

6. Literaturverzeichnis

1. Whitehead WE, Chaussade S, Corazziari E. Report of an international workshop on management of constipation. *Gastroenterol Int* 1991;3:99-113.
2. Thompson WG, Heaton KW. Functional bowel disorders in apparently healthy people. *Gastroenterology* 1980;79:283-8.
3. Talley NJ. Definitions, Epidemiology, and Impact of Chronic Constipation. *Rev Gastroenterol Disord* 2004;4 (Suppl. 2):S3-S10.
4. Locke GR, Pemberton JH, Phillips SF. AGA technical review on constipation. *American Gastroenterology Association. Gastroenterology* 2000;119:1766-78.
5. Knauer CM, Silverman SJ. Alimentary Tract & Liver. In: Schroeder SA, Krupp MA, Tierney LMJ, McPhee SJ, eds. *Current medical diagnosis and treatment*. East Norwalk: Appleton & Lange, 1990:376-460.
6. Drossmann DA, Corazziari E, Talley NJ, Grant W, Whitehead WR. *The Functional Gastrointestinal Disorders*. Degnon Associates, 2000.
7. Bassotti G, De Roberto G, Sediari L, Morelli A. Colonic motility studies in severe chronic constipation: an organic approach to a functional problem. *Tech Coloproctol* 2004;8:147-50.
8. Bassotti G, Gaburri M, Imbimbo BP, Rossi L, Farroni F, Pelli MA, Morelli A. Colonic mass movements in idiopathic chronic constipation. *Gut* 1988;29:1173-9.
9. Karaus M, Wienbeck M. Colonic motility in humans--a growing understanding. *Baillieres Clin Gastroenterol* 1991;5:453-78.
10. Bassotti G, Morelli A, Whitehead WE. Abnormal rectosigmoid myoelectric response to eating in patients with severe idiopathic constipation (slow-transit type). *Dis Colon Rectum* 1992;35:753-6.
11. Milner P, Crowe R, Kamm MA, Lennard-Jones JE, Burnstock G. Vasoactive intestinal polypeptide levels in sigmoid colon in idiopathic constipation and diverticular disease. *Gastroenterology* 1990;99:666-75.
12. Grotz RL, Pemberton JH, Talley NJ, Rath DM, Zinsmeister AR. Discriminant value of psychological distress, symptom profiles, and segmental colonic dysfunction in outpatients with severe idiopathic constipation. *Gut* 1994;35:798-802.
13. Kuijpers HC, Bleijenberg G. The spastic pelvic floor syndrome. A cause of constipation. *Dis Colon Rectum* 1985;28:669-72.
14. Martelli H, Devroede G, Arhan P, Duguay C. Mechanisms of idiopathic constipation: outlet obstruction. *Gastroenterology* 1978;75:623-31.

15. Voderholzer WA, Schatke W, Mühldorfer BE, Klauser AG, Birkner B, Müller-Lissner SA. Clinical response to dietary fiber treatment of chronic constipation. *Am J Gastroenterol* 1997;92:95-8.
16. Karasick S, Ehrlich SM. Is constipation a disorder of defecation or impaired motility? distinction based on defecography and colonic transit studies. *Am J Roentgenol* 1996;166:63-6.
17. Karlbom U, Pahlman L, Nilsson S, Graf W. Relationships between defecographic findings, rectal emptying, and colonic transit time in constipated patients. *Gut* 1995;36:907-12.
18. Voderholzer WA, Neuhaus DA, Klauser AG, Tzavella K, Müller-Lissner SA, Schindlbeck NE. Paradoxical sphincter contraction is rarely indicative of anismus. *Gut* 1997;41:258-62.
19. Doig CM. Hirschsprung's disease in children: presentation and treatment. In: Kamm MA, Lennard - Jones JE, eds. *Constipation*. Petersfield: Wrightson, 1994:193-8.
20. Milla PJ, Smith VV. Aganglionosis, hypoganglionosis and hyperganglionosis: clinical presentation and histopathology. In: Kamm MA, Lennard - Jones JE, eds. *Constipation*. Petersfield: Wrightson, 1994:183-92.
21. Luukonen P, Heikkinen M, Huikuri K. Adult Hirschsprung's disease: clinical features and functional outcome after surgery. *Dis Colon Rectum* 1990;33.
