INDEX

Abuse of Scientific Literature in an Antifluoridation Pamphlet, The, 35
Academy of Detoxification Specialists, 270
Acceptable risk, fluoridation systems and, 344–346
Accidental exposure to fluoride, health effects, 221–222
Acute fluoride poisoning epidemiological studies, 223–224, 359–360
exposure studies, 220–221
Acute lethal dose, fluoride toxicity studies, 223–224
Acute toxic dose, fluoride toxicity studies, 223–224, 360
Addictive behavior, fluoride toxicity and, 245–248
“Age-standardized” dental caries rate, 196
Air Pollution: Its Origin and Control, 161
Air Pollution and Community Health, 160
Air pollution disasters, 133–134, 139–145, 157–161. See also specific incidents (e.g. Donora, Pennsylvania)
Air Quality, 160
Air Quality Index, 159
Aitkenhead v. Borough of West View, 320
Alienation hypothesis, social dynamics of fluoridation, 61–64
Allegany/Garrett Dental Society, 53–56
Allergic sensitivity to fluoride, 231–234, 359–360
Aluminum Company of America (Alcoa)
conspiracy theories concerning, 133–136, 149–153
fluoride research by, 97–98, 128–133
Aluminum industry aluminum cookware controversy and, 130–132, 149
anti-fluoridation movement critique of, 127–137
sale of fluoride by-products by, 137–138, 150–151
Aluminum Poisoning, 131
Alzheimer’s disease aluminum and, 247–248
fluoride toxicity and, 245–248
American Academy of Pediatric Dentistry, 314–315
American Association for the Advancement of Science (AAAS), 192
American Association of Public Health Dentistry, 293
American Cancer Society, 241–242
American Chemical Society, fluoridation supported by, 39, 239
American Council on Science and Health (ACSH), 12
American Dental Association, 7
  acute fluoride poisoning research and, 224
  anti-fluoride movement and, 12, 74, 303–307
California fluoridation initiatives and, 85
Congressional legislation and, 323–325
cost analysis of fluoridation, 332–333
  court litigation on fluoridation and, 320–321
credibility issues for, 362–363
Crest endorsement by, 285–287
  on dental fluorosis, 205
fluoridation supported by, 19–21, 24–25, 103, 195, 311–312
fluoride supplement guidelines, 288–290
fluoride toothpaste warnings of, 351
global fluoridation and, 28–30
Health Media Watch, 248
Lifesaver’s Guide published by, 34–36
  maximum acceptable daily dose concept and, 281
pro-fluoridation movement and, 38–40, 50, 112–116
  systemic fluoride hypothesis and, 190
American Dietetic Association, 257
American Federation of Government Employees, 263
American Fluoridation Experiment, The, 323
American Fund for dental Health, 289
American Journal of Epidemiology, 234–235
American Medical Association (AMA)
  anti-fluoride movement and, 12, 25
  fluoride research and, 304
  pro-fluoridation activities of, 25, 37
American Medical Liberty League, 349
American Steel and Wire Company, 139
American Water Works Association, 349
Amies, Arthur (Sir), 116–120
Analyzing the Daily Risks of Life, 345
Anderson, Jack, 309
Animal studies
  genotoxicity of fluoride and, 236–238
  health effects of fluoride, 222–223
  of osteosarcoma-fluoride link, 266–269
Annapolis, Maryland, fluoridation accident in, 343–344
Anti-aluminum movement, 127–133
Antibiotics, dental cavity rates and, 203–204
Anti-chlorination movement, 347–349
Anti-fluoridation movement
  acceptable risk concept and, 344–346
  agents for, 22–25
  allergic reactions and psychological distress with fluoride and, 232–234
  benefits of fluoridation doubted by, 333–338
  bias in research and, 300–302
California Fluoridation Act and, 83–90
cancer-fluoride link supported by, 238–242, 266–275
cash rewards offered by, 16–19
city fluoridation trials attacked by, 116–120
communication campaigns of, 36–40
  conspiracy claims by, 134–165
cost analysis of fluoridation, 332–333
courtroom litigation by, 315–321
  credibility issues, 361–363
  crippling skeletal fluorosis research and, 226–227
dental cavity reduction research disputed by, 183–185
dental fluorosis increase and, 206–209
Donora air pollution incident used by, 139–141
dosage calculations and, 278–279
drinking water standards and, 260–263
electoral politics and, 64–67
EPA-NTEU labor dispute and, 263–266
in Europe, 28–30
flouride-based osteoporosis therapy and, 228–230
funding for research in, 312–315
future of, 356–364
 genetic damage from flouride claimed by, 35, 235–238
Grand Rapids flouridation trial and, 107–111
halo effect critiqued by, 198–201
health risks of flouridation and, 343–344, 357–360
history of, 7–8, 127–165
human error in flouridation systems and, 341–344
intake levels of flouride and, 291–294
legal disputes of, 17–19
maximum acceptable daily dose concept and, 282
national organizations in support of, 19–25
neurotoxicity of flouride claimed by, 246–248
research methodology on flouridation critiqued by, 191–197, 201–204
risk-benefit analysis of flouridation and, 329–331, 338–340
segregation of, 303–307
statewide mandates, 59–60
summary of claims by, 30–32
systemic vs. topical hypotheses debate and, 190–191
web sites for, 10–14
year 2000 initiatives of, 56–59
Apatite, 185–188
hypomineralization and, 205
Archives of Environmental Health, 304
Armstrong, W. D., 233–234
Arnold, Francis, 100, 105–106, 109, 112, 323
Arnold, Hubert, 118–119
Ast, David B., 111–113, 144, 162–163
Athey, Ed, 53–56
Atomic Energy Commission (AEC), 144–145, 163–164
Attention deficit disorder, neurotoxicity of flouride claims and, 246–248
Australia, flouridation application and research in, 201
Baldwin, Edward (Earl Baldwin of Bewdley), 197
Barrett, Stephen, 7, 15–19, 34–35
Bartlett–Cameron flouridation study, 98, 105–106
Battelle Memorial Institute, 266–271, 274–275
Bauxite, flouridation research and properties of, 129–133, 150
Beier, Keith, 89–90
Beneficial element, flouride’s status as, 257
Benefits of flouridation, anti- and pro-flouridation movements arguments over, 333–338
Bernays, Edward L., 135–137
Betrayers of Truth, 300
Betts, Charles T., 131–132, 134, 149, 323
Bever, Martha, 267
Bias in flouridation research, 299–302
Bibby, Basil, 178
Biological Abstracts, 306
Birmingham, Alabama smog incident, 141
Black, G. V., 95
Body weight, maximum acceptable daily dose concept and, 280–282
Bone health, flouride intake and, 228–230, 357–360
Bone mass density (BMD), osteoporosis and, 227–230
Bone remodeling, osteoporosis and, 228
Bottled water, dietary flouride intake estimates and, 283–285
Boys of Brazil, The, 171
Brain Research, 247–248
British Dental Association, 196–197
British Dental Journal, 33
British Medical Association, 196–197
British Medical Journal, 197
British water flouridation trials, anti-flouridation movement attack on, 117
Broad, William, 300
Brower, David, 23
Bryson, Chris, 140–145, 163–164
Bull, Frank, 112–116
Censored Project, 142
Center for Science in the Public Interest, 23–24
Central nervous system (CNS), fluoride exposure and, 144, 307–310
Chapman v. City of Shreveport, 318
Charleston Committee for Safe Water v. Commissioners of Public Works, 319
Chemical Abstracts, 306
Chemical and Engineering News, 38–39, 140, 158, 305, 342
Chemical limits, drinking water standards and, 257–258
Chinese medicine, dental cavities in, 170
Chloride, drinking water standards and, 258
Chlorination of public water supplies, 346–349
Chocolate Manufacturers Association, pro-fluoridation policies of, 21
Chopra, Deepak, 15
Christian Science Monitor, 142
Christian Science movement anti-fluoridation movement and, 62 water iodization and, 349
Chronic exposure to fluoride, toxicity studies, 220–225
Chronic toxic dose, fluoride toxicity studies, 224–225
Churchill, H. V., 128, 133–134, 149–150
Church of Scientology, 270–271
Citizen groups fluoridation referendums and, 45–68 water fluoridation system supported by, 3–6
Citizen’s Action, 109
Citizens Allergic to Fluoride, 49, 52
Citizens for Health, website for, 13–14
Citizens for Healthy Smiles, 45, 56
Citizens for Safe Drinking Water, 22, 45, 85–90
Citizens for Safe Water, 45
City fluoridation systems allergic sensitivity and psychological distress claims with, 233–234 anti-fluoridation movement attack on, 116–120
cancer-fluoride link and studies of, 241–242

