

THE DENTAL CLINICS OF NORTH AMERICA

Dent Clin N Am 47 (2003) 757-774

Cumulative Index

Volume 47

January	MINORITY ORAL HEALTH, pages 1–186
April	NUTRITION AND ORAL HEALTH, pages 187–430
July	INFECTIONS, INFECTIOUS DISEASES AND DENTISTY, PART I, pages 431–604
October	INFECTIONS, INFECTIOUS DISEASES AND DENTISTY, PART II, pages 605–774

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

Α

Abscess, mandibular, gram-positive staphylococci in, 615

Acquired immune deficiency syndrome. See AIDS.

Acyclovir, in herpes zoster, 523

African American(s), children, prevalence of *Streptococcus mutans* in, 89 in New York City, prevalence of dental caries among, **57–65** male, study of untreated syphilis in,

maternal transmission of

Streptococcus mutans in, 87–101

preterm low birth weight and
peridontal disease among,
115–125

urban, incidence of orofacial injuries in, 141

Aging, functional factors of, affecting nutritional status, 358 physiologic factors of, affecting nutritional status, 356–357 psychosocial factors of, affecting nutritional status, 357–358

AIDS, 467

incidence of, 468 non-Hodgkin's lymphoma in, 541–542 periodontal disease and, 160 reporting of cases of, 467 US surveillance data on, 468

Airborne transmission, of occupationally acquired infections, 642

Alcohol, as influence on nutritional status, 358–359

American Dental Association, role of dentistry in bioterrorism and, 733 statement on water used in dental treatment, 553

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

Anthrax, 736–738 cutaneous, 738 gastrointestinal, 737–738

Antibiotic efflux pumps, multidrug, 631

Antibiotic prophylaxis, as benefit to doctor, 675 financial aspects of, 674–675 for immunocompromised patients, 675 for patients at risk for oral metastatic

> infections, 675 for reduction of bacteremias, 671–673

in immune deficiency, 727 nonvalvular cardiovascular devices and, 675 principles of, 666–668 problems associated with,

665-679

surgical indications for, 666, 667 to prevent bacterial endocarditis, 665

Antibiotic resistance, 623-639 oral, and diet, 320 definition of, 632 pneumonia and, 583-584 dentistry and, 633-635 Bacterial challenge, subgingival, host development of, 634–635 response to, among ethnic/racial transposable, 628-629 group, 110-111 Antibiotics, beta-lactam, viridans group Bacterial cultures, from maxillofacial streptococci and, 626 infections, media for culture of, 611 enzymatic inactivation of, 630 processing of, problems associated ideal duration of use of, 635 with, 619 inappropriate use in dentistry, 633-634 Barrier techniques, to prevent transmission macrolide, resistance to, 627 of tuberculosis, 460-461 mechanisms of action of, 627-628 Beta-lactamase enzyme, 630 microbial resistance to, mechanisms of, 629-633 Beta-lactamases, 630 "new," 632 Beverages, fluoride content of, 233 "recycling" of, 633 resistance of Streptococcus viridans to, Binge eating disorder, 400 Biofilm(s). See also Bacteria. Antifluoridationists, 228-229 and dental equipment design, 547-548 Antiretroviral therapy, highly active, in HIV definition of, 546 disease, 472-473, 477, 483 nature of, 546-547 oral side effects of, 473, 474 quorum sensing and, 547 toxicities associated with, 473-474 Biological agents, 736-740 CDC categories of, 736 Antitubercular therapy, drug interactions Biological warfare, history of, 734-735 Arthritis, rheumatoid, and periodontitis, 584-585 Biomedical research, recruitment for, access treatment of, 585 to health care and, 7 confidence in efficacy of Athersclerosis, oral infections and, 575 treatments and, 8 difficulties in, 4 educational level and, 8 B-cells, 642-643 potential unpleasantness of, interventions and, 7 Bacille Calmette-Guérin vaccine, 455 Biopsies, for diagnosis of Creutzfeldt-Jakob Bacillus anthracis, 733, 736-737 disease, 507, 510-511 Bacteremia(s), incidence of, 668-669 Bioterrorism, dentistry and, 733-744 oral cavity and, 668-669 increasing threat of, 735 reduction of, antibiotic prophylaxis responding to, dentistry's role in, and, 671-673 741-743 viridans group streptococci, 626 Bioweapons, 735 Bacteria, and systemic conditions with Bisphosphonates, 220 susceptibility to infection, 551 as building blocks of biofilms, 546 Blood, occupational exposures to, cariogenic, xerostomia and, 320 prevention of, 684-685 cultures, sensitivity pattern of, occupational transmission of antibiotic discs and, 617 pathogens in, risk of, 682-684 gram-negative heterotrophic, in water, Blood count, complete, 268-271, 272 546 in dental waterlines, 548-549 Blood dyscrasias, 719 entry into patient during dental