22. Wheatley MJ, Wesley JR, Coran AG. Hirschsprung's disease in adolescents and adults. *Dis Colon Rectum* 1990;33:622-9.
23. Anuras S, Baker CR, Jr. The colon in the pseudoobstructive syndrome. *Clin Gastroenterol* 1986;15:745-62.
24. Cannon WB. The movements of the intestines studied by means of roentgen rays. *Am J Physiol* 1901;6:251-277.
25. Bassotti G, Gaburri M. Manometric investigation of high-amplitude propagated contractile activity of the human colon. *Am J Physiol* 1988;255:G660-4.
26. Karaus M, Sarna SK. Giant migrating contractions during defecation in the dog colon. *Gastroenterology* 1987;92:925-33.
27. Bueno L, Fioramonti J, Ruckebusch Y, Frexinos J, Coulom P. Evaluation of colonic myoelectrical activity in health and functional disorders. *Gut* 1980;21:480-5.
28. Sarna SK. Physiology and pathophysiology of colonic motor activity (1). *Dig Dis Sci* 1991;36:827-62.
29. Brown BP, Schrier JE, Berbaum KS, Shirazi SS, Schulze-Delrieu K. Haustral septations increase axial and radial distribution of luminal contents in glass models of the colon. *Am J Physiol* 1995;269:G706-9.
30. Christensen J. Motility of the Intestine. In: Sleisenger MH, Fordtran JS, eds. *Gastrointestinal Disease*. Philadelphia: Saunders, 1993:822-35.

31. Sanders KM, Stevens R, Burke E, Ward SW. Slow waves actively propagate at submucosal surface of circular layer in canine colon. *Am J Physiol* 1990;259:G258-63.
32. Kumar D, Wingate DL. Colorectal motility. In: Henry MM, Swash M, eds. *Coloproctology and the pelvic floor. Pathophysiology and management*. London: Butterworths, 1985:47-61.
33. Klauser AG, Peyerl C, Schindlbeck NE, Müller-Lissner SA. Nutrition and physical activity in chronic constipation. *Eur J Gastroenterol Hepatol* 1992;4:227-233.
34. Müller - Lissner SA, Kamm MA, Scarpignato C, Wald A. Myths and Misconceptions About Chronic Constipation. *Am J Gastroenterol* 2005;100:232-42.
35. Selvendran RR, Verne AV. The chemistry and properties of plant cell walls and dietary fiber. In: Kritchevsky D, Bonfield C, Anderson JW, eds. *Dietary Fiber*. New York: Plenum, 1988:1-14.
36. Burkitt DP, Walker AR, Painter NS. Effect of dietary fibre on stools and the transit-times, and its role in the causation of disease. *Lancet* 1972;2:1408-12.
37. Muller-Lissner SA. Effect of wheat bran on weight of stool and gastrointestinal transit time: a meta analysis. *Br Med J (Clin Res Ed)* 1988;296:615-7.
38. Cummings JH, Jenkins DJ, Wiggins HS. Measurement of the mean transit time of dietary residue through the human gut. *Gut* 1976;17:210-8.
39. Englyst HN, Cummings JH. Improved method for measurement of dietary fiber as non-starch polysaccharides in plant foods. *J Assoc Off Anal Chem* 1988;71:808-14.
40. Bingham SA. Starch, Nonstarch Polysaccharides, and the Large Gut. In: Kritchevsky D, Bonfield C, Anderson JW, eds. *Dietary Fiber*. New York: Plenum Corporation, 1988:447-454.
41. Anderson AS, Whichelow MJ. Constipation during pregnancy: dietary fibre intake and the effect of fibre supplementation. *Hum Nutr Appl Nutr* 1985;39:202-7.
42. Gogl A. The fate of fiber in the lower gastrointestinal tract. In: Csomos G, Kusche J, Meryn S, eds. *Fibers*. Berlin: Springer, 1993:39-48.
43. Sonnenberg A, Sonnenberg GS. Epidemiologie der Ostipation. In: Müller-Lissner SA AL, ed. *Chronische Ostipation und Stuhlinkontinenz*. Heidelberg: Springer, 1989:141-156.
44. Ewe K, Dederer W, Press AG. Gastrointestinale Transitzeitbestimmung mit dem Metalldetektor. *Klin Wschr* 1988;66 [Suppl XIII]::43.
