
INDEX

- Behavioral analysis
 defined, 302–304
 in irritable bowel syndrome, 284–285
 of peptic ulcer, 225
- Bernstein test of acid sensitivity in
 esophagus, 12
- Biofeedback
 for aerophagia, 6
 fecal incontinence, 326–328
 gastric acid secretion, 168–169, 226–228
 ruminative vomiting, 6
- Borborygmi (bowel sounds), 71
- Compliance of colon and rectum, 245–247
- Diabetes
 fecal incontinence in, 318–319
- Diffuse esophageal spasm
 chest pain, 5–6, 34
 motility, 11
 psychosomatic etiology, 23
- Diverticular disease
 colon motility in, 271
 defined, 235
 etiology, 301
 fiber treatment, 296
 myoelectric abnormalities in, 258
- Drugs
 aspirin and gastric ulceration, 213
 carbenoxolone in gastric ulcer treatment,
 221
 cimetidine in peptic ulcer treatment,
 221–222
- Drugs (*Cont.*)
 corticosteroids and gastric ulceration, 213
 metaclopramide in peptic ulcer treatment,
 221
 neostigmine induced colon motility,
 268–270
- Eating
 EEG effects, 189, 194
 gastric contractions induced by, 193
- Emotion
 Cannon WB fight or flight reaction,
 213–214
 colostomy observations of physiological
 correlates, 266–267
 effect on gastrointestinal functions,
 263–264
 gastric motility and secretion, 69, 161,
 196–199
 James–Lange theory of, 331, 341–342
 opposite effects of weak and strong vis-
 ceral stimuli, 357–359
 psychosomatic etiology, 213–214
- Esophageal manometry
 atlas of wave types, 5–6
 definition of wave types, 21–22
 diffuse esophageal spasm, 11
 normal values, 9
 scleroderma, 10, 36
 sleep, 28–29
 “Executive monkey” experiment, 200–201,
 203–204, 217–218
- Extinction of ruminative vomiting, 57–58

- Fecal incontinence
 habit treating for encopresis, 310
 prevalence, 299
- Gastric contractions
 problems with pressure measurements,
 72–73
 sleep effects on, 189–191
 typology of Code, 74–75
See also Emotion, Hunger, Visceral
 perception
- Gastrocolic reflex
 colon motility, 270–271
 definition, 241
 depressed patient with absence of, 267
 habit training for encopresis, 310
 hormone mediators of, 291–292
 irritable bowel syndrome abnormalities in,
 269–270, 291, 293
- General adaption syndrome of Hans Selye,
 213
- Globus hystericus, 23, 34
- Gracilis muscle transfer
 surgery for incontinence, 320
- Hertz AF(AF Hurst), 331, 334–335
- Hirschsprung's disease, 321
- Hormones
 gastrocolic reflex, 291–292
 motility response to, 242, 271–273
 esophageal motility disorders in pregnan-
 cy, 22, 37
- Hunger
 afferent pathways for satiety, 211
 Cannon WB theory, 331
 conditioned taste preferences, 341
 gastric contractions in, 69–70, 71, 75,
 185–187
- Individual response specificity and psychoso-
 matic etiology, 214–215
- Irritable bowel syndrome
 gastrocolic reflex abnormal, 269–270,
 291, 293
 myoelectric activity in, 258–259,
 272–275, 290
 pain from distension, 281–282
 perception of colon contractions, 345–346
 prevalence, 235
 psychological symptoms, 236, 278–280
- Learned helplessness, 203, 218
- Morbidity of all gastrointestinal disorders,
 209
- Mother–infant bonding in psychogenic
 vomiting, 47
- Motility index, 79–80
- Myoelectric activity
 colon serosal recording, 251
 diverticular disease, 258
 electrical response activity (ERA) of the
 stomach, 78–79
 esophagus, 21–22
 irritable bowel syndrome, 258–259,
 272–275, 290
 migrating myoelectric complex, 191
 relaxation oscillator theory, 77, 255,
 323–326
 spikes and gastric contractions, 77–78, 80
 skin surface recording, 252
See also Spectral analysis
- Overcorrection treatment for ruminative
 vomiting, 58
- Pavlovian conditioning
 cephalic phase of gastric secretion, 210
 conditioned taste preferences, 341
 of gastric acid secretion, 187, 263
 of lower esophageal sphincter in reflux
 esophagitis, 40–41
 psychogenic vomiting, 46–47
 reflex inhibition of acid secretion, 216
 of salivation, 263
- Peptic ulcers
 animal models, 66
 aspirin in, 213
 behavioral analysis of ulcer pain, 225
 biofeedback for, 226–227
 carbenoxolone in, 221
 cimetidine for, 221–222
 corticosteroids in, 213
 “executive monkey” study, 200–204,
 217–218
 learned helplessness, 218
 metaclopramide for, 221
 mucus in etiology of, 213
 prevalence, 65
 psychotherapy, 223
 Zollinger–Ellison syndrome in, 213