Blood products, Creutzfeldt-Jakob disease

and, 502

procedures, 550

potential pathogenicity of, 549

Blood tests, for diagnosis of Creutzfeldt-Jakob disease, 506	in plasma, 212–213 parathyroid hormone and, 213
Bloodborne infectious disease, healthcare workers with, American College Health Association and, 751 American Dental Association	in teeth, 215–217 nutrition and metabolism of, 209–224 sources of, 247 transcellular movement of, 211
and, 750 Centers for Disease Control and Prevention and, 745–746, 747–748	Cancer, development of, dietary compounds and, 414 incidence of, vegetable and fruit consumption and, 415
disability antidiscrimination laws and, 752–755 employment discrimination cases against, 753–754 legal issues for, 745–756 precautions for, 748 risk for transmission, 745–746, 748–749 Society for Healthcare Epidemiology of America, 750–751 occupationally acquired, 642	Cancer patient, nutritional status of, 385–386 Cancrum oris. See <i>Noma</i> . Candidiasis, oral pseudomembraneous, of buccal mucosa, 476 Capsaicin, 252 Carbohydrates, 191–193 classifications of, 192, 324 recommendations for diet, 192 sugars, and sweeteners,
Body mass index/weight-for height ratio, for children, 280–281	caries-promoting potential of, 322, 323
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 Bovine spongiform encephalopathy, 493,	Cardiovascular disease, and periodontitis, 575–577 epidemiologic studies in, 576, 578–579, 580, 581 treatment of, 577 atherosclerosis in, 575 pathogenesis of, 576–577 risk factors for, 575–576
Hulimia nervosa, diagnostic criteria for, 399 incidence of, 398–399	Caries. See <i>Dental caries</i> . dental. See <i>Dental caries</i> . Cell mediated deficiencies, 713
medical consequences of, 399	Cellular immunity, impaired, pathogens associated with, 711
C Caffeine, 251 and ephedra, 251	Central nervous system, transmissible spongiform encepahlopathies and, 500, 502–503
Calcitonin, 213, 214 and parathyroid hormone, effects on bone, 215, 216	Charles Drew University of Medical Sciences, 127, 178
Calcium, 247	Chemotherapy, in tuberculosis, 457
absorption of, 210–212 and osteoporosis, 218–219	Chickenpox, 522
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	Child(ren), African American, prevalence of <i>Streptococcus mutans</i> in, 89 caries in, dairy products and, 325–326 disorders in, nutrition-related, 287 emotional development of, and foods for, 285–286 food choices of, 294–295 environmnental influences on, 286

Child(ren) (continued) food environment and, 296–297 HIV-infected, oral manifestations in, clinical implications of, 159–174 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	inherited, 498 clinical features of, 498 maxillofacial surgery in, 511 percutaneous exposure to fluids of patients with, 510 persons at risk of developing, 509–510 possible causes of, 497–498 suspected cases of, management of, 509 symptoms of, 497
Chlorhexidine, treatment using, effect on maternal transmission of <i>Streptococcus</i>	Cyclosporin, 723 Cystic fibrosis, susceptibility to infections and, 551
mutans, 96–97	Cytokines, in wound healing, 374–377
Chronic wasting disease, 495 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,	Cytomegalovirus, 540–541 as clinical marker for AIDS, 525 infection with, diagnosis of, 525 in immunosuppressed patients, 524 in neonates, 524 treatment of, 526 transmission of, 524 Cytotoxic drugs, neutropenia and, 716
307–312 oral-motor development in, 306–307	D
Coenzyme Q10, 250	Dairy products, childhood caries and,
Committee on Diet and Health, 187	325–326
Committee on Dietary Allowances, 187	Delta hepatitis, 660
Complement deficiencies, pathogens associated with, 711, 713, 714 Condyloma acuminatum, human papilloma virus-associated, 477, 482	Dental caries, analysis of, in HIV-infected children, 161 and composition of whole saliva in minority populations, 67–85 causes of, 159
Consumption. See <i>Tuberculosis</i> .	diet and, synergy between, 319-321
Cranial nerve, impaired function of, nutritional status and, 268, 270	early childhood, 287–288 in eating disorders, 402–403 nutrition and, 319–336
Creatine, 251–252	prevalence among African Americans in New York City, 57–65
Creutzfeldt-Jakob disease, acquired, 498–501 Kuru, 498 transmission of, 501–502 vCJD, 499–501 as transmissible spongiform encephalopathy, 493 associated with dental treatment, 503–504, 506, 507–508 clusters of, 504 diagnosis of, 505–509 identification of patients with, 508 in exposure to bovine spongiform	study of, clinical implications of, 63–64 data analysis in, 60 discussion of, 62 methods of, 59–60 results of, 60–62 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
encephalopathy, 499 incidence of, 497	Dental equipment, design of, biofilms and, 547–548

Dental health, diet and, 269–261 of older adults, 360

Dental office, waterborne infections and, 545

Dental practitioners, practice points for, 255

Dental prevention programs, in eating disorders, 405–407

Dental schools, recruitment of minorities to,

Dental treatment, complications from, in HIV disease, 483–486 risk of bacterial endocarditis due to, 670–671

Dental waterlines. See Waterlines, dental.

Dentin, hypersensitivity of, in eating disorders, 403

Dentist(s), ethnicity of population and, 30 illness of, due to exposure to contaminated dental treatment water, 552–553 role in response to bioterrorism, 741–743 transmission of tuberculosis by, 460 visits to, by race/ethnicity, 33–36

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, and periodontitis, 585–586 treatment of, 586 dental treatment in, 389–390

