Alcohol abuse, 39, 128
Algorithm, for electronic decision support, 226
Allergies, air quality and, 200
Angels in America: A Gay Almanac of the Dead (Silko), 471–472
American Academy of Nursing, 447
American Academy of Pediatrics, on vision screening, 440–441
American College of Surgeons, 430
American journal of Public Health, 10
American Mechanical Engineering Society, 17
American Public Health Association, 255
American Society of Anesthesiologists, 430
Amin, Ida, 387
Amino acids, in proteins, 172
Angels in America: A Gay Fantasia on National Themes (Kushner), 478
Angus, Jennifer, 288
Animals, health and safety on, 346–347
Annan, Kofi, 413
Antenatal checkups, 238, 240
Anthropocene epoch, 35
Antiretroviral therapy (ART), 413; consistent use of, 75, 414–415; mental disorders associated with adherence to, 130
Antitrypanosomal medicines, 62
Anxiety disorders, 127
Aquaculture, 199–200
ART. See Antiretroviral therapy
Asia Foundation, 359
Asian Development Bank, 352
Aspen Institute, 354
Assignments and grading, in Nepal field course case example, 328
Association for Academic Surgery, 430
Association of American Medical Colleges, on health care workers shortage, 429
Association of Schools & Programs of Public Health, 364–367
Australia: carbon tax in, 206; drought and mental health in, 203
Authentic representation, in La Calera case study, 291
Availability: of ART in Global South, 413–414; of food, 174; of water, 145
Avian flu, 43

B
Bacteria, warm marine waters and, 202
Baidu search engine, in China, 224
Bangladesh, 197; BRAC in, 236; cholera in, 202; diarrheal disease in, 238; MAMA programs in, 222; TB in, 240; tube wells construction in, 242
Barkley, Charles, 405
Bartholomew, Mel, 170
Basic Needs NGO, 133
Basic Operational training level, of CUGH, 273
Batalden, Paul, 57
The Battle against Hunger (Sridhar), 20
BBC News Country Profiles, 16, 18
Beaghole, R., 33
Behavioral medicine, 126
Behavioral risk factors, 46
Beveridge model, 65
Big data, in mHealth, 224–225
Bill and Melinda Gates Foundation, 238, 353
Biofuels, climate change and production of, 199
Bismarck model, 65–66
Body mass index (BMI), 46
Bogotá, Colombia: citizen-focused planning in, 477; TOD in, 478; urban opportunity in, 477
Bonilla, Ines, 291
Bonita, R., 33
Borlaug, Norman, 172
BRAC, 233; Abed as founder of, 234, 236; background of, 236–237; DOTS of, 240–241; learning by doing approach of, 236; MNCH interventions of, 238–240; ORS of, 237–238; OTEP of, 237; performance-based incentives of, 237–238; ShasthyKormis of, 236, 237; ShasthyaShebikas of, 236–237, 238; as world largest NGO, 236
Brazilian National School Feeding Program, 185
Breastfeeding, 73, 131
Brundtland, Gro, 14
Build Your Future Today, in Cambodia, 331
Burden of illness, mental health treatment gap and, 128–131
Bush, George W., 14; PEPFAR of, 352, 413–414
Business skills competencies, 354
Buxton, Daniel, 17

C
Calabazal, Panama water system, 155–157
California State University, Regenerative Agriculture Initiative at, 181
Calories, 172
Cambodia: Build Your Future
Today in, 331; WHO
Building Blocks on NCDs
in, 60
Cameron, Edwin, 107
Canada: Grand Challenges,
133–135; Public Health
Agency of, 46–47; TB care in,
419–420
Cancer Control Program, of
WHO, 435
Cancer pain, 43
Capacity building, of scale-up,
235
Cap-and-trade approach, 206
Carbon dioxide: China
emission of, 200; Xi Jianping
on emissions of, 207
Carbon fee and dividend, on
greenhouse gases, 206
Carbon tax, on greenhouse gas
emissions, 206
Carbon Underground, 181
CARE. See Comprehensive
AIDS Resource Emergency;
Cooperative Assistance and
Relief Everywhere
Careers, 351, 368; domestic
job applicants for, 357;
employers looking for in,
355–357; family and values
impact on, 457–458; global
community connections for,
361; global experience for,
