

WILLIAM E WHITEHEAD, PH.D.

**Curriculum Vitae
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PERSONAL INFORMATION

Office Address University of North Carolina at Chapel Hill
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EDUCATION Ph.D., University of Chicago, 1973, Clinical Psychology
B.A., Arizona State University, 1967, English Literature

CERTIFICATION / LICENSURE

North Carolina License # 1959
Maryland Psychology License # 01540 (currently inactive)

PROFESSIONAL SOCIETIES

Fellow, American Gastroenterological Association
Master, American College of Gastroenterology
Executive Board, Rome Foundation, 1996-present
American Neurogastroenterology & Motility Society

EMPLOYMENT HISTORY

1993-present Professor of Medicine, The University of North Carolina at Chapel Hill. Chief of Division of Digestive Diseases, Robert Sandler, MD. MPH; Chief of Medicine, Ron Falk, MD, PhD

2006-present Adjunct Professor of Obstetrics and Gynecology. Chair of OBGYN, Daniel Clarke-Pearson, MD; Chief of Urogynecology and Reconstructive Surgery, Samantha J. Pulliam, MD.

1994-present Co-founder and director of the UNC Center for Functional Gastrointestinal and Motility Disorders.

2008-present Member, Center for Pain Research and Innovation, University of North Carolina at Chapel Hill. The CPRI is directed by Gary Slade, DO

1990-93 Professor of Medical Psychology, Departments of Psychiatry and Medicine, The Johns Hopkins University School of Medicine. Chairman of Psychiatry, Paul McHugh, MD; Research laboratory in Division of Digestive Diseases at Bayview Medical Center; Chief, Marvin M. Schuster, MD.

- 1982-90 Associate Professor of Medical Psychology, Department of Psychiatry, The Johns Hopkins University School of Medicine. Chairman, Paul McHugh, MD. Research laboratory in Division of Digestive Diseases at Bayview Medical Center; Chief, Marvin M. Schuster, MD.
- 1979-82 Assistant Professor of Medical Psychology, Department of Psychiatry, Johns Hopkins University School of Medicine. Chairman, Paul McHugh, MD. Research laboratory in Division of Digestive Diseases at Bayview Medical Center; Chief, Marvin M. Schuster, MD.
- 1979-88 Research Associate, Department of Behavioral Psychology, John F. Kennedy Institute for Handicapped Children. Chief, Michael Cataldo, PhD.
- 1977-93 Guest Worker, Gerontology Research Center, National Institute on Aging, Baltimore. Laboratory Chief, Bernard Engel, PhD.
- 1977-79 Associate Professor of Psychology, Departments of Psychiatry and Physical Medicine and Rehabilitation, University of Cincinnati College of Medicine. Chairman of Psychiatry, Donald Langsley, MD.; chief of PM&R, Randall Braddom, MD.
- 1976-77 Assistant Professor of Psychology, Department of Physical Medicine and Rehabilitation (25% FTE), University of Cincinnati College of Medicine,. Chief, Randall Braddom, MD.
- 1973-77 Assistant Professor of Psychology, Department of Psychiatry, University of Cincinnati College of Medicine. 75% FTE from 1976. Chairman, Robert Daniels, MD., 1973-76; followed by Donald Langsley, MD., 1976-77.
- 1970-73 Graduate student, University of Chicago. Training in behavior modification for clinical practice and work on dissertation under Professor Israel Goldiamond, PhD.
- 1968-70 Research assistant, University of Chicago. Research on physiology and response characteristics of sleep. Supervisor, Professor Allen Rechtschaffen, PhD.
- 1967-68 Graduate student, University of Chicago. Mentored research on the physiology of sleep supervised by Professor James Appel, PhD, and Allen Rechtschaffen, PhD; and research on gastric acid secretion mentored by: Israel Goldiamond, PhD, and Pierre Renault, MD.

AWARDS

- 2011 - present Master, American College of Gastroenterology.
- 2006 - present Fellow of the American Gastroenterological Association.
- 2006 - 2011 Fellow, American College of Gastroenterology.
- 2004 Janssen Award for Clinical Research.
- 2003 International Foundation for Functional Gastrointestinal Disorders 1st Annual Award for Research Excellence awarded to a senior clinical investigator.

BOOKS, BOOK CHAPTERS, FILM

1. Whitehead WE, Palsson OS, van Tilburg MML, and the working team. Development and Validation of the Rome IV Diagnostic Questionnaires. Chapter 18; Pp 1445 – 1495. In Drossman DA, Chang L, Chey WD, Kellow J, Tack J, and Whitehead WE (Eds.). Rome IV: Functional Gastrointestinal Disorders; Disorders of Gut-Brain Interaction. Rome Foundation, Raleigh, NC, 2016.
2. Whitehead WE, Palsson OS, van Tilburg MML, and the working team. Rome IV Diagnostic Questionnaires, Appendices C-F; Pp 1597 – 1699. In Drossman DA, Chang L, Chey WD, Kellow J, Tack J, and Whitehead WE (Eds.). Rome IV: Functional Gastrointestinal Disorders; Disorders of Gut-Brain Interaction. Rome Foundation, Raleigh, NC, 2016.
3. Whitehead WE; Editor. Diagnostic Questionnaires and Tables for Investigators and Clinicians. Pp 1 – 256. In Drossman DA, Chang L, Chey WD, Kellow J, Tack J, and Whitehead WE (Eds.). A Rome IV Book. Rome Foundation, Raleigh, NC, 2016.
4. Simren M, **Whitehead WE**. Síndrome del intestino irritable. Alteraciones sensitivomotoras digestivas en el síndrome del intestino irritable. Chapter 4. June
5. **Whitehead WE**, Palsson OS. Behavioral treatment of fecal incontinence. In: David Mostofsky (Ed): Handbook of Behavioral Medicine. Chapter 39, Elsevier, 2015.
6. **Whitehead WE**, Heymen S, Chiarioni G. Fecal Incontinence (Chapter 21). In Rao SSC, Parkman HP, and McCallum RW (Eds): Handbook of Gastrointestinal Motility and Functional Gi Disorders. Slack Inc., Thorofare, NJ 2015.
7. Dunivan G, **Whitehead W**. Defecatory dysfunction. In: Rogers RG, Sung VW, Iglesia CB, Thaker R(Eds): Female Pelvic Medicine and Reconstructive Surgery – Clinical practice and surgical atlas. McGraw Hill, New York, 2013. Chapter 10, pgs 173-190.
8. Bliss DZ, Mellgren A, **Whitehead WE**, Chiarioni G, Emmanuel A, Santoro GA, Zbar A, Peden-McAlpine C, Northwood M, Slieker-ten Hove M, Berghmans B, Mimura T. Assessment and conservative management of faecal incontinence and quality of life in adults. In: Abrams P, Cardozo L, Khoury S, Wein A (Eds): Incontinence: 5th International Consultation on Incontinence, Paris February, 2012. (5th Edition). ICUD-EAU, Arnhem, The Netherlands, 2013. Chapter 16, pgs 1443-1485.
9. Chiarioni G, **Whitehead WE**. Biofeedback therapy for constipation. In: Parkman H, Rao SSC (Eds): Handbook of Gastrointestinal Motility Disorders, 2011. SLACK Inc, Thorofare, NJ, Chapter 19, pgs 179-87.
10. Drossman DA, **Whitehead WE**. Mind-body medicine in digestive disease. Integrative Gastroenterology. New York, NY: Oxford University Press, Inc. 00 337-348, 2011.
11. **Whitehead WE**. Constipation. Contribution to Pocket Diagnosis in Internal Medicine. Mark C. Mitchell, M.D., Editor, 2009.
12. Norton C, **Whitehead W**, Bliss DZ, Harari D, Lang J. Conservative and pharmacological management of faecal incontinence in adults. In: Abrams P, Cardozo L, Khoury S, Wein A (Eds): Incontinence: 4th International Consultation on Incontinence, Paris July 5-8, 2008. (4th Edition). Health Publication Ltd, Paris, 2009. Chapter 16, pgs 1321-86.