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

Diet(s), and dental caries, synergy between,

Diet and health guidelines for Americans, 189, 190

prevention, 327-328

to combat obesity, 415-421

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

Disinfection, methods of, 702–703 of patient care items, infections and, 699–700

DNA oncogenic viruses, 535–541 Dwarfism, psychosocial, 292

F

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

Electroencephalogram, for diagnosis of Creutzfeldt-Jakob disease, 506

Encephalopathy(ies), bovine spongiform, 493, 495 scrapielike spongiform, 495 transmissible mink, 495 transmissible spongiform, agents, inactivation of, 508 and dentistry, 503-504 animal, 493, 495 Creutzfeldt-Jakob disease as, 493 description of, 493 infection control and dental treatment in, 505, 507-508, infectious agents in, 494–495 orofacial manifestions of, 503 pathogenesis of, 501 prions and, 493-516

treatment of, 503

Endocarditis, bacterial, absolute risk rate for acquiring, 671, 672 antibiotic prophylaxis to prevent, 665 oral micro-organisms and, 669–670 periodontal disease and, 669 prevention of, best case scenario for, 673 risk of, due to dental treatment, 670–671 Streptococcus viridans and, 668, 669 infective, and oral bacteria, 577–583 bacteria causing, 582 conditions predisposing to, 582 dental treatment and, 583 pathogenesis of, 582 treatment of, 582	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 Fluoroquinolones, resistance to, viridans group streptococci and, 627 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
Endotoxin, 551	labels on, 190
results of exposure to, 551–552	Food environment, children and, 296–297
Enteral feeding, for surgical patient,	Food guide pyramid, 189, 191
386–388 Environmental factors, and health behavior,	Food pyramid, for older adults, 363, 366
25, 26–28	Forsyth Institute laboratories, 179
Enzyme-linked immunosorbent assay, 470	Fructose, malabsorption of, 291–292
Eosinophils, 642	C
Epstein-Barr virus, neoplasms associated	G Garlic, 252–253
with, 538–539 oral hairy leukoplakia and, 527 transmission of, 539	Gingival disease, in HIV disease, 482, 483
Epstein-Barr virus infection, chronic active, 526 malignancies associated with, 526–527 symptoms of, 526	Gingivitis, 337–338 acute necrotizing, incidence of, 560–561 precursor to noma, 559–560, 564–565
Ergogenic acids, 250–252	necrotizing ulcerative, fusobacteria
Erythema multiforme, recurring, recurrent	and spirochetes in, 616 Ginseng, 253
herpes simplex virus and, 520 Ethambutol, in tuberculosis, 457	Granulocytopenia, 719, 722
side effects of, 462	Green tea, 253
F	Growth, definition of, 202 nutrients and, 202
Failure to thrive, protein energy malnutrition and, 288–289	Growth and development, normal, 279–281
Fat(s), daily requirements of, 194–195 dietary, 193–194 oral health and, 195 polyunsaturated, 194	Growth factors, in wound healing, 377–378 Guarana, 253
Fat substitutes, 195	н
Fluid hydration, for surgical patient, 388–389	Hairy leukoplakia, 476, 477 Epstein-Barr virus and, 527

Head and neck, tuberculosis of, 453 pathogenesis of, 434–443 symptoms of, 431 Health, and health behavior, models for systems affected by, 434 studying, 24-26 types of, 434 determinants of, 22-24 promotion of, nutrition for, Hepatitis A, 646, 647–648 411-423 Hepatitis A vaccine, 656-657 Health behavior(s), and health, models for Hepatitis A virus, acute hepatitis due to, 436 studying, 24-26 Centers for Disease Control and and health perceptions, understanding Prevention recommendation on. of, 21-39 435 environmental factors and, 25, 26–28 countries with endemicity for, 435 predictors of, 25 infection with, management of, 444 pre-exposure prophylaxis and, 435 Health care facility, transmission of tuberculosis in, risk categories for, 460 transmission of, factors increasing risk of, 435 Health care issues, promotion of, minorities in communications professions and, Hepatitis A virus vaccines, vaccination 35 - 36schedules for, 435, 436 Health care provider(s), and Hepatitis B vaccine, 646, 654-656, 661 patient-provider issues, 29 Hepatitis B virus, as cause of chronic bloodborne infectious disease in. See hepatitis, 437 Bloodborne infectious disease, carriers of, 437 healthcare workers with. exposure to, assessment and future vaccinations for, 660–661 emergency management of, immunizations and, 641-664 687-688 contraindications, precautions, management of, 691 and adverse reactions to, postexposure prophylaxis and, 657-658 686–687, 688–689, 690, 692 immunocompromised, vaccine reporting of, 686-687 considerations for, 658–660 hepatitis C virus, and HIV disease, immunoprophylaxis for, risk, prevention, and recommended, 647, 648 management of, 681-696 professions included as, 646 in hepatocellular carcinoma, 540 specific vaccines for, 649-657 infection with, treatment of, 444 Health insurance, by race/ethnicity, morbidity and mortality associated 27 - 28with, 645-646 occupational transmission of, risk of, Health perceptions, and health behaviors, 683 understanding of, 21-39 risk groups for, 437 Heavy metals, antibiotic resistant genes and, transmission of, 436 632 Hepatitis B virus infection, vaccination against, 686 Hematopoietic cell transplant, 721 posttransplant complications of, Hepatitis B virus vaccine, recommended 721-722 doses of, 438 Hepatitis, acute, hepatitis A as cause of, 436 Hepatitis C, vaccine for, development of, causes of, 432 660-661 chronic, hepatitis B as cause of, 437 definition of, 431 Hepatitis C virus, chronic, 439 exposure to, assessment and human viral, advances in diagnosis and management of, 431-447 emergency management of, chronic, 433-434 687-688 diagnosis of, 432-434 management of, 691-693 blood test for, 432–433 postexposure prophylaxis and, imaging techniques for, 432 686-687, 688-689, 690 liver function tests in, 433 reporting of, 686-687