356–357, 359, 457; global
health organizations for,
353; graduate school for,
358; job market trends
research, 361; job search for,
362–363; medical school and,
458; network for, 359–361;
nonclinical skills for,
355–356; personal inquiry
habit development for, 358;
professional responsibilities
in, 459; reflections on, 457;
resume preparation for,
361–362; second language
for, 357, 364; skill building
for, 357–363; skills inventory
for, 364–367; stepping-stones
to, 459–461; types of, 352
Case fatality ratio (CFR), 41–42
Category 1 communicable
diseases, 42; GBD Study on,
43, 45; maternal, neonatal,
and nutritional, 43–44
Category 2 NCDs, 44
Catholic Relief Services, career
in, 358
CBPR. See Community-based
participatory research
CDC. See Centers for Disease
Control and Prevention
Center for Naval Analysis
Military Advisory Board, 204
Center for Strategic and
International Studies, 354
Centers for Disease Control
and Prevention (CDC), 32;
Google Flu Trends and, 225;
HIV/AIDS named by, 414;
laboratory of, 424; Travel
Health Notices of, 345
CESCR. See Committee on
Economic, Social and
Cultural Rights
CFR. See Case fatality ratio
CFS. See Committee on World
Food Security
Chagas disease, in Mexico, 62
Charon, Rita, 470–471
Checkup, 238
Child and maternal health:
MDGs on, 75, 92, 406; SDGs
on, 92
Child development, mental
health and, 128
Child marriage, in
LungaLunga, 395
Child mortality: Ethiopia
decrease in, 482; GBD on,
92–93; MDG reduction goal
for, 75, 406
Child trafficking, of orphans,
389
Childhood blindness, 439, 443;
economic impact of, 440;
geographic reasons for, 440;
in LMICs, 440; NGOs on,
442; vision screening and,
440–441; WHO on, 440, 441
Children: Ethiopia health
improvement for, 482;
malnutrition of, 28; orphans,
378–391
China, 207; Baidu search
engine in, 224; carbon
dioxide emission in, 200;
high poverty levels in, 9;
IMRs in, 30
Chisholm, Brock, 126
Cholera, 114, 151, 202, 447
Cholesterol levels, 46
Chowdury, M. R., 241
Chronic disease classification,
of HIV/AIDS, 108
CHWs. See Community health
workers
CLA World Factbook, 16
Ciguatera infectious disease,
201
Circumcision, 428; voluntary
adult male for HIV/AIDS,
415
Citizen-focused planning, in
Bogotá, Colombia, 477–478
Citizens Climate Lobby, 206
Citizenship building, 465
Civil war, in Uganda, 387–388
Clark, Sarah, 176
Clean Air Act, 206
Client education and behavior
change, mHealth for,
222–223
Climate, weather compared to,
194
Climate change, 4, 32, 494;
adaptation response to,
205; air quality and, 200;
biofuels production from,
Commercial farm, 168
Commission on Narcotic Drugs (CND), UN, 434–435
Commission on Planetary Health, Lancet, 36
Commission on Prosperity, Lancet, 36
Committee on Economic, Social and Cultural Rights (CESCR), of ICESCR, 110–111
Committee on World Food Security (CFS), of FAO, 177
Communicable diseases:
Category I, 42–45; GBD on, 94–97; shift to NCDs, 95–97;
in sub-Saharan Africa, 94–95; urban density and, 476
Communities, 281–298; career connections with, 361;
coplanning with, 169; field course engagement with, 321–322, 329; gender and
well-being of, 393–403; global health recommendations
for, 391; health and safety in, 346; HIV/AIDS treatment
and LGBTQ, 415; orphans support from, 390–391
Community health workers (CHWs), 136
Community mapping, 295
Community of practice, for
global health experience, 250–251
Community surveys, 294
Community-based health
insurance, of Rwanda
Mutuelles, 68
Community-based participatory
research (CBPR), 281, 282;
accompaniment and witness
value in, 285; action focus
in, 284; follow community
lead in, 284; historically marginalized populations
respect in, 285; key
principles of, 283–286; La
Calera, Ecuador case study,
286–293; local knowledge
value in, 284; mixed-methods
approach for, 293–297;