13. **Whitehead WE**, Thompson WG, Palsson OS, Thiwan S, Talley N, Chey W, Irvine EJ, Drossman DA, Walker L. Development and validation of the Rome III Diagnostic Questionnaire (Chapter 16). In: Drossman DA, Corazziari, Delvaux M, Spiller R, Talley NJ, Thompson WG, and **Whitehead WE** (Eds), Rome III: The Functional Gastrointestinal Disorders. Degnon Associates, McLean, Virginia, 2006. Pp 835-853.
14. Irvine EJ, **Whitehead W**, Chey WD, Matsueda K, Shaw M, Talley NJ, Van Zanten SJOV. Design of treatment trials for functional gastrointestinal disorders (Chapter 15). In: Drossman DA, Corazziari, Delvaux M, Spiller R, Talley NJ, Thompson WG, and **Whitehead WE** (Eds), Rome III: The Functional Gastrointestinal Disorders. Degnon Associates, McLean, Virginia, 2006.
15. Drossman DA, Corazziari, Delvaux M, Spiller R, Talley NJ, Thompson WG, **Whitehead WE** (Eds), Rome III: The Functional Gastrointestinal Disorders. Degnon Associates, McLean, Virginia, 2006.
16. **Whitehead WE**. Medical and behavioral treatment of fecal incontinence. In: Becker H-D, Stenzl A, Wallwiener D, Zittel TT (Eds), Urinary and Fecal Incontinence: An Interdisciplinary Approach. Berlin, Springer-Verlag, 2005. Pp 199-210.
17. **Whitehead WE**. Gastrointestinal motility and visceral pain in the functional gastrointestinal disorders. In: WA Wang (Ed), Functional Gastrointestinal Disorders. London, DC Decker, 2005.
18. Norton C, **Whitehead WE**, Bliss DZ, Metsola P, Tries J. Chapter 24: Conservative and pharmacological management of faecal incontinence in adults. In Abrams P, Cardozo L, Khoury S, Wein A (Eds), Incontinence, volume 2, Management. 3rd International Consultation on Incontinence June 26-29, 2004. Health Publications Ltd, Editions 21, Paris, 2005. Pp 1521-1563.
19. **Whitehead WE**. Fecal incontinence. In: Johnson LR (Ed), Encyclopedia of Gastroenterology; St Louis, MO, Elsevier, 2003.
20. Jones KR, Heymen S, **Whitehead WE**. Biofeedback for Anorectal Disorders. In: Drutz HP, Herschorn S, Diamant NE (Eds), Female Pelvic Medicine and Reconstructive Pelvic Surgery. London, Springer-Verlag, 2003. Pp 313-325.
21. **Whitehead WE**, Wald A, Diamant NE, Enck P, Pemberton JH, Rao SSC. Functional disorders of the anus and rectum. In: Drossman DA, Corazziari E, Talley NJ, Thompson WG, **Whitehead WE** (Eds), Rome II: The Functional Gastrointestinal Disorders, 2nd Edition. McLean, VA, Degnon Associates, 2000. Pp 483-532.
22. **Whitehead WE**, Corazziari E, Prizont R, Senior JR, Thompson WG, van Zanten SJOV. Definition of a responder in clinical trials for functional gastrointestinal disorders: Report on a symposium. In: Drossman DA, Corazziari E, Talley NJ, Thompson WG, **Whitehead WE** (Eds), Rome II: The Functional Gastrointestinal Disorders, 2nd Edition. McLean, VA, Degnon Associates, 2000. Pp 623-627.
23. Drossman DA, Creed FH, Olden KW, Svedlund J, Toner BB, **Whitehead WE**. Psychosocial aspects of functional gastrointestinal disorders. In: Drossman DA, Corazziari E, Talley NJ, Thompson WG, **Whitehead WE** (Eds), Rome II: The Functional Gastrointestinal Disorders, 2nd Edition. McLean, VA, Degnon Associates, 2000. Pp 157-245.

24. Drossman DA, Corazziari E, Talley NJ, Thompson WG, **Whitehead WE** (Eds), Rome II: The Functional Gastrointestinal Disorders, 2nd Edition. McLean, VA, Degnon Associates, 2000.
25. **Whitehead WE**. Alterations of defecatory behavior attributable to psychosocial and environmental mechanisms. In: Corazziari E (Ed), Approach to the patient with chronic gastrointestinal disorders. Messaggi, Milano, Italy, 1999. Pp 81-93.
26. **Whitehead WE**. Irritable bowel syndrome and functional bowel disorders. A.E. Kazdin (Ed), Encyclopedia of Psychology, APA Books, American Psychological Association, Washington, D.C., 1999.
27. **Whitehead WE**. Is a history of abuse linked to the etiology and course of functional dyspepsia and irritable bowel syndrome? No. In: Holtmann G, Goeball H. (Eds.), Functional dyspepsia and irritable bowel syndrome: New concepts and controversies. Falk Symposium No. 99, 1998, pp190-197.
28. **Whitehead WE**. Gastrointestinal physiology. In Blechman EA, Brownell KD (Eds), Behavioral Medicine Women: A Comprehensive Handbook. New York, Guilford, 1998. Pp. 639-645.
29. **Whitehead WE**. Gastrointestinal disorders. In Blechman EA, Brownell KD (Eds), Behavioral Medicine Women: A Comprehensive Handbook. New York, Guilford, 1998. Pp. 646-653.
30. **Whitehead WE**. Psychosocial aspects of functional GI disorders. In P. Denis (Ed), Clinical implications of Irritable Bowel Syndrome. Berlin, Walter de Gruyter, 1997. Pp. 3-16.
31. **Whitehead WE**. Gastrointestinal disorders (Chapter 23). In JF Steege, DA Metzger, B Levy (Eds), Chronic Pelvic Pain. Philadelphia, W.B. Saunders, 1997. Pp. 205-214.
32. **Whitehead WE**. Functional anorectal disorders (Chapter 4, annotated slide set). In DA Drossman and N Norton (Eds), IBS Initiative Slide Program. Milwaukee, International Foundation for Functional Gastrointestinal Disorders, 1997.
33. **Whitehead WE**. Functional bowel disorders: are they independent diagnoses? In E Corazziari (Ed), Neurogastroenterology. New York, Walter de Gruyter, 1996. Pp 65-74.
34. Davidoff AL, **Whitehead WE**. Biofeedback, relaxation training, and cognitive behavior modification treatments for functional gastrointestinal disorders. In: KW Olden (Ed). Handbook of functional gastrointestinal disorders: A behavioral approach. New York: Marcel Dekker, Inc., 1996. Pp 361-384.
35. **Whitehead WE**. Stress management in patients with functional disorders. In : TM Bayless (Ed). Current therapy in gastroenterology and liver disease, fourth edition. St. Louis: Mosby, 1994. Pp 209-13.
36. **Whitehead WE**. Illness behaviour (psychological factors in constipation). In: Kamm MA, Lennard-Jones JE (Eds), Constipation. Petersfield, UK: Wrightson Biomedical Publishing Ltd, 1994. Pp 95-100.
37. **Whitehead WE**, Devroede G, Habib I, Meunier P, Wald A. Functional disorders of the anus and rectum. In: Drossman DA, Richter JE, Talley NJ, Thompson WG, Corazziari, **Whitehead WE** (Eds), The functional gastrointestinal disorders. Boston: Little Brown, 1994. Pp. 217-263.