genotypes of, 440

HIV disease and, 475

Hepatitis C virus (continued) hepatitis B virus, and HIV disease,	Herpesvirus type 8, neoplasia associated with, 539–540
risk, prevention, and management of, 681–696 incidence of, 439–440	Herpesviruses, characteristics of, 517–518
infection with, management of, 444–445	Hispanic population, in United States, 41–43
neoplasms associated with, 540 occupational transmission of, risk of,	oral health promotion for, obstacles to, 43
683–684 risk groups for, 438, 439 transmission of, 438	Hispanic subgroups, in New York City, dental health status and treatment needs of, 41–55
Hepatitis D virus, 441 and hepatitis B virus infection, 441 genotypes of, 441	study of, discussion of, 51–53 methods of, 43–44 results of, 44–51
Hepatitis Delta virus, 660	HIV, in neoplasms, 541-542
Hepatitis E virus, 441–442 infection with, management of, 445	HIV-associated Kaposi's sarcoma, oral mucosal lesions of, 539 prevalance of, 541
Hepatitis F virus, 442 infection with, management of, 445	HIV disease, 467–492
Hepatitis G virus, 442–443 infection with, management of, 445	and tuberculosis, 454–455 antiretroviral drug-resistant transmission of, 474
Hepatocellular carcinoma, viruses in development of, 540	clinical staging of, 471 course of, and laboratory monitoring
Herbal medicines, and surgical patient, 381–382, 383	of, 471 dental treatment considerations in, 483–486
Herbal supplements, 252–254	dentists in diagnosis of, 470
Herpes labialis, recurrent, 519-520	diagnosis of, 470 exposure to, assessment and
Herpes simplex infections, diagnosis of, cytology smears for, 521 immunomorphologic tests for, 521 serologic tests for, 522	emergency management of, 687–688 management of, 688 postexposure prophylaxis and, 686–687, 688–689, 690
virologic tests for, 520–521 primary, 518–519	reporting of, 686–687 hepatitis B virus, and hepatitis C virus, risk, prevention, and
recurrent, 519–520	management of, 681-696
Herpes simplex virus(es), 540–541 types of, 518	hepatitis viral infections with, 475 medical management of, 472–475
Herpes zoster, 522–524 acyclovir in, 523 and postherpetic neuralgia, 523–524 in immunocompromised patients, 523 symptoms of, 523	occupational exposure to, 469 occupational transmission of, risk of, 682–683 opportunistic disease and, prevention and treatment of, 474–475 oral mucosal lesions in, and
Herpesvirus 6, human, 527 in immunocompromised patients, 527–528	periodontal disease, 475–482 oral opportunistic diseases and, 478–481
treatment of, 528	pathogenesis of, 469-470
Herpesvirus 7, human, 528–529	reporting of cases of, 467 salivary gland dysfunction in,
Herpesvirus-6B, roseola and, 527	477–482 suppression of HIV viremia and,
Herpesvirus infections, update on, 517-532	472–475

testing for, 470 transmission of, 469 by dentists, 746	Immune system, 710 and periodontal disease, 341–342
hepatitis B virus immunization	dysfunction of, results of, 710
and, 747 prevention of, 747 vaccine for, development of, 661	Immune systen, immunizations and, 641–645
HIV-infected children, oral manifestations in, 159–174 discussion of, 168–172 study of, caries prevalence and incidence of, 164–165 demographics and, 160–161 dental caries analysis and, 161 methods of, 160–163 oral mucosal lesion analysis	Immunity, infection, and nutritional status, interaction of, 340–349 malnutrition and, 343 nutritional strategies to enhance, 350–351 Immunization(s), active, 644 and immune system, 641–645 for health care providers, contraindications, precautions, and adverse reactions to,
and, 162, 165–166 periodontal disease analysis in, 162, 166–168 statistical analysis and, 162–163	657–658 health care providers and, 641–664 indicated for oral health personnel, 645–646 passive, 644
Hormone replacement therapy, 220	process of, 643 terms associated with, 644
Hospital, inner-city public, population served by, 128 profile of, 128	Immunocompetent states, immunologic events in, 710
Host defense, disorders affecting, 710–712 Human immunodeficiency virus. See <i>HIV disease</i> .	Immunocompromised host, dental considerations in, 726–727 host integrity and, 723–724 oral health care for, 723 risk of infection in, 724
Humoral deficiencies, 713 Huntsville Study, 12	Immunocompromised patients, antibiotic prophylaxis for, 675 definition of, 709 management of, dental clinician and, 709
IgA deficiency, 712–714	Immunodeficiency disease, common
IgG levels, <i>Porphyromonas gingivalis</i> , and low birth weight, 120, 121	variable, 714 severe combined, 714
Illness, human, in exposure to contaminated dental treatment water, 552–553	Immunodeficiency(ies), acquired, 715 causes of, 716
Immune defense, functional defects in, 720	combined, 713
Immune deficiency(ies), acquired, 715–727 antibiotic prophylaxis in, 727	Immunoglobulin abnormalities, pathogens associated with, 711
common, 712–714 primary, 712–715 causes of, 712	Immunoprophylaxis, recommended, for health care providers, 647, 648
Immune response, 710	Immunosuppressive drugs, posttransplant, 722–723
Immune senescence, 348	Infant, nutrition of, transition stage of,
Immune status, alterations in, persons at risk for, 348	284 with clefts, breast feeding and,
Immune suppression, and considerations for dental care, 709–731	312–313 nutritional requirements of, 307–312