costs vs. benefits of, 331–333
growth of, 26–30
halo effect of, 198–201
heart disease linked to, 234–235
legal challenges to, 316–321
research and review of, 192–197

Civil discourse on fluoridation, 364

Consumer Health Digest, 15

Consumer Reports, 33, 309

Conference on fluoridation, 331–333
Public health policy and, 349–350

Court litigation on fluoridation, 315–321, 362–363

Cox, Gerald J., 103, 135, 154–155

Crest toothpaste, 179, 285–287, 313, 335

Criminal behavior, fluoride toxicity and, 245–248

Crippling skeletal fluorosis (CSF), 225–227

EPA research on, 262–263
kidney disease and, 230–231
neurological complications, 247
research on, 304

Criteri pollutants classification, 159

Cumberland, Maryland fluoride referendum, 52–56, 67–68

Cumberland Times-News, 53–56

“Darmous” winds, acute fluoride poisoning and, 224

Day of Trinity, 162

Dean, H. Trendley, 98–113, 121, 127, 187, 205–208, 323

Dean Burk Foundation, 240

de Aryan, C. Leon, 62

Death in Donora, 141

Deepwater, New Jersey, air pollution disaster, 142–145, 159–162

Deionized water, kidney dialysis and, 230–231

Delaney, James J., 121, 240, 322–325

Delaney Committee, 322–325

Deminerlization–reminerlization cycle, fluoride chemistry and, 189–190
Denmark, fluoridation policy in, 29

Dental cavities
- decline of, 182–185, 357–364
- early research on, 175–178
- in fluoridated vs. nonfluoridated communities, 171–172, 192–197
- fluoride reduction of, 261–263, 356–357
- anti-fluoridation movement criticism of research on, 116–120
- European research on, 187
- fluoride content and concentration, 104–106
- modern studies confirming, 178–185, 209–212
- research on, 34, 98–102, 187–191
- survey of city trials on, 112–116
- halo effect of fluoridation and, 197–201
- measurements of, 174–175
- medical history of, 171–172, 182–185
- modern remedies and prevention of, 178–184
- population demographics concerning, 174–176
- rebound following discontinuance of water system fluoridation, 200–201
- teeth anatomy and physiology and, 172–175
- variation in susceptibility to, 174

Dental Cosmos magazine, 95

Dental fluorosis. See also Crippling skeletal fluorosis
- chronic toxicity studies, 224–225
- early research on, 92–98, 134
- in fluoridated vs. nonfluoridated communities, 207–209
- fluoride assay procedures and, 98–102
- fluoride content and concentration, 104–106
- fluoride intake and, 357
- increase in, 204–212
- NIH research and classification system, 98–102, 267–268

Dental Health Foundation, 84–86

Dental profession
- cost-benefit research on fluoridation and, 336–338
- history of, 170–172
- Denti-Cal program, 85
- Denti di Chiaie, 94
- Denti neri/denti scritti of Italian immigrants, 93–94, 122
- Dentistry, Dental Practice, and the Community, 117, 337
- Detroit Free Press, 109

Developing countries
- crippling skeletal fluorosis in, 225–227
- dental cavity increases in, 211
- growth of fluoridation systems in, 27–30
- Diesendorf, Mark, 184, 201–203