38. Drossman DA, Richter JE, Talley NJ, Thompson WG, Corazziari E, **Whitehead WE** (Eds). The functional gastrointestinal disorders. Boston, Little Brown, 1994. 370 pages.
39. Crowell MD **Whitehead WE**. Advances in gastrointestinal psychophysiology: Prolonged ambulatory monitoring from the gastrointestinal tract. In Jennings J, Ackles P, Coles M (Eds), Advances in psychophysiology (Vol 5) JAI Press, Inc. Greenwich, Connecticut, 1994. Pp. 193-227.
40. **Whitehead WE**. Psychophysiology of irritable bowel syndrome. In EA Mayer H Raybould (Eds.), Basic and clinical aspects of chronic abdominal pain, Vol 9 of Pain research and clinical management. Amsterdam, Elsevier Science Publishers, 1993. Pp 239-47.
41. **Whitehead WE**. Gut feelings: Stress and the GI tract. In Goleman D Gurin J (Eds), Mind/Body Medicine: How to use your mind for better health. Yonkers, NY, Consumer Union of United States, 1993. Pp. 161-175.
42. **Whitehead WE**, Thompson WG. Motility as a therapeutic modality: Biofeedback. In MM Schuster (Ed), Atlas of gastrointestinal motility in health and disease. In Baltimore, Williams Wilkins, 1993. Pp 300-316.
43. **Whitehead WE** Schuster MM. Irritable bowel syndrome. In Winawer SJ (Ed), Management of gastrointestinal diseases, Vol.2. New York, Gower Medical Publishing, 1992. Pp. 32.1-32.25.
44. **Whitehead WE**. Effects of psychological factors on gastrointestinal function. In: Snape W (Ed.), Pathogenesis of Functional Bowel Disease, New York, Plenum Press, 1989. Pp 37-54.
45. **Whitehead WE**, Enck P, Anthony JC, Schuster MM. Psychopathology in patients with irritable bowel syndrome. In Singer MV, Goebell H (Eds.), Nerves and the Gastrointestinal Tract, New York, Academic Press, 1989. Pp 465-476.
46. **Whitehead WE**. Perception of gastrointestinal events. In Hellhamer D, Florin I, Weiner H (Eds.), Neurological Approaches to Human Disease. Toronto, Hans Huber, 1988. Pp 118-136.
47. **Whitehead WE** Schuster MM. The irritable bowel, stress, and the colon. In Kirsner JB and Shorter RG (Eds.). Diseases of the Colon, Rectum, and Anal Canal. Baltimore, Williams and Wilkins, 1988. Pp 507-517.
48. Shabsin HS **Whitehead WE**. Psychophysiological disorders of the gastrointestinal tract. In Linden W (Ed.), Biological Barriers in Behavioral Medicine. New York, Plenum, 1988. Pp 193-220.
49. Enck P **Whitehead WE**. Gastrointestinal disorders. In: Blechman EA Brownell KD (Eds.). Handbook of Behavioral Medicine for Women. New York, Pergamon Press, 1988. Pp 178-194.
50. **Whitehead WE**. Gastrointestinal motility disorders -- the psychologist's perspective. In: Champion MC and McCallum RW (Eds.), Physiology, Diagnosis and Therapy in GI Motility Disorders. Toronto, Medicine Publishing Foundation, 1987. Pp 109-122.
51. **Whitehead WE**. Behavioral medicine treatment of diabetic fecal incontinence. In: F Strian, R Holzl, M Haslbeck (Eds.), Verhaltensmedizin und Diabetes Mellitus. Spring-Verlag, Berlin, 1987. Pp 429-440.

52. **Whitehead WE** Schuster MM. Biofeedback in the treatment of gastrointestinal disorders. In: Hatch JP, Fisher JG, Rugh JD (Eds.), *Biofeedback Studies in Clinical Efficacy*. Plenum Press, New York, 1987. Pp. 179-203.
53. **Whitehead WE**. Bowel management in children with spina bifida. In: McLaurin R McLone DG (Eds.), *Multi-disciplinary approach: Second Symposium on Spina Bifida*. Praeger, New York, 1986.
54. **Whitehead WE**. Psychophysiology of irritable bowel syndrome. In: Katkin E. (Ed.), *Advances in Behavioral Medicine*, vol. 2. Greenwich, CT, JAI Press, 1986. Pp. 1-20.
55. **Whitehead WE**. Pediatric gastrointestinal disorders. In: Krasnegor NA Cataldo MF (Eds.), *Child Health Behavior: Research and Priorities in Behavioral Medicine*. New York, John Wiley Sons, Inc., 1986. Pp. 340-354.
56. **Whitehead WE**. Gastrointestinal disorders. In: Holroyd KA Creer TL (Eds.), *Self-management of Chronic Disease*. New York, Academic Press, 1986. Pp. 503-539.
57. **Whitehead WE** Schuster MM. *Gastrointestinal Disorders: Behavioral and Physiological Basis for Treatment* (book). New York, Academic Press, 1985.
58. **Whitehead WE**. Psychotherapy and biofeedback in the treatment of irritable bowel syndrome. In: Read N. (Ed.), *The Irritable Bowel Syndrome*. London, Grune Stratton, 1984. Pp.245-256.
59. **Whitehead WE**, Burgio K, Engel BT. Biofeedback training for fecal incontinence in geriatric patients. Videotape for professional training made by the Office of Public Information of the National Institute on Aging, 1984.
60. **Whitehead WE**, Burgio K, Engel BT. Behavioral methods in the assessment and treatment of urinary incontinence. In: Brocklehurst JC (Ed.), *Urology in Old Age*. London, Churchill Livingstone, 1984. Pp 74-92.
61. Williams TF, Engel BT, **Whitehead WE**, Burgio K. Behavioral treatment of urinary incontinence: Biofeedback of the bladder and sphincter muscles. Videotape for professional training made by the Office of Public Information of the National Institute on Aging, 1983.
62. **Whitehead WE**. Manometric and electromyographic techniques for assessment of the anorectal mechanism for continence and defecation. In: Hoelzl R, **Whitehead WE** (Eds.), *Psychophysiology of the Gastrointestinal Tract: Experimental and Clinical Applications*. New York, Plenum, 1983. Pp 311-329.
63. **Whitehead WE**. Interception: Awareness of sensations arising in the gastrointestinal tract. In: Hoelzl R, Whitehead E (Eds.), *Psychophysiology of the Gastrointestinal Tract: Experimental and Clinical Applications*. New York, Plenum, 1983. Pp 333-350.
64. Hoelzl R **Whitehead WE** (Eds.), *Psychophysiology of the Gastrointestinal Tract: Experimental and Clinical Applications*. New York, Plenum, 1983.
65. **Whitehead WE** Schuster MM. Functional gastrointestinal disorders. In: Gallon RL (Ed.), *The Psychosomatic Approach to Illness*. New York, Elsevier Biomedical, 1982.