Infant formulas, fluoride content of, 234–235	Isoniazid, in tuberculosis, 457 side effects of, 461, 462
Infection(s), aerosolized, protection against inhalation of, 461 and cleaning, disinfection, and sterilization of patient care items, 699–700 biofilm-mediated, 547 cell-mediated immunity and, 718–719 control of, 697–708 in health care settings, 704 precautions in, 698–699 program development for, 701–705 program evaluation in, 706–707 rationale for, 697–698 Web-based resources for, 706 effect on nutritional status, 346–348	K Kaposi's sarcoma, 528 epidemiologic forms of, 539 HIV-associated, oral mucosal lesions of, 539 prevalence of, 541 malignant tumors induced by, 529 pathogenesis of, 540 sexual transmission of, 529 Kaposi's sarcoma-associated herpesvirus, neoplasia associated with, 539–540 Kava, 254 King/Drew Medical Center, 128 Koch's postulates, 533
exposure to, prevention of, 699 immunity, and nutritional status,	Kostmann's syndrome, 717
interaction of, 340-349	Kuru, 498
maxilllofacial, bacterial cultures from, media for culture of, 611 mortality due to, 623–624	L
nutrition, and periodontal disease, 337–354	Labels, food, 190
occupationally acquired, from airborne and bloodborne	Leukoplakia, hairy, 476, 477 Epstein-Barr virus and, 527
transmission, 642 opportunistic, in	Lip, recurrent herpes simplex infection of, 519–520
immunocompromised host, 725 oral, 360	Lipids, dietary, 193-195
and systemic diseases, 575–598 oral metastatic, antibiotic prophylaxis for patients at risk for, 675	Long-term-care facilities, antibiotic resistant micro-organisms and, 624–625
prevention of, nutritional strategies for, 350–351 risk of, in immunocompromised host, 724 susceptibility to, in immunocompromised host, 724–725 transplant recipient and, 721 waterborne, dental office and, 545	Low birth weight, IgG levels, and Porphyromonas gingivalis, 120, 121 in preterm infants, and periodontal disease among African Americans, studies of, 116–117 discussion of, 121–123 materials and methods in, 117–119
Infectious disease, diagnosis of, laboratory methodologies for, 614–615 diagnostic modalities for, 605–621	results of, 119–121 sample size and power in, 118 statistical analyses in,
Influenza, 646	118–119
Influenza vaccine, 653-654	and periodontal diseases, among African Americans, 115–125
Insurance, health, by race/ethnicity, 27-28	definition of, 115 predictors of, 120, 121
Integrons, 629	periodontitis, 586–590
Intraoral and extraoral examination, in nutrition evaluation, 267–268	T-Lymphotrophic 1 virus, human, neoplasia and, 541
Iron deficiency, in children, 293-294	Lysine, 246–247

м

Ma Huang, 251

Magnetic resonance imaging, for diagnosis of Creutzfeldt-Jakob disease, 507

Malignant disorders, and myelodysplasia, 719–720

Malnutrition, and immunity, 343 chronic, noma and, 565 enamel hypoplasia associated with, 320

Mandible, abscess of, gram-positive staphylococci in, 615

Masks, to prevent transmission of tuberculosis, 461

Maxillofacial infections, bacterial cultures from, media for culture of, 611

Maxillofacial surgery, in Creutzfeldt-Jakob disease, 511

Measles, 645, 649 mumps, rubella vaccine, 649–651, 660 noma and, 564, 565

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

Meharry Medical College's School of Dentistry, 177, 178

Meningococcal disease, 648

Mercury, dental amalgam, 632

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

Micro-organisms, antibiotic resistant, long-term-care facilities and, 624–625 mechanisms for genetic variation, 628 oral, bacterial endocarditis and, 669–670

Microbial disease, diagnosis and treatment of, 606 etiologies of, 605

Microbial resistance, 624 in oral cavity, 625–627

Microbial specimens, collection and transport of, 606–610 collection of, before antibiotic chemotherapy, 607 blood cultures and, 607 smear of fluid material and, 608 swabs and containers for, 607 transport of, 606–610

commonly submitted, collection and transport of, 610, 612–613 diagnostic techniques and methods for, 610–618 Gram-stained patient abscess smears, 609

results and laboratory evaluation of, reporting of, 618–620

transport of, for laboratory analysis, 608–609

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

Mink encephalopathy, transmissible, 495

Minority populations, composition of whole saliva and caries experience in, 67–85

destructive periodontal diseases and, 103-114

oral health of, regional research centers for, legacy of, 175–181 research in. See Research Centers, Regional, for Minority Oral Health.

recruitment of, to dental schools, 35 underserved, orofacial injuries in, 127–139

Monocytes, 642

Mother, transmission of *Streptococcus* mutans by, in African American population, **87–101**

