Abbott Labs, 58
Abel, John J., 40–41
ACA. See American Correction Association
Acker, Caroline, 15–16, 17, 239n5; Creating the American Junkie, 31
Addiction Research Center (ARC), 2, 7, 16, 27, 56–59, 61, 62, 63, 68–187, 193–96, 211, 218, 222, 227, 232, 239n3, 244n14, 244n17, 245n15, 245–46n24, 249n2, 250n7, 250n13, 251n14, 251n16, 252n23, 253n7, 253n12, 253n13, 254n14, 254n17, 254n19, 254n23, 256n35, 256n36. See also National Institute on Drug Abuse: Intramural Research Program
Addiction Research Center Inventory (ARCI), 76, 195, 246n26
addiction researchers, 2, 4, 14, 27, 28, 39, 43, 50, 70, 73, 83, 84, 88, 103, 119–20, 162, 166, 186, 209, 223, 232, 236, 237, 238, 239n5, 241n2, 247n15
addiction research network, 180
Addiction Technology Transfer Center Network, 235
Addictions, 5
addicts, 4, 9, 10, 12, 14, 16, 20, 22, 26, 86, 87, 99, 104, 150, 233. See also caffeine addicts; cannabis addicts; cocaine addicts; drug addicts; female addicts; heroin addicts; medical addicts; morphine addicts; narcotic addicts; nonaddicts; nonmedical addicts; opiate addicts; physician addicts; postaddicts brain differences with nonaddicts, 212 characterizations, 207, 246n26 children of, 260n7 definitions, 62, 251–52n17 facilities for, 60 lobotimized, 124 metabolic aberrations of, 186 postwar, 63, 67 prewar, 63 prison-hospitals for, 55, 61, 65 professionalization, 65–66 relapse, 75 sexual behavior, 24, 25 treatment, 6, 7, 13–20, 55, 58, 60–61, 64, 81, 119–20, 123–24, 128–29, 156, 160–61, 167–68, 200, 218–19, 221, 224, 233–34, 237. See also Addiction Research Center; Center for Substance Abuse Treatment; Clinical Research Center volunteer, 58, 114, 116 addicts, female, 208 Advisory Committee on Human Radiation Experiments, 240n1, 240n3, 246n27 African American men, 12, 26, 122, 129, 144, 149, 188. See also Tuskegee Study of Untreated Syphilis in the Negro Male African Americans, 63, 65, 66, 67, 138, 148, 149, 189, 207 African American women, 207 Airlie, VA, 254n18 Albert Einstein University, Department of Pharmacology, 204 Albuquerque, NM, 189 Alcohol, Drug Abuse, and Mental Health Administration (ADAMHA), 163, 209, 253n13 alcoholism. See Behavioral Effects of Alcohol in the Rhesus Monkey; National Academy of Sciences: Committee to Identify Strategies to Raise the Profile of Substance Abuse and Alcoholism Research;
alcoholism (continued)
   New York State Office of Alcoholism and Substance Abuse Services
   research, 192
Alcoholism and Substance Abuse Providers Association, 261n3
Alexander, Richard, 153
Algren, Nelson, *The Man with the Golden Arm*, 87, 247n5
alimentary orgasm, 22, 23, 247n35
American Association for the Advancement of Science, 205
American Bar Association, 150
American Civil Liberties Union, 26
National Prison Project, 145, 172, 231
American College of Neuropsychopharmacology, 157, 255n15, 256n4
American Correction Association (ACA), 145, 166, 221, 254n23
Ad Hoc Committee on Medical Experimentation and Pharmaceutical Testing, 166
   “Position Statement on the Use of Prisoners and Detainees as Subjects of Human Experimentation,” 166
American Medical Association
   Committee on Tobacco and Health, 258n14
   Council on Pharmacy and Chemistry Committee on Research, 97
   Therapeutic Trials Committee, 93
American Society for Pharmacology and Experimental Therapeutics (ASPET), 41–42, 157, 182
   Public Affairs Committee, 42
amytal, 66
analgesia, 83, 106, 107, 112
analgesics, 7, 15, 30, 31, 45, 52, 83, 90, 91, 93, 94, 96, 101, 105, 107, 108, 121, 156, 157, 173, 239n15, 250n8
Andrews, Howard L., 56, 246n31
animal pharmacology, 30, 43
Ann Arbor, MI, 2, 48, 181, 190, 252n23, 258n10
Annual Research and Scientific Development Conference, 243n22
Anslinger, Harry J., 25
antidepressants, 184
antimalarial drugs, 33, 39, 243n21
Anzio, 94, 95
ARC. See Addiction Research Center Inventory
Arnold, John D., 174
ASPET. See American Society for Pharmacology and Experimental Therapeutics
Atlanta Penitentiary, 56, 97, 136, 152
Atlantic City, NJ, 72
Atlantic Monthly, 145
Attica, 59
Baltimore City Hospital, 169, 192, 194
Barber, Bernard, *Research on Human Subjects*, 175
barbital, 34
barbiturates, 33, 34, 58, 66, 70, 77, 79, 90, 96, 109, 110, 122, 123, 132, 211, 246n31, 250n13
Bates, Sanford, 60–61
Bayview Medical Center, 169
Becker, Howard S., 29, 67, 181, 241n1, 245n21, 257n3
   “Ethics and Clinical Research,” 91;
   “Euphoria: A Study of Drug-Induced Mood Changes in Man,” 99
Beecher-Army Compromise, 133
behavioral analysis, 1, 23, 50, 182
Behavioral Effects of Alcohol in the Rhesus Monkey (film), 48
behavioral engineering, 179, 180, 184
behavioral pharmacology, 6, 49, 51, 171, 178–99, 257n12, 257n13, 258n17
Behavioral Pharmacology Society, 258n7
Belleville, Richard, 56, 168, 195, 246n26, 252n23
Belmont Report, The, 146, 147, 229, 253n10
Bennett, James V., 60, 61, 171
Benzedrine, 66
Bernard, Claude, 34, 241n5
   “Experimental Studies on Opium and Its Alkaloids,” 241n5
Berridge, Virginia, 5
Bigelow, George, 191, 192, 193, 194, 195
Biltmore Hotel, 243n22
Binghamton, NY, 15
bioethics, 133, 139, 175, 252–53n3, 253n17
Biomedical Research Panel, 163
biomedicine, 7, 8, 21
Bishop, Ernest S., 18
Bishop, Marilyn (aka Janet Clark), 65, 67, 68, 245n21
Boggs Act, 62, 148
BOP. See Bureau of Prisons
Boston, MA, 91, 218. See also Harvard Medical School; Massachusetts General Hospital
Boston City Hospital, 74
Boston University, 74
Law-Medicine Research Institute (LMRI), 72
“A Study of the Legal, Ethical, and Administrative Aspects of Clinical Research Involving Human Subjects,” 246n29