45. Hinton JM, Lennard-Jones JE, Young AC. A new method for studying gut transit times using radioopaque markers. *Gut* 1969;10:842-7.

46. Arhan P, Devroede G, Jehannin B, Lanza M, Faverdin C, Dornic C, Persoz B, Tetreault L, Perey B, Pellerin D. Segmental colonic transit time. *Dis Colon Rectum* 1981;24:625-9.
47. Goei R, Müller - Lissner SA. Radiologische Methoden (Defäkographie, Transitmessung). In: Müller- Lissner SA, Akkermans LMA, eds. *Chronische Obstipation und Stuhlinkontinenz*. Heidelberg: Springer, 1989:83-104.
48. Krevsky B, Malmud LS, D'Ercole F, Maurer AH, Fisher RS. Colonic transit scintigraphy. A physiologic approach to the quantitative measurement of colonic transit in humans. *Gastroenterology* 1986;91:1102-12.
49. Camilleri M, Colemont LJ, Phillips SF, Brown ML, Thomforde GM, Chapman N, Zinsmeister AR. Human gastric emptying and colonic filling of solids characterized by a new method. *Am J Physiol* 1989;257:G284-90.
50. Charles F, Camilleri M, Phillips SF, Thomforde GM, Forstrom LA. Scintigraphy of the whole gut: clinical evaluation of transit disorders. *Mayo Clin Proc* 1995;70:113-8.
51. Karaus M. Untersuchungen der Dickdarmmotilität. Auf der Schwelle zwischen Grundlagenforschung und klinischer Bedeutung. *Z Gastroenterol* 1993;31 (Suppl 3):61-65.
52. Snape WJJ, Carlson GM, Cohen S. Colonic myoelectrical activity in the irritable bowel syndrome. *Gastroenterology* 1976;70:326-330.
53. Burkitt DP, Walker AR, Painter NS. Dietary fiber and disease. *JAMA* 1974;229:1068-74.
54. Read NW, Timms JM. Defecation and the pathophysiology of constipation. *Clin Gastroenterol* 1986;15:937-65.
55. Klauser AG, Beck A, Schindlbeck NE, Müller-Lissner SA. Low fluid intake lowers stool output in healthy male volunteers. *Z Gastroenterol* 1990;28:606-9.
56. Preston DM, Lennard-Jones JE. Severe chronic constipation of young women: 'idiopathic slow transit constipation'. *Gut* 1986;27:41-8.
57. Ziegenhagen DJ, Tewinkel G, Kruis W, al. e. Adding more fluid to wheat bran has no significant effects on intestinal functions in healthy subjects. *J Clin Gastroenterol* 1991;13:525-30.
58. Moses AM, Streeten DHP. Disorders of the neurohypophysis. In: Wilson JD, Braunwald E, eds. *Harrison's Principles of Internal Medicine*. Volume 12. New Yorck: McGraw-Hill, 1991:1683.
59. Williams GH, Cain JP, Dluhy RG, Underwood RH. Studies of the control of plasma aldosterone concentration in normal man. I. Response to posture, acute and chronic volume depletion, and sodium loading. *J Clin Invest* 1972;51:1731-42.
60. Ehrlich EN. Electrolyte Metabolism. Adrenocortical Regulation of Electrolyte and Water Metabolism. In: DeGroot LJ, ed. *Endocrinology*. Philadelphia: Saunders, 1989:1582-1600.

61. Schang JC, Angel F, Devroede G, Strom B, Pilote M, Herbert M, Hemond M. [Vasopressin and colonic motility]. *Gastroenterol Clin Biol* 1988;12:946-52.
62. Zhu YR, Cowles VE, Herranz ES, Schulte WJ, Condon RE. Arginine vasopressin inhibits phasic contractions and stimulates giant contractions in monkey colon. *Gastroenterology* 1992;102:868-74.
63. Ganten D. Angiotensinrezeptoren. In: Ritz E, ed. *Lehrbuch der Hypertonie*. Stuttgart: Schattauer, 1985:174-177.
64. Voderholzer WA, Allescher HD, Muller-Lissner SA. The effect of hormones and peptides involved in water balance on rat colonic motility in vitro. *Neurogastroenterol Motil* 1995;7:15-21.