multidirectional learning in,
283–284; mutual benefits in,
286–287; service-learning
and, 283
“Community-Based
Supplementary Feeding
for Promoting the Growth
of Children under Five
Years of Age in Low and
Middle Income Countries”
(Cochrane), 10
Comorbidities, 129, 131
Competencies, 271; additional,
275–277; background
on, 272; business skills as,
354; CUGH on, 272–274,
353–354; discipline-specific,
272; field course training
on cultural, 317–318, 329;
Guatemala case study
for, 278–279; health/
technical expertise as,
353–354; individualized, 272;
interpersonal effectiveness
as, 354–355; knowledge
management as, 354; levels
of experience and training,
273–274; scope of practice,
273; student organizations
and leadership, 337; timing
of experience, 274–275; of
UW-Madison, 276–277
Competition courses, as global
health experience type, 254
Comprehensive AIDS Resource
Emergency (CARE) Act, 416
Conference on Sustainable
Development, UN 2012 Rio,
172
Conferences, as global health
experience type, 255
Connected health, 220
Consortium of Universities for Global Health (CUGH), 255, 490–491; Advanced Lead training level, 273; Basic Operational training level, 273; on competencies, 272–274, 353–354; Exploratory training level, 273; Global Citizen training level, 273–274, 276; on timing of experience, 274–275; Untold Global Health Stories contest and, 373
Constitutional Court of Colombia, on tobacco control litigation, 117
Consumer engagement, telemedicine for, 219
Continuous quality improvement (CQI), 455
Contraception, 39
Contributions, to nursing, 445–446
Convenience sample, 294
Convention on the Rights of Persons with Disabilities (CRPD), of UN, 117–118, 133, 135–136
Cooperative Assistance and Relief Everywhere (CARE), 353, 378
Coplanning, with communities, 169
Costs: of La Calera case study program, 292; per DALYs, 428; surgery misconceptions on, 428
Counterfeit medications, WHO on, 452
Countries at a Glance, of World Bank, 16
Country profile development, for global health experience, 259–268
Country Reports, WHO, 16
Coverage, scale-up increase in, 234
CQI. See Continuous quality improvement
Crave, Mary, 182–183
Creative arts, 21–24
Crisp, Nigel, 19
CRPD. See Convention on the Rights of Persons with Disabilities
CSOs. See Combined sewer overflows
Cuba, agricultural trade in, 176–177
CUGH. See Consortium of Universities for Global Health
Cultural competency, field course training in, 317–318, 329
Cultural context understanding, in Peace Corps, 383–384
Cultural preservation, in La Calera case study, 291
Cultural visits, in Nepal field course, 327
Culture: cultural competency and, 317; prestige and power in, 317–381; women as carriers of, 396
Culture of peace, UN on, 402
Cutting for Stone (Verghese), 22–23
Cyclosporiasis giardiasis, 201

D
Dalwai, Mohammed, 226–227
DALYs. See Disability-adjusted life years
Data collection and reporting, 224–225
Data set, 89, 224
Death: from Category 1 communicable diseases, 43; GBD on causes of, 95–96; heat-related, in U.S., Russia and Europe, 196; from injury, NCDs, 44; from malnutrition, mental health and, 131; water, sanitation, hygiene interventions prevention of, 28, 99; from water-borne diseases, 147
Decision making, in immunization program, 406–408
Decision support tools, 226
Declaration of Alma-Ata, of 1978, 12, 71, 80–81; on primary health care, 72–73; on UHC, 112
Declaration on a Culture of Peace and Programme of Action, UN, 393
Deep listening, 306; in Hope for Youth example, 311; tips for, 307–308
Defoe, Daniel, 470
Democratic Republic of Congo (DRC), 158
Demographic transition, 45
Department of Defense, US, on climate change and conflict, 204
Depression, 127; disability and, 128; perinatal, 133; service delivery for, 136; suicide and, 128
Destination questions, 344
Development innovation funds, of Grand Challenges Canada, 134