Mucositis, oral, pathogens associated with, 711

Mumps, 645, 650-651

Myelodysplasia, malignant disorders and, 719–720

Myobacterium tuberculosis, 449, 450

N

National Center for Bioethics, 11

National Health and Nutrition Examination Survey, 58

Needle devices, with engineered safety features, 685

Neonates, infection with cytomegalovirus, Noma neonatorum, 561 Non-Hodgkin's lymphoma, in AIDS, Neoplasm(s), associated with Epstein-Barr 541-542 virus, 538-539 Northeastern Minority Oral Health associated with hepatitis C virus, 540 Resaearch Center, 180 associated with herpesvirus type 8, 539-540 Nutrients, 191-202 associated with Kaposi's antioxidant properties of, 205 sarcoma-associated in oral tissues growth, development, herpesvirus, 539-540 and health, 202-205 epidemiology pattern of, 534 Nutrition, and dental caries, 319-336 growth of, viruses and, 533-543 and oral health, 187-207 HIV in, 541-542 and wound healing, 378-380 human papillomaviruses and, definition of, 187 $53\bar{5} - \hat{5}36$ diet and, evaluation of, 271-275 human T-lymphotrophic 1 virus and, in pediatric dentistry, 541 279-303 pathogenesis of, 534–535 for health promotion, 411-423 viral etiology of, criteria for for surgical patient, 373-393 establishing, 533 gerodontic, for prosthodontic patients, viruses linked to, 534 355-371 Neuralgia, postherpetic, herpes zoster and, infection, and periodontal disease, 522-524 337-354 of older adults, optimizing of, Neurohumeral mediators, in response to 362-366 surgery/injury, 374 plaque biofilm and, 339–340 Neutropenia, causes of, 716–717 role of fluorides in, 225-243 congenital causes of, 717 Nutrition Labeling and Education Act of definition of, 716 1990, 190 immune-mediated, 717 pathogens associated with, 711 Nutrition-risk questions, 277–278 severe congenital, 717 Nutrition-risk screens, 260-262 treatment-related, 717 Nutritional screening, 259 Neutrophils, 642 Nutritional status, clinical and laboratory New York University College of Dentistry, assessment of, 259-278 58-59, 179 effect of infection on, 346-348 Noma, as forgotten disease, 559–573 evaluation of, in surgical patient, clinical presentation of, 561-563 380-381 description of, 559 immunity, and infection, interaction diagnosis of, 562–563 of, 340-349 etiology and pathogenesis of, laboratory tests to assess, 268-271 563-567 medical history and, 263-265 history of, 559-560 of older adults, 355-356 incidence of, 560 patient history and, 262-263 initial oral lesions and, 561 physical assessment of, 265-268 lesions of, microbiota of, 565-566 systemic diseases associated with. reconstructive surgery in, 568-569 263, 269 risk factors for acquiring, 564–565 Nutritional supplements, 246-250 social and cultural aspects of society of definition of, 246 source, 567 ergogenic acids, and herbals, survivors of, disfigurements in, 563 245-258 treatment of, 567-569 uses and concerns for dental trigger organisms of, 566 practitioner, 248-249 trismus associated with, 563, 567, 568 World Health Organization noma Nutritional support, for surgical patient,

386-389

network and, 569-570

0	substance use and, 133, 135
Obesity, childhood, 289–291 dental treatment in, 391–392 diets to combat, 415–421	incidence of, in urban African American population, 141 psychosocial sequelae of, 145–152
Occupational exposure, to contaminated dental treatment water, 552	and correlates of, 141–157 study of, 142–156 clinical implications
Older adults, dental health of, 360 nutritional status of, 355–356 optimizing diet and nutrition in, 362–366	observed in, 155–156 patient characteristics in, 143
Oral cavity, bacteremias and, 668–669 microbial resistance in, 625–627	patient compliance and, 153–154 risk factors for injury and
Oral fluids, testing for antibodies, in diagnosis of HIV disease, 470 Oral health, dietary habits and, 294–297 minority, regional research centers for, legacy of, 175–181	recurrent injury an 143 showing psychological distress, 144 support needs during recovery and,
nutrition and, 187–207 status of, determination of, conceptual framework for, 23–24 Oral health care, for immunocompromised	152–153 University of California-LA/Drew Regional Research Center for Minority Oral Health Experience investigations, 142–156
host, 723 Oral health care setting, diseases with	Orthognathic surgery, dietary
predilection for transmission in, 647 Oral health service, utilization of, and oral	considerations and, 384–385 Osteoblasts, 214–215
health status, factors affecting, 30, 31–33	Osteocytes, 215
Oral health status, utilization of oral health service and, factors affecting, 30, 31–33	Osteoporosis, calcium and, 219–221 diet and, 293 treatment of, 220–221
Oral infections, and systemic diseases, 575–598	P
Oral mucosal lesions, analysis of, in HIV-infected children, 162 HIV-associated, and periodontal disease, 475–482 of HIV-associated Kaposi's sarcoma,	Papillomaviruses, human, 535–538 and neoplasia, 535–536 lesions of, cells of, 537 malignant potential of, 536 replication of, 536
of tuberculosis, 453–454	Parathyroid hormone, and calcitonin, effects on bone, 215, 216 calcium in plasma and, 213
Orofacial injury(ies), in underserved minority populations, 127–139 and associated risk factors, 132–135	Parenteral nutrition, total, for surgical patient, 388
and recurrent injury, 135–136 discussion of, 136–137	Pathogens, waterborne, and dental waterlines, 545–557
nature of injuries and, 131–132 patient sociodemographics and, 130–131 socioeconomic impacts of, 132	Patient care items, and environmental surfaces, categories of, 700 cleaning, disinfection, and sterilization of, infections and, 699–700
spectrum of, 129 studies of, background of, 128	Patient(s), illness of, due to exposure to