66. Parker L **Whitehead WE**. Treatment of urinary and fecal incontinence in children. In: Russo D, Varni J (Eds.), Behavioral Pediatrics: Research and Practice. New York, Plenum, 1982. Pp 143-174.
67. **Whitehead WE** Schuster MM. Therapeutic applications of biofeedback in digestive diseases. In: Berk JE (Ed.), Developments in Digestive Disease, Vol. 3. Washington Square, Pennsylvania, Lea Febiger, 1980. Pp 165-177.
68. **Whitehead WE**, Fedoravicious AS, Blackwell B, Wooley S. Psychosomatic symptoms as learned responses. In: McNamara JR (Ed.), Behavioral Approaches in Medicine: Application and Analysis. New York, Plenum, 1979. Pp 65-99.
69. **Whitehead WE** Blackwell B. Interactions between drugs and behavior therapy. In: McNamara JR (Ed.), Behavioral Approaches in Medicine: Application and Analysis. New York, Plenum, 1979. Pp 157-189.
70. Blackwell B **Whitehead WE**. Behavioral evaluation of anti-anxiety drugs. In: Sudilovsky A, Gerson S, Beer B (Eds.), Predictability in Psychopharmacology--Preclinical and Clinical Correlations. New York, Raven Press, 1975. Pp 121-141.
71. Rechtschaffen A, Lovel R, Freedman DX, **Whitehead WE**, Aldrich M. The effects of paracholorphenylalanine on sleep in the rat: Some implications for the serotonin-sleep hypothesis. In: Barchas J, Usdin E (Eds.), Serotonin and Behavior. New York, Academic Press, 1973.

PUBLICATIONS IN PEER-REVIEWED JOURNALS

1. Siah KTH, Gong X, Yang XJ, **Whitehead WE**, Chen M, Hou X, Pratap N, Ghoshal UC, Syam AF, Abdullah M, Choi MG, Bak YT, Lu CL, Gonlachanvit S, Boon CS, Fang F, Cheong PK, Wu JCY, Gwee KA. Rome Foundation-Asian working team report: Asian functional gastrointestinal disorder symptom clusters. Gut. 2017 Jun 7. pii: gutjnl-2016-312852. doi: 10.1136. PMID: 28592440
2. Staller K, Townsend MK, Khalili H, Mehta R, Grodstein F, **Whitehead WE**, Matthews CA, Kuo B, Chan AT. Menopausal Hormone Therapy Is Associated With Increased Risk of Fecal Incontinence in Women After Menopause. Gastroenterology. 2017 Jun;152(8):1915-1921.e1. doi: 10.1053. PMID: 28209529
3. Sperber AD, Dumitrascu D, Fukudo S, Gerson C, Ghoshal UC, Gwee KA, Hungin AP, Kang JY, Minhu C, Schmulson M, Bolotin A, Friger M, Freud T, **Whitehead W**. The global prevalence of IBS in adults remains elusive due to the heterogeneity of studies: a Rome Foundation working team literature review. Gut. 2017 Jun; 66(6): 1075-82.. doi: 10.1136/gutjnl-2015-311240. PMID:26818616.
4. van Tilburg MAL, Claar RL, Romano JM, Langer SL, Drossman DA, **Whitehead WE**, Abdullah B, Levy RL. Psychological Factors May Play an Important Role in Pediatric Crohn's Disease Symptoms and Disability. J Pediatr. 2017 May;184:94-100.e1. doi: 10.1016. PMID: 28238483
5. Simren M, Palsson OS, **Whitehead WE**. Update on Rome IV Criteria for Colorectal Disorders: Implications for Clinical Practice. Curr Gastroenterol Rep. 2017 Apr;19(4):15. doi: 10.1007. PMID: 28374308

6. Whitehead WE, Palsson OS, Simrén M. Irritable bowel syndrome: what do the new Rome IV diagnostic guidelines mean for patient management? *Expert Rev Gastroenterol Hepatol.* 2017 Apr;11(4):281-283. doi: 10.1080. PMID: 28276814
7. Levy RL, Langer SL, van Tilburg MA, Romano JM, Murphy TB, Walker LS, Mancl LA, Claar RL, DuPen MM, **Whitehead WE**, Abdullah B, Swanson KS, Baker MD, Stoner SA, Christie DL, Feld AD. Brief telephone-delivered cognitive-behavioral therapy targeted to parents of children with functional abdominal pain: a randomized controlled trial. *Pain.* 2017 Apr;158(4):618-628. doi: 10.1097 PMID: 28009631
8. Simrén M, Törnblom H, Palsson OS, **Whitehead WE**. Management of the multiple symptoms of irritable bowel syndrome. *Lancet Gastroenterol Hepatol.* 2017 Feb;2(2):112-122. doi: 10.1016. PMID: 28403981
9. Simrén M, Törnblom H, Palsson OS, van Tilburg MA, Van Oudenhove L, Tack J, **Whitehead WE**. Visceral hypersensitivity is associated with GI symptom severity in functional GI disorders: consistent findings from five different patient cohorts. *Gut.* 2017 Jan 19. doi: 10.1136. PMID:28104632
10. Xiong L, Gong X, Siah KT, Pratap N, Ghoshal UC, Abdullah M, Syam AF, Bak YT, Choi MG, Lu CL, Gonlachanvit S, Chua AS, Chong KM, Ricaforte-Campos JD, Shi Q, Hou X, **Whitehead WE**, Gwee KA, Chen M. Rome Foundation Asian Working Team Report: Real world treatment experience of Asian patients with Functional Bowel Disorders. *J Gastroenterol Hepatol.* 2017 Jan 13. Epub ahead of print PMID:28084664
11. Lewis ML, Palsson OS, **Whitehead WE**, van Tilburg MA. Prevalence of Functional Gastrointestinal Disorders in Children and Adolescents. *J Pediatr.* 2016 Oct;177:39-43.e3. doi: 10.1016/j.jpeds.2016.04.008. PMID: 27156185
12. Levy RL, van Tilburg MA, Langer SL, Romano JM, Walker LS, Mancl LA, Murphy TB, Claar RL, Feld SI, Christie DL, Abdullah B, DuPen MM, Swanson KS, Baker MD, Stoner SA, **Whitehead WE**. Effects of a Cognitive Behavioral Therapy Intervention Trial to Improve Disease Outcomes in Children with Inflammatory Bowel Disease. *Inflamm Bowel Dis.* 2016 Sep;22(9):2134-48. PMID: 27542131
13. Irvine EJ, Tack J, Crowell MD, Gwee KA, Ke M, Schmulson MJ, **Whitehead WE**, Spiegel B. Design of Treatment Trials for Functional Gastrointestinal Disorders. *Gastroenterology.* 2016 May;150(6):1469-1480.e1. doi: 10.1053/j.gastro.2016.02.010. PMID: 27147123
14. Rahman MM, Ghoshal UC, Rowshon AH, Ahmed F, Kibria MG, Hasan M, Gwee KA, **Whitehead WE**. Translation and Validation of Enhanced Asian Rome III Questionnaires in Bengali Language for Diagnosis of Functional Gastrointestinal Disorders. *J Neurogastroenterol Motil.* 2016 Apr 30;22(2):240-7. doi: 10.5056/jnm15129. PMID: 26690730
15. Siah KT, Wong RK, **Whitehead WE**. Chronic Constipation and Constipation-Predominant IBS: Separate and Distinct Disorders or a Spectrum of Disease? *Gastroenterol Hepatol (N Y).* 2016 Mar;12(3):171-8. PMID: 27231446
16. Palsson OS, **Whitehead WE**, van Tilburg MA, Chang L, Chey W, Crowell MD, Keefer L, Lembo AJ, Parkman HP, Rao SS, Sperber A, Spiegel B, Tack J, Vanner S, Walker LS, Whorwell P, Yang Y. Rome IV Diagnostic Questionnaires and Tables for Investigators and Clinicians. *Gastroenterology.* 2016 Feb 13. pii: S0016-5085(16)00180-3. doi: 10.1053.

