

## INDEX

### A

- abrasion: 'air', 63, 64; exclusion of benefit for, 126, 167
- abrasive: damage, 28; diet, 120; opposing-tooth, 66; porcelain, 65; qualities, 125; toothbrush, 28; toothpaste, 91, 104
- absorption, nutritional, 10, 11, 74, 154
- abutment, tooth, 71
- Academy for Sports Dentistry, 85
- Academy of General Dentistry (AGD), 9, 28, 83, 107, 109, 141, 146, 150, 151; bashing, 151; Fluoride Fact Sheet, 109
- Academy of Oral Medicine and Toxicology, 108
- access to care, 14, 79, 107, 142, 151, 152, 166, 169, 174, 175, 178, 184; funding, 185, 186; human right, 171
- accountability: ethical, 184; for treatment decisions, 184; legal, 164, 184; of organizational systems, 184
- acidic, 19, 20, 23, 46, 81, 86, 122
- actinomycosis, 14
- acupuncture, 136
- adequate care, cost of, 170
- advanced extraction therapy, 70, 135
- Affordable Care Act, (A.C.A.), Patient Protection and Affordable Care Act, 179, 187
- African Americans, 156, 166
- against-medical-advice, 145
- age group, 85+ year-old, 165
- AIDS/HIV, 117
- air-driven dental drill, 63
- aloe vera, 31, 39
- alternate benefit provision, 167
- Alzheimer's disease, 9, 79
- amalgam: 'silver', 106; abandonment of, 107; banned, 106; fact-sheet, 107; filling, 64, 91, 106-108; litigation, 107; oxidation, 91; removal protocol, 108; replacement, 107, 108
- America's health-insurance industry, 173
- American Academy of Sleep Medicine, 103
- American children, uninsured, 172
- American Dental Association (ADA), 53, 112, 149
- American Dental Hygienists Association, 43
- American Heart Association, 7, 12, 62
- American Medical Association study, 174
- American Obesity Association, 154
- Americans: ages 20 to 74, 153; ages 55 to 64, 173; insured, 174; older, 170; overweight, 153; in poverty, 166; underinsured, 178; uninsured, 172, 175, 178, 187; with diabetes, 155, 156; without dental insurance, 165; working-age, 172
- amoxicillin antibiotic, 99, 115, 116
- amygdala, human, 132
- anaerobic bacteria, 45, 46
- anatomy, tooth, 25, 36, 67, 89, 119
- anesthesia: general, 132; local, 67, 69, 77, 132
- aneurysm, carotid, 62
- animal-meat product, 161
- animal-protein: production legislation, 161; reduction of consumption, 160; utilization legislation, 161
- animal-stock, legislation of, 161
- annual-term balance sheets, 180
- anorexia nervosa, 86, 87
- anterior tooth, 87, 124
- anthropologists, 7
- antibacterial, 31, 40, 52
- antibiotic: broad-spectrum, 31, 40, 115, 116; premedication, 13; resistance, 40, 41, 115, 116; side effects, 116; ; use, 38, 43, 77, 97, 99, 115-117
- antibody-isotope (SigA), 52
- anticariogenic, 22, 23
- anti-fluoridation, 111, 113
- anti-inflammatory: medication, 40, 136
- antiseptic use, 40
- antiviral medication, 44
- Any Willing Provider, 178
- Apollonia, Saint, 129
- arbitration, independent, 183
- arch expansion, 87, 123
- ARG laser, 96
- arteriosclerosis, 9, 42
- Asian, 47
- Asian-Pacific Americans, 166
- aspirin: 81 mg daily, 13; intraoral use, 85; low-dose, 62
- assigned benefit, 181
- atraumatic, 70
- attrition, 119, 120, 123, 124, 125; exclusion of benefit for, 126, 167
- Australia, 163
- azithromycin antibiotic, 115, 116

## LONGEVITY LOGIC

### B

baby boomers, 151; with health insurance, 171  
baby-teeth, eruption sequence for, 84  
bacteria: buildup, 5; evolution, 115, 117;  
inflammatory components, 13; oral, 18, 28,  
52, 98; reproduction, 18, 19, 20, 46, 109  
bacteriostatic, 116  
bad breath, 36, 45, 46, 48; chronic, 156  
baking soda: concentration, 97; in combination,  
97; in toothpaste, 32; periodontal benefits from,  
97; slurry, 97  
barbiturate drug, 131  
bariatric, 154  
Barret's esophagus, 11  
Bass Method, brushing, 27  
BBC News report, 174  
beef, 117, 160  
behavioral factors, harmful, 126  
Belgium, 163  
benefit: assigned, 181; delay of, 180; denial of,  
180, 181; determination, 180; direct  
reimbursement of, 181; dispute over, 176;  
exclusion authorization, 169; exclusion  
oversight, 169; reduction of, 180; yearly  
maximum, 179, 180  
benefits determination: legal precedent for, 180;  
litigation over, 180  
Bhagavad-Gita, 129  
bicuspid tooth, 124  
Big-Gulp, 160  
Bills of Mortality death list, 17  
bisphosphonates, 100  
biopsy, surgical, 56, 57  
BioSurf™, 29  
bio-terrorism, 94  
Biotene™, 46  
bite: height, 122, 124; limited adjustment, 123;  
strength, 121  
biteplane, dental, 124  
blood: level bacteria, 98; oxygen saturation, 101,  
102; pressure, 9, 62, 102, 156, 161, 173;  
pumping, 102; vessel blockage, 12  
blood sugar: control, 43; level, 43  
bonding, composite, 63, 64, 65, 86, 89, 92,  
106, 108, 125  
bone: adult, 87; change to, 41; cutting, 95;  
infant, 87; mineral density (BMD), 14, 52, 100;  
recontouring, 41, 77, 78; substitutes, 41, 78  
bone loss: excessive, 77; from extraction, 69, 70;  
from smoking, 51; increased, 12, 51, 100;  
irregular, 77; natural, 77; restoration, 41  
bone-density screening, 14

Brazil, 154, 163  
breastfeeding, 82, 83  
breathing disorders, risk of, 14  
bridge: fixed, 71; tooth, 71, 72, 126  
bronchitis, 51; chronic, 13  
brushing, '45 degrees angle', 27; duration of, 28;  
frequency of, 28; proper technique, 27  
bruxism: 38, 102, 119-125; appliance, 123;  
exclusion of benefit, 126; stress generated, 120  
bulimia nervosa, 86, 87, 122  
bulimics: dental treatment for, 86; psychological  
treatment for, 86  
burn, chemical, 85  
Bush, President George W, 141, 171  
Bush-administration proposal, 178