contaminated dental treatment water,

552-553

methods of, 129-130

results of, 130-136

Patient(s) (continued) transmission of tuberculosis to, 460 with tuberculosis, management of, 458-462 Pediatric dentistry, diet and nutrition in, 279-303 Pediatrics. See also *Child(ren)*. dietary counseling in, 297-300 Penicillin, 623 allergy to, 674 viridans group streptococci resistance to, 673 Percutaneous injury, risk of, 684 postexposure prophylaxis in, 690 Periodontal disease(s), AIDS and, 160 analysis of, in HIV-infected children, 162 and HIV-associated oral mucosal lesions, 475-482 bacterial endocarditis and, 669 bone health and, 215 causes of, 159 destructive, clinical and demographic parameters and, according to ethnic/racial group, 107, 108 in minority populations, 103-114 incidence and progression of. 104-109 risk indicators and risks associated with. 109 - 112Surgeon General's report on, 103-104 dietary calcium and, 217 immune system and, 341-342 in eating disorders, 404 in HIV disease, 482, 483 microorganisms associated with, 339 nutrition, and infection, 337-354 preterm low birth weight and, among African Americans, 115-125 systemic diseases influencing, 575 vitamin C and, 247-250 Periodontitis, 337-338 and diabetes mellitus, 585-586 treatment of, 586 cardiovascular disease and. 575-577 epidemiologic studies in, 576, 578-579, 580, 581 treatment of, 577 low birth weight and, 586-590 preterm birth and, 586-590 rheumatoid arthritis and, 584-585

treatment of, 585

Periodontium, effects of dietary intake on, 349-351 Phagocytic deficiencies, 713 Phagocytic dysfunction, 718 Pharyngitis, pharyngeal exudate in, 616 Phytochemicals, compounds included in, 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 Plasmids, 628-629

Pneumocystic carinii pneumonia, HIV disease and, 474–475

Pneumonia, and oral bacteria, 583–584 therapeutic consequences of, 584 community-acquired, 583 hospital-acquired, 583–584

Porphyromonas gingivalis, IgG levels, and low birth weight, 120, 121

Posttraumatic stress disorder symptoms, following orofacial injuries, 146, 147, 148, 149, 150, 151

Pregnancy, effect of, on maternal levels of Streptococcus mutans, 95

Preterm birth, periodontitis and, 586-590

Preterm infants, low birth weight, and periodontal diseases, among African Americans, 115–125

Prion diseases. See *Encephalopathy(ies)*, transmissible spongiform.

Prions, and human transmissible spongiform encephalopathies, **493–516** description of, 493, 505 in human trigeminal nerve and oral tissue, 504–505 locations of, detection of, animal studies of, 496 transmission by dental route, animal studies of, 496

Prosthodontic patients, gerodontic nutrition and dietary counseling for, 355–371

Protein(s), complete, 196

dietary, 195-197 collection of, 68 inadequate intake of, 196 composition of, and caries serum'circulating, nutritional status experience, in minority and, 381 populations, 67-85 microbiological assay of, 68-69 Protein energy malnutrition, and failure to results of, 69-74 thrive, 288-289 statistical analyses of, 69 pathogenic bacteria in, by Provitamin, 199-200 ethnicity, 71, 72–73 Psychosocial sequelae, of orofacial injuries, study(ies) of, discussion of, 74-82 psychosocial sequelae of, and materials and methods for. correlates of, 141-157 68-69 participants in, 68, 70 Pyrazinamide, in tuberculosis, 457 smoking by participants in, side effects of, 462 and socioeconomic Pyrogenic reactions, 551 status, 68, 70 Salivary glands, dysfunction of, in HIV disease, 477–482 hypertrophy of, in eating disorders, Ramsay-Hunt syndrome, 523 404 Recommended dietary allowances, 187, 189 Salt, fluoridated, 230-231 Regional Research Centers for Minority Scrapie, 493, 495 Oral Health. See Research Centers, Regional, for Minority Oral Health. Scrapielike spongiform encephalopathy, 495 Research Centers, Regional, for Minority Screening enzyme immunoassay, 470 Oral Health, 21, 30, 31, 32, 58, 127, Sepsis, 719 175, 181 meetings of, 176-177 SMA panel, 271-273 Research centers, Regional, for minority Smallpox, 738–740 oral health, goals of, 176 course of disease, 739 legacy of, 175-181 in United States, 738 spread of, 739 Research issues, 254 vaccination against, 739-740 Retroviruses, 541 contraindications to, 740 Reye's syndrome, 522 Soft tissue, lesions of, in eating disorders, Rheumatoid arthritis, and periodontitis, 584-585 Spaulding classification scheme, of patient treatment of, 585 care items, 699-700 Rifampin, in tuberculosis, 457 Splenectomy, pathogens associated with, side effects of, 461–462 711 RNA oncogenic viruses, 541 Spongiform encephalopathies, transmissible. See Roseola, human herpesvirus-6B and, 527 Encephalopathy(ies), transmissible Rubella, 645, 651 spongiform. Rumination, 292 Squamous cell carcinoma, human papillomavirus and, 536, 538 Stature, assessment of, in children, 280 Sterilization, methods of, 702-703 Saliva, as complex secretion, 74-75 function of, 320 of patient care items, infections and, 699-700 functions of, 67 whole, caries prediction and, protocol