Brady, Joseph V., 6, 156, 168, 180, 181, 182, 253n7
brain, 10, 27. See also cerebral Candida infection; chronic relapsing brain disorder; Harvard University Interfaculty Initiative on Mind, Brain, and Behavior addiction research, 28, 56, 86, 90, 106, 154, 184, 200–221, 246n31, 258–59n17
banks, 209
caffeine addiction, 36
central nervous system depressants, 48
chemistry, 1
Decade of the Brain, 200, 206, 259n1
difference of addicts and nonaddicts, 208, 212, 214
diseases, 2, 203, 204, 205, 208, 220, 221
disorder, 3, 117–18, 200, 201, 203–8, 214
effects of opiates on, 17, 210, 244n4
lesions, 18, 77, 216
mapping, 218, 219, 241n12
metabolism, 77
pleasure centers, 24
proteins, 209
reward system, 241n12
signature, 207, 210, 219
Bridgman, Percy W., 104, 248n21
bromides, 66, 77
Bronstein, Alvin J., 145, 172, 173, 174, 231
Brook Lodge Conference Center, 91
Brooklyn, NY, 251n14
Brown, Ralph, 56
buprenorphine, 58, 196, 232
Bureau of Chemistry, 241n4
Bureau of Prisons (BOP), 55, 147, 239n3
Bureau of Prohibition, 39
Bureau of Social Hygiene, 15, 32
Burroughs-Wellcome, 58
Bush, George, 200
Bush, George, Sr., 259n1
Butler, Judith, The Psychic Life of Power: Theories in Subjection, 226
caffeine addicts, 34, 36
Califano, Joseph, 166
California, 135, 137. See also University of California, San Francisco, Department of Pharmacology
Camden, NJ, 188, 189
Candland, Douglas, 258n16
cannabis addicts, 35, 36
Carlson, Norm, 147–48, 152–54, 253n12, 254n23, 254–55n24
Carter, Jimmy, 166
Cay Santiago, 241n21
CEC. See Correctional Economics Center
Center for Substance Abuse Prevention, 261n2
Center for Substance Abuse Treatment (CSAT), 235, 261n2
Correctional Economics Center Practice Research Network, 235, 261n3
Central Institute for Experimental Animals of the Medical Research Laboratory, 47
Central Intelligence Agency (CIA), 119, 133, 134, 146, 160, 161, 251n14–15, 253n9
central nervous system, 184
depression, 33, 34, 35, 48
cerebral Candida infection, 77
Chemical Corps, 133, 134, 160
chemical dependency, 3, 200
Chen, K. K., 353n8
Chessick, Robert, 87, 247n35
Chestang, Earl, 128–29
Chicago, IL, 64, 67, 258n14
Childress, Anna Rose, 217, 218, 261n18
Childs, James Henderson, 146, 249n4
Chinese, 65, 67, 148, 211
chloral hydrate, 13, 66
chlorpromazine (CPZ), 84, 88, 89, 152, 161, 182, 184, 247n12, 257n5, 258n6
chronic relapsing brain disorder (CRBD), 3, 117, 200, 201, 203, 204, 205, 206, 207, 220, 221, 260n17, 260n8
Church, Frank, 146, 160–61, 253n9
CIA. See Central Intelligence Agency
Ciba, 58
cigarette smoking, 66, 68
Cincinnati, OH, 79
civil rights, 134, 138, 139, 148, 149, 172, 229
Clark, Janet (aka Marilyn Clark Bishop), 65, 67, 68, 245n21
classical pharmacology, 31, 50, 180, 193
Clay, Otis, 151, 152, 254n19
clinical pharmacology, 44, 168, 180, 193
clinical research, 2, 4, 7, 11, 30, 37, 44, 50, 51, 53, 56, 61, 70, 72, 90, 91, 98, 102, 127, 130, 131, 132, 137, 143, 167, 169, 175, 184, 230, 240n2, 240n5, 249n1, 250n6
ethics, 91
Clinical Research Center (CRC), 135, 136–38, 140, 155, 244n7, 252n19, 252n23
clinical trials, 7, 8, 50, 55, 59, 82, 84, 90, 92, 96, 97, 114, 127, 128–31, 150, 155, 174, 176, 177, 192, 227, 228, 231, 235, 247n2, 248n16, 250n8
conduct of, 224, 226
privatized, 231
randomized, 93, 94, 204
socially responsible, 7, 8, 230, 232
clonidine, 58
cocaine addicts, 36
cold turkey, 117, 144
College on Problems of Drug Dependence, 216
Columbia Psychoanalytic Clinic for Education and Research, 21
Committee on Drug Addiction (National Research Council), 28, 29–30, 32, 38, 39, 54, 61
Committee on Drug Addiction and Narcotics (National Research Council), 40, 45–47, 51, 52, 57, 58, 61, 63, 82, 84, 90, 91, 92, 98, 100, 101, 107, 108, 109, 111, 112, 121, 123, 132, 190, 232, 243n122–23, 245n15, 250n8
Committee on Drug Addictions (Bureau of Social Hygiene), 15, 32
Committee to Identify Strategies to Raise the Profile of Substance Abuse and Alcoholism Research, 206
Committee on Labor and Public Welfare, 145
Committee on Pharmacological Research (National Research Council), 15
Committee on Problems of Drug Dependence (National Research Council), 53, 84, 157, 169, 178, 182, 190, 230, 232, 243n23, 254n17, 258n13
concordance between human and animal models, 49, 52, 189, 190, 192, 195
conditioned reflex theory, 78
conditioning, 75, 80, 95, 126, 168, 196, 203, 216
conditioning, classical, 76, 179, 180, 193, 196.
See also Pavlovian conditioning theory conditioning, psychological, 64
conditioning, social, 64
conditioning hypothesis, 79, 81
conditioning theory, 49, 75, 78, 117–18, 218
Connecticut State Prison, 174
Cornell University Medical College, 95, 96, 248n19
Correctional Economics Center (CEC), 150
Courtwright, David, 12, 259n5
CPZ. See chlorpromazine
CRBD. See chronic relapsing brain disorder
CRC. See Clinical Research Center
Crowley, Thomas, 191
CSAT. See Center for Substance Abuse Treatment
cyclazocine, 58
Decade of the Brain, 200, 206, 259n1
delta-9-THC, 58
Demerol, 47, 58, 66, 122, 123
Deneau, Gerry, 48, 51–52, 241n5
depressants, 33, 35, 36, 47, 48
Depression, 72
depression, 86, 105, 204. See also tense depression
De Ropp, Robert S., Drugs and the Mind, 85–86
Dews, Peter B., 163, 181, 182–83
DHEW. See U.S. Department of Health, Education, and Welfare
Dilaudid, 37, 58, 70, 111, 122, 124, 155, 242n9
direct addiction test, 76
disequilibrium, 35, 40, 43
Division of Narcotic Addiction and Drug Abuse, 244
Dole, Vincent, 250n7, 260n13
dolophine, 66
dol scale, 95–96
Domino, Edward F., 97, 126–27
Dromoran, 126–27, 250n13