### C

caffeine, 103, 120, 121, 126  
calcium: -rich foods; supplements, 14  
calcium-sulfate, 41  
calculus, 31, 35-38, 41, 80; formation, 37; -free  
teeth, 37; inhibition, 31  
caloric: deprivation, 159; healthy intake, 160;  
labeling, 162; total intake, 159  
Canada, 121, 162  
cancer, 9, 13, 53, 55, 56, 57, 100, 101, 111,  
113; breast, 100, 101; cell recognition, 159;  
combating, 159; death from, 14, 56, 112,  
161; decrease, 159; diagnosis, 56; drug,  
154; early detection, 56; endometrial, 100;  
esophageal, 11; gastric, 11; laryngeal, 51;  
lung, 51, 54, 100, 173; occurrence of, 56;  
oral, 48, 51, 54-57; oral complications, 55;  
oral screening, 56, 57, 144; pancreatic, 12;  
prevention, 55; reduction of, 55, 159; risk of,  
51, 112, 160, 161; treatment, 55  
canine tooth, 124  
cap restoration, 66, 92  
capitation, 179; arrangements, 177  
carbohydrate, 8, 11, 18-22, 158; carb-  
conscious, 162; carb-fit, 162; complex, 160;  
effective carbs, 162; fermentable, 18; intake,  
157; low-carb lifestyle, 162; net, 162; simple,  
11, 19, 158  
carbamide peroxide, 91  
cardiopulmonary resuscitation, 144  
cardiovascular disease: death from, 14; increased  
risk, 12; leading cause of death, 12; risk of,  
13, 42, 43, 52, 159-162 (see: heart disease)  
caries, 20, 23, 24, 82, 110; childhood, 81, 82;  
disparity, 166; prevention, 110, 111, 112;  
rampant, 32; root, 47  
Caries Assessment Tool, 83

cariogenic, 20-23, 81  
 Carisolv™, 63  
 carotene, 10  
 carotid artery obstruction, 62  
 casts, plaster, 90  
 catastrophic- and emergency-service, reduction of, 185  
 CDT, Codes for Dental Treatment, 168  
 CEJ, 25, 133  
 cements/enamel junction, 133  
 centenarian, 78  
 Centers for Disease Control (CDC), 13, 53, 54, 55, 94, 144  
 cerebral cortex, 131  
 cetylpyridium chloride, 40  
 checkup, 59; periodic, 4, 33, 38, 110  
 chemical burn, 85  
 chemotherapy, 55  
 cheeses, 22  
 Children's Oral Health Improvement Act of 2007, 170  
 China, 155; ancient, 30  
 Chile, 154  
 chipping, tooth, 122, 124  
 chlorhexidine, 40  
 chloride solution, well-diluted, 28  
 chlorinated water, 122  
 chlorine dioxide, 46  
 chlorhexidine gluconate, 46  
 cholesterol, 10; bad, 11; good (HDL), 11, 12; high levels of, 12; levels, 12, 13, 159; lower, 156; monitoring, 62; ratio, 11; reduction of, 161; serum, 161  
 Christie, Agatha, 119  
 chromium-cobalt, 72  
 chronic sleep fragmentation, 103  
 Chuang Tzu, 59  
 Circulation journal, 62  
 clasp, 72  
 class-action law suit, dental insurance, 149  
 clean-mouth, 37  
 clenching: suppression of, 123; teeth, 119, 120, 121  
 clindamycin antibiotic, 115  
 clip-bar overdenture, 73  
 CNN News, 5  
 CO2 laser, 95  
 Codes for Dental Treatment (CDT), 168  
 coding limitation, 179  
 coffee, consumption, 103, 104, 120, 122  
 cold sore, 39, 44  
 Comfort Control Syringe™, 77  
 community, 1, 8, 109, 111, 113; health, 112  
 community service, tax incentive for, 154  
 compensation, retroactive, 182  
 composite: filling, 63, 64, 65, 86, 89, 92, 106, 108, 125; 'processed', 106  
 comprehensive insurance, 184  
 conflict-of-interest, 141  
 congestive heart failure, 102  
 consultants: insurance, 177; professional, 180, 181  
 consumer, conscientious, 162, 191  
 continuing education, dental, 150  
 contract language: ambiguous, 179; exclusion, 166; interpretation, 180; misleading, 179; unintelligible, 179  
 corn syrup, 18, high-fructose, 160  
 coronary, 162 (see: cardiovascular & heart disease)  
 corporate: fast-food companies, 158; market share, 181; quarterly fitness, 182; three-year perspective, 183; year-to-year success, 181  
 cortex, 131; and neo-cortex, 132  
 cosmetic treatment, 89, 92, 123; exclusion of benefit for, 126  
 cosmetic treatment/benefit scale, 92  
 cost, thirty-year lag for, 153  
 cost-of-doing-business, regional, 168  
 cost-reducing results, longer-term, 181  
 cost-savings: from prevention, 168; strategy, 167  
 cost-shifting to patients, 177  
 Council for Clinical Affairs, 83  
 C-reactive protein, 13, 42  
 credentialing, 151  
 cross-arch-stabilization, 125  
 crossbite, 90  
 crown: build-up, 69; porcelain, 66, 92; porcelain fused to metal (PFM), 66, 71; surgical lengthening, 76, 77  
 Cuban Americans, 35  
 cultural traditions of comity, 186  
 curative philosophy, 10  
 curettage, 38  
 cuspid guidance, 124, 125; occlusal, 124; optimal, 124  
 cuspid tooth, 124  
 custom-tray, 91

## D

dairy, 44, 158, 191, products, 22; fortified, 14  
 death: cardiovascular, 12; cause of, 13, 17, 100, 153, 161; cell, 133; from cancer, 11, 55;