Development-related problems, disability and, 128
Deworming, 171, 466
Diabetes, 59–60, 454
Diarrheal disease: in Bangladesh, 238; ORS and, 237; sanitation and, 144
Dietary risk factors, 45
Digital health. See Mobile-digital health
Direct patient care, telemedicine for, 219
Directly Observed Treatment Short Course (DOTS): Global Fund for AIDS, TB, and Malaria for, 241; ShasthyaShebika of, 240–241
Disability: CRPD on, 117–118, 133, 135–136; depression and, 128; development-related problems and, 128; mental disorders measured by, 127, 138; risk factors for, 103; YLDs and, 89, 90–91, 97, 128
Disability-adjusted life years (DALYs): cost per, 428; GBD on, 84, 85, 86, 91, 94, 98; mental disorders and, 128; on Mexico interpersonal violence, 86; on neonatal disorders, 94; per 100,000 in 2015, 101; risk factors by attributable, 100; on women in low SDI countries, 85
Discernment: action and, 306; Self, Other and Life in, 302; in transformative leadership, 301, 302
Discipline, global health, 32–33
Discipline-specific competencies, 272
Disconnected household-level sanitation facilities, 157
Discrimination: for mental health, 108; social marginalization and, 115; of transgender individuals, 108
Disease, 113–114; CFR of, 41–42; food production and plant, 199; GBD Study on classifications of, 42; germ theory of, 151; incidence and prevalence of, 41; prevention, 28, 99; risk factors for, 45. See also Centers for Disease Control and Prevention; Communicable diseases; Infectious disease; specific diseases
Disease burden: double, 45; surgery misconceptions on, 427–428. See also Global Burden of Disease
Diversification, of scale-up, 235
Do They Hear You When You Cry (Kassindja), 19
Doctors without Borders (MédecinsSansFrontières), 133, 227, 353, 371
Documentary films, 19–21
Domestic job applicants, for careers, 357
Domestic violence, 128
DOTS. See Directly Observed Treatment Short Course
Double burden of disease, 45
Doyle, Arthur Conan, 83
DRC. See Democratic Republic of Congo
Drug use disorders, 39
Drugs for Neglected Disease Initiative, 136
Duarte, Daisy, 381–384
Dung beetle, 171

E
E4C. See Engineering for Change
Earth Summit, 1993, 14
Economic dependency, in La Calera case study, 292
Economic impact: of childhood blindness, 440; of mental disorders, 128–129
Economic inequality, 72
Education programs, 28, 222–223, 228, 463; constraints for, 465; by global health nursing, 448; in LungaLunga, 394; MDGs on, 463; reading and resources for, 467; schools’ role for, 463–464; SDGs and, 463–464. See also Learning
EHR. See Electronic health records
e-IMCI. See Electronic-Integrated Management of Childhood Illness
Einstein, Albert, 387
Einthoven, Willem, 218
El Salvador, 335
Electrocardiograph, 218
Electronic decision support: e-IMCI as, 226; information, protocols, algorithms, checklists for, 226; WHO protocols for, 226
Electronic health records (EHR), for mHealth, 226
Electronic-Integrated Management of Childhood Illness (e-IMCI), 226
Eliot, T. S., 315
EMGuidance. See Essential Medicine Guidance
Endangerment finding, 206
Energy, U.S. per capita use of, 32
E-newsletter, 373
Engineering for Change (E4C) Solutions Library, 17
Engineers without Borders USA (EWB-USA), 17, 335–337
Enough: Why the World’s Poorest Starve in an Age of Plenty (Thurow and Kilman), 20
Enriching the Earth (Smil), 171
“Exporting Obesity” (Clark), 176
Extensive agriculture, 169
Extracurricular and school-sponsored clubs, for global health career network, 361

F
Fair Trade Learning, on partnerships, 337
Family, career impacted by, 457–458
FAO. See Food and Agriculture Organization
Farmer, Paul, 13, 19
Farmworker, 181, 196
Faso, Burkina, 14–15
FCGH. See Framework Convention on Global Health
FCTC. See Framework Convention on Tobacco Control