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18. Rahman MM, Ghoshal UC, Rowshon AH, Ahmed F, Kibria MG, Hasan M, Gwee KA, **Whitehead WE**. Translation and Validation of Enhanced Asian Rome III Questionnaires in Bengali Language for Diagnosis of Functional Gastrointestinal Disorders. *J Neurogastroenterol Motil*. 2016 Apr 30;22(2):240-7. doi: 10.5056 PMID: 26690730
19. **Whitehead WE**, Palsson OS, Simren M. Biomarkers to distinguish functional constipation from irritable bowel syndrome with constipation. *Neurogastroenterol Motil* 2016; In press.
20. Siah KTH, Wong RK, **Whitehead WE**. Chronic constipation and constipation-predominant IBS: Separate and distinct disorders or a spectrum of disease? *Gastroenterology & Hepatology* 2016;12: In Press.
21. Rahman MM, Ghoshal UC, Rowshon A, Ahmed F, Kibria MG, Hasan M, Gwee KA, **Whitehead W**. Translation and validation of enhanced Asian Rome 3 questionnaires (EAR3-Q) in Bengali language for diagnosis of functional gastrointestinal disorders. *J Neurogastroenterol Motil*. 2015 Dec 21. doi: 10.5056/jnm15129. PMID: 26690730.
22. Markland AD, Burgio KL, **Whitehead WE**, Richter HE, Wilcox CM, Redden DT, Beasley TM, Goode PS. Loperamide versus psyllium fiber for treatment of fecal incontinence: The Fecal Incontinence Prescription (Rx) Management (FIRM) randomized clinical trial. *Dis Colon Rectum*. 2015 Oct;58(10):983-93. doi: 10.1097/DCR.0000000000000442. PMID: 26347971.
23. Rao SS, Benninga MA, Bharucha AE, Chiarioni G, Di Lorenzo C, **Whitehead WE**. ANMS-ESNM position paper and consensus guidelines on biofeedback therapy for anorectal disorders. *Neurogastroenterol Motil* 2015;27:594-609. Doi: 10.1111/nmo.12520. Epub 2015 April 1. PMID: 25828100.
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SOLICITED JOURNAL ARTICLES LETTERS TO THE EDITOR

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- comparison of symptoms and health status of gastroenterology patients with functional bowel disorders. *Gastroenterology* 1994; 106:A489.
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266. **Whitehead WE**. The irritable colon. Presented at a symposium entitled "The Irritable Gut" sponsored by Janssen Pharmaceutical and held at New Orleans, Louisiana on May 15, 1988.
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271. **Whitehead WE**. Role of sensations arising from the gastrointestinal tract in behavioral self-regulation. Paper presented at a symposium entitled *Die Wahrnehmung Koerperlicher Vorgaenge: Beziehungen zu Andern Sinnesgebieten und Emotionalen Prozessen*, sponsored by the German Research Council (DFG) and held at Schloss Ringberg, West Germany, April 26-30, 1987.
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279. **Whitehead WE**. Perception of gastrointestinal events. Paper presented at Second Annual International Symposium on the Neural Control of Bodily Function -- Basic and Clinical Aspects: II. Psychological and Biological Approaches to the Understanding of Human Disease, October 13-17, 1985, in Bielefeld, Federal Republic of Germany.
280. **Whitehead WE**. Biofeedback training for gastrointestinal disorders. Paper presented to the Departments of Gastroenterology, Surgery, and Psychology, University of Utrecht, October 18, 1985, in Utrecht, Holland.
281. **Whitehead WE**, Enck P, Shabsin H, Schuster MM. Comparison of rectal and sigmoid motor and myoelectric activity. *Digestive Diseases Sciences* 1985; 30:800.
282. Enck P, **Whitehead WE**, Shabsin H, Nikoomanesh P, Schuster MM. Ultradian rhythmicity in myoelectric and motor activity of the human colon. *Gastroenterology* 1985; 88:1374.

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287. Chasen R, Tucker H, Palmer D, **Whitehead W**, Schuster M. Colonic motility in irritable bowel syndrome and diverticular disease. Presented at Annual Meeting of The American Gastroenterological Association, Washington, D.C., May 1982. *Gastroenterology*, 1982; 82: 1031.
288. **Whitehead WE**. Behavioral applications in the treatment of pathophysiological states. Presented at the 38th Annual Meeting of the American Psychosomatic Society, Cambridge, Massachusetts, 1981.
289. **Whitehead WE**. Behavioral approaches to the treatment of urinary incontinence in the elderly. Presented at Workshop on Urinary Incontinence in the Elderly, sponsored by the National Institute on Aging, Bethesda, November, 1980.
290. **Whitehead WE**. Learning theory, reward systems, and operant conditioning of visceral responses. Presented at Workshop on Functional Disorders of the Gastrointestinal Tract, sponsored by the National Institute of Arthritis, Metabolism, and Digestive Disease and the National Institute of Mental Health, Bethesda, October, 1979.
291. **Whitehead WE**, Lurie E, Blackwell B. Classical conditioning facilitates biofeedback training to reduce blood pressure in essential hypertension. *Psychophysiology* 1976; 13:176-177.
292. **Whitehead WE**, Drescher VM, Blackwell B. Rate of learning to control heart rate differentially is negatively correlated with subjective awareness of heart beat. *Biofeedback and Self-Regulation* 1976; 1:322-323.
293. **Whitehead WE**, Drescher VM, Blackwell B. Lack of relationship between autonomic perception questionnaire scores and actual sensitivity for perceiving one's heart beat. *Psychophysiology* 1976; 13:177.
294. **Whitehead WE**, Renault P, Schuster CR. Increased gastric acid during shock avoidance in man. *Psychophysiology* 1974; 11: 222.
295. Frederickson CJ, **Whitehead WE**, Rechtschaffen A. Phasic Activity of the rat lateral rectus muscle during sleep. *Psychophysiology* 1972; 9:130.
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PRESENTATIONS (1996-2007 ONLY; NOT CONSISTENTLY TRACKED)

Papers (those not listed as published abstracts):

“Gastrointestinal risk factors for fecal incontinence.” NIH State of the Science Conference on the Prevention of Fecal and Urinary Incontinence, Bethesda, December 12, 2007.

“Visceral perception: Cognitive and psychological mechanisms.” 2006 Joint International Meeting: Neurogastroenterology and Motility, Boston, September 14, 2006.

“Rome III: New perspectives on irritable bowel syndrome.” Psychosomatic Medicine Society of Kyushu University, Fukuoka, Japan, September 4, 2006.

“Rome III: New perspectives on disorders of colonic, rectal, and anal function.” 12th Annual Meeting of the Japanese Society for Disorders of Colorectal and Anal Function, Tokyo, Japan, September 2, 2006.

“IBS: Biomedical and behavioral disorder.” Tohoku Medical Society meeting, Sendai, Japan, September 1, 2006.

“Biofeedback for pelvic floor disorders.” Sixth National Conference of Chinese Society of Gastrointestinal Motility, Wuhan, China, November 12, 2005.

“Designing treatment trials in functional GI disorders.” Meet the investigator luncheon, Digestive Disease Week, Orlando, May 19, 2003.