Diet and nutrition
- dental caries rates and role of, 176–178, 202–204
- fluoride intake and, 282–285
- fluoride supplements and, 287–290
- government guidelines on, 256–257
- Dietary reference intakes, 256
- maximum acceptable daily dose concept and, 281–282

Diffusion phenomena of fluoridation, 199–201

Dilution phenomena of fluoridation, 199–201

Disbenefits of fluoridation, 337–338

Disinfection by-products, water chlorination, 348–349

DMF index
- dental cavities, 174–175
- in fluoridated vs. nonfluoridated communities, 194–197
- international decline in dental cavities and, 179–180, 198–201
- survey of city fluoridation trials using, 113–116

Doctor Strangelove, or How I Learned to Stop Worrying and Love the Bomb (film), 5

“Does Fluoridation Reduce the Use of Dental Services Among Adults?,” 334
Donora, Pennsylvania, air pollution incident, 138–141, 149–150, 157–161
acute fluoride poisoning during, 223–224
Donora Zinc Works, 139–141, 157–158
Dosage issues in fluoride management, 219–221, 278–294, 360–361
dietary fluoride intake, 282–285
maximum acceptable daily dose concept and, 279–282
Dose-response relationship, health effects of fluoride and, 220–221
Doty, J. Roy, 322
Douglass, Chester W., 244–245
Dowell v. City of Tulsa, 317–318
Down’s syndrome, fluoridation and, 235–236, 300
Drinking water
naturally-occurring fluoride in
Alcoa case study, 97–98
Colorado stain case study, 94–98
Neoplitan case study, 92–96
standards, fluoridation and, 257–259
Drinking Water and Health, 237
“Due process” challenges to fluoridation policy, 316–321
E. I. du Pont de Nemours, 142–145, 159–161
Eager, John M., 93–94, 96, 127
Earth Island Institute, 23, 273
Easley, Michael
aluminum industry and, 12
anti-fluoridation movement and, 10, 16, 33–35, 38, 51, 78
cost analysis of fluoridation, 333
on fluoridation research methodology, 191
history of fluoridation movement and, 7
politics of fluoridation and, 65–66
Ecological studies, health effects of fluoride, 222–223
Economics of fluoridation, 329–331, 351–352
Effectiveness of water system fluoridation
diffusion and dilution effects, 199–201
halo effect and, 197–201
research on, 192–197
Eklund, S. A., 117, 209, 292, 337
Electoral politics. See also Politics of fluoridation issue
fluoridation referendums and, 44–68, 164–165
social dynamics of fluoridation, 63–64
studies of fluoridation issue and, 64–67
voting percentages on fluoride initiatives, 60–61
Elvove, Elias, 100–102
Emsley, J., 233
Environmental Defense Fund, 260
Environmental movement
air pollution research and, 160–161
anti-fluoridation movement and, 23–24, 272–275
drinking water standards and, 257–263
Environmental Protection Agency (EPA)
anti-fluoridation movement
conspiracy theories concerning, 138
cancer-fluoride link research and, 266–271
code of ethics at, 273–275
on dental fluorosis, 205
dietary fluoride intake estimates, 282–285
drinking water standards and, 258–263
fluoride policies of, 255–275, 279–282
genesis of, 159
Office of Air Quality Planning and Standards, 160
political pressures on, 263–266
Science Advisory Board, 265
Environmental Working Group (EWG), 244–245
Epidemiological research, health effects of fluoride, 221–223, 357–360
Erickson, J. D., 236
Escondido, California, fluoridation initiative in, 87–90
Essential nutrient, fluoride’s status as, 257, 259
Establishment theory, social dynamics of fluoridation, 63–64
Europe
alternative fluoride delivery systems in, 290
fluoride research in, 187, 201–202
water fluoridation systems in, 28–30
Evanston, Illinois water fluoridation trial, 111–116, 117–118
Eve, Diane, 49
Ewing, Oscar R., 135–136, 148, 152–153, 323
Exner, Frederick, 323
Experiment design in fluoride research, 194–197
Exposure to fluoride, health effects of, 219–221
Facts Versus Fears: A Review of the Greatest Unfounded Health Scares of Recent Times, 12
Featherstone, John, 199
Federal Communications Commission (FCC), Cullman doctrine, 66–67
Federal Register, 271
Fejerskov, Ole, 190
Fertility rates, fluoride toxicity and, 237–238
Fertilizer industry
fluoride cycle and, 185–187
water fluoridation and, 137–138, 151
Fiedler, Lee, 54–55
First International Conference on the Declining Prevalence of Caries, 198–201
Fitzgerald, Robert J., 177
Flaherty, John P., 75, 320
Fluorapatite, 186–187
Fluoridated toothpastes
benefits and risks of, 291–294, 351
development of, 181–185, 209–212
dosage studies of fluoride intake and, 285–287
research on, 308
Fluoridation
dental cavity prevention using, 178–185
social history of, 1–8
Fluoridation: A Fifty-Year-Old Blunder and Cover-up, 14
“Fluoridation: A Violation of Medical Ethics and Human Rights,” 274
Fluoridation: Errors and Omissions in Experimental Trials, 116–120, 305
Fluoridation: The Great Dilemma, 304, 339–340, 343
Fluoridation and Truth Decay, 335
Fluoridation Commemorative Monument, 109–110
Fluoridation Facts, 34–36, 74–75, 111, 195, 205
“Fluoridation of Water” Questions About Health Risks and Benefits Remain After More Than 40 Years,” 39
Fluoridation web sites, 9–14
“Fluoride: How Much of a Good Thing?,” 293
Fluoride, Teeth, and the Atomic Bomb, 141–145
Fluoride: The Aging Factor: How to Recognize the Devastating Effects of Fluoride, 33
Fluoride Action Network, 23–25, 32, 197, 245
Fluoride as by-product, aluminum industry sale of, 137–138