Federally qualified health centers (FQHCs), 453
Federation of State Medical Board, 275
Female education, family planning, and food supplementation (FFF) goals, 73
Female genital mutilation (FGM), 395
Fentanyl, 436
FFF. See Female education, family planning, and food supplementation
FGM. See Female genital mutilation
Field course: community and respectful engagement for, 321–322, 329; course leadership in, 316–317, 329; cultural competency pre-departure training in, 317–318, 329; as global health experience type, 251–252; knowledge from, 372; learning before doing for, 319–320, 329; listening and reflecting for, 320–321; Nepal case example of, 310, 322–328; photographs and videos in, 318–319; place-based knowledge and preparation for, 317, 329; at UW-Madison, 293
Field to Market (FTM), 184
Fieldwork, 288, 296
Films, on global health, 20–21
Finance and health care coverage, HiTT on, 63–64
Financial transactions and incentives, in mHealth, 228
Financing, in FCGH, 114
A Fine Balance (Mistry), 472
FIP. See International Pharmaceutical Federation
Firsthand experience, knowledge from, 372
Fisheries, 199–200
Flagship Framework, 60–62
Flood water, 162; infectious disease and, 201; as natural disaster, 198; from sea levels rising, 197
Foeg, William H., 19
Food, 169; health and safety for, 347; SI or J units of energy of, 172; system, 167
Food, agriculture and nutrition, 167–168; agricultural technology and public health on, 180–183; agriculture spectrum in, 169–173; Brazilian National School Feeding program on, 185; food security and, 169–170, 173–178, 198–199; 4R and FTM programs in, 184; GFI and, 185; global food system and local solutions for, 168–169; One Acre Fund
and, 178, 184–185; successful programs for, 184–185; VAD and, 188; waste and wealth for, 178–179; WFP and, 174, 185
Food and Agriculture
Organization (FAO), 16; CFS of, 177; on food production, 168; on food waste, 178; on GMOs, 180–181; on undernourishment, 175
Food First (Lappe and Collins), 175
Food production: climate change and, 198–199; climate-related food price shocks and, 199; FAO on, 168; plant disease and, 199
Food security, 170, 177; access and, 174; adaptations and interventions for, 169; availability and, 174; climate change negative impact on, 198–199; fisheries, aquaculture and, 199–200; malnutrition, poverty and, 174; as SDG goal, 173; utilization in, 174–175
Food stability, 178; Cuba agricultural trade and, 176–177; Mexico and obesity, 176; in Turkey, 175–176; WRI on, 175; yield gaps and, 175
Food waste: through agricultural value chain, 179; FAO on, 178; National Resource Defense Council on U.S., 178; One Acre Fund work on, 178; overnutrition and, 179
Food-borne illness, 174, 202
Forced migration: Nyarugusu refugee camp and, 158–161; UN High Commissioner for Refugees on, 158
Foreign Agricultural Service, of USDA, 176
Forum on Education Abroad, 338
4H program, international, 182–183
4R Nutrient Stewardship, 184
Fox, Madeline, 20
FQHCs. See Federally qualified health centers
Framework Convention on Global Health (FCGH), 111; governance focus of, 113–115; on health sectors lack of coherence, 115; SDGs, MDGs and, 112; on social determinants of health, 113; on UHC, 112–113
Framework Convention on Tobacco Control (FCTC), 116–117
Freedom From Want: The Remarkable Success Story of BRAC, the Global Grassroots Organization That’s Winning the Fight against Poverty (Smillie), 19
Freire, Paulo, 3, 281
frog Design, on mHealth, 220
From One to Many: Scaling Up Health Programs in Low Income Countries (Cash, Chowdury, Smith, and Ahmed), 241
Frost, Laura J., 19
FTM. See Field to Market Fuentes, Magdalena, 288–289, 291
Funding: for global health experience, 258–259; global health initiatives on HIV and, 413; for NCD and surgery, 427
G
Gardens for Health International (GFI), 185