drug, definition, 5, 40

drug abuse, 3, 6, 27, 31, 52, 76, 155, 156, 157, 168, 169, 170, 178, 179, 180, 181–82, 185, 187, 190, 195, 199, 204, 206, 212, 213, 215, 251n16, 259n6. See also Alcohol, Drug Abuse, and Mental Health Administration; National Advisory Council on Drug Abuse; National Institute on Drug Abuse; White House Special Action Office for Drug Abuse Prevention

treatment, 203

Drug Abuse Warning Network, 169

“Drug Addiction among Adolescents” (conference), 42
drug addicts, 16, 58, 90, 118, 121, 238

behavior, 25
cerebral Candida infection, 77

etions, 77
treatment, 55, 58, 60, 61, 65, 66, 203, 204, 208–9, 213, 214, 225, 251n16, 251–52n17, 259n6, 260n8. See also Addiction Research Center; Center for Substance Abuse Treatment; Clinical Research Center
electroshock, 124, 152
frontal lobotomy, 121, 124, 125–26, 127, 142
methadone, 45, 58, 66, 90, 120, 121–23, 124, 127, 128–29, 142, 217, 248n16, 250n17
relapse, 1, 2, 13, 57, 75, 76–77, 80, 81, 82, 117, 118, 128, 130, 164, 203, 204, 205, 215, 217, 218, 219, 221, 233, 247n16, 258n10
drug research ethics. See research ethics
drug self-administration, 47, 48, 49, 50, 52, 96, 97, 102, 179, 180, 181, 186, 187, 188, 190, 191, 193, 208, 209, 213, 217, 258n10
dual-action hypothesis, 35, 241n6
DuMez, A. G., 75
DuPont, Robert, 153, 154, 168, 169, 254–55n24

Eddy, Nathan B., 32, 40, 46, 51, 52, 63, 64, 107, 190, 241n2, 243n24, 245n15

Award, 79, 216
Edmunds, Charles W., 32, 39, 241n4
Edwards, Griffith, 5, 6

EEG. See electroencephalography (EEG)

Effectiveness of Drug Abuse Treatment, The, 204

Ehrlich, Paul, 210, 260n10

Eisenman, Anna J., 56
electroencephalography, 56, 78, 105, 246n31, 249–50n5
electroshock treatment, 124, 152

Eli Lilly, 58

Elixir Sulfanilamide, 243n20
elixir terpin hydrate, 66

enactment, 115, 176

Endo, 58

Equanil, 58, 88

Ervin, Sam J., 254–55n24

Esquire, 85

ethics of human and animal experimentation.

See research ethics

ethnopharmacology, 88, 89, 248n9
euphoria, 24, 98–107, 111, 121, 186

Excelsior House, 137

experimental readdiction, 76, 98, 102, 114, 115, 117, 123, 192, 218

Faribault, MN, 191

Faribault State Hospital, 191

fast magnetic resonance imaging (fMRI), 201, 217, 218

FDA. See U.S. Food and Drug Administration

Federal Bureau of Narcotics (FBN), 25, 62, 63, 160–61

Federation of American Societies for Experimental Biology, 242n17

Felix, Robert H., 56, 63, 73, 246n31, 247n12

female addicts, 208


Fleck, Ludwik, 6, 11, 19, 21, 28, 177, 185, 194, 223; Genesis and Development of a Scientific Fact, 223