Fluoride assay procedures, development of, 98–102
Fluoride Awareness Coalition, 45, 51
Fluoride content and concentration
human error in management of, 340–344
systemic fluoridation and, 104–106, 205
Fluoride cycle, fluoridation research and, 185–187
Fluoride journal, 37, 196, 232, 240, 246–247, 324
scientific status of, 302–307
Fluoride poisoning events, anti-fluoride movement’s chronology of, 127–128
*Fluoride Question: Panacea or Poison?, The*, 146
*Fluorides in Caries Prevention*, 350–351
Fluoride supplements
benefits and risks of, 291–294
development of, 287–290
FDA approval of, 325
*Fluorins* tablets, 187
Fluorine, chemical properties of, 185–187
*Fluorine: Industry’s Toxic Coup*, 138
*Fluorine Intoxication*, 74, 280
Fluorophobia, defined, 12
*Fluorosis: The Health Aspects of Fluorine*, 154
Fluorspar, 185
Folk remedies for tooth decay, 170
Food, Drug and Cosmetic Act, Delaney clause, 322
Food and Drug Administration (FDA), 22
bottled water guidelines, 284–285
Congressional testimony concerning, 324–325
fluoride levels in food and, 143
fluoride toothpastes and, 291–294, 351
Food and Nutrition Board (FNB), 256–257
fluoride supplements and, 288–290
maximum acceptable daily dose concept and, 281–282
Food sources of fluoride, dietary fluoride intake and, 284–285
Forensic studies, health effects of fluoride, 221–223
Forsyth, Bruce, 113
Forsythe Dental Center, 307–310
Foundation for Neuroscience and Society, 245
Fountain, L. H., 242, 324
Fowler, Betty, 47–48
Freedom of Information Act (U.S.), 141, 144–145, 195–197
Freitas, Joseph, 80
Freni, Stan, 237–238
Freud, Sigmund, 136
Friends of the Earth, 273
Frish, John, 112–116
*Fundamentals of Air Pollution*, 160
Funding for fluoride research, politics and self-interest and, 312–315
*Galileo’s Revenge: Junk Science in the Courtroom*, 315
Genetic damage, fluoride toxicity and, 35, 235–238
Germany, fluoridation policy in, 29
*Giardia*, water chlorination systems and, 348–349
Global fluoridation statistics, growth rates in, 27–30
Global Oral Data Bank, 180
*Golden Age, The*, 131–132
*Golden Thread* newsletter, 72
Golding, Susan, 88
Gotzsche, Anne-Lise, 146
Government-sponsored fluoridation research, pro-fluoridation bias in, 156–157, 312–315
Graham, John Remington, 320
Grand Rapids, Michigan, water system fluoridation trial, 1–6, 102–116, 171, 179
Grand Rapids Citizens Opposed to Fluoridation, 110–111
*Grand Rapids Herald*, 109
Gray, A. S., 292
Greater Milwaukee Committee Against Fluoridation, 321
Green, Jeff, 85, 87, 89
Green Party, 197, 273
Greenpeace movement, 23
Griffiths, Joel, 138, 141–145, 163–164, 267
Groth, Edward III, 74, 309–310
Groves, Leslie R. (Maj. Gen.), 143
Halo effect, fluoride effectiveness research, 197–201
Hannan, Evelyn, 342–343
Harris, Ruth Roy, 153
Harris, W. L., 108
Hart, Fred J., 22, 33
Harvard School of Dental Medicine, 244–245
Hazardous air pollutants classification, 159
Hazard rankings for air pollutants, 160–161
Health, Education, and Welfare, Department of, 136
Health effects of fluoridation
acceptable risk concept and, 344–346
acute fluoride poisoning, 223–224
allergic reactions and psychological distress, 231–234
bone health and hip fractures, 228–230
cancer risk, credible research on, 238–242
crippling skeletal fluorosis, 225–227
epidemiological studies of, 221–223, 357–360
exposure, intake and dose, 219–221
genetic effects, 235–238
heart disease and, 234–235
kidney dialysis, 230–231
neurological effects, 245–248
osteoporosis therapy using fluoride, 227–228
osteosarcoma controversy, 242–245
risk-benefit analysis of, 338–340
Roholm’s research on, 224–225
Health Effects of Ingested Fluoride, 271–275
Health Media Watch, 248
Health Robbers: A Close Look at Quackery in America, The, 15
Healthy People, 2000 report, 84
Heart disease, fluoridated water linked to, 234–235, 300, 359–360
Heggen, Philip, 17, 127, 134, 138, 343
Hein, Jack, 307–310
Hemodialysis treatment, fluoride poisoning and, 230–231
Hendershott, Mary, 45
Heyd, Charles Gordon, 25
High-fructose corn syrup (HFCS), dental caries and, 202–204
Hileman, Bette, 305, 342–343
Hill, David, 339
Hip fractures, fluoride intake and, 228–230, 339–340
Hirzy, William, 245, 255, 264–267, 269–275, 293–294, 324
Histochemical Journal, 304
Hodge, Harold C.
on cancer-fluoride link, 239
dental cavity research and, 178
dental fluorosis research, 104–106, 205, 225
Fluoridation Facts contributions of, 74–75
heart disease and fluoride toxicity research and, 234
Manhattan Project and, 143–144, 307–309
maximum acceptable daily dose concept and, 281
Newburgh–Kingston fluoride trial and, 162–163
Hoffman, Dan G., 141
Homeopathy, 15, 363–364
Hooper Bay, Alaska, fluoridation accident in, 343–344
Hoover, Robert, 240–242
Horowitz, Herschel, 211, 293
House Subcommittee on Intergovernmental Relations, 324
Houston, Bob, 79–80
“How Honest Are Dentists?,” 336
How We Got Fluoridated, 127, 134, 343
Hubbard, L. Ron, 270
Huber, Peter W., 315
Human error, water fluoridation systems and, 340–344
Hydrogen fluoride pollution genotoxicity studies, 236–328
lawsuits concerning, 133–134, 157–158
Manhattan Project and, 142–145
regulatory policies concerning, 160–161
Hypomineralization, dental fluorosis and, 205
I. G. Farben chemical company, 146
Illinois Pure Water Committee v. State of Illinois, 319
INDEX