65. Voderholzer WA, Klauser AG, Mühlendorfer BE, Fiedler F, Müller-Lissner SA. The influence of arginine-vasopressin on stool output and gastrointestinal transit time in healthy volunteers. *Z Gastroenterol* 1995;33:189-92.
66. Khokhar AM, Slater JD, Ma J, Ramage CM. The cardiovascular effect of vasopressin in relation to its plasma concentration in man and its relevance to high blood pressure. *Clin Endocrinol (Oxf)* 1980;13:259-66.
67. Bridges RJ, Nell G, Rummel W. Influence of vasopressin and calcium on electrolyte transport across isolated colonic mucosa of the rat. *J Physiol* 1983;338:463-75.
68. Altman DG. How large a sample? In: Gore SM, Altman DG, eds. *Statistics in practice*. Torquay: The Devonshire Press, 1989:6 - 8.
69. Barr LC, Booth J, Filipe MI, Lawson JO. Clinical evaluation of the histochemical diagnosis of Hirschsprung's disease. *Gut* 1985;26:393-9.
70. Meier-Ruge W. Hirschsprung's disease: its aetiology, pathogenesis and differential diagnosis. *Curr Top Pathol* 1974;59:131-79.
71. Meier-Ruge W. Angeborene Dysganglionosen des Colon. *Kinderarzt* 1985;16:151-164.
72. Voderholzer WA, Wiebecke B, Gerum M, Müller-Lissner SA. Dysplasia of the submucous nerve plexus in slow-transit constipation of adults. *Eur J Gastroenterol Hepatol* 2000;12:755-9.
73. Gerum M. Untersuchungen zur Relevanz morphologischer Parameter bei Dysganglionosen des Dickdarmes. . Dissertation zum Erwerb des Doktorgrades der Medizin an der Ludwig-Maximilians-Universität zu München. 1994.
74. Schindlbeck NE, Klauser AG, Müller-Lissner SA. [Measurement of colon transit time]. *Z Gastroenterol* 1990;28:399-404.
75. Karanovsky MJ, Roots I. A "direct coloring" thiocholine method for cholinesterases. *J Histochem Cytochem* 1964;12:219-221.
76. Hess R, Scarpelli DG, Pearse AGE. The cytochemical localisation of oxidative enzymes II. Pyridine nucleotide-linked dehydrogenases. *J Biophys Biochem Cytol* 1958;4:753-760.

77. Moore BW. Chemistry and biology of the S-100 protein. *Scand J Immunol Suppl* 1982;9:53-74.
78. Devroede G. Constipation. In: Saunders, ed. *Gastrointestinal Disease. Pathophysiology, Diagnosis, Management. Volume* Saunders. Philadelphia, 1993:837-887.
79. Müller-Lissner SA. Constipation and irritable bowel syndrome. Review-in-Depth "Dietary Fibre. *Eur J Gastroenterol Hepatol* 1993;5:587-92.
80. Bruckschen E, Horosiewicz H. Chronische Obstipation. *MMW* 1994;16:241-45.
81. Möllenbrink M, Bruckschen E. [Treatment of chronic constipation with physiologic *Escherichia coli* bacteria. Results of a clinical study of the effectiveness and tolerance of microbiological therapy with the *E. coli* Nissle 1917 strain (Mutaflor)]. *Med Klin* 1994;89:587-93.
82. Squires PE, Rumsey RD, Edwards CA, Read NW. Effect of short-chain fatty acids on contractile activity and fluid flow in rat colon in vitro. *Am J Physiol* 1992;262:G813-7.
83. Yajima T. Contractile effect of short-chain fatty acids on the isolated colon of the rat. *J Physiol* 1985;368:667-78.
84. Forth W, Nell G, Rummel W, Andres H. The hydragogue and laxative effect of the sulfuric acid ester and the free diphenol of 4,4'-dihydroxydiphenyl-(pyridyl-2)-methane. *Naunyn Schmiedebergs Arch Pharmacol* 1972;274:46-53.
85. Leng-Peschlow E. Dual effect of orally administered sennosides on large intestine transit and fluid absorption in the rat. *J Pharm Pharmacol* 1986;38:606-10.