Flexner, Abraham, 40

Florida. See Orange Park

Flowers, Eddie, 116–17, 119, 129, 146, 148, 162, 245n24, 249n14

fMRI. See fast magnetic resonance imaging

Food, Drug, and Cosmetic Act, 84, 155, 243n20, 243n22

Fort, Joel P., 26–27

Fort Detrick, MD, 251n14
Fort Leavenworth, KS, 54–55, 56, 70, 71, 116, 136
Fort Worth, TX, 55, 67, 82, 135, 144, 148, 225, 244n2, 244n7, 261n19
Foucault, Michel, 59, 81, 113, 143, 175, 225, 240n1; “The Lesson of the Hospitals,” 113
Fox, Renee C., 128, 130, 131, 196; Experiment Perilous: Physicians and Patients Facing the Unknown, 128
Francis Scott Key Medical Center (aka Johns Hopkins University, Bayview Medical Center), 169
Fraser, Franklin, 56, 74, 123
Freud, Sigmund, 20, 21, 22, 23, 24, 25, 77, 78, 83, 247n34; Three Essays on the Theory of Sexuality, 21
frontal lobotomy, 121, 124, 125–26, 127, 142
Geiling, E. M. K., 243n20
Georgia. See Morrow
Germany, 21, 121
Geschickter Foundation, 134
Gilman, Alfred, 204; Pharmacological Basis of Therapeutics, 204
Gold, Harry, 248n13
Goldberg, Steve, 186
Goldstein, Avram, 167, 210, 260n13
Goodell, Helen, 95, 96
Goodman, Jordan, Useful Bodies: Humans in the Service of Medical Science in the Twentieth Century, 248n12
Goodman, Louis, 204, 248n12; Pharmacological Basis of Therapeutics, 204
Gilman, Alfred, 204, 223; Pharmacological Basis of Therapeutics, 204
Gorodetzky, Charles, 74, 138, 139, 140–41, 170, 249n27
Griffiths, Roland, 179, 191, 193, 194
Grinker, Roy R., Sr., 23, 247n34
habituation, 28, 34, 36, 52, 186. See also addiction; specific types of habituation, e.g., caffeine
Haertzen, Charles A., 195, 246n26
Haltbach, H., 52
hallucinations, 46, 48, 89, 109, 123
hallucinogens, 47, 89, 119, 134, 160, 161, 165, 251n14
Halpern, Sydney A., 134, 249n1
Haraway, Donna J., 110
Hardy, James D., 95, 96, 248n19
Harlow, Harry, 37
Harrison Act, 12, 13, 14, 16, 18, 20
Harvard Medical School, 91
Anesthesiology Laboratory, 82, 90–98
Psychobiology Laboratory, 181
Harvard University, Interfaculty Initiative on Mind, Brain, and Behavior, 207
Healy, David, 6, 94, 247n2
hemp, 36, 66
Herman, N. B., 96
heroic medicines, 14, 114
heroin, 37, 42, 58, 66, 90, 100, 111, 121, 123, 155, 247n5
“Hijacked Brain, The,” 200–221, 261n18
Hill, Harris, 56, 195, 246n26
Himmelsbach, Clifton K., 14, 39, 40, 54, 55, 56, 57, 70, 71, 72, 75, 78, 116, 121, 144, 246n26, 246n27
HIV/AIDs, 172, 204, 224, 229, 230
Hoffman-LaRoche, 58
Holiday, Billie, 188
Holmesburg Prison, 134, 228
homeostasis, 43, 105
Hughes, Everett C., 245n21
Hughes, Helen McGill, 245n21; The Fantastic Lodge: The Autobiography of a Girl Drug Addict, 245n21
Hughes, John, 210, 259n5
Hull, Clark L., 178
Human Genome Project, 213
Hunt, Reid, 32
Huxley, Aldous, The Doors of Perception, 85; “Drugs That Shape Men’s Minds,” 247n4; Heaven and Hell, 85
hydromorphinone, 70
Hygienic Laboratory, 16, 240n5
Hyman, Steve, 207
hypnotics, 13, 58, 70, 90. See also chloral hydrate
I. G. Farben, 121
Illinois. See Chicago; Joliet; Southside
Chicago; University of Chicago, Depart-
Lexington Herald, 137
Lexington Hospital, 58, 61, 73, 75, 110, 113, 120, 121, 123, 221, 244n6, 245n13, 252n19
Lilly, Eli, 58
Lilly Research Laboratories, 242n8
Lilly Research Prize, 255–56n13
LMRI. See Law-Medicine Research Institute
logic of concordance, 49, 52
logic of double-blind, placebo-controlled clinical trials, 96
logic of drug self-administration, 52, 180
logic of mimicry, 76, 109, 117
logic of readdiction, 120
logic of substitution, 30, 40, 55, 76, 120
limits of, 52
logic of unmasking, 114, 120
LSD, 47, 58, 133, 134, 161, 211, 251nn14–15, 255–56n33
luminal, 66
MacCorquodale, Kenneth, 181
Macht, David I., 96, 182, 258n6
Mansky, Peter, 136–37
marijuana, 58, 70, 122, 188, 189
Marks, Harry M., 240n2, 249n2
Marks, John, 161; The Search for the Manchurian Candidate: The CIA and Mind Control, 161
Marks, Lara, Useful Bodies: Humans in the Service of Medical Science in the Twentieth Century, 248n12
Marsden, Robert Q., 166
Martin, William R., 56, 64, 72, 74, 137, 140, 146, 147, 151–52, 155–57, 167, 170, 172, 173, 193, 211, 244n14, 256n35
Maryland. See Fort Detrick; Jessup
Maryland House of Detention, 257n43
MASI. See Morphine Abstinence Syndrome Intensity
Massachusetts. See Pondville Hospital
Massachusetts General Hospital, 45, 82, 100, 207, 218
Anesthesiology Laboratory, 90, 248n14
Massengill, 243n20
Matrix House, 137–38
Matthews, Kenneth, 151
McCarthy, Duncan, 51
McCorry, Frank, 261n3
McElligott, Anthony, Useful Bodies: Humans in the Service of Medical Science in the Twentieth Century, 248n12
McEwen, Barbara, 48
medical addicts, 12, 68
Medical Research and Development Board, 248n16
Merck, 58, 122, 150
mescaline, 58, 133, 161, 246n31
methadone, 45, 58, 66, 90, 120, 121–23, 124, 127, 128–29, 142, 217, 248n16, 250n7
Meyer, Peter B., Medical Experimentation on Prisoners: Some Economic Considerations, 150
Michigan, 29, 31, 32, 45, 53, 95, 121, 159, 191, 212, 222, 241n2, 242n15. See also Ann Arbor; Kalamazoo; State Prison of Southern Michigan; University of Michigan
Michigan Corrections Commission, 159
Miltown, 48, 84, 88, 250n13
Minnesota. See Faribault; Faribault State Hospital; University of Minnesota
Mississippi River, 55, 64
Mitford, Jessica, 145, 146; Kind and Usual Punishment: The Prison Business, 59
MKULTRA, 146, 160, 161, 253n9
molecular pharmacology, 53, 210
monkey as figure, 247n6
research, 241n2, 242n8, 242n12, 243n21, 258n15
monkey movies, 37, 38, 47, 109, 111, 242n9
morphine, 12, 28, 32, 33, 34, 35, 36, 70, 71, 77, 80, 95, 96, 100, 101, 102, 103, 152, 155, 173, 211, 242n13, 242n15, 242n17. See also nalorphine-morphine addiction, 186
-like, 50, 126, 241n2
medical use, 112
poisoning, 39, 124
withdrawal, 80, 109, 125
and wounds, 94
Morphine Abstinence Syndrome Intensity (MASI), 246n26
morphine addicts, 30, 31, 35, 38, 45, 46, 47, 52, 53, 55, 63–64, 66, 67, 79, 87, 90, 111, 117, 121, 122, 123, 160, 161, 250n17, 251–52n17, 258n10
Morphine Physical Dependence in the Monkey,