Index Medicus, 306
Index of Dental Literature, 306
Ingestion of fluoride
  fluoride cycle and, 186–187
  health effects of, 220–221, 350–351
Inhalation of gaseous fluoride
  acute fluoride poisoning, 223–224
  health effects of, 219–221
Inside the Fishbowl, 264
Institute of Medicine, 256
Institutional review of water system fluoridation, 191–197
Intake levels of fluoride
  benefits and risks of, 290–294, 357
  fluoridated toothpastes and, 285–287
  health effects of, 219–221, 360–361
  maximum acceptable daily dose concept and, 279–282
Intelligence levels, fluoride toxicity and, 245–248
International Agency for Research on Cancer, fluoride-cancer risk studied by, 241–242
International dental fluorosis research, 207–209
International fluoridation research, 111–116, 200–201, 311–312
International Society for Fluoride Research (ISFR), 23–24, 37, 232
  scientific status of, 302–307
In vitro molecular bonding, allergic sensitivity to fluoride and, 233–234
Iodization of water supply, 349
Isman, R., 89–90
“Is There Any Anti-caries Benefit from Swallowing Fluoride?,” 190–191
Jackson, Devon, 146
Jansen, Isobel, 234, 300–301, 304
Jehovah’s Witnesses, 131–132
John Birch Society, anti-fluoridation movement and, 62
Johnson, Martha, 73
John XXI (Pope), 170
Jones, Jim, 78–83
Jonestown disaster, 78–83
Journal of Dental Research, 181
Journal of Public Health Dentistry, 202, 228, 292
Journal of the American Chemical Society, 233–234
Journal of the American Waterworks Associations, 137
Junk science, fluoridation research and, 299–302
Kaufman, Jerry, 89
Kehoe, Robert E., 153–154
Kempf, Grover, 97–98
Kennedy, David C., 14, 85
Kennedy, Donald, 74
Kenney, Joyce, 55
Kettering Laboratory of Applied Physiology, 135–136, 139–141, 153–157, 313
Keyes, Paul, 177
Kidney dialysis, fluoridation and, 230–231
Kinlen, Leo, 320
Knutson, John, 179
Koop, C. Everett, 10, 16, 261–264, 267
Krause v. City of Cleveland, 317
Kubrick, Stanley, 5
Largent, E. J., 154
Las Vegas, Nevada fluoride referendum, 45, 56
Layton, Deborah, 80–83
Layton, Larry, 81–82
Leading Edge International Research Group, 77, 273
Lead uptake, fluoride interference with, 245–248
League of Women Voters, 49
Legal challenges to fluoridation policy, 315–321
Leverett, Dennis, 292–293
Life magazine, 136, 347
Limeback, Hardy, 190, 292, 311–312
Linscott, B. W., 117
Local politics, fluoridation issues and, 65–67
Locker, David, 204, 206–208, 210, 228–229, 244, 293
Lockyer, Bill, 87–90
London Financial Times, 197
Making of the Atomic Bomb, The, 162
Manocha, S. L., 304–307
Marcus, William L., 266–275, 307
Martin, Brian, 29, 151–152, 293, 305, 336–338
Martin, George, 236
Martin, John, 268
Masters, Roger, 78, 245–248, 304
Maximum acceptable daily dose, fluoridation research and, 279–282
Maximum achievable control technology (MACT), air pollution standards, 160
Maximum contaminant level goals (MCLGs), drinking water fluoridation standards and, 260–267, 269–275
Maximum contaminant level (MCL) dietary fluoride intake estimates and, 283–285
drinking water fluoridation standards and, 260–263, 271–275, 279–282
McClure, Frank, 100, 105–106
McKay, Frederick, 94–102, 127, 187
McKinney, H. Lewis, 339–340
Media coverage of fluoridation issues, 66–67
Medical applications of fluoride, 227–228
Medical Care journal, 334
Medical support for fluoridation, 14–16, 21–25
Medical Tribune, 267
Mellon, Andrew, 135
Mellon, Richard, 135
Mellon Institute of Industrial Research, fluoridation research and, 135, 153–157, 313
Meuse Valley (Belgium), air pollution incident in, 141, 150, 158–161
Miller, A. L., 322
Minnesota State Board of Health v. City of Brainerd, Minnesota, 319
Mohamed, Aly, 236–238, 300
Montgomery, Dan, 332–333
Mortality statistics, fluoride toxicity studies and, 234–235, 239–241
Mottled teeth. See Dental fluorosis
Muhler, J. C., 335
Mullenix, Phyllis, 247, 304, 307–310
Mutagenesis, fluoride toxicity and, 237
Mutagenesis journal, 237
Nader, Ralph, 23–24, 50
Nadler, Ellie, 87–90
Nash, Ogden, 171
National Academy of Sciences, 23, 38, 74, 192, 275
Board of Environmental Studies and Toxicology, 271–275
fluoride-cancer risk studied by, 241–242
Institute of Medicine, 256
National Ambient Air Quality Standard, 159
National Audubon Society, 260
National Cancer Institute (NCI), 33, 121, 238–243, 300
Surveillance, Epidemiology and End Results (SEER) program, 243
National Caries Program, 179, 182–185
National Center for Fluoridation (NCF), 10–11
National Center for Fluoridation Policy and Research, 9–10, 37, 45, 51, 191
National Center for Health Statistics, 182
National Confectioners Association, pro-fluoridation policies of, 21
National Council Against Health Fraud (NCHF), 15
National Fluoridation News, The, 24, 37, 122, 234
National Fluoridation Summit, 10, 37
National Health Federation (NHF), 22–23, 33, 111, 362
National Heart, Lung, and Blood Institute, 234–235
National Institute of Dental Research (NIDR) conspiracy theories on fluoridation and, 153
cost analysis of fluoridation, 332–333 on dental cavities and fluoride reduction, 99–102, 211–212
dental cavity research by, 177–185, 195–197
dental fluorosis increase, research on, 207–209
fluoride intake levels and, 293–294 oral fluoride rinses, effectiveness studies of, 289–290
on water fluoridation systems, 30–31, 109–110, 199–200
National Institute of Environmental Health Services, 244–245
National Institute of Municipal Law Officers, 21
National Institutes of Health (NIH) fluoride toxicity research and, 234–235
heart disease and fluoride toxicity disputed by, 234
tooth decay and fluoride research, 98–102
water system fluoridation research and, 103–106
National Interim Primary Drinking Water Standards, 259–263
National Kidney Foundation (NKF), fluoridation research and, 21, 230
National Nutritional Foods Association, 22, 362
National Opinion Research Center, social dynamics of fluoridation and, 62–63
National Preventive Dentistry Demonstration Program (NPDDP), 289–290
National Research Council, Congressional legislation and, 323–325
National Toxicology Program (NTP), 242–244, 266–269, 324
National Treasury Employees Union (NTEU), 255–256, 263–266, 269–275
Natural Resources Defense Council, 23–24, 260, 265, 267, 273
Nature magazine, 149, 184
Neapolitan immigrants, mottled teeth of, 92–96
Netherlands fluoride trials, 111–116, 190, 200
Newburgh–Kingston fluoride trial, 111–116, 144–145, 162–163, 171 epidemiological research and, 221–223
New Drug Applications, 325
Newsweek 38
New West Magazine, 80
New York State Coalition Opposed to Fluoridation, 110
New York State Dental Journal, 305
New Zealand Dental Health Foundation, 310–312
Nikiforuk, Gordon, 333–334
Nondental effects of fluoride, 261–263
Null, Gary, 270
Null hypothesis, fluoride research and, 301
Occupational health studies, fluoride effects, 221–223
Ontario fluoride trials, 111–116, 171 anti-fluoridation movement criticism of, 117–120 research on effectiveness of, 193–197
Opposition to fluoridation systems, history of, 4–6
Optimal fluoride level, 279–282
Oral fluoride rinses, 288–290
Oral Health America, 10
Orland, Frank, 177
Osteoporosis, fluoride therapy for, 227–230
Osteosarcoma, fluoride toxicity linked to, 242–245
Osteosclerosis, 227–228
O'Sullivan, Elizabeth, 182
Over Tumbled Graves, 46