“Control groups appropriate for behavioral interventions. Invited state-of-the-art talk to NIH Consensus Conference, “Advancing the treatment of fecal and urinary incontinence through research: Trial design, outcome measures, and research priorities.” Milwaukee, Wisconsin, November 3-5, 2002.

“Abdominal pain in IBS: Physiological and psychological influences, and possible treatments.” Invited lecture to the Gastroenterology Division, Mayo Clinic, Rochester, MN, April 14-15, 2002.

“Physiologic consequences of eating disorders in the gastrointestinal tract.” Invited lecture to the American Association of Clinical Nutrition, San Antonio, TX, October 3, 2002.

“Biofeedback for anorectal disorders.” Invited lecture at the 2nd Annual International Course and Workshop on Gastrointestinal Motility/Functional Disorders, Galveston, TX, November 10, 2001.

“Sex and gender in irritable bowel syndrome.” Invited lecture at the 12th Annual Meeting of the American Academy of Pain Management, Arlington, VA, September 7, 2001.

“Association of irritable bowel syndrome with other diseases: Implications for etiology and treatment.” IBS Club of Japan, Tokyo, August 11, 2001.

“Learned illness behavior in irritable bowel syndrome.” Visiting Professor to Tohoku University, Sendai, Japan, August 9, 2001.

“Pharmacological and psychological treatment of irritable bowel syndrome.” Visiting Professor to 2nd Internal Medicine Department, National Defense Medical College, Tokyo, Japan, August 7, 2001.

“Pharmacological and psychological treatment of irritable bowel syndrome.” Visiting Professor to Fukuoka University, Japan, August 6, 2001.

“Functional disorders of the colon, rectum, and anus: Basic and clinical aspects.” Lecture to the Kawaguchi Conference on Colorectal and Anal Function, Tokyo, Japan, August 4, 2001.

“Pharmacological and psychological treatment of irritable bowel syndrome.” Visiting Professor to Koshigaya University Medical Center, Japan, August 3, 2001.

“Design of treatment trials for functional gastrointestinal disorders.” Invited workshop at the 4th International Symposium on Functional Gastrointestinal Disorders, Milwaukee, March 30 and April 1, 2001.

“Biofeedback for anorectal disorders.” Invited address at the 4th International Symposium on Functional Gastrointestinal Disorders, Milwaukee, April 2, 2001.

“Anorectal disorders: Fecal incontinence, pelvic floor dyssynergia, and rectal pain.” Invited address at the 4th International Symposium on Functional Gastrointestinal Disorders, Milwaukee, April 1, 2001.

“Debate: Is a history of abuse linked to the pathophysiology of functional dyspepsia and IBS?” Invited address at Falk Symposium No. 99, Functional dyspepsia and irritable bowel syndrome: New concepts and controversies. Titisee, Germany, May 27-28, 1997.

“Management of chronic constipation: Habit training and biofeedback.” Symposium at Digestive Disease Week, May 14, 1997, Washington, D.C.

“Functional anorectal disorders.” Workshop at the Second International Symposium on Functional Gastrointestinal Disorders, Milwaukee, April, 1997.

“Psychological influences on visceral perception.” Meet the Professor luncheon at the Second International Symposium on Functional Gastrointestinal Disorders, Milwaukee, April, 1997.

“Relaxation treatment of functional gastrointestinal disorders.” Invited lecture at the Second International Symposium on Functional Gastrointestinal Disorders, Milwaukee, April, 1997.

“Classification of functional gastrointestinal disorders.” Invited lecture at the Second International Symposium on Functional Gastrointestinal Disorders, Milwaukee, April, 1997.

“Diagnostic criteria, epidemiology, and impact on quality of life.” Lecture in a symposium entitled “Functional gastrointestinal disorders: Brain-gut mechanisms,” which I organized and chaired at the 55th annual meeting of the American Psychosomatic Society, Santa Fe, March 19-22, 1997.

“Treatment of irritable bowel syndrome with biofeedback, relaxation, and hypnosis.” Invited address at the First International Johns Hopkins Motility Conference, November, 1996.

“Psychosocial aspects of irritable bowel syndrome.” Invited address at the First International Johns Hopkins Motility Conference, November, 1996.

“Psychosocial aspects of functional GI disorders.” Invited address at the IBS Roundtable sponsored by Solvay Pharmaceutical in Paris, November, 1996.

“Functional anorectal disorders.” Lecture to the Gastroenterology Division, University of Perugia, November 19, 1996.

“Psychophysiology of Gastrointestinal Perception.” Invited address to the VII National Congress of the Italian Group for the Study of Digestive Tract Motility, Perugia, Italy, November 21, 1996.

“Functional bowel disorders.” Invited address to the VII National Congress of the Italian Group for the Study of Digestive Tract Motility, Perugia, Italy, November 20, 1996.

Two invited lectures to the Brazilian Gastrointestinal Motility Society, January, 1996.

TEACHING RESPONSIBILITIES

Provide clinical training in the conduct and interpretation of diagnostic gastrointestinal motility studies to gastroenterology fellows and urogynecology fellows.

Annual lectures to the Fellowship Training Program for Urogynecology and Reconstructive Pelvic Floor Surgery.

Currently co-director of gastrointestinal motility course sponsored by the American Neurogastroenterology and Motility Society involving three one-month rotations each year.

Mentor to T35 training grants in Gastroenterology Division and Geriatric Medicine Division.
Recent 2nd year students mentored: Elizabeth MacLean, Lalitha Kunduru.

Lectures to second year medical students on GI motility, Gastroenterology: 1995, 1997, 1998, 1999, 2000, 2001, 2002.

Grand Rounds

UNC: 1994, 2000, 2002.

Non-UNC: n/a

Continuing education courses:

Provide training in motility assessment and biofeedback training for fecal incontinence and constipation for CME courses sponsored by American Neurogastroenterology and Motility Society, Mayo Clinic, and University of Iowa.

Supervise predoctoral and postdoctoral research fellows

List of former mentees available on request.

Current fellow is Andrea Crane, MD, fellow in urogynecology.

Visiting Professorships or Lectureships:

Visiting Professor of Medicine at the University of Perugia, Division of Digestive Diseases, Perugia, Italy, 1995 and 1996.

Visiting Professor, Hirosaki University in Japan, September, 1999.

Visiting Professor, Tohoku University in Japan, April, 2000.

Visiting Professor to Tohoku University in Japan, August 2-12, 2001.

Visiting Professor to Mayo Clinic, Rochester, April 14-16, 2002.

Visiting Professor, Cairo, Egypt, October 2-4, 2002.

Visiting Professor, Tohoku University in Japan, September 1-8, 2006.