morphism, 18, 33, 34
Moormorow, GA, 66
Mosteller, Charles Frederick, 92
Mowery, Edward, 123–24
Moyers, Bill, *Moyers on Addiction: Close to Home*, 200

n-allylnormorphine, 121, 122, 123
Nalline, 121, 122, 123
nalorphine, 58, 71, 120–21, 122, 123, 126, 127, 250n8
nalorphine-morphine, 250n8
naloxone, 58, 121, 127, 217
naltrexone, 58, 152, 254n19
NARA. *See* Narcotic Addict Rehabilitation Act

Narco. *See* U.S. Public Health Service Hospital

Narcosan, 18
Narcotic Addict Rehabilitation Act (NARA), 135–36, 149, 165, 252n18, 255–56n33, 256n36
narcotic addicts, 55, 59, 125, 142, 156
NAS. *See* National Academy of Sciences

NAPT. *See* Nathan B. Eddy Award

National Academy of Sciences (NAS), 8, 15, 157, 228, 230, 249n13, 261n1
Committee to Identify Strategies to Raise the Profile of Substance Abuse and Alcoholism Research, 206
National Advisory Council on Drug Abuse, 163
National Commission for the Protection of Human Subjects of Biomedical and Behavioral Research, 146, 147, 149, 155, 156, 157, 158, 159, 163–67, 168, 172, 175, 251n14, 253n12, 254n23, 256n36
National Institute of Mental Health (NIMH), 27, 56, 63, 136, 137, 154, 163, 182, 207, 244n7, 256n41; “Program of the Addiction Research Center, 1935–Present,” 154
Clinical Research Center (CRC), 135, 136, 137, 155, 244n7
Psychopharmacology Service Center, 247n2
National Institute on Alcohol Abuse and Alcoholism (NIAAA), 163
Advisory Council Task Force on Intramural Research, 163, 168
Clinical Trials Network, 235
Division of Research, 168
Intramural Research Program, 59, 163, 169
Medications Development Division, 211
National Institutes of Health (NIH), 32, 42, 133, 163, 166, 168, 190, 201, 229, 241n2, 245n15, 253n13, 261n2
National Minority Conference on Human Experimentation, 149
National Prison Project, 145, 172, 231
National Research Council (NRC), 8, 15, 17, 153, 230, 241n4, 243n21
nembutal, 66
Nestler, Eric, 215
neuropharmacologists, 74, 85, 201, 212
neuropharmacology, 167, 202, 212, 256n38
neuropsychiatry, 75
neuropsychopharmacology, 41, 126. *See also* American College of Neuropsychopharmacology; International Conference of Neuropsychopharmacology
neuroses, 78, 247n33