Al-Gasser, Naema, 446
GAVI. See Global Alliance for Vaccine Initiatives
GBD. See Global Burden of Disease
GBD Compare website, of IHME, 88
GBD Results Tool, 88
GE. See Genetically engineered
Gender: approach, in La Calera case study, 292; community well-being and, 393–403; disparities, in water and sanitation, 154; equality and equity, 396; HIV/AIDS interrelations with, 464–465; responsive, 465
Genetically engineered (GE): agricultural technology and, 180–181; Gold Rice as, 188
Genetically modified organisms (GMOs), 180–181
Geolocating, 227
Germ theory of disease, 151
GFI. See Gardens for Health International
GHFP. See Global Health Fellows Program
GHSA. See Global Health Security Agenda
GIEESC. See Global Initiative for Essential and Emergency Surgical Care
Global Action Plan for the Prevention and Control of Noncommunicable Diseases, of WHO, 117
Global Alliance for Vaccine Initiatives (GAVI), 410
Global Burden of Disease (GBD) Study, 8, 16, 31–32, 83, 104; on Category 1 diseases, 43, 45; on communicable and NTD, 94–95; on communicable to NCD shift, 95–97; on DALYs, 84, 85, 86, 91, 94, 98; data sources for, 88–89; on death causes, 95–96; on disease classifications, 42; for future
Global Citizen training level, of CUGH, 273–274, 276
Global epidemics, 31
Global Fund for AIDS, TB, and Malaria, 241
Global Fund for Women, 359
Global health, 34; characteristics of, 372–373; communities recommendations on, 391; competencies for, 271–279; discipline for, 32–33; implementation science in, 138; inequities in, 108; mental health care integration with, 130–131; scale up in, 233–244; transgender discrimination and, 108
Global Health Bureau, of USAID, 353
Global Health Competency model, 364–367
Global Health Corps, 358, 359, 424
Global health experiences, 249; application and funding for, 257–259; for careers, 356–357, 359, 458–459; community of practice for, 250–251; conferences type of, 255; country profile development for, 259–268; experiential long distance learning type of, 253–254; field course type of, 251–252; funding for, 258–259; in Guatemala, 378–379; health and safety for, 343–349; in Honduras, 375–377; of Hope for Youth NGO, 310, 326–327; internship type of, 252–253; learning focus of, 250; mentor cultivation for, 251; in Nicaragua, 377–378; postgraduate fellowship or service type of, 256; query or letter of introduction for, 257–258; social impact venture or competition courses type of, 254; study abroad type of, 253; types of, 251–257; volunteer experiences type of, 256–257, 332–333, 359
Global Health Fellows Program (GHFP), 491
Global health initiatives of Clinton Global Initiative, 134; on HIV and funding, 413; of Human Resources for Health program, 134; on mental health, 134
Global Health Institute, of UW, 227, 276
Global Health NOW, 373
Global Health Security Agenda (GHSA), 491
Global health status measurements, 39, 45–46; CFR, 41–42; for communicable diseases, 42, 43; IMR, 30, 40; for injury, 42, 43, 44; MMR, 40; on morbidity, 41; on mortality rates, 40; NCD, 42, 43, 44; on prevalence and incidence, 41
Global health transitions, 45
Global Initiative for Essential and Emergency Surgical Care (GIEESC), 430
Global Medical Relief Program (GMRP), 333
Global mHealth Initiative, at John Hopkins University, 220
Global North: Global South health systems influenced by, 332; student volunteers from, 333
Global South, 29; ART unavailability to, 413–414; EWB-USA and, 336; health systems of, 332; partnership with, 334; power perceptions and, 334
Global Strategy to Reduce the Harmful Use of Alcohol, of WHO, 117
Global surgery education, ethics and professionalism in, 429–430
Global warming, 195
Globalization, 446
GlobeMed, 333–334
Glyphosate-based herbicides, 181
GMOs. See Genetically modified organisms
GMRP. See Global Medical