Overall behavioral/ emotional problems	PCDAI score, PCDAI severity category, dz location, symptoms, PGA at dx, family history, steroids, duration, diagnosis	
Mackner et al 2005b	Internalizing, externalizing, overall problems	PCDAI score	
Reigada et al 2015	Anxiety symptoms	HBI score, symptoms	
Srinath et al 2014*	Depression, anxiety	Abdominal pain	
Szigethy et al Depression symptoms		PCDAI score, PCDAI category, duration, age at diagnosis, steroids	

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# What to do? Mental health screening

- Goals
  - Identify patients at risk for clinically elevated symptoms
  - Provide forum for discussion of psychosocial issues
  - Track families over time for changes
  - Circumvent functionally incapacitating mental illness
    - Evidence of stability with time, not improvement
  - Incorporate PROs

Maddux, M. et al. (2013). Assessing psychosocial functioning among youth with newly diagnosed IBD: An interdisciplinary clinic approach. Clinical Practice in Pediatric Psychology, 1, 333-343.

Practice in Pediatric Psychology, 1, 333-343.

Reed-Knight et al. (2014) Stability of emotional and behavioral functioning in youth with IBD. Children's Health Care, 43, 151-168.

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# What to do? Mental health screening

- Mental health screening in pediatrics is effective
  - Without screening, rates of detection shown to range 17-50% (Wildman et al., 1999)
  - Screening effective at increasing detection and communication

Hayutin, Reed-Knight et al. (2009) Increasing parent-pediatrician communication about children's psychosocial problems . J of Pediatric Psychology, 34, 1155-1164

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# How to do it? Mental health screening

- Screening Considerations
  - Depth and Breadth
    - Depression and Anxiety
    - Broader emotional functioning
    - Psychosocial Issues for entire family system
  - Incorporation into clinical practice
    - Administration and Scoring, Frequency
  - Cost
  - Child vs. Parent-report
  - Disposition for Positive Screens

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## How to do it? Mental health screening

- Screening Options
  - Children's Depression Inventory, Beck Depression Inventory
  - BASC-2 (Behavior Assessment System for Children)
  - Pediatric Symptom Checklist (PSC-35 and PSC-17)
    - Brief, parent-completed checklist
    - Validated for use in pediatric GI
    - 3 Subscales
      - Internalizing (sad, spends time alone, afraid, trouble sleeping)
      - Externalizing (blames others, fights, irritable)
      - Attention (trouble concentrating, acts younger, school trouble)

http://www.massgeneral.org/psychiatry/services/psc\_home.aspx

Reed-Knight, et al. Factor structure of the Pediatric Symptom Checklist with a pediatric Gi sample. J Clin Psychol Med Settings. 2011; 18:299-206

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