GRANTS FUNDED (CURRENTLY ACTIVE GRANTS ARE BOLDED)

- 2016-2018** PI of grant **U34 DK109191** titled “**Comparative effectiveness of biofeedback, sacral nerve stimulation, and injectable bulking agents for treatment of fecal incontinence**”.
- 2013-2016** PI of **NIDDK grant R21 DK096545** titled “**Website for self-management of fecal incontinence**.”
- 2011-2016** Co-investigator of **NICHD grant U01 HD069031** titled “**Pelvic floor disorders network data coordinating center**”. PI is **Dennis Wallace, PhD**.
- 2011-2016** Co-investigator of **R01 HD036069** titled “**Parent training to address pediatric functional abdominal pain**”. PI is **Rona Levy**.
- 2010-2016** Co-Director of the **Disease Modeling Core** and PI of a Sub-Project of **NIDR grant P01 NS045685** titled, “**Complex Persistent Pain Conditions: Unique and shared pathways of vulnerability.**”
- 2012-2015 Principal Investigator of **AHRQ grant R01 HS018695** titled “**Conservative treatment of fecal incontinence in the elderly: Effectiveness trial**”.
- 1984-2013 Principal investigator, **NIDDKD Grant R01 DK031369**, "Psychophysiology of irritable bowel syndrome." (Renewed competitively 5 times.)
- 2010-2013 Co-investigator of “An investigation of the treatment of fecal incontinence using the TOPAS sling system” (WC0807). PI is **Catherine Matthews, MD**.
- 2007-2011 Principal investigator of subcontract on **NICHHD grant RO1 HD050345** entitled “**Psychosocial Intervention for Children with IBD.**” Principal investigator of parent grant is **Rona Levy, Ph.D., University of Washington**.
- 2009-2010 Principal investigator of **McNeil Consumer Health contract** titled, “**Diarrhea prevention (DIP) study.**”
- 2007-2010 Principal investigator of **UNC Investments for the Future grant** titled, “**Transferring scientific discoveries in gastrointestinal motility disorders from the laboratory to community practitioners: Treating fecal incontinence and constipation in the frail elderly and women.**”
- 2007-2010 Principal investigator of **Takeda Pharmaceuticals contract** titled, “**Development of a questionnaire to measure hypervigilance for visceral pain.**”
- 2007-2010 Principal investigator of **Takeda Pharmaceuticals contract** titled, “**Lubiprostone effects on visceral pain sensitivity.**”
- 2006-2010 Co-investigator (**S Gaylord** is PI) of **R21 AT3619**,

“Mindfulness treatment of irritable bowel.”

- 2008-2009 Principal investigator of McNeil Consumer Health contract titled, “Characterization of IBS symptom episodes.”
- 2006-2008 Principal investigator of Novartis Pharmaceuticals contract titled, “CONQUEST: Questionnaire Study of Chronic Constipation.”
- 2004-2009 Principal investigators of NIDDK grant R24 DK067674 titled, “Gastrointestinal Biopsychosocial Research Center.” This is an award under the authority of RFA OB-03-004, Mind-Body Interactions and Health: Research Infrastructure Program.
- 1999-2009 Principal investigator of subcontract on NICHD grant RO1 HD36069 entitled “Intergenerational Transmission of Illness Behavior.” Principal investigator of parent grant is Rona Levy, Ph.D., University of Washington.
- 2002-2006 Co-investigator (Anthony Visco, M.D., is PI) of the UNC Pelvic Floor Disorders Research Collaborative Studies (U01 HD41267). This grant funds multicenter surgical and behavioral treatment trials.
- 2004-2005 Principal investigator of Novartis Pharmaceuticals contract entitled, “Validation of The Bloating Diagnostic Questionnaire and the Bloating Severity Questionnaire.”
- 2003-2004 Principal investigator of Novartis Pharmaceuticals contract entitled, “Definition of IBS alternators.”
- 2003-2004 Principal investigator of Novartis Pharmaceuticals contract entitled, “Development of outcome measures for assessment of bloating.”
- 2002-2003 Principal investigator of Novartis Pharmaceuticals contract entitled, “Identifying patients with functional dyspepsia from medical records.”
- 2002-2003 Principal investigator of Novartis Pharmaceuticals contract entitled, “Evaluation of SERT gene polymorphisms and serotonin levels in IBS subgroups.”
- 1999-2004 Principal investigator, NIDDKD grant RO1-DK57048 entitled “Biofeedback for Fecal Incontinence and Constipation.”
- 2001-2003 Principal investigator of Novartis Pharmaceuticals contract entitled, “Prospective study of the diagnosis and treatment of IBS in primary care and GI specialty clinics.”
- 1994-2002 Co-investigator, NIDDKD grant RO1-DK49334 entitled "Multicenter trial of functional bowel disorders."
- 1999-2000 Principal investigator of Medtap International contract A2-14444-004 entitled “Assessment of the impact of mode of administration of the PAGI-SYM and PAGI-QOL: Self-administered versus telephone interview.”
- 1999-2000 Principal investigator of Medtap International contract R149-OUT-007C entitled “Evaluating the reliability and validity of the patient assessment in GI (PAGI) symptom severity and disease-specific quality of life.”

- 1999-2000 Principal investigator of Solvay grant S2412112 entitled "Double-blind, randomized, multicenter, parallel-group, dose-ranging study to investigate the efficacy and safety of Cilansetron in non-constipated irritable bowel syndrome."
- 1988-1999 Principal investigator, NIMH Research Scientist Award KO5 MH00133, "Role of perception in control of visceral responses."
- 1997-1998 Principal investigator, research contract entitled "Effects of Loperamide on rectal sensory thresholds." Janssen Research Foundation.
- 1997-1998 Principal investigator, research contract entitled "Effects of Lactobacillus planarum 299v on the symptoms of irritable bowel syndrome." Con-Agra, Inc.
- 1997 Principal investigator, NIDDKD grant RO1-DK031369 entitled "Psychophysiology of Irritable Bowel Syndrome." This is a bridge grant submitted at the invitation of NIDDK to cover a gap in funding while competitive renewal of this grant was under review.
- 1993-1996 Supplement to grant RO1 DK031369 to address the Office of Research on Women's Health initiative with a study of the role of sexual abuse on visceral pain sensitivity in irritable bowel syndrome.
- 1992-1993 Principal investigator, contract to develop a questionnaire for the assessment of functional gastrointestinal disorders. Glaxo Pharmaceuticals.
- 1991-1992 Principal investigator, study of the symptoms for which IBS patients self-medicate and seek medical treatment (RAN-P24). Glaxo Pharmaceuticals.
- 1991-1992 Principal investigator, research contract entitled "Double-Blind Parallel Group Pilot Study of Librax and Its Components on Physiologic and Psychosocial Function in Patients with Irritable Bowel Syndrome". Hoffman-LaRoche Research Foundation.
- 1987-1992 Principal investigator, research contract to study "Effects of Cisapride on Gastrointestinal Motor Disorders". Janssen Research Foundation.
- 1987-1990 Principal investigator, NCNR Grant RO1 NRO1369, "Learned illness behavior and nursing intervention."
- 1985-1986 Principal investigator, subproject of NIA Grant 5-PO-1-AGO4402-03 "Teaching Nursing Home Award". Subproject titled "Community Survey of Constipation and Incontinence in the Elderly".
- 1980-1982 Principal investigator, NICHD Grant R01 HD14519, "Psychophysiological reactions to touch."
- 1979-1982 Principal investigator, NINCDS Grant R01 NS15781, "Behavioral medicine treatment of fecal incontinence."
- 1978-1988 Principal investigator, NIMH Research Scientist Development Award K01 MH00133, "Role of perception in control of visceral responses."
- 1976 Biomedical Research Support Grant, "Biofeedback training to reduce colonic motility in patients with irritable bowel syndrome."

- 1976 University Research Council Grant, "Effects of differences in ability to subjectively perceive heart beat on learning to control heart rate: Does perceiving each heart beat facilitate learning?"
- 1975-1976 University Research Council Grant, "Effects of differences in ability to subjectively perceive one's heart beat on learning to control heart rate and on retention of heart rate learning."
- 1974-1975 University Research Council Grant, "Biofeedback training to reduce blood pressure in patients with essential hypertension."
- 1973-1976 Co-investigator with Barry Blackwell. Grant from Hoffman LaRoche, "Innovative approaches to psychotropic drug evaluation."
- 1972-1973 Co-Investigator with Pierre Renault, NIMH Grant MH19979, "Operant conditioning of gastric acidity in humans."