New England Journal of Medicine, 91
New Mexico. *See* Albuquerque
New Jersey. *See* Atlantic City; Camden
New York. *See* Attica; Binghamton; Brooklyn
New York Academy of Medicine, 42, 250n9
New York Academy of Science, 85
New York City, NY, 15, 64, 75, 137, 243n22, 250n7, 250n9
New York Psychoanalytic Institute, 21
New York State Inebriate Asylum, 15
New York State Office of Alcoholism and Substance Abuse Services, 261n3
New York State Practice Research Collaborative, 235
New York Times, 231
New York World-Telegram and Sun, 123
NIAAA. *See* National Institute on Alcohol Abuse and Alcoholism
NIDA. *See* National Institute on Drug Abuse
NIH. *See* National Institutes of Health
NIMH. See National Institute of Mental Health
Nogawa, Kawasaki, Japan, 47
nonaddicts, 16, 102, 124, 138, 164, 208
brain differences from addicts, 212
nonmedical addicts, 12
Nordmoe, Jeremy, 243n23, 255n25
Novocain, 66
NRC. See National Research Council
Numen House, 137
Nuremberg Code, 58, 92, 102, 131, 132
Nuremberg Medical Trial, 102, 103
Nyswander, Marie, 250n7, 260n13
Oberst, Fred W., 56
Office of Naval Research, 63
Office of the Surgeon General, 131
Office of Technology Assessment (OTA), 204, 259–60n6
The Effectiveness of Drug Abuse Treatment, 204
Ohio. See Cincinnati
Olds, James, 24, 213, 241n12
Olsen, J. P., 249n4; The Narcotics Farm, 245–46n24
operant conditioning, 1, 20, 118, 180, 184, 186, 187, 193, 194, 197, 247n33
Opiate Addiction in the Monkey (film), 242n9
opiate addicts, 14, 18, 30, 117, 244n5
operation, 196
opium alkaloids, 96, 241n5
opium pipes, 51
opium problem, 12–28, 30, 32, 40, 66, 78, 250n7, 251–52n17
opium smokers, 63
Oraflex, 254n17
Orange Park, FL, 38
Orenstein, Peggy, 205
Ossenfort, William F., 56
OTA. See Office of Technology Assessment
OxyContin, 254n17
pain, 23, 28, 59, 113, 127, 171, 237
clinical, 106
and drugs, 93
experimental, 94, 95, 152
of injection, 38
intensity scale, 95
intractable, 85, 124, 125, 126
management, 20
pathological, 95
phantom limb, 124–25
and pleasure, 22, 23, 83–112, 201, 213, 238
and postoperative patients, 90, 99, 250n8
relief, 94, 95, 100
thresholds, 95, 96, 122
of withdrawal, 57, 110, 124, 142
painkillers, 6, 30, 162, 254n17
paraldehyde, 66
paregoric, 13
Parke-Davis, 33, 51, 58, 159
Parker, Charlie, 188
patient-inmates, 60, 61, 67, 68, 129
Pavlovian conditioning theory, 75, 78, 79, 180, 187, 193, 216. See also conditioning, classical Pavlov’s Institute for Experimental Medicine, 181
Pellens, Mildred, 18, 19, 20; The Opium Problem, 15, 17–18
Pennsylvania. See Holmesburg Prison; Philadelphia; University of Pennsylvania
pentobarbital, 49
performative enactment of ethical science, 176
performative politics, 139, 140
Pert, Candace, 210, 211
Pescor, Michael, 56
PET scanning. See positron-emission tomography (PET) scanning
Petersen, Robert C., 168, 256n40
Petey, George E., 18, 19
Pfeiffer, Carl C., 97
pharmaceutical industry, 5, 30, 42, 50, 57, 58, 61, 76, 84, 85, 93, 101, 105, 107, 108, 111, 140, 150, 153, 157, 159, 172, 182, 184, 202, 210, 224, 243n22, 249n25. See also Abbott Labs; Burroughs-Wellcome; Ciba; Eli Lilly; Endo; Hoffman-LaRoche; Lederle; Massengill; Merck; Parke-Davis; Reckitt and Coleman; Schering; Smith, Kline, French Laboratories; Squibb; Upjohn Pharmaceuticals; Winthrop-Sterling; Wyeth
testing, 6, 7, 63, 64, 150, 156, 158, 159, 162, 211, 228, 230–32, 249n26, 253n9, 254n17, 258n6
Pharmaceutical Manufacturers’ Association, 254n18
Index / 297