Paduano v. City of New York, 318
Pauling, Linus, 119
Pelton, W. J., 105–106
Pennsylvania Division of Industrial Air Pollution, 139
Pennsylvania Environmental Network, 273
People for Healthy Teeth, 45, 51–52, 56
“People for Healthy Teeth” Committee (Spokane), 47–49
People’s Temple, 79–83
Percentage reduction statistics for fluoride reduction of caries
anti-fluoridation movement criticism of, 118–120
research methodology and design, 195–197
Perkins, Charles Elliott, 146
Personal liberties, fluoridation as violation of, 316–321
Perspectives in Biology and Medicine, 201, 310
Pharmacology and Toxicology of Uranium Compounds, 162
Phipps, Kathy, 228
Physiology-based medical reasoning, fluoride toxicity studies, 222–223
Plutonium Files: America’s Secret Medical Experiments in the Cold War, The, 144–145, 162
Poison control centers, fluoride ingestion incidents at, 350–351
Police power concept, constitutional issues in fluoridation policy, 316–321
Political Activity Advantage Index (PAAI), 65–67
Politics of fluoridation issue, 64–67, 120–122. See also Electoral politics
EPA-NTEU dispute and, 263–266
research methodology and, 194–197
Poplarville, Mississippi, fluoridation accident in, 343–344
Pop psychology, social dynamics of fluoridation issue and, 61–64
Population demographics
dental cavity reduction with fluoride and, 176
fluoride-cancer risk and, 240–242
Pre-eruptive phase of tooth development, systemic fluoridation and, 188–190
Preventive Dental Health Association, 14, 22
Procter & Gamble, 179, 285–287, 313
“Professional’s Statement Calling for an End to Water Fluoridation,” 24–25
Pro-fluoridation movement
acceptable risk concept and, 344–346
allergic sensitivity to fluoride and, 232–234
Barrett’s leadership of, 14–16
benefits of fluoridation promoted by, 333–338
bias in research and, 300–302
communication campaigns of, 36–40
credibility issues, 361–363
crippling skeletal fluorosis research and, 226–227
dental fluorosis increase and, 206–209
drinking water standards and, 260–263
electoral politics and, 64–67
funding for research in, 312–315
future of, 356–364
genetic damage from fluoride disputed by, 235–238
government-sponsored research dominated by, 156–157
growth in U.S. of, 26–30
health risks of fluoride and, 343–344, 357–360
national organizations in support of, 19–25
neurotoxicity of fluoride disputed by, 246–248
research methodologies used by, 191–197
risk-benefit analysis of fluoridation and, 338–340
risk-cost-benefit analysis by, 329–331
statewide mandates, 59–60
voting percentages for, 60–61
web sites and sources of, 11–12
year 2000 initiatives of, 56–59
Program F studies, 144–145
Propaganda, 136
Prozac, fluorinated compounds in, 145–146
Psychological distress, fluoride toxicity and, 231–234
Public health law
chlorination systems, 346–349
fluoridation policy and, 316–321, 349–351
Public Health Service (U.S.)
anti-fluoride movement and, 303–307
cancer-fluoride risk studied by, 241–244, 266–269
Congressional legislation and, 323–325
conspiracy theories concerning, 134–136, 138, 152
on dental fluorosis, 205–206
Donora air pollution incident and, 139–141, 157–161
drinking water standards of, 257–263
fluoridation information sources from, 11–12, 38
fluoridation levels recommended by, 19, 279–282
fluoride intake levels and, 293–294
fluoride supplement guidelines, 288–290
genotoxicity studies of fluoride, 236–238
Grand Rapids fluoridation trial and, 108–111
immigrant health care by, 93
maximum acceptable daily dose concept and, 281
pro-fluoridation movement and, 3–8, 38, 112–116, 361–363
Public opinion on fluoride
history of, 4–6
social dynamics research and, 61–64
voting percentages, 60–61
Pure Water Committee of Western Maryland, 54–55
“Putting Yiamouyiannis into Perspective,” 33–34
Quackwatch website, 14–19, 34
Quirk, James, 321
Rady, June, 90
Rage (film), 11
Raheb, Joseph, 229–230
Rapaport, Ionel, 235–236, 300
Ratcliff, J. D., 102
Reader’s Digest magazine, 102, 336
Recommended maximum contaminant level (RMCL), drinking water standards and, 259–263
Referendums on fluoridation
Cumberland, Maryland, 52–56
history of, 4–6
political analysis of, 64–67, 164–165
recent trends in, 44–68
Spokane, Washington, 46–52
year 2000 decisions, 56–59
Reich, Robert, 269
“Relation of Mottled Teeth to Caries, The,” 98
Renal osteodystrophy, fluoride intake and, 230–231
Research methodology on fluoridation
anti-fluoride movement critique of, 19–197, 118–120, 183–185
bias and junk science and, 299–302
credibility issues and, 361–363
evaluation of, 191–197
halo effect, 197–201
suppression of research and, 304–307
Review of Fluoride: Benefits and Risks, 243, 267
Rhodes, Richard, 162
Risk-cost-benefit analysis, 329–331, 360
acceptable risk concept and, 344–346
Roberts, John, 45
Rochester Cariology Center, 199
Rogowski v. the City of Detroit, 319
Roholm, Kaj, 74, 150, 158–161, 224–225, 280–282
Rohypnol, fluorinated compounds in, 145–146
Rosenbaum, Virginia, 55
Ryan, Leo J., 78–82
Sadler, Philip, 140, 142–145, 157–158