## LONGEVITY LOGIC

- from smoking, 51; from starvation, 160; leading cause of, 12, 153; rate of, 79; suicide, 87
- death rate: annual, 172; decrease of, 159
- debridement, surgical, 38, 40, 41, 97
- decalcification, enamel, 18
- decay, 17, 19, 21, 23, 33, 45, 47, 63, 64, 66, 67, 68, 81, 104, 107, 140; adult, 17; baby-bottle, 81; cause of, 24, 82; causing bacteria, 19, 22, 23, 97; child, 17, 52, 81-84; contagious, 165; definition, 20; diagnosis, 60, 61, 94; disparity, 166; effects, 114; extensive, 66, 69; factor, 19; in China, 17; increase, 18, 20, 21, 32; initial, 64, 110; prevention, 17, 22, 23, 24, 29, 31, 64, 99, 109, 110, 111, 113, 144; process, 18, 19, 20; reduction of, 29, 30, 96, 97, 109, 114, 166; removal, 63, 64, 68, 135; reversal, 32; risk of, 84; science, 19; spending, 10; untreated, 166; vulnerability, 20; widespread, 32
- defibrillator, automated, 144
- DEJ, 133
- Denmark, 162, 163
- demineralization, 20, 21
- Democratic-party proposal, 178
- dental: alternative treatments, 145; anxiety-relief., 129; checkup, 33; comprehensive exam, 144; disease, 17, 140, 165; emergency, 143; fee, 2, 139, 149; fiber-optic, 144; first visit, 137; infection, 17; laboratory, 147; office, 144; periodic visit, 165; phobia, 135, 136, 137; preconception, 137; prevention, 143; quality, 141; radiograph, 60; referral, 143; sealant, 166; services, 165; specialist, 146; therapist, 142; trust, 139, 141-143; uninsured, 165
- dental assistant, 152
- dental bone: excessive loss of, 77; increased loss of, 12, 51, 100; irregular loss of, 77; loss from extraction, 69, 70; loss from smoking, 51; natural loss of, 77; restoration, 41
- dental care, 140; child, 165; cost, 10, 172; cutbacks, 170; delivery, 144; elderly, 170; excellence in, 147; national standardization, 151; public awareness campaign, 169; saving, 185
- dental continuing-education, 150
- dental cycle: pain-filled, 137; pain-free, 137; self-perpetuating, 137
- dental disease, 17, 18, 21, 23, 29, 32, 42; child, 166; in general population, 170; pattern, 170; prevention, 170; treatment, 170
- dental fear, cycle of, 83
- dental general-practice residency, 142
- dental graduates, current drops in, 185
- dental health, 21, 23, 82, 119, 126
- Dental Health Provider Act, Senate, 186
- dental hygienists: see hygienists,
- dental insurance, 149, 150; class-action law suit, 149; employer-based, 166; exclusion of benefit, 126; semi-self managed, 181
- dental laboratory, 64, 65, 66, 90, 106, 148; choice of, 148; experience with, 148; in-office, 144; outsourced, 147; remakes from, 148
- dental laser, 95, 96
- dental license: national standardization of, 151; state restrictions on, 151
- dental licensure, 142, 150; by credentials, 151
- dental office: prospective, 146; staff, 148
- dental school, statistics, 169
- dental structures, anatomical uniqueness of, 132
- dental therapists, 142, 152
- dental treatment, expense of, 4
- dental x-ray, in bone-tissue evaluation, 14
- dental-health crisis, 5
- dental-maintenance organizations., 181
- DentalPatch™, 135
- dentin, 104, 105; inner, 132; inner nerve endings, 133; osmotic, 133; tubules, 133
- dentinoenamel junction, 133
- dentist: consulting, 140; co-payment, 176; general, 145; good, 143; impartial, 169
- dentistry: field of, 4; organized, 149, 150
- Dentistry Today, 129, 147, 167
- dentists, serious shortage of, 170
- denture: full, 73, 75; material, 74; partial, 72
- denturists, 142, 152
- depression, 161
- diabetes, 9, 51, 155, 156, 159 173; annual cases, 42; cause of, 42; complications, 42; controlled, 43; decreased by half, 159; dental problems, 156; greater in minorities, 156; greater in women, 156; increased insulin resistance, 43; linked to, 42, 51; increasing numbers, 155; oral signs, 156; periodontal disease, 42; reduction in elderly, 156; treatment of, 156; type 2, 8; uncontrolled, 43, 116; undiagnosed, 43, 156; and xylitol, 23
- diagnosis, final word on, 180
- diet: abrasive, 120; agricultural, 7; Atkins, 160; boot camps, 153; coarse, 119; drugs, 153; famine, 162; healthy, 191; hunter-gatherer, 7, 8; intermittent, 7; modified Mediterranean, 160; near-starvation, 159; Nevins, 160; Nutritional Common Sense Diet+™, 160, 162; nutritionally based, 154, 191; Ornish, 160
- diets, competing, 160
- digestion process, 10

digital imaging, 61, 62  
disease, fastest growing, 153  
disease-management, 177, 179  
disinfectant solution, 28  
disinfection, chemical, 144  
disparity: ethnic, 166; health-care, 169; oral care, 166; oral health, 165; socioeconomic, 162,  
dispute resolution, 169  
doctor profiling, 177  
donor site, 77  
D-tagatose, 22  
dogs, caloric deprivation, 159; xylitol harm, 97  
dueling hunger hormones, 164  
duplex ultrasound, 62

## E

early childhood caries, 81, 83  
Earth Save, 160  
echinacea, 39  
ecologically inefficient, 160  
economic: current disparities, 186; stratification of care, 186  
edentulous, 73  
Edwards, John, 179  
education, interprofessional, 187; patient, 141, 143, 151, 152, 181, 187  
egg, 7  
Egyptians, ancient, 8, 64, 74, 119; Egypt, 7  
elderly, 14, 78-81, 120, 122; available dental care, 170; danger to, 169; dementia, 153; dental treatment, 122; diabetes, 156; disease and death, 186; emergency dental coverage, 185; fixed-income population, 186; halitosis, 45-48; health-care, 78, 79; health-care disaster, 187; more basic dental care, 185; nutrition, 80, 81; oral health, 79; oral health care, 78, 79, 149, 165, 185; oral hygiene, 80, 81; parents, 80; patients, 79, 81; periodontitis, 36; population, 120, 170; retiring, 171; sealant use, 166; socially sequestered, 79; topical fluoride for, 170; widowed, 80  
electric dental drill, 63  
electron microscope studies, 132  
electrosurgery, 96  
emotional memory, 132  
emphysema, 13, 51  
employers tax incentives, 178  
empowerment: patient, 1, 4; political, 2; principle of, 1  
enamel, 20, 65; breakdown, 20, 23, 86; erosion, 119; loss, 86, 104, 105, 119, 120, 122, 124, 125; mottling, 111; recalcification, 30; remineralization, 32, 114; structure, 31; undermined, 63; wear, 65, 120  
end-of-life care, 186  
end-user/patient, payment, 178  
England, 30, 154, 163  
Environmental Defense group, 117  
Environmental Protection Agency, 109, 113  
environmental sensibility, 160  
ephedra drug, 154  
Epictetus, 153  
erosion, dental, 110, 121, 122, 123, 125  
eruption chart for children, 84  
Er-YAG laser, 95  
erythromycin antibiotic, 115  
esophagitis, chronic, 11  
essential oils, 38  
estrogen, 98, 100  
ethical accountability, 184  
ethnic and racial health-care disparity, 166, 169  
European Union, food regulation, 163  
euthanistic, 131  
evidenced-based data, international, 104  
evolution, crisis-oriented, 1, 10  
evolution, human, 119  
exam, recall, 59  
examination: oral, 33, 59, 60, 61, 144; periodic, 59  
exclusion language, 177; simplified, 179  
exclusion of benefit: limitation, 167, 168  
exclusion of insurance benefit: contract language, 166; for abrasion, 126, 167; for attrition, 126; for bruxism, 126; for cosmetic treatment, 126; hidden harm from, 179; questionable, 181; retreatment limitation, 167, 168  
exercise, moderate, 159  
expanded duties dental personnel, 142, 152  
expectations, failed and misunderstood, 184; great, 94; realistic, 1, 91, 92; sensible, 74  
extraction, 69, 70, 74, 75; 'advanced' therapy for, 70, 135; dental, 17; Ögram system of, 70; partial-root, 85; third molars, 104; wisdom tooth, 104  
eye-teeth, 124

## F

facial: 'height', 122; beauty, 123; nerve-receptors, 133; surgery, 123; symmetry, 125  
familial institutions, effectual, 186  
fast-food industry, 158  
fat: retention, 9; saturated, 162; tax, 163; trans, 161, 162