86. Voderholzer WA, Bartk J, Sonnenborn U, Schulze J, Lochs H, Müller-Lissner SA. The effect of probiotic *Escherichia Coli* Nissle 1917 on rat colonic Motility. *Eur J Gastroenterol & Hepatol* 2005;submitted.
87. Connell AM, Hilton C, Irvine G, Lennard-Jones JE, Misiewicz JJ. Variation of bowel habit in two population samples. *Br Med J* 1965;5470:1095-9.
88. Hotz J, Plein K. [Effectiveness of plantago seed husks in comparison with wheat bran on stool frequency and manifestations of irritable colon syndrome with constipation]. *Med Klin* 1994;89:645-51.
89. Francis CY, Whorwell PJ. Bran and irritable bowel syndrome: time for reappraisal. *Lancet* 1994;344:39-40.
90. Chaussade S, Khyari A, Roche H, Garret M, Gaudric M, Couturier D, Guerre J. Determination of total and segmental colonic transit time in constipated patients. Results in 91 patients with a new simplified method. *Dig Dis Sci* 1989;34:1168-72.
91. Lanfranchi GA, Bazzocchi G, Brignola C, Campieri M, Labo G. Different patterns of intestinal transit time and anorectal motility in painful and painless chronic constipation. *Gut* 1984;25:1352-7.

92. Müller - Lissner SA. Effect of wheat bran on weight of stool and gastrointestinal transit time: a meta-analysis. *British Medical Journal* 1988;296:615-617.
93. Aichbichler BW, Wenzl HH, Santa Ana CA, al. e. A comparison of stool characteristics from normal and constipated people. *Dig Dis Sci* 1998;43:2353-62.
94. Anti M, Pignataro G, Armuzzi A, al. e. Water supplementation enhances the effect of high-fiber diet on stool frequency and laxative consumption in adult patients with functional constipation. *Hepatogastroenterology* 1998;45:727-32.
95. Young RJ, Beerman LE. Increasing oral fluids in chronic constipation in children. *Gastroenterol Nurs* 1998;21:156-61.
96. Towers AL, Burgio KL, Locher JL, al. e. Constipation in the elderly: Influence of dietary, psychological, and physiological factors. *J Am Geriatr Soc* 1994;37:701-6.
97. Meier-Ruge WA, Ammann K, Bruder E, Holschneider AM, Schärli A, Schmittenebecher P, Stoss F. Updated results on intestinal neuronal dysplasia (IND B). *Eur J Pediatr Surg* 2004;14:384-91.
98. Tafazzoli K, Soost K, Wessel L, Wedel T. Topöographic peculiarities of the submucous plexus in the human anorectum - consequences for histopathologic evaluation of rectal biopsies. *Eur J Pediatr Surg* 2005;15:159-63.
99. Coerdts W, Michel KS, Rippin G, Kletzki S, Gerein V, Muntefering H, Arnemann J. Quantitative morphometric analysis of the submucous plexus in age-related control groups. *Virchows Arch* 2004;444:239-46.
100. Lennard-Jones JE. Constipation. In: Feldman M, Friedman LS, Sleisenger MH, eds. *Gastrointestinal and Liver Disease*. Volume 1. 7th ed. Philadelphia: Saunders, 2002:181-210.
101. Bijkerk CJ, Muris JW, Knottnerus JA, al. e. The role of different types of fiber in the treatment of irritable bowel syndrome. *Aliment Pharmacol Ther* 2004;19:245-51.
102. Koebnick C, Wagner I, Leitzmann P, al. e. Probiotic beverage containing *Lactobacillus casei* Shirota improves gastrointestinal symptoms in patients with chronic constipation. *Can J Gastroenterol* 2003;116:A1.
103. Gade J, Thorn P. Paragurth for patients with Irritable Bowel Syndrome. *Scand J Prim Health Care* 1989;7:23-26.
104. Niedzielin K, Kordecki H, Birkenfeld B. A controlled, double-blind, randomized study on the efficacy of *Lactobacillus plantarum* 299V in patients with irritable bowel syndrome. *Eur J Gastroenterol & Hepatol* 2001;13:1143-7.
105. Banaszkiwicz A, Szajewska H. Ineffectiveness of *Lactobacillus* GG as an adjunct to lactulose for the treatment of constipation in children: a double-blind, placebo-controlled randomized trial. *J Pediatr* 2005;146:364-9.