Safe Drinking Water Act, 259–263, 272–275, 324
Safety issues in fluoridation systems, 340–344
  acceptable risk concept and, 344–346
Safe Water Foundation of Texas, 267
Safe Water Foundation of Texas v. City of Houston, 319
Safe Water Foundation of Texas v. Fond-Du-Lac, Wisconsin, 321
Sagan, Carl, 298–300, 303
Salt Lake City, fluoride referendum in, 45
San Diego, California, fluoridation initiative in, 87–90
San Diego Fluoridation Coalition, 87–90
San Diego Taxpayers Association, 90
San Diego Union Tribune, 88
Satcher, David, 10
Schatz, Albert, 119–120
Scheele, Leonard, 113
Schindler, Linda, 47
Schneiderman, Marvin, 240
Schumacher, E. F., 330, 345–346
Science Citation Index, 306
Science magazine, 292
Scientific American, 132
Scientific Knowledge in Controversy: The Social Dynamics of the Fluoridation Debate, 29, 151–152, 305
Scientific research
  anti-fluoridation movement disparaged in, 303–310
  bias in institutional research and journals, 302–307
  court suits and, 315–321
  fluoridation research and, 298–325
  funding and self-interest in, 312–315
  suppression of research and, 304–307
Scott, David, 107–112
Secondary maximum contaminant levels (SMCL), drinking water standards and, 262–263
Second International Conference on the Declining Prevalence of Caries, 198–201
Second National Survey of Caries in U.S. Schoolchildren, 181–185
Self-interest in scientific research, 312–315, 336–338
Senate Subcommittee on Wildlife, Fisheries, and Drinking Water, 324
SENES Oak Ridge Center for Risk Analysis, 89–90
Sensenbrenner, James, 324
Sharer, J. Frederick, 55
Sheldon, Trevor, 197
Sherrell, Darlene, 7, 11, 16–19, 61, 130
  anti-fluoride campaign of, 72–78, 104, 135–136
Sieberling, John F., 324
Sierra Club, 23, 273
Silicofluorides, neurotoxicity of, 245–248
Skeletal bone, osteoporosis and, 228
“Skeptic Ring” alliance, 15–16
Small, John, 240
Small Is Beautiful, 330, 345–346
Smith, Geoffrey, 292, 305
Smith, Howard, 98
Smith, Margaret Cammack, 98, 121
Smith, Mary, 47, 49, 51
Snyder, Lynne Page, 157
Social dynamics of fluoridation, 61–64
  cost-benefit research, 336–338
  intelligence, crime, addiction and fluoride toxicity and, 245–248
  socioeconomic status and fluoridation access, 204, 211–212
Sodium monofluorophosphate (MFP), in Colgate fluoride toothpaste, 286–287
Soft drink consumption, dental cavities and, 202–204
Soft drink industry, fluoride research funding by, 314–315
Solubility research on fluoride, 187–190
Southworth, Michael, 49
Speier, Jackie, 71, 78–83, 272
Spira, Leo, 130–132, 134, 149, 323
Spokane, Washington, fluoride referendum in, 46–52, 67–68
Spokesman Review, The newspaper, 50
Stamm, John, 40
Standard mortality ratios (SMRs), fluoride-cancer link based on, 240–241
Statewide fluoride mandates, 59–60
Statistical analysis in fluoride trials anti-fluoridation movement criticism of, 118–120
cancer-fluoride risk analysis and, 243–244
epidemiological studies, 221–223
neurotoxicity of fluoride and, 246–248
Stockton, Robert, 48
Stop Fluoridation USA movement, 7–8
chronology of, 127–165
web site for, 10–12, 71, 78
Streptococcus mutans, dental caries and, 176, 203–204
Streptomycin, 119
Sugar, dental caries and, 176–178, 202–204
Sugar Association, 314
Sugar industry, pro-fluoride research funding by, 313–315
Sugar substitutes, development of, 177–178
Sunstein, Cass, 39–40
“Surfeit of Fluoride?, A,” 292
Surgeon General, U.S.
fluoridation supported by, 362
Healthy People, 2000 report, 84
Report on Oral Health, 10
Surveillance, Epidemiology, and End Results (SEER) program, cancer-fluoride risk analysis, 243–244
Susheela, A. K., 304
Sweden, fluoridation policy in, 29
Systemic fluoridation. See also Topical fluoridation applications
anti-fluoride movement opposition to, 120–122, 134–165
concentration levels, research on, 104–106
dental cavity reduction and, 183–185, 209–212
European research on, 187
fluoride chemistry and, 185–190
growth in U.S. of, 25–30
pre-eruptive hypothesis concerning, 188
research methodology on effectiveness of, 191–197
research on, 102–106, 187–190
Taves, D. R., 236–237, 320
Taylor, Alfred, 121, 238–239, 300–301
Taylor, C. R., 105
Taylor, Nell Carmichael, 238–242
Teeth anatomy and development of, 172–175, 188
mottling of. See Dental fluorosis
Teotia, S. P. S., 304
Teratogenesis, fluoride toxicity and, 237–238
Terry, Luther, 10–11
Thomas, Lee, 264–266
Thorburn, Kim, 47–51
Thylstrup, A., 190
Tiel-Culemborg fluoridation trial, 111–116, 190, 200
“Time for a New Baseline,” 292
Tolerable upper intake level fluoride toxicity studies, 225
maximum acceptable daily dose concept and, 281–282
Tompkins, Linda, 49
Tompkins, William, 53–56
Tooth Robbers: A Pro-Fluoridation Handbook, The, 15–16
Topical fluoridation applications
dental cavity prevention using, 178–185, 210–212, 357
dental fluorosis increase and, 208–209
fluoride chemistry and, 189–190
halo effect of, 199–201
research on, 118–120, 152, 187–189
Toronto Globe and Mail, 311
Total dissolved solids, drinking water standards and, 257–258