## LONGEVITY LOGIC

fatty acids, 10, trans-, 162  
fatty food, tax, 163  
fear: dental, 129, 130, 135, 137; number one, 129; of unknown, 130  
federal or state funds, limitations to, 184  
fee for service, 3  
fever blister, 44  
Feynman, Richard, 45  
fiber-optic dental drill, 144  
fiduciary, 180  
filling: amalgam, 106, 107, 108; best, 108; composite, 65, 89; gold, 106; material, 66; metal, 60; non-mercury, 107; porcelain, 106  
filtration, 95, 144  
Finland, 114, 155  
first dental visit, 83  
fish: 7, 44, 160, 161, 191  
flexible spending accounts, 178  
floss, waxed or unwaxed, 29  
flossing, 24, 27, 29, 36, 37, 47, 97, 98, 110  
FluorCheck, 114  
fluoridation: mortality, 112; water, 109-114, 120  
fluoride, 21, 23, 32, 83, 109-114; analysis, 113; and soluble calcium, 32; bacterial plaque reduction, 31; banned, 114; child risk, 111; civil rights footing, 114; conflicting evidence, 112; controversy, 114; excess ingestion, 83; -free toothpaste, 83; in bottled water, 114; inappropriate use, 112; ingestion, 109, 111-114; ions, 31; level, 113; litigation, 113; parts-per-million, 110, 113; ppm level, 112; recommendation, 32; regulation, 109; -related death, 114; risk from, 112; sealant, 84; supplements, 112; systemic, 110; toothpaste, 31, 112; topical, 84, 91, 110, 114; toxicity, 112; use, 31  
fluoride-in-water, analyses of, 114  
fluorosis, dental, 109, 111, 112  
food, 191; abundant, 8; advertising, 163; consumption, 161, 164; cooked, 7, 191; corporate giants, 163, 164; corporate producers, 158; fiber and carotenes, 11; intake frequency, 19; labeling, 158, 191; labeling guidelines, 162; low-carb, 162; low-fat, 162; modern, industrialized, 120; nutritional content, 17, 191; organic, 8, 9, 191; processor, 74, 80; raw, 11, 191; scarce, 8; stamps, 157; tax incentives, 163; unprocessed, 8  
Food and Drug Administration, 44, 63, 107, 162  
Food Guide Pyramid, USDA, 157  
Fortune Small Business magazine, 178  
fossil fuel used, 160  
fracture, bone, 52, 82, 100

free-radicals, 159  
fructose, 18, 54, as HFCS, 18, 160  
Functional Occlusal Vertical Dimension™/FOVD™, 121, 125, 127, 167  
Fuzzy Brush, 30

**G**  
gastroesophageal reflux disease (GERD), 11, 122  
general anesthesia, 131, 132  
general dentist, 5, 39, 40, 105, 124, 125, 127, 145, 146; general dental practice, 186  
General Dentistry, 105, 175  
general health, 10, 69, 114, 119, 126, 146, 165, 189; care, 166; chronic risk, 170; demographic trend, 170; improvement, 181, 185; links, 5, 9, 15; long-term, 3; modification, 8; of future generations, 187; optimum, 4, 191; patient, 75; proactive, 191; risk to, 40, 42, 108; status, 81  
general public, 106, 113, 122  
genetic, 8, 12, 24, 41, 76; adaptation, 8; disease-predisposition-risks, 164; engineering, 117; heart condition, 13; research, 164  
genetics, human, 8  
Geriatric Dentistry as a specialty, 170  
geriatric drugs, 81  
Germ Terminator™, 29  
Germany, 52, 114  
ghrelin hormone, 164  
Gibran, Kahlil, 51  
gingival sulcus, 27, 28, 36, 76  
gingivitis, 35, 37, 43, 102  
gingivoplasty, 76  
Give Kids a Smile, 170  
GK101™, 63  
glial cells, 131  
globesity, 155  
glucose, 8, 18; level, 156  
glycemic, index, 23; control, 43  
gold filling, 64  
governmental: food restrictions, 161; food taxation, 161; vigilance, 187  
Graduate Medical Education Council, 185  
graft: bone, 41, 78; gingiva/gum, 41, 77  
grain, producers, 157  
Gram-negative bacteria, 116  
Gram-positive bacteria, 115  
granulation tissue, 77  
Greece, 31  
Greek, 10, 89, 153, 164, 165  
grievance protocol, 181

grinding, tooth, 38, 105, 119, 120, 121  
gross domestic product (GDP), 2, 3, 172, 193  
group function, dental, 119, 124, 125  
guided tissue regeneration, 41  
gum: bleeding, 36, 37, 98; graft, 77; pocketing, 36; recession, 76, 77; surgery, 96;  
gum disease, 23, 33, 36, 38, 39, 74;  
cardiovascular risk, 12; prenatal risk, 98;  
prevention, 17, 23  
gutta-percha, 68

**H**

halitosis, 45, 47, 48; chronic, 45  
hamburger, 117  
Hamilton, Alexander, 171  
handpiece: air-driven, 63; electric, 63; fiber-optic, 144  
Harvard researchers, 10, 11  
headache, migraine, 121  
health: advice, 160; education, 151, 154;  
improvement, 161; literacy, 162; reimbursement arrangements, 178; savings accounts, 179  
health education, 5; disregard of, 179  
health insurance: baby boomers with, 171;  
benefits, 1; cost, 172; coverage reduction, 172; industry-profitability, 175; manipulative practices, 176; premium increase, 172; tax incentives, 178  
health insurer profit, 173  
health plan: executives, 180, more restrictive, 175  
healthcare: access, 169, 171, 174, 178, 179, 184; average level of mediocrity in, 184;  
avoidance of, 129; boutique-practice, 175;  
catastrophic expenses, 178; complex forces, 186; consumer, 5; cost, 10, 9, 155, 172, 173, 183; crisis, 163, 174, 186; delivery, 151, 171, 172, 175, 182, 184; dentally inclusive, 184; disparity, 169; education, 14; elderly, 78, 79; English, 173; evaluation, 2; excellence, 174; for all citizens, 172; general, 166; inclusive, 186; insurance, 170, 171; luxury care, 175; markets, 179; minority access, 169; national, 185; net-uninsured, 178; not 'universal', 178; personnel, 135; preventive, 178; professional, 5; provider, 170, 176; provider competition, 184; provider income, 173, 177; public programs, 185; quality, 10; 'reform package', 179; rising cost, 172; saving, 185; shopping, 59; socioeconomics, 2, 175; sub-par, 158; 'universal', 150, 178, 186; value, 108  
healthcare system: government involvement, 182; improvement, 186; self-improvement, 182  
Healthier US initiative, 158  
health-plans, compare, 180

Healthy People 2010, 166  
heart: damage, 13; genetic condition, 13;  
subacute bacterial endocarditis, 13; surgery, 13  
heart attack, 13, 42, 51, 62, 63, 102, 155, 173; risk for, 62  
heart disease, 12, 42, 43, 52, 112; 159-162  
Hemingway, Ernest, 149  
Heraclitus of Ephesus, 89  
herbal: medicines, 38; treatment, 39  
Herbst™, 103  
hepatitis, B [HBV], 117; C [HCV], 117  
herpes simplex, 44  
hexetidine, 40  
hippocampus, 132  
Hippocrates, 31, 165  
Hispanic Americans, 35, 156, 166  
HIV/AIDS, 117  
HMO, litigation, 183  
Hobson's choice, 171  
holistic medicine, 10, 38, 40, 67, 68, 125, 145  
Holland, 114  
home care, 4, 33, 41  
hourly-based fee, 3  
human: anatomy, 119; basic right, 171;  
discomfort, 10; evolution, 119; longevity, 6, 7, 79, 162, 187, 191; suffering, 187  
human cost, thirty-year lag of, 153  
Human Nutrition Research Center on Aging, 164  
hunger, control of, 161, 191; nutritional, 10;  
reflex, 10, 189;  
hunter-gatherer diet, 7, 8  
hydrogen peroxide, 91; benefit, 97  
hydroxyapatite, 74  
Hygiene Hypothesis, 41  
hygienists, dental, 37, 43, 142, 152  
hypersensitivity, 104, 105  
hypertension, 9, 42  
hypnotherapy, 123, 136  
hypopnea, 101  
hypothalamus, 131