pharmaceutical research, 8, 9, 229
pharmaceuticals, 88, 236
pharmacogenic orgasm, 21, 22
pharmacologists, 28, 29, 30, 31, 32, 40, 41, 42, 43, 44, 51, 53, 88, 92, 122, 124, 126, 155, 156, 157, 182, 184, 202, 248n13, 250n7. See also neuropharmacologists; psychopharmacologists
academic, 42
behavioral, 6, 47, 52, 163, 178, 179, 180, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 206, 239n4
biochemical, 43
British, 181
cardiovascular, 49
clinical, 43, 44
European, 41
industrial, 37, 42
Japanese, 42
modern, 89, 210
molecular, 212, 260n13
U.S., 32, 40, 42
pharmacology, 21, 31–53, 86, 88, 89, 90, 92, 93, 127, 145, 157, 166, 170, 182, 196, 202, 211, 212. See also Albert Einstein University, Department of Pharmacology; American Society for Pharmacology and Experimental Therapeutics; ethnopharmacology; Johns Hopkins University: Behavioral Pharmacology Research Unit; Journal of Pharmacology and Experimental Therapeutics; National Institute of Mental Health: Psychopharmacology Service Center; neuropsychopharmacology; protopharmacology; psychopharmacology; University of California, San Francisco, Department of Pharmacology; University of Michigan, Department of Pharmacology and Toxicology
animal, 30, 43
behavioral, 6, 49, 51, 171, 178–99, 257n2, 257n3, 258n7
classical, 31, 50, 180, 193
clinical, 44, 168, 180, 193
departments of, 28, 43
molecular, 53, 210
Philadelphia, PA, 188, 189, 216, 217, 228
Philadelphia Naval Hospital, 215
Philadelphia Veterans Administration Medical Center, 215
PHS. See U.S. Public Health Service
physician addicts, 68, 129
PIC. See Practice Improvement Collaborative
Pickens, Roy, 191, 192
placebo-controlled trials, 69, 90, 92, 93, 96, 97, 98, 132, 173, 228
Playboy, 85
pleasure, 22, 186
bodily, 22
centers, 24
doing consumption, 23
genes, 20
negative, 79
orgiastic, 27
and pain, 22, 23, 83–112, 201, 213, 238
positive, 79
principle, 20, 21
Pollin, William, 163, 252n23
Pondville Hospital, 55
Porter Bill, 55
positron-emission tomography (PET) scanning, 201, 202, 207, 209, 211, 212, 217, 218
postaddicts, 8, 58, 68, 71, 79, 80, 81, 91, 97, 100–102, 103, 105, 111, 126, 137–38, 147, 156, 164, 195, 212, 222
Powell, Bill, 137
Practice Improvement Collaborative (PIC), 235
Practice Research Network, 235, 261n3
prisoner participant, 110, 157, 159, 228
prisoner patients, 53, 69, 75, 76, 110, 112, 116, 167, 224
prisoners, 58, 59, 61, 66, 70, 72, 97, 110, 111, 115, 136, 138, 139, 141, 143, 144, 151, 153, 156, 157, 158, 159, 164, 165, 166, 167, 170, 171, 172, 174, 226, 228, 229, 230, 231, 237, 251n15, 253n12, 254n18
abuse, 145
black, 149, 150
experimentation, 146, 150, 151, 154
federal, 54, 64, 136, 145, 153, 154, 228, 251n16, 254n23, 254–55n24
post-addict, 100
rights, 134, 139, 144, 145, 166, 173
prisoners (continued)
volunteer, 160, 164, 257n43
women political, 254n14
prison-hospital, 55, 60, 63, 81, 103, 227
prison industries, 60, 61, 69, 139, 245n11, 256n36
prison research, 7, 59, 134, 135, 139, 140, 145, 146, 147, 149, 150, 153, 155, 167, 172–73, 174, 176, 228–31, 254–55n24, 257n43
Prison Research Subject Advocate (PRSA), 229
prisons, 7, 10, 54, 59, 60, 61, 64, 68, 81, 116, 135, 141, 225, 226, 228, 229, 230, 231, 234, 240n1, 249n3, 254n18, 257n43. See also addicts: prison-hospitals for; American Civil Liberties Union: National Prison Project; Atlanta Penitentiary; Attica; Bureau of Prisons; Connecticut State Prison; Holmesburg Prison; Leavenworth Penitentiary; Mitford, Jessica: Kind and Usual Punishment; Stanford Prison Experiment of 1971; State Prison of Southern Michigan federal, 113–14, 154, 166, 245n9 reform, 143–77, 230 Proprietary Association, 243n22 protopharmacology, 88 Providence, RI, 246n31 PRSA. See Prison Research Subject Advocate psychiatry, 26, 56, 59, 64, 75, 76, 77, 104, 105, 190, 210, 261n3 behavioral, 24 biological, 41 experimental, 24 psychodynamic, 88 psychoactive drugs, 2, 85, 223, 251n14 psychoanalysis, 1, 20–28, 31, 36, 52, 77, 78, 79, 81, 88, 89, 179, 241n12 psychodynamics, 20, 21, 24, 28, 79, 88, 247n2 adaptational, 22, 23 and neurophysiology, 80 psychogenic, 51, 68, 76, 77, 78, 81 psychology, 28, 36, 52, 56, 73, 76, 183, 185 experimental, 26, 41, 50, 179 physiological, 253n7 psychopathological, 16, 19, 20, 28, 36, 64, 68 psychopath, 62, 77, 79, 156 psychopharmacologists, 7, 83, 88 psychopharmacology, 83, 85–90, 184, 185, 188, 247n2 Psychopharmacology Service Center, Early Clinical Drug Evaluation Unit, 247n2 Puerto Rican patients, 6 Puerto Rico, 243n21, 249n26, 250n6 purgatives, 13, 114. See also strychnine
190–91, 241n2, 241n5, 241n6, 242n7–8, 242n15, 242n17, 243n21–22, 243n24, 258n14; “Acute and Chronic Narcotic Drug Poisoning,” 35; A Cinematic Study of Macaca mulatta, 242n9; “Opiate Addiction in the Monkey,” 36; “Studies in the Monkey Designed to Determine the Value of this Animal for Predicting Addiction Liability to the Newer Synthetic Analgesics,” 45

self-medication, 12, 23, 51
Sells, Saul B., 244n2
Senechal, Marjorie, 250n7, 255n20, 255n24
Shannon, James, 133
Shaw, Raymond, The Manchurian Candidate, 247n6
Shubin, Seymour, 172–73
Sigma Xi-Quarterly, 240n7
Skinner, B. F., 178, 179, 180, 181, 182, 183, 184, 185, 193, 197, 198
Small, Lyndon F., 32, 39, 242n15
Smith, Kline, French Laboratories, 58, 184, 257n15
smoking, 258n14
Snyder, Solomon, 210
social engineering, 180
social networks, 6, 9, 39, 74, 162, 180, 198, 249n1
sodium phenobarbital, 66
Solter, Paul, 240n8
Southern Food and Drug Research Incorporated, 145
Southside Chicago, IL, 65
Spragg, S. D. S., 38
Squibb, 58
Stanford Prison Experiment of 1971, 59
Stanford University, 167, 260n13
Starr, Isaac, 46, 107, 132
Staten Island, 251n14
State Prison of Southern Michigan, 149, 159
Stateville Penitentiary, 173
Malaria Project, 173
St. Elizabeth Hospital, Overholser Division of Clinical Research, 137
Stough, Austin R., 145
strychnine, 13, 34
Studies on Drug Dependence in the Monkey (film), 47