“Town Without a Toothache, The,” 102

Toxicology of fluoride
animal studies, 222–223
epidemiological studies, 221–223
exposure, intake and dose, 219–221
kidney dialysis and, 230–231
Manhattan Project research on, 143–145, 162
Marcus controversy over, 266–269

Toxic Terror (Whelan), 12

Trabecular bone, osteoporosis and, 228

Treasure of Health, 170

Trihalomethanes, water chlorination systems and formation of, 348–349

Unapproved New Drugs, 325

Understanding Dental Caries, 333–334

University of Cincinnati Department of Environmental Health, 155–157

University of Rochester, Medical Section of Manhattan Project at, 143–145, 161–164

Upjohn Corporation, fluoride research funding by, 313

U.S. Army Chemical Warfare Service, 143

U.S. Geological Survey, 23

U.S. Steel Corporation, 139–141

U.S. Supreme Court, fluoridation litigation in, 315–321

Value-free ideas, scientific research and, 298–300, 303

Varner, J. A., 247–248, 304

Volcanic eruptions, acute fluoride poisoning and, 224

Volker, J. F., 178

Voting percentages on fluoride initiatives, 60–61

Wade, Nicholas, 300

Waldhott, George
aluminum fluoride by-products and, 137

fluoride toxicity studies and, 231–232, 234, 300
health risks of fluoridation and, 339–340, 343
hydrogen fluoride pollution and, 133
politics of fluoridation issue and, 122
social dynamics of fluoridation issue and, 62

Waldran, Rose, 49, 52

Waldron, Marie, 89

Walter, Jess, 46

Warner, Harold, 304–307

Warren, Stafford L. (Col.), 143–144

Washington State Safe Water Coalition, 47–48

Washington v. Harper, 321

Waste Not newsletter, 50, 142

Watchtower Society, 131–132

Water chlorination systems, 346–349

Water intake statistics, dietary fluoride intake estimates and, 282–285

Water iodization, 349–350

Water system fluoridation
anti-fluoride movement opposition to, 120–122, 134–165, 203–204
community involvement in, 3–6
concentration in water supply, research on, 104–106
costs of, 331–333
current research on, 190–191
dental caries rebound following discontinuance of, 200–201
dental cavity reduction and, 183–185, 209–212, 357
dental fluorosis incidence and, 205–211
diffusion and dilution effects of, 199–201
early proposals for, 102–106
engineering and human error in, 340–344
European research on, 187
Grand Rapids, Michigan case study, 1–6
growth in U.S. of, 25–30
halo effect of, 198–201
heart disease linked to, 234–235
impact on bone mineral density, 229–230
research methodology on effectiveness of, 191–197
survey of city trials, 111–116

Websites
fluoridation information sources on, 9–14
medical debate on fluoridation on, 14–16, 39–40
Weir, Roy, 323
Welsh, George, 105–106, 109
Welsome, Eileen, 144–145, 162
Whelan, Elizabeth M., 12
Whitford, Gary, 234, 247
Why EPA’s Headquarters Union of Scientists Opposes Fluoridation, 272
“Why I Changed My Mind about Water Fluoridation,” 310–312
Why San Diego Should OK Fluoridation, 88
Wilson, Pete, 85
Wilson, Richard, 345
Winchell, Walter, 141
Wisconsin Fluorine Study Committee, 112–116
Woodworth, Clayton J., 132
World Health Organization
allergic sensitivity to fluoride disputed by, 232
crippling skeletal fluorosis estimates by, 226–227
fluoridation policies and research, 38, 75, 179–182, 192
fluoride-cancer risk studied by, 241–242
fluoride toxicity studies, 225
maximum acceptable daily dose concept and, 281
World Sugar Research Association, 314
Yakima County Children’s Oral Health Coalition, 45
Yakima Safe Water Coalition, 45
Yiamouyiannis, John, 7
cancer-fluoride link analysis by, 239–240, 242, 300
Congressional testimony, 324–325
court litigation and, 320
dental cavities and fluoride research, 195–197, 300
halo effect and, 201
pro-fluoridation movement and, 38
York University fluoride study, 195–197