



Index

Note: Page numbers of article titles are in **boldface** type.

A

- Aging, functional factors of, affecting nutritional status, 358
 - physiologic factors of, affecting nutritional status, 356–357
 - psychosocial factors of, affecting nutritional status, 357–358
- Alcohol, as influence on nutritional status, 358–359
- Amino acids, 195–196
- Anabolic steroids, 251
- Anorexia nervosa, diagnostic criteria for, 397
 - incidence of, 397
 - physical symptoms of, 398
 - systemic problems associated with, 390–391
- Antifluoridationists, 228–229

B

- Bacteria, cariogenic, xerostomia and, 320
 - oral, and diet, 320
- Beverages, fluoride content of, 233
- Binge eating disorder, 400
- Bisphosphonates, 220
- Blood count, complete, 268–271, 272
- Body mass index/weight-for height ratio, for children, 280–281
- Bone, calcium in, 213–215
 - effects of parathyroid hormone and calcitonin on, 215, 216
 - formation and resorption of, 213–214
 - health of, and periodontal disease, 215
- Bone density, total body, 219
- Bulimia nervosa, diagnostic criteria for, 399
 - incidence of, 398–399
 - medical consequences of, 399

C

- Caffeine, 251
 - and ephedra, 251
- Calcitonin, 213, 214
 - and parathyroid hormone, effects on bone, 215, 216
- Calcium, 247
 - absorption of, 210–212
 - and osteoporosis, 218–219
 - dietary, and periodontal disease, 317
 - domains in vertebrate body, 209
 - duodenal cell and, 211–212
 - excretion of, 217–219
 - foods rich in, 210
 - homeostasis, 212–213
 - in bone, 213–215
 - in luminal fluid, 210–211
 - in mammals, 209
 - in plasma, 212–213
 - parathyroid hormone and, 213
 - in teeth, 215–217
 - nutrition and metabolism of, **209–224**
 - sources of, 247
 - transcellular movement of, 211
- Cancer, development of, dietary compounds and, 414
 - incidence of, vegetable and fruit consumption and, 415
- Cancer patient, nutritional status of, 385–386
- Capsaicin, 252
- Carbohydrates, 191–193
 - classifications of, 192, 324
 - recommendations for diet, 192
 - sugars, and sweeteners, caries-promoting potential of, 322, 323
- Caries. *See Dental caries.*
- Child(ren), caries in, dairy products and, 325–326
 - disorders in, nutrition-related, 287
 - emotional development of, and foods for, 285–286

- Child(ren) (*continued*)
 food choices of, 294–295
 environmental influences on, 286
 food environment and, 296–297
 nutrient requirements of, 281–284
 obesity in, 289–291
 physical development of, and foods for, 284–285
 snacking and drinking by, 295–296
 weight and height assessments in, 280–281
- Cleft lip/cleft palate, closure of, postssurgical feeding and, 309–312
 dental disease in children with, 313
 etiology of, 305–306
 impact on nutritional health and oral-motor development, **305–317**
 infants with, breast feeding and, 312–313
 nutritional requirements of, 307–312
 oral-motor development in, 306–307
- Coenzyme Q10, 250
- Committee on Diet and Health, 187
- Committee on Dietary Allowances, 187
- Cranial nerve, impaired function of, nutritional status and, 268, 270
- Creatine, 251–252
- Cytokines, in wound healing, 374–377

D

- Dairy products, childhood caries and, 325–326
- Dental caries, diet and, synergy between, 319–321
 early childhood, 287–288
 in eating disorders, 402–403
 nutrition and, **319–336**
 prevention of, dietary factors in, 325–327
 fluoride in, 225, 227–228
 promotion of, dietary factors in, 321–325
- Dental disease, in children with clefts, 313
- Dental health, diet and, 269–261
 of older adults, 360
- Dental practitioners, practice points for, 255
- Dental prevention programs, in eating disorders, 405–407
- Dentin, hypersensitivity of, in eating disorders, 403

- Dentoalveolar surgery, dietary considerations and, 382–384
- Dentures, diet suggestions in use of, 364–365, 366
 effect on food choices and general health, 361–362
 effect on taste, swallowing, and chewing, 360–361
- Diabetes mellitus, dental treatment in, 389–390
- Diet(s), and dental caries, synergy between, 319–321
 and dental health, 269–261
 and nutrition, evaluation of, 271–275
 in pediatric dentistry, **279–303**
 effects on periodontal health, 349–351
 habits, and oral health, 294–297
 of older adults, recommendations for, 362–366
 oral bacteria and, 320
 pediatric, guidelines for, 281–286
 recommendations for, for caries prevention, 327–328
 to combat obesity, 415–421
- Diet and health guidelines for Americans, 189, 190
- Dietary counseling, for prosthodontic patients, **355–371**
 in pediatrics, 297–300
- Dietary education, and dietary screening, in dental practice, 328–332
- Dietary factors, in prevention of caries, 325–327
 in promotion of caries, 321–325
- Dietary reference intakes, 187–189
- Dietary screening, and dietary education, in dental practice, 328–332
 for older adults, 362
- Dietary supplement(s), certification of, 246
 definition of, 245–246
 medications and, 265
- Dwarfism, psychosocial, 292