Study Group for Review of Policies on Protection of Human Subjects in Biomedical Research, 166
Su, Tsung-Ping, 167, 256n41
Subcommittee on Prison Volunteers in Biomedical Research, 166
substance abuse, 3, 180, 182, 223, 239n1. See also Alcoholism and Substance Abuse Providers Association; Center for Substance Abuse Prevention; Center for Substance Abuse Treatment; drug abuse; National Academy of Sciences: Committee to Identify Strategies to Raise the Profile of Substance Abuse and Alcoholism Research; New York State Office of Alcoholism and Substance Abuse Services
treatment, 203, 205
Substance Abuse and Mental Health Services Administration (SAMHSA), 261n2
substance abuse research, 3, 6, 10, 11, 56, 110, 120, 169, 176, 177, 187, 196, 200, 201–2, 203, 205, 212, 213, 224, 226, 227, 234, 246, 259n2
substance abuse researchers, 2, 4, 49, 213, 233, 247
substance abuse volunteers, 193
substitution technique, 76
suicide, 71, 129
Tatum, Arthur Lawrie, 32–35
tense depression, 22, 79
Terre Haute, IN, 66
Terry, Charles, 18, 19, 20; The Opium Problem, 15, 17–18
Texas. See Fort Worth; Ramsey
Texas Christian University, 244n2
thebaine, 34
Therapeutic Research Foundation, 243n22
Thompson, Travis, 181, 183, 184, 185, 190, 191, 258n8, 258n10; Behavioral Pharmacology, 183
Thorazine, 182, 257n15
Ting-Kai Li, 221
tobacco, 85. See also American Medical Association: Committee on Tobacco and Health; smoking
Todd, D. P., 91
Treadway, Walter L., 54, 59, 60, 171
Tuskegee Study of Untreated Syphilis in the Negro Male, 59, 70, 119, 144, 145, 175, 239–40n7, 251n14
Tyler, Harold R., 154

Uhl, George, 212, 256n41
United Nations, 57, 63, 101
University of California, San Francisco, Department of Pharmacology, 157
University of Chicago, Department of Pharmacology and Physiological Chemistry, 32
University of Illinois, Department of Pharmacology and Physiological Chemistry, 97
University of Kentucky, 62, 140, 172
University of Maryland, 149, 181, 190, 257n43
University of Michigan, 2, 30, 39, 47, 49, 51, 64, 126, 169, 181, 190, 191, 241n5, 258n14
Applied Psychology Laboratory, 191
Department of Materia Medica, 28, 32
Department of Pharmacology, 28, 51, 242n11

University of Minnesota, 181, 191, 194
University of Pennsylvania, 228, 253n7
Center for Studies of Addiction, 218
University of Rochester, 172
Center for the Study of Drug Development, 172
University of Virginia, 32
University of Wisconsin, Madison
Department of Pharmacology, 242n11
Department of Pharmacology and Toxicology, 33

Unna, Klaus, 122, 126
Upjohn Pharmaceuticals, 49, 91, 159
U.S. Army, 63, 134
Chemical Corps, 133, 134, 160
Disciplinary Barracks, 54

Medical Research and Development Board, 248n16
Office of the Surgeon General, 131

U.S. Congress, 55, 62, 76
Committee on Labor and Public Welfare, 145
investigations, 119, 133, 140, 147, 152, 154
Subcommittee on Prison Volunteers in Biomedical Research, 166

U.S. Court of Appeals, 152
U.S. Department of Agriculture, Bureau of Chemistry, 241n4

U.S. Department of Commerce, 121
U.S. Department of Defense, 133
U.S. Department of Energy, Advisory Committee on Human Radiation Experiments, 240n1, 240n3, 246n27

U.S. Department of Health, Education, and Welfare (DHEW), 153, 163, 166, 244n7, 252n23, 253n13, 256n37, 261n2
Biomedical Research Panel, 163

U.S. Department of Health and Human Services, 228

U.S. District Court, 244n4, 255n32

U.S. Food and Drug Administration (FDA), 7, 42, 49, 50, 58, 63, 84, 155, 159, 166, 172, 224, 228, 232, 241n4, 243n20, 254n17, 255n32

U.S. Narcotic Farm, 55

U.S. Public Health Service (PHS), 14, 16, 26, 39, 47, 54, 55, 56, 59, 64, 70, 71, 72, 73, 74, 140, 143–44, 167, 226, 244n7, 246n29, 251n16, 252–53n13
Division of Mental Hygiene, 39, 60, 244n7

U.S. Public Health Service Hospital (Narco), 16, 55, 56, 65, 123, 137, 250n7

U.S. Public Health Service Marine Hospital, 246n30

U.S. Supreme Court, 135

U.S. Treasury Department, 244n7
Bureau of Prohibition, 39

venereal disease, 40, 135, 249n3
Virginia. See Airlie; University of Virginia

Vocci, Frank, 211, 218, 219

Vogel, Victor H., 56

Volkow, Nora, 220–21

Walden, Luke, 249n4; The Narcotics Farm, 245–46n24

War on Drugs, 9, 200
Washington, DC, 16, 66, 137, 140, 167

Washington Post, 154, 158

Wasson, Gordon, 89

Watson, John, 178

Way, Eddie Leong, 157

Webb et al. v. U.S., 14

Weeks, James, 49, 181, 258n10

White, William Charles, 39
White House Special Action Office for Drug Abuse Prevention, 148, 252n23
WHO. See World Health Organization
conditioning theory, 218
Natural and Induced Abstinence in Chronic “Spinal” Man, 109–10
Wikler, Ada, 250n7
Williams, Edwin G., 56
Willowbrook School, 251n14
Wilson, Charles E., 131
Winchell, Walter, 65, 128
Winthrop-Sterling, 58
Wolff, Harold G., 95, 96
Woods, James, 46, 48, 191
Woods, Lauren, 45
World Health Organization (WHO), 57, 84, 101, 243n24
Expert Committee on Drugs Liable to Produce Addiction, 63, 245n15
World War I, 15
World War II, 17, 32, 40, 41, 45, 56, 63, 72, 87, 90, 91, 94, 134, 144, 188, 239n5, 244n13
Wyeth, 58
Wyngaarden, James, 45
Yale Laboratories of Primate Biology, 38
Yale University
Human Investigation Committee, 172
Laboratory of Physiology, 246n32
Yanagita, Tomoji, 49, 181, 258n15
Yerkes, Robert M., 38
Yolles, Stanley, 137