PROFESSIONAL SERVICE

Within UNC-Chapel Hill

Director, Center for Functional Gastrointestinal and Motility Disorders.
Member, Center for Pain Research and Innovation, UNC School of Dentistry.
Member, Center for Gastrointestinal Biology and Inflammatory Bowel Disease.
Member, Advisory Committee for the UNC CTRC Clinical Research Center, 2002-2011.
Monthly multidisciplinary conference on pelvic floor disorders for Division of Urogynecology, 2000 to present.

International:

Chairman, international working team on management of constipation, 1989-91.
Member, Rome Foundation Executive Committee, 1988-present. Current positions include Chair of Research Committee, Chair of Diagnostic Questionnaire Development Committee, Member of Finance Committee, Member of Executive Committee, Member of Editorial Board. Positions previously held include Chair of the Working Group on Anorectal Disorders, Co-chair of the Design of Treatment Trials committees, Chair of the International Resource Committee (industry alliance), and Chair of the Rome Consensus Conference on the Definition of a Responder in Clinical Trials for Functional Gastrointestinal Disorders.
Co-founder and Chair, Functional Brain Gut Research Group, special interest group within the American Gastroenterological Association, Co-chair 1991-93; Chair, 1994-95. This society merged with the American Neurogastroenterology and Motility Society in 2010.
Chairman, organizing committee of the Consensus Conference on Treatment Options for Fecal Incontinence, April 20-21, 1999.
Chairman, organizing committee of the Second International Consensus Conference on the Treatment of Fecal and Urinary Incontinence, November 3-5, 2002.

National:

2007 - present	DSMB/Scientific Advisory Committee for NIDDK Gastroparesis Research Network
2008 - present	Scientific Advisory Committee for NIDDK MAPP (Managing Abdominal and Pelvic Pain) Research Network
2012 – 2013	Co-Chair, NIDDK Workshop on Clinical Trial Methodology for Studies of the Treatment of Fecal Incontinence
2008 – 2012	NIH Behavioral Medicine (BMIO) Study Section Ongoing Ad hoc reviewer for: NIA, NIDDK, NIMH, NINR, NIDR.

Organizing committee, NIDDK Workshop on Irritable Bowel Syndrome, 1992.

Planning committee, NIH State of the Science Conference on Prevention of Incontinence, December 10-12, 2007.

Chair or member of abstract review committee for Digestive Disease Week annually for past 10 years.

Consultant Appointments to Industry:

Consultant on clinical trial design to the following companies: Takeda, Ferring, Ironwoods, Allergan, Ono, Biomerica USA.

Editorial Appointments:

Associate Editor: Gastroenterology, 2001-2006.

Associate Editor: Digestive Diseases and Sciences, 2000-2001.

Publications Board, Biofeedback Society of America, 1982-1985.

Consulting Editor (Reviewer): Gastroenterology, Gut, Alimentary Pharmacology and Therapeutics, Digestive Diseases, Journal of Psychosomatic Research, Journal of Neurogastroenterology and Motility (USA), Journal of Neurogastroenterology and Motility (Korea), Pain, Psychosomatic Medicine, Journal of Consulting and Clinical Psychology, American Journal of Physiology, Biofeedback and Self-Regulation, Behavior Therapy, British Journal of Clinical Psychology, American Geriatrics Society.

REFLECTIVE STATEMENT

I am a clinical psychologist with post-doctoral training in gastrointestinal physiology. The goal of my research has always been to understand the interface between physiology and psychology, and to translate this understanding of the “psychophysiology” of gastrointestinal disorders into behavioral medicine treatment approaches. These treatments have often included biofeedback, but I have also developed and tested medical management protocols that combine the principles of behavior modification with the use of diet and medication for the management of gastrointestinal symptoms. My seminal accomplishments are these:

- Identifying the important role that visceral pain sensitivity plays in the etiology and course of irritable bowel syndrome.
- The concept of learned illness behavior – I demonstrated that the ways parents respond to their children’s stomach aches and other illness complaints influence whether they develop IBS and whether they exhibit other comorbid somatic complaints such as fibromyalgia. This work has been carried on by others and has resulted in treatment paradigms for pediatric functional gastrointestinal disorders.
- Comorbidity in the irritable bowel syndrome – Patients with irritable bowel very frequently have comorbid somatic and psychiatric disorders which cumulatively exert a strong influence on the severity of GI symptoms and the response to treatment. My team has made significant contributions to the understanding of mechanisms responsible for comorbidity and ways of addressing this. Our research suggests that this is not due to shared pathophysiology but to psychological factors, namely a hypervigilance for noticing somatic sensations and interpreting them as symptoms of illness, combined with a low threshold to consult physicians. Psychological interventions which address

hypervigilance – hypnosis and mindfulness training – are the most effective ways of limiting comorbidity.

- Biofeedback for pelvic floor disorders – Although I was not the first to show that biofeedback was effective for the treatment of fecal incontinence, I investigated the psychophysiological mechanisms responsible for fecal incontinence (for example, the importance of sensory perception) and used these insights to improve the effectiveness of biofeedback training protocols for specific medical disorders. My colleagues and I also developed biofeedback protocols for outlet dysfunction types of constipation and chronic rectal pain, and carried out randomized clinical trials to confirm the effectiveness of these treatments.
- Diagnostic criteria for functional gastrointestinal disorders – I have made contributions to the development and validation of diagnostic criteria for the functional gastrointestinal and motility disorders, and have been responsible for the development of the widely used Rome Diagnostic Questionnaire for these disorders.

Over the next 5 years, I plan to concentrate on some practical applications which I believe will benefit the clinical management of fecal incontinence, constipation, and irritable bowel syndrome:

- Dissemination of conservative treatment protocol for fecal incontinence – Although biofeedback is probably the most effective of the behavioral approaches to treating fecal incontinence, it is costly and not widely available. Together with colleagues I have developed a conservative treatment program and am conducting a randomized controlled trial to determine whether nurses can deliver this treatment to home-bound elderly people and obtain good outcomes. There is also a plan to develop a self-help website to teach patients how to manage bowel incontinence on their own; this would address the reluctance of patients with fecal incontinence to talk to the physician about this embarrassing problem.
- Minimally invasive diagnostic testing for dyssynergic defecation. Dyssynergic defecation is a type of constipation that my colleagues and I have shown responds more favorably to biofeedback than to laxatives or other medical treatments, but the diagnostic tests are invasive, costly, and not widely available. Together with Dr. Giuseppe Chiarioni, I am in the final stages of a study which will identify minimally invasive diagnostic tests that can be carried out in primary care to reliably diagnose this type of constipation and guide treatment. This will also facilitate the evaluation of new drug treatments for constipation.
- Diagnosis and management of irritable bowel syndrome. A consensus is developing that the irritable bowel syndrome is not a single diagnostic entity but a collection of patients with similar symptoms due to differing etiologies. This may explain the poor response rates associated with new drug treatments. We are investigating ways identify distinct subgroups within this population and to match them to treatments that are based on the mechanism of their symptoms to improve therapeutic outcomes. Currently we are focusing on gene-environment interactions to help characterize these subgroups.

My teaching is largely confined to training young investigators how to carry out clinical research on functional gastrointestinal and motility disorders. My philosophy is to guide them through each step of the process from literature review and development of a protocol through

recruitment and testing of patients and writing a manuscript for publication. Most of the trainees who have worked with me have ended with a publication, and many of them are in academic positions. Most years, I have at least two trainees who may be medical students, fellows in gastroenterology or urogynecology, or junior faculty.