**I**

Ireland, 163  
Implant: 'immediate' placement, 75; etched titanium, 74; tooth, 30, 51, 70, 72-76, 167  
implantologist, 76  
independent patient-advocacy, 169  
India, 18  
infant feeding practices, 81  
infection-control, 144

## LONGEVITY LOGIC

- infectobesity, 9  
informed: consent of treatment, 145; refusal of treatment, 145  
injection, 63, 88, 95; lethal, 131; vitamin C, 52  
inlay filling, 64, 65, 66  
In-Office Research, initiative, 185  
insomnia, 120  
instruments, sterilization, 144  
insurance: coding, 177; company profit, 181; comparative shopping, 59, 178; completion of forms, 146; contract language, 176, 181; co-pays, 173, 186; deductible, 173, 179; dental, 149, 150, 181; disclosure requirements, 180; discrimination, 149; disease management, 177; dispute protocol, 181; employer-based, 179; fee-limitations, 146; inflexible contract, 177; maximum-age limitations, 181; participation, 143; portability, 178; practices, 150; premium discounts, 168; premium increase, 175; premiums, 172; reimbursement, 150; self directed coverage, 181; "single-payer" system, 179; subcontracting, 177; subcontractors, 180; unaffordable coverage, 170; wellness-discount, 168, 180; workplace coverage, 171  
insurance benefit: assigned, 146; determination of, 169; direct reimbursement, 180; dispute resolution, 169; indirect, 176; single crown, 167; single onlay, 167; zip code adjusted, 168  
insurance company, 179; accountability, 167; omnipotence, 180  
insurance contract: interpretational abuse, 180; language, 167; obscured, 126; restrictive, 126; semantics, 181; unfair, 149  
insurance plan, evaluation, 176  
insurance reimbursement, responsibility for, 146  
International Association for the Study of Pain, 137  
International Classification of Diseases, 60  
International Healthcare – Systemic Reviews, 43  
Internet, 150; healthcare-provider input, 184; patient information, 184  
interstate-licensure-by-credentials, 151  
intraoral camera, 62  
iron, 160  
Italy, 163
- J**  
Japan, 114  
jaw: alignment, 124; design, 119; realignment, 123  
Jefferson, Thomas, 2, 139  
Joint Licensure Conference, 150  
Journal of Clinical Dentistry, 97  
Journal of Clinical Periodontology, 97  
Journal of Dental Research, 96  
Journal of Periodontology, 13  
Journal of the American Dental Association, 11  
Journal of the American Medical Association, 177  
juicer, 80  
Jumbo-Size, 160  
junk-food, 158, 161
- K**  
Kaiser Commission on Medicaid and the Uninsured, 170  
Kaiser Family Foundation, [www.kff.org](http://www.kff.org), 155  
ketchup, 158  
Keyes, Dr, 97  
Klearway™, 103
- L**  
Lacto-Acidophilus, 116  
Lao-Tzu, 27  
laser: dental, 91, 94, 95, 96; future technology, 96  
laughing gas, 87, 136  
lead-apron, 61  
legal recourse, 141  
libido, 159  
life expectancy, U S average, 120, 195  
life-span: extension of, 164, 169; recent immigrant, 158  
life-style, sedentary, 9  
light-cured, 63, 84  
limbic system, 131, 132  
lingual, 27  
liposuction, 154  
loan-forgiveness programs, for dentists, 169  
longevity: comparative graph, 195; greater average, 184; increase, 159, 161; prescription for human, 164; quality of, 5  
long-in the tooth, 77  
long-term care, 80  
lost-enamel, replacement of, 181  
low-birth-weight, 98  
low-density lipoproteins, 11  
low-income families, danger to, 169  
Lycasin, 22
- M**  
makeover, cosmetic, 90  
malignancy, 56  
malpractice standards, 183  
managed-care, 3, 149, 166, 175; confusion, 3; control, 177; establishment, 174; failures, 180;

groups, 4, 180; limit benefits, 176; model, 183; overcrowding, 150; promises, 176; reviewers, 180; second coming, 177; surge, 184; traditional, 181; typical, 175  
 mandibular advancement devices, 104  
 Mannitol, 22  
 Marathon Man, movie, 129  
 marketing, unscrupulous, 163  
 Martí, José, 175  
 Marx, Groucho, 165  
 Maryland bridge, 71  
 Mason, Jackie, 109  
 Massachusetts health-plan, 179  
 maximum-yearly-benefit level, 127, 167, 179, 180  
 McDonald's, 117, 158  
 Meals on Wheels, 157  
 meat, 7, 41, 117, 191; red and processed, 161  
 mediation, third party, 181  
 Medicaid, 81, 157, 169; cost, 170; dental care, 170; dentist participation, 169; provider tax credits, 185  
 medical bills, unpaid, 171  
 medical history, complete, 144  
 medical necessity, 177, 179  
 medical spending, completely avoidable, 183  
 medical, cost, 173  
 Medicare, 154, 156, 157, 171, 177, 183; dental care, 78, 79, 185; early days of, 149; no dental benefits, 165; +Choice, 173  
 mentally handicapped, 14  
 mercury, 91, 92, 106, 107, 108; allergy to, 108; controversy, 114; free, 106; hazardous material, 107; in fish, 161; wastewater, 108  
 Meridia, 153  
 metabolic oxidants, 159  
 metaphysicist, pleasure-seeking, 87  
 Mexican Americans, 35  
 microscope and microdentistry, 93, 94  
 mid-face-collapse, 122, 124  
 migraine headache, 121  
 minimal: invasive, 95; care philosophy, 177  
 minimum wage worker, 3  
 minority population, 169  
 Miss Piggy, 153  
 modulators, 100  
 molar tooth, 104, 124  
 monosaccharide, 18  
 moral ethic, professional, 183  
 moral hazard, 179, 182

moral incentive, 182  
 mottling, 111  
 mouthguard: boil-and-bite, 86; occlusal, 123, 125; sports, 85  
 mucosa, 45  
 Musashi, Miyamoto, 115  
 myelinated nerve, 133

## N

NASA Langley Research Center, 93  
 National Cholesterol Education Program, 159  
 National Health and Nutrition Examination Survey, 12  
 national health-care, 185; initiative, 152  
 National Institute of Dental Research, 97  
 National Institutes of Health (NIH), 23, 132, 159  
 National Physicians Transparency Program: Open Payments, 151  
 National Research Council, 112, 114  
 Native Americans, 161, 166  
 nCPAP, 102  
 Nd-YAG laser, 95  
 nerve fibers: A-alpha, 131; A-delta, 131; C-type, 131; myelinated, 131, 133; pulp, 132  
 nerve pathway, 133  
 nerve, grid-anatomy, 133  
 neuro-chemical change, 130  
 New York Times, 141, 142  
 New Zealand, 163  
 nicotine, 54, 103, 120, 126  
 nitrous oxide (N<sub>2</sub>O), 87, 88, 136  
 non-treatment, risk of, 145  
 Norway, 106, 163  
 nuclei, posterior, 131  
 nursing home, 79; study, 14  
 nutrient, absorption, 10  
 nutrition, neglect of, 17  
 nutritional: counseling, 144; evaluation, 144; food intake, 161  
 Nutritional Common Sense Diet+™, 154, 160, 162, 191

## O

Obama, President Barack, 179  
 Obamacare (Affordable Care Act/A.C.A.), 179  
 obesity, 8, 9, 10, 43, 114, 153-157, 162, 170; child, 163; commercialization, 163; cost, 155, 156, 159; crisis, 9, 155, 156, 173; in Pima Indians, 8; in puberty, 153; is poverty, 163; lawsuits, 158; links, 9, 12, 42, 43, 119, 155,