E

- Eating, disordered, 292–293
 subconscious, 296
- Eating disorders, dental prevention programs in, 405–407
 oral manifestations of, 400–405
 recognition and management of, in dental office, **395–410**

systemic problems associated with,
390–391

Echinacea, 252

Enteral feeding, for surgical patient,
386–388

Ergogenic acids, 250–252

F

Failure to thrive, protein energy
malnutrition and, 288–289

Fat(s), daily requirements of, 194–195
dietary, 193–194
oral health and, 195
polyunsaturated, 194

Fat substitutes, 195

Fluid hydration, for surgical patient,
388–389

Fluoride(s), added to water, 225, 226–229
daily ingestion of, 235–236
dietary supplements, 229–230
in caries prevention, 225, 227–228
role in nutrition, **225–243**
sources in diet, 232
therapeutic, 226–232
to treat osteoporosis, 220–221
toxicity, 236–238

Fluorosis, skeletal and dental, 236–238

Food(s), choices of, for children, 294–295
fluoride content of, 232–233
functional, 411–413
examples of, 412
rationale for, 412–413
labels on, 190

Food environment, children and,
296–297

Food guide pyramid, 189, 191

Food pyramid, for older adults, 363, 366

Fructose, malabsorption of, 291–292

G

Garlic, 252–253

Gingivitis, 337–338

Ginseng, 253

Green tea, 253

Growth, definition of, 202
nutrients and, 202

Growth and development, normal, 279–281

Growth factors, in wound healing, 377–378

Guarana, 253

H

Health, promotion of, nutrition for,
411–423

Herbal medicines, and surgical patient,
381–382, 383

Herbal supplements, 252–254

Hormone replacement therapy, 220

I

Immune senescence, 348

Immune status, alterations in, persons at
risk for, 348

Immune system, and periodontal disease,
341–342

Immunity, infection, and nutritional status,
interaction of, 340–349
malnutrition and, 343
nutritional strategies to enhance,
350–351

Infant, nutrition of, transition stage of, 284
with clefts, breast feeding and,
312–313
nutritional requirements of,
307–312

Infant formulas, fluoride content of,
234–235

Infection(s), effect on nutritional status,
346–348
immunity, and nutritional status,
interaction of, 340–349
nutrition, and periodontal disease,
337–354
oral, 360
prevention of, nutritional strategies
for, 350–351

Intraoral and extraoral examination, in
nutrition evaluation, 267–268

Iron deficiency, in children, 293–294

K

Kava, 254

L

Labels, food, 190

Lipids, dietary, 193–195

Lysine, 246–247

M

Ma Huang, 251

Malnutrition, and immunity, 343
enamel hypoplasia associated with, 320

Medications, as influence on nutritional status, 358
dietary supplements and, 265
herbal, and surgical patient, 381–382, 383

Metabolic response, in response to surgery/injury, 374, 375

Microbiologic flora, oral, 338–340

Micronutrients, deficiencies of, and immune response, 343–346

Microorganisms, periodontal disease due to, 339

Milk, fluoridated, 231

Minerals, 203–204
dietary sources of, 200–201
requirements for, 200

N

Neurohumeral mediators, in response to surgery/injury, 374

Nutrients, 191–202
antioxidant properties of, 205
in oral tissues growth, development, and health, 202–205

Nutrition, and dental caries, **319–336**
and oral health, **187–207**
and wound healing, 378–380
definition of, 187
diet and, evaluation of, 271–275
in pediatric dentistry, **279–303**
for health promotion, **411–423**
for surgical patient, **373–393**
gerodonic, for prosthodontic patients, **355–371**
infection, and periodontal disease, **337–354**
of older adults, optimizing of, 362–366
plaque biofilm and, 339–340
role of fluorides in, **225–243**

Nutrition Labeling and Education Act of 1990, 190

Nutrition-risk questions, 277–278

Nutrition-risk screens, 260–262

Nutritional screening, 259

Nutritional status, clinical and laboratory assessment of, **259–278**
effect of infection on, 346–348
evaluation of, in surgical patient, 380–381
immunity, and infection, interaction of, 340–349
laboratory tests to assess, 268–271
medical history and, 263–265
of older adults, 355–356
patient history and, 262–263
physical assessment of, 265–268
systemic diseases associated with, 263, 269