Steroids, anabolic, 251

Stool, calcium excretion in, 218-219

for, 76

cariogenic organisms in, 68

Streptococcus mutans, epidemiology of, 88–92 findings from cross-sectional study,	Systemic diseases, associated with nutritional status, 263, 269 oral infections and, 575–598
89–90 findings from longitudinal studies, 90–92	Systemic inflammatory response syndrome, 719
maternal levels of, effect of pregnancy on, 95	
maternal transmission of, effect of chlorhexidine treatment on,	T-cells, 643
96–97 effect of delivery on, 95–96 fidelity of, 93–95	Taste and smell, as influence on nutritional status, 359–360
in African American population,	Tea tree oil, 253-254
87–101 maternal attributes to,	Teas, caries prevention and, 327
95–97	Tetanus-diphtheria injections, 645
prevalence of, in African American children, 89	Tetanus vaccine, 652-653
in different ethnic populations, 88–89	Tetracycline, antibiotic resistant genes and, 632
transmission of, 92–93 Streptococcus viridans, antibiotic	Tobacco use, carcinomas associated with, 537–538
resistance of, 673 bacterial endocarditis and, 668, 669	Tooth(Teeth), calcium in, 215–217 development of, nutrition and, 204
Streptococus pneumoniae, mortality due to, 625	erosion of, in eating disorders, 400–402, 403
Streptomycin, in tuberculosis, 457 side effects of, 462	Trace minerals, 200
Sugar(s), accusations against, 192–193	Transfusion-transmitted virus, 443
carbohydrates, and sweeteners, caries-promoting potential of, 322, 323 forms of, in processed foods, 193	Transmissible spongiform encephalopathies. See Encephalopathy(ies), transmissible spongiform.
Sugar substitutes, caries-promoting potential of, 326	Transplant recipient, cellular immunity and, 721
Supplements. See also Dietary supplement(s); Nutritional	immune status of, 720 infections and, 721 medications taken by, 722
supplements. interactions of, 254–255 questions regarding use of, 255	Trauma surgery, dietary considerations and 385
Surgical patient, evaluation of nutritional	Triglycerides, 194
status in, 380–381 herbal medicines and, 381–382, 383 nutritional considerations in, 373–393	Trismus, associated with noma, 563, 567, 568
	Tuberculin, old, 455
nutritional support for, 386–389	Tuberculin skin testing, 456
Sweeteners, alternative, 193 carbohydrates, and sugars, caries-promoting potential of, 322, 323 caries-promoting potential of, 326	Tuberculosis, 449–465 , 647 as global, 449 extrapulmonary, manifestations of, 452 granulomatous inflammation in, 451
Syphilis, untreated, in African American male, study of, 4–5	history of, 449 HIV disease and, 454–455, 475

incidence of, 449–450 management of, 455–458	in tuberculosis, 455 origin of term, 643
management of dental patient with, 458–462 miliary, 453 of head and neck, 453 oral manifestions of, 453–454 pulmonary manifestations of, 451	Vaccine(s), composition of, 644 for immunocompromised health care providers, 658–660 synthetic, 645 tuberculosis, 657
reactivation of, 451–452	Valerian, 254
secondary, 451 testing for, 456	Vancomycin-resistant enteroccoci, 624
transmission of, 450–453	Varicella, 522
barrier techniques to prevent, 460–461	Varicella vaccine, 645, 651–652
Centers for Disease Control and,	Varicella zoster virus, 522–524
458 dental workers and, 459–460	Verrucous carcinoma, human
dentist-to-patient, 460 in health care facility, risk	papillomavirus and, 537–538
categories for, 460 treatment of, 456–458	Viridans group streptococci, bacteremias, 626
vaccination in, 455	beta-lactam antibiotics and, 626
Tuberculosis vaccine, 657	Virus(es), and neoplastic growth, 533–543
Tuskegee Legacy Project, 1–19, 180 3 City study, 13–14 4 City study, 14–15	classification of, 533–534 DNA oncogenic, 535–541 RNA oncogenic, 541
and additional pilot summer studies, 12–13	Vitamin A, importance of, 205
legacy of, 15 origins of, 1–3 proposed, significance of, 8–9	Vitamin C, deficiency of, effects of, 205 periodontal disease and, 247–250
questionnaire, development at workshop, 10–11 summer pilot studies to develop, 9–10	Vitamins, bioavailability of, 199 classification of, 200, 201–202 in foods, forms of, 199–200
unanticipated societal benefits of, 11–12	Vomiting, chronic, oral symptoms of, 401
Tuskegee syphilis study, background of, 3–8	W
<u>U</u>	Water, as essential nutrient, 197 bottled, purity of, 199 sources of, 199
Ubiquinone, 250	clean, treatments to produce,
United States Food and Drug Administration (FDA), 705	198–199 daily requirements of, 197, 199
University of California in Los Angeles, 127	dietary sources of, 197 drinking, sources of, 198
University of California-LA/Drew Regional Research Center for Minority Oral Health Experience, investigations of	fluorination of, 226–227 effectiveness in caries prevention, 227–228 opposition to, 228–229
orofacial injuries, 142–156 Urine, calcium excretion in, 217–218	Water bacteria, gram-negative heterotrophic, 546
V	Water systems, dental unit, contamination
Vaccination, against hepatitis B virus	of, 548–553 methods to control, 553
infection, 686	sources of biofilm in, 548

Waterlines, dental, and health, 548–553 biofilms in, 547–548 diseases caused by, 550 portals of entry of, 550 design of, biofilms and, 547–548 organisms in, potential pathogenicity of, 549 waterborne pathogens and, 545–557

Weight, assessment of, in children, 280

Weight-for-height ratio/body mass index, for children, 280–281

World Health Organization noma network, noma and, 569–570

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

Ohimbe, 253