## LONGEVITY LOGIC

- 161; litigation, 163; Medicare-sponsored studies, 157; penalty for, 163; predisposition, 8, 9, 10, 162; triggers, 9
  - obestatin hormone, 164
  - occlusal vertical dimension, 119, 121, 125, 126, 127; loss, 119, 121-125; restoration of, 124
  - occlusal/bite-splint, 123, 125
  - occlusion, functional, 87
  - Older Americans Act of 1965, 149
  - Omega-3, 161
  - oncologists, 55
  - onlay filling, 64, 65, 66, 68
  - oral cancer, 48, 51, 54, 55, 56, 57, 144; survival rate, 55
  - oral care, 13, 120, 148; as follow-up treatment, 14; conventional, 42; cost, 172; delivery, 149; elderly, 14; in disease prevention, 14; insurance, 170
  - oral disease epidemic, 165
  - oral exam, 33, 59, 60, 61, 144
  - oral health, 10, 4, 17, 111, 127, 137, 143, 146, 165; disparity, 165; education, 5, 83, 168; efficacious, 5; field of, 4; importance, 165; infant concerns, 83; link to, 79; links, 9, 15; literacy, 3; modification, 8; overall, 4; preventive, 130; recognition, 185; status, 60; study, 166
  - Oral Health America, 170
  - oral health care, disparity, 170; elderly, 185
  - oral health care, excluded from national health, 185
  - oral hygiene, 17, 38, 47, 48, 80, 113, 137; at home, 30; attention to, 83; benefit, 41, 97; benefits to, 87; capability, 46; child, 28; component, 28; comprehensive, 42; diligence, 37; elderly, 79, 80, 81; focus, 17; guidance, 144; improvement, 42; infant, 82; in-office, 37, 38; maintenance, 31; method, 97; meticulous need, 24, 48, 72, 75; personalized, 30; poor, 35, 76; post-treatment, 126; practices, 32; program, 24; reduced, 38; skills, 4; treatment, 37; verification, 168
  - oral irrigator, 30
  - oral ornamentation, 48
  - oral surgeon, 69, 123, 125
  - oral/facial injury: prevention of, 85, 86; sports-related, 85, 86
  - organ, vital, 165
  - organic produce, 9
  - organized dentistry, 149, 150
  - oropharynx, 55
  - orthodontic: avoid need for, 84; benefits, 87; child, 87; fixed, 87; limited, 123; minor, 92; removable, 87, 92; time-consuming, 84; treatment, 123; treatment needs, 32
  - orthognathic, 123
  - osseous, 77, 78, component, 36
  - osteoarthritis, 161
  - osteoporosis, 14, 52, 100, 112, 161
  - outsourcing, 148
  - overdenture, clip-bar, 73
  - over-treatment, 126, 183
  - overweight, 10, 153, 159, 160, 161, 189, 191; links to, 161; adults, 153; risk for, 161; toddler, 153; worldwide, 154
  - oxygen/ozone, decay-removal and therapy, 64
- ## P
- pacifier, anatomic, 84
  - pain: acute, 136; anxiety from, 134; arousal effect, 134; chronic, 131, 133; components, 130, 133; conditioning, 134; conduction, 134; control, 130, 135, 137; cortical perception, 132; dental, 129, 130, 132, 133-136, 165; dental cycle, 135; diagnostic, 130, 134; dull, 131; empathetic, 135; facial, 133, 134; hydrodynamic, 133; hyperalgesia, 135; intellectual, 134; interpretation, 136; localization, 133; management, 135; memory, 132; monotonous, 134; negative conditioning, 134; neural chemical conduction, 133; non-noxious, 131; noxious, 131; perception, 130-136; phenomenon, 130; physiology, 130, 132; potentiating, 132; precognizant, 134; psychological, 134; quantification, 133; receptor, 130; reduction of, 136; referred, 133; relief, 130, 135; response, 134; sensation, 130, 137; sensitivity, 132; sharp, 131; somatic, 134; stimulation theory, 132; stimulus, 131; subjective, 131, 134; transmission, 133; traumatic, 132; type, 136; visceral, 134
  - pajama dentistry, 143
  - Paleolithic, man, 7
  - paleontologists, 7, 119
  - palette, 28
  - Papacarie™, 63
  - Paraguay, 155
  - partial denture, 10, 72
  - participating dentist, 143
  - patch-up and repair-only mentality, 183
  - patient: -bill-of-rights, 183; cardiac compromised, 13; communication, 145; diagnosis, 180; direct payment, 146; disease-predisposition-risks, 164; fearful, 87; load, 175; political involvement, 183; -protection legislation, 150; rights, 180; rights legislation, 183; -to-doctor ratios, 175; trust, 145

patient education, 141, 143, 151, 152, 181, 187; additional material, 148; attention to, 5; components, 3; comprehensive, 186; cost, 4; dedication to, 147; extensive, 37; fee protocol, 3; most beneficial, 14; opportunity, 145; prior, 142; secondary concern, 3; service, 2; state-sponsored, 169; valuable, 168; well defined, 167

patient-advocacy: coalitions, 186; frameworks, 186; independent, 169

Patient Protection and Affordable Care Act, A.C.A., 179, 187

pay-for-performance proposal, 182

payment penalties, retroactive, 182

pediatricians, 83

pellagra disease, 162

pellicle, tooth, 21, 91

penicillin antibiotic, 99, 115, 116

pneumonia, 13

periodontal: damage, 124; evaluation, 144; health, 32, 38, 87; infection, 99; ligament, 14, 36, 67, 93; status, 61, 144; structure, 60; surgery, 76, 77, 95, 135, 140

periodontal disease, 11, 12, 51, 100, 140; 'subversive', 35; advanced, 14, 76, 97; advances in, 97; and obesity, 43; antibiotics, 116; bacteria, 94; bad breath, 45, 48; bone loss, 77; chronic, 35; controlling, 41; diagnosis, 93; early stage, 35; episodic, 38; eradicate, 24; extended, 77; from smoking, 51; in minorities, 35; in the US, 35; irreversible damage, 35; link, 11, 12, 14, 37, 42, 43; moderate to severe, 36, 39; pneumonia risk, 14; preexisting, 98; prenatal risk, 98; preventive program, 98; pyorrhea, 41; recognizable, 36; reduction, 22, 40, 41, 97; risk, 13, 43, 79; risk from, 11, 12; severity, 39; smoking cessation, 40; spending, 10; stress, 12; tissue damage, 41; tooth loss, 43; trench mouth, 41; unresponsive, 40, 69

periodontitis, 35, 36, 37, 51, 98

peroxide whitening, 91

per-patient-visit time, 175

personal bankruptcy, leading cause of, 171

pH, 19-22, 31, 46, 122

pH level, 20

phagocytic, 52

phosphorous, 82, 99

physical education programs, 158

physically handicapped, 14

physically-active, work, 159

physician, 1, 33, 39, 56, 62, 99, 102, 143, 165; co-payment, 176; impartial, 169; primary-care, 5, 175, 186; shortage, 186; tax deduction for, 154; trust, 142