Nutritional supplements, 246–250
definition of, 246
ergogenic acids, and herbals, **245–258**
uses and concerns for dental practitioner, 248–249

Nutritional support, for surgical patient, 386–389

O

Obesity, childhood, 289–291
dental treatment in, 391–392
diets to combat, 415–421

Older adults, dental health of, 360
nutritional status of, 355–356
optimizing diet and nutrition in, 362–366

Oral health, dietary habits and, 294–297
nutrition and, **187–207**

Orthognathic surgery, dietary considerations and, 384–385

Osteoblasts, 214–215

Osteocytes, 215

Osteoporosis, calcium and, 219–221
diet and, 293
treatment of, 220–221

P

Parathyroid hormone, and calcitonin, effects on bone, 215, 216
calcium in plasma and, 213

Parenteral nutrition, total, for surgical patient, 388

Pediatric dentistry, diet and nutrition in, **279–303**

Pediatrics. See also *Child(ren)*.
dietary counseling in, 297–300

Periodontal disease, vitamin C and, 247–250

Periodontal disease, bone health and, 215
 dietary calcium and, 217
 immune system and, 341–342
 in eating disorders, 404
 microorganisms associated with, 339
 nutrition, and infection,
337–354

Periodontitis, 337–338

Periodontium, effects of dietary intake on,
 349–351

Phytochemicals, compounds included in,
 413
 functions of, 413–414
 health promoting effects of, 413

Pica, 292

Plant foods, as anticariogenic agents,
 326–327

Plaque biofilm, 338–339
 host nutrition and, 339–340

Plasma, calcium in, 212–213
 parathyroid hormone and, 213

Prosthetic patients, gerodontic nutrition
 and dietary counseling for, **355–371**

Protein(s), complete, 196
 dietary, 195–197
 inadequate intake of, 196
 serum-circulating, nutritional status
 and, 381

Protein energy malnutrition, and failure to
 thrive, 288–289

Provitamin, 199–200

R

Recommended dietary allowances, 187, 189

Research issues, 254

Rumination, 292

S

Saliva, function of, 320

Salivary glands, hypertrophy of, in eating
 disorders, 404

Salt, fluoridated, 230–231

SMA panel, 271–273

Soft tissue, lesions of, in eating disorders,
 405

Stature, assessment of, in children, 280

Steroids, anabolic, 251

Stool, calcium excretion in, 218–219

Sugar(s), accusations against, 192–193
 carbohydrates, and sweeteners, caries-
 promoting potential of, 322, 323
 forms of, in processed foods, 193

Sugar substitutes, caries-promoting
 potential of, 326

Supplements. See also *Dietary
 supplement(s)*; *Nutritional
 supplements*.
 interactions of, 254–255
 questions regarding use of, 255

Surgical patient, evaluation of nutritional
 status in, 380–381
 herbal medicines and, 381–382, 383
 nutritional considerations in,
373–393
 nutritional support for, 386–389

Sweeteners, alternative, 193
 carbohydrates, and sugars, caries-
 promoting potential of, 322, 323
 caries-promoting potential of, 326

Systemic diseases, associated with
 nutritional status, 263, 269

T

Taste and smell, as influence on nutritional
 status, 359–360

Tea tree oil, 253–254

Teas, caries prevention and, 327

Tooth(Teeth), calcium in, 215–217
 development of, nutrition and, 204
 erosion of, in eating disorders,
 400–402, 403

Trace minerals, 200

Trauma surgery, dietary considerations
 and, 385

Triglycerides, 194

U

Ubiquinone, 250

Urine, calcium excretion in, 217–218

V

Valerian, 254

Vitamin A, importance of, 205

Vitamin C, deficiency of, effects of, 205
 periodontal disease and, 247–250

Vitamins, bioavailability of, 199
classification of, 200, 201–202
in foods, forms of, 199–200
Vomiting, chronic, oral symptoms of, 401

W

Water, as essential nutrient, 197
bottled, purity of, 199
sources of, 199
clean, treatments to produce, 198–199
daily requirements of, 197, 199
dietary sources of, 197
drinking, sources of, 198
fluorination of, 226–227
effectiveness in caries prevention,
227–228
opposition to, 228–229

Weight, assessment of, in children, 280
Weight-for-height ratio/body mass index,
for children, 280–281
Wound healing, 374–378
nutrition and, 378–380

X

Xerostomia, cariogenic bacteria and, 320
causes of, and dental problems
caused by, 359
due to chemotherapy, 386
in eating disorders, 403

Y

Yohimbe, 253