- Pneumostatic dilation for achlasia, 35–36
- Positive reinforcement treatment for rumina-
tive vomiting, 57
- Pregnancy
 esophageal motor disorders in, 22, 37
- Presbyesophagus, 22, 34
- Prevalence of gastrointestinal disorders
 all, 209
 diverticular disease, 235–236
 fecal incontinence, 299
 irritable bowel syndrome, 235
 peptic ulcers, 65
 presbyesophagus, 22, 34
- Punishment
 ethics of taste aversion treatment, 56
 ethics of shock treatment, 54
 treatment of vomiting, 52–53
- Radio-opaque marker study of bowel transit,
 248
- Reflux esophagitis
 acid clearance during sleep, 14–18
 Bernstein test of acid sensitivity, 12
 Pavlovian conditioning in, 40–41
 pH monitoring in, 12–14
- Scleroderma
 esophageal motility in, 10, 36
- Sleep
 acid clearance from the esophagus, 14–18
 esophageal motility, 28–29
 gastric motility and secretion, 189–191
 pulmonary aspiration in, 20
- Smoking
 and gastric ulcers, 213
 and lower esophageal sphincter, 37
- Spectral analysis
 computer software for, 135, 140
 Fourier transforms defined, 97–98
 interpretive problems, 100–103, 107
 sampling rate theory, 138
 window transformations, 138–139
 See also Myoelectric activity
- Spina bifida
 biofeedback for incontinence, 327–328
 external anal sphincter in, 315
- Spina bifida (*Cont.*)
 fecal incontinence in, 299, 305, 307
- Telemetry, 71–72, 165, 173–174
- Thiry-Vella loop, 353–354
- Ulcerative colitis
 colon motility in, 240, 247, 268–270
 psychological characteristics, 279
- Visceral perception
 afferent nerves, 333
 alpha EEG blocking test of, 355
 animal models of, 337, 352–353
 awareness defined, 333–334
 awareness of gastrointestinal activity,
 334–335, 353–354
 and behavioral self-regulation, 216, 341,
 347
 of colon contractions, 345–346
 conditioned taste preferences, 341
 cultural differences in, 183–185
 discrimination without awareness, 334
 forced-choice test, 319
 habituation–discrimination test, 356
 of heart beats, 337
 Hertz, 331, 334–335
 Lacey intake–rejection theory, 215–216
 pain from colon distension, 281–282
 of rectal distension, 338
 stomach contractions, 334, 336–339, 344
 symptom perception questionnaire,
 182–185
 Thiry-Vella loop preparation, 353–354
- Vomiting (psychogenic)
 biofeedback treatment of, 6
 extinction for, 57–58
 mother–infant bonding, 47
 overcorrection for, 58
 Pavlovian conditioning, 46–47
 positive reinforcement, 57
 punishment, 52–54
 taste aversion punishment of, 56
- Zollinger–Ellison syndrome
 gastric ulcers in, 213