physicians and dentists, loan forgiveness for, 186

Physicians' Desk Reference for Herbal Medicine, 39

Pima Indians, 8

pit and fissure, 60, 84

pits and grooves, 27

plaque, bacterial, 20, 27-32, 35, 37, 38, 40, 48, 77, 94, 97, 98

plaque, removal of, 35, 77

pneumonia, 14, 42; death from, 79

Polio, 117

political advocacy, 151

political involvement, patient, 183

polymorphonuclear leukocytes (PMN), 52

polyphenol oils, 39, 46

pontic, tooth, 71

porcelain, bonded, 124, 125; filling, 65; veneer facing, 89, 90

portability, insurance, 178;

postand-core, 68, 69

postoperative, 69, 136

postoperative infection, 96

potassium nitrate, 105

poverty disease-link, 162

poverty line, below, 166

pre-cancer cells, 159

pregnancy, 44, 52, 61, 98, 99, 116

pregnant mother, 99

premedication, 13

preoperative, 136

pre-term low-birth-weight, 98

prevention: community-based, 109; cost-savings, 168; for elderly, 170; initial cost of, 185; unnecessary treatment, 179

preventive: basic treatment, 185; dental measure, 104, 109, 110, 123, 125, 126; dental services, 79, 181; dentistry program, 98; diagnosis, 62; hormone therapy, 100; measures, 63; medical measure, 13; patient instruction, 2; periodontal care, 14; perspective, 10; referral, 63

Preventive Dental Health Association, 42

primary care physician, 5; shortage of, 185

primary patient-care, 14

priority populations, health-care danger in, 169

private practice, 10

probiotics, 39

profiteering-corruption, 184

Profound™, 63

## LONGEVITY LOGIC

- progesterone, 100  
prosthodontic, 71  
prosthodontist, 124  
prostaglandin, 98  
protein, 13, 42, 191, animal, 160, 161  
provider, duties, incentives 180; midlevel 152  
public awareness campaign, dental care, 169  
Puerto Rican Americans, 35  
pulmonary disease, 14; chronic obstructive, 13  
pulp, 67; chamber, 67, 68; dental, 133; injury or infection, 133; nerve-filled, 133; removal, 95
- Q**  
quadrant, 78  
quality care: disgrunteled with, 1; compensation of, 182; infringement on, 182; levels of, 4, 152
- R**  
radiographic: 61, 62, 85; x-rays, 59; analysis, 60  
radiographs: complete set, 61; dental, 60, 144  
Rand Corporation Study, 173  
randomized controlled trial (RCT) 174  
raw foods, 11  
recession, gum, 27, 28, 76, 77, 104, 110  
Reader's Digest, 139, 142  
reimbursement, 50% to 90%, 179  
reinsurers, 177  
Rejuvenate™, 46  
Rembrant Plus™, 46  
remineralization, dental, 32, 109, 110  
residency, dental general-practice, 142  
resin-bonded partial denture, 71  
reticulo-activating system, 131, 134  
retreatment: benefit limitation, 167, 168  
retroactive payment penalties, 182  
risk-predictor of disease, 13  
Rome, ancient, 47, 86  
Romney, Mitt, 179  
root: 68, 69, 73, 76; caries, 47; planing, 38  
root canal, 61, 67, 68, 69, 85, 94, 168, 95  
root removal, partial, 41  
rubber-dam, 67  
Russia, 155
- S**  
saliva, 11, 21, 191; acidity, 29; chemistry, 19, 20, 21, 46; decrease, 20, 23, 33, 55; diagnostic potential, 21; enzymes, 10, 81; foamy, 43; improved, 97; increase, 20, 29, 30, 81; insufficient, 81; protective, 19, 21; reduction of, 11; replacement treatment, 56  
salt, 9, 11, 85, 162, 163  
sand-ground corn meal, 119  
sanguinaria, 32  
Save-A-Tooth, 85  
scaling, 38, 40, 76, 98, 99  
scalpel, surgical, 95  
school, hours, loss of, 165; lunches, 157, 158  
Schweitzer, Albert, 135  
sealant, dental, 84, 181  
second opinion, 40, 92, 141, 148  
secondhand smoke, 52  
sedation: intramuscular, 88; oral, 88  
senior, 79, 80  
seniors lack available dental care, 170  
seniors suffer needlessly, 185  
severe early childhood caries, 82  
sexual and reproductive activity, 159  
sexually transmitted disease, 105  
Silencer™, 103  
silver-mercury filling, 106  
sippy-cup, 82  
sleep apnea, 101, 102, 161; central, 101; mixed, 101; obstructive, 101  
smoking, 51, 52, 53, 54, 55, 56; cessation, 40, 42; links to, 51  
S-mutans bacteria, 22, 24, 52  
snap-on teeth, 92  
snoring, 101, 103  
socioeconomic disparity, 162, 166  
socioeconomic lines, 79  
Socrates, 164  
soda pop (see: soft drinks), 18, 82, 83, 158  
sodium, 11, 133, 162; bicarbonate, 97; citrate, 32; lauryl sulfate, 32  
soft drinks, 18, 43, 81, 82, 103, 122  
Sorbitol, 22, 96  
specialist: dental, 146; multiple-office, 145; referral, 146, 150  
spirochete bacteria, 94  
standard of care, 4, 145  
Stanford economist, 178  
stamping bacterial detection, 41, 115  
State Children's Health Insurance Program, 141  
State Of Working America 2004/2005, 9  
states rights concerns, 151  
statin drugs, 161  
status quo, ineffectiveness of, 151  
stimulus, physical, 130  
stockholder profit, short-term, 182

stomach size, ninety-percent reduction of, 154  
 streptococci bacteria, 45, 115  
 Streptococcus mutans bacteria, 22, 23, 24 52  
 stress-breaker, 72  
 stroke, 12, 13, 42, 62, 63; complex factors, 12;  
 emotional factors, 12; evaluation, 63; hormone  
 replacement, 100; incidence, 12, 13; increase  
 of, 12, 13, 42, 173; ischemic, 12; link, 12,  
 42, 51, 100, 155, 161; prevention, 62; risk,  
 62, 102; risk-predictor of, 13; smoking, 51;  
 stress, 12; warning sign, 48  
 Stroke journal, 12  
 study-models, dental, 90, 126  
 subacute bacterial endocarditis, 13  
 sucking, in children, 84  
 sucrose, 18, 23  
 sugar, 7, 10, 18, 19, 20, 22, 23, 82, 96, 97,  
 158; alcohols, 22; consumption, 18, 19, 20,  
 22, 82, 99, 160; natural, 82; producer, 157;  
 raw, 18; refined, 22; substitute, 18, 22, 97  
 sugarless gum, 29  
 sulcus: gingival, 27, 28, 36, 76; pocket-depth, 36  
 Sullivan Commission Report—Missing Persons, 169  
 Sun Tzu, 47  
 Sunshine Act, 151  
 superbugs, 115  
 Super Size Me, documentary, 158  
 Supersmile™, 46  
 surgeon, maxillofacial, 123  
 surgery, weight-loss, 156  
 survival: of the human species, 117; of the richest,  
 171; with oral cancer, 55  
 Sweden, 106, 114, 163  
 sweet air, 87  
 sweetener, dietary, 18, 22, 97

## T

Tao Te Ching, 27  
 targeted management, 177  
 tartar, 35, 36, 77; buildup, 32; control, 80;  
 detectable, 36; reduction, 31; removal, 40, 77  
 taste and fulfillment, 10  
 tax incentive, 152, 154, 163, 178  
 teeth for health and longevity, 7  
 tempo-mandibular disease, 105, 124, 125  
 tempo-mandibular joint, 105, 121  
 terminal-wear-syndrome, 122  
 tetracycline antibiotic, 40, 99, 116  
 The Wand™, 77  
 thalamic connection, 131  
 third molars, 104  
 third party mediation, 181  
 third-party-review, independent, 182  
 three square meals, 164  
 thrifty genes, 8  
 thymol, 46  
 thyroid, x-ray exposure to, 61  
 tic-tac, 24  
 tiered insurance plan, 177, 179  
 time-limitations for, 167  
 tobacco industry, 164  
 Tom's Natural Mouth Rinse™, 46  
 tongue, 27, 45-48, 73, 102; anatomy, 48; in  
 breath 48, 49; dry, 46; evaluation, 48, 57;  
 hygiene, 28, 47, 48; ornamentation, 48;  
 papillae, 47; -retaining device, 102; sensation,  
 37; significance, 48; stroke, 48; sensitivity, 30  
 tooth: abrasion, 90; accident, 85; alignment, 124;  
 anatomy, 25, 36, 67, 89, 119; anatomy-  
 diagram, 25; baby, 83, 84, 85; bleaching,  
 91, 96; broken, 85; cap, 89; cleansing, 29,  
 30; color, 80, 90, 91, 111, 112; color shade-  
 guide, 92; crooked, 92; crowding, 87; crown,  
 47, 69, 89, 168; deciduous, 83, 84;  
 discoloration, 92; durability, 167; emergency,  
 85; eruption sequence, 82, 84, 85; eruption  
 sequence chart, 84; extraction, 84; fracture,  
 85, 94; function, 4, 83; functional alignment,  
 87; growth, 84; impression, 66, 90; infection,  
 36, 105; intruded (pushed in), 85; knocked out,  
 85; lightening, 90, 91, 96; loss, 5, 10, 11,  
 12, 14, 17, 36, 42, 51, 52, 75, 77, 79, 80,  
 84, 85, 86, 94, 98, 99, 100, 105, 119,  
 122, 140, 168; milk, 83; mobility, 140;  
 movement, 75, 87; natural, 89, 90, 125;  
 neglect, 84; permanent, 85; pontic, 71;  
 reduction, 71; re-implanted, 85; repair, 63, 64,  
 65, 66, 68, 94, 105, 106, 124, 125, 147;  
 replacement, 70-74, 76, 167, 168; sensitivity,  
 28, 77, 86, 91, 104, 105, 122, 134, 140;  
 sensitivity reduction, 32; temporary, 66; unique  
 positions, 30; unrestorable, 69; wear, 66, 119,  
 121, 122, 124  
 Tooth Anatomy Diagram, 25  
 toothache, 133  
 toothbrush, 27-31, 36, 44, 48, 80, 83, 91, 105;  
 abrasion, 91; bacteria, 28; benefits, 30;  
 bristles, 27, 28, 30, 80; design-comparison,  
 30; ergonomic, 31; first, 30; new, 28; patents,  
 30; position, 27; power, 80; replacement, 44;  
 sterile, 29; today, 30  
 toothpaste, 31, 32, 91, 110, 111; #1 brand,  
 31; apply, 29; baking soda, 32, 97; brands,  
 28, 31, 32, 97; child amount, 83; child  
 cleanser, 83; composition, 32; desensitizing,  
 105; essential oils, 31; fluoridated, 112;  
 fluoride-free, 83; formulas, 32; green tea

## LONGEVITY LOGIC

extract, 31; ingestion, 28; ingredient, 31; jar, 31; non-fluoridated, 28; results, 28; safety, 91; sensitive, 32; tube, 31; whitening, 31, 90

toothpowders, 31

tort reform, 183

trans, fat, 161; -fatty-acids, 162; ban, 162

traumatic brain injury, 86

Traveler's Guide to Safe Dental Care, 144

treatment: abuse, 126; alternative, 167; cold sore, 44; complete coverage, 179; cost, 35, 37, 108, 139, 179; cost reduction, 185; decision, 39, 40, 65, 104; durability, 168, 182; economic incentive, 168; economic penalty, 168; elective, 99; endodontic, 67; failure, 167, 168; gum, 32, 41; herbal, 39; litigation, 145, 180, 182; material, 2, 63, 64; medically indicated, 167; medically necessary, 179; minimum, 92; non-surgical, 38; periodontal, 39, 40, 42, 43, 77, 94, 116; plan, 2, 60, 71, 90, 92, 126, 127, 139, 141, 144, 145, 147, 168; planning, 180; priority, 3; reimbursement, 169; release form, 145

treatment-quality, reward for, 167

Trial journal, 176

trimester, 99

**U**

ulcer, 11, 44, 156

underinsured, Americans, 178

undertreatment, 183

unemployed: Americans, 170; rise of, 171

uninsured: Americans, 172, 178, 179, 187; health crisis, 183; numbers of, 170; rise, 171

U S Army Medical Research Institute of Infectious Disease, 94

U S Census Bureau, 78, 120

U S Centers for Disease Control & Prevention, 166

U S Consumer Union, 107

U S Department Of Health and Human Services, 157, 166, 169

U S Department of Agriculture, 157

U S House of Representatives, 183

U S National Institutes of Health, 153

U S Public Health Service, 107

U S Supreme Court, 178

U S Surgeon General, 54, 155, 165, 166, 171; Report, 165; On Nutrition and Health, 112

universal healthcare, 150, 178, 186, 187, 201

unmanaged-care model, 182

upper-airway resistance syndrome, 101

usual and customary reimbursements, 149, 168

**V**

vegetables and fruits, organic, 8

veneer facing technique, 89, 90

vertebrate, conquest of dry land, 7

vertical-support, posterior, 125

viral mutation, 117

virgin tooth, 71

visceral, 131

vitamin: A, 99; B, 11, 81; C, 52, 81, 99, 160; D, 11, 14, 81, 82, 99; E, 11, 99

vitamin, 38; supplements, 10, 14, 39, 44, 159, 191; therapy, 100

volatile sulfur compounds [VSCs], 46, 47, 48

Voltaire, 143

vomiting, self-induced, 86

**W**

Wall Street Journal, 173

Walt Disney Company, 158

Washington Post, 117

water consumption, U S, 160

weight: loss programs, 160; management, 191;

Weiss Ratings, Inc., 173, 176

wellness-discount, insurance, 168, 180

whitening, of teeth, 90, 91;

Wild Flossers pamphlet, 29

wisdom teeth, 104

World Bank report, 174

World Dental Congress Report, 96

World Dental Federation (FDI), 107

World Health Organization, 107, 114, 155, 174, 186

Wright, Frank Lloyd, 179

[www.LongevityLogic.com](http://www.LongevityLogic.com), 6, 152, 167

[www.MaxCare.us](http://www.MaxCare.us), 6, 169, 181

[www.IDCA.us](http://www.IDCA.us), 169, 181

**X**

xerostomia, 46, 102

x-ray: bitewing, 60, 61; dental, 60, 61, 62; full-mouth-series, 61; panoramic, 60, 63; periapical, 60; unit, 144

Xylitol, 22-24, 29, 30, 49, 82, 96-99, 113

**Y**

Year Book of Dentistry, 41

yellow-journalism, 140

**Z**

zinc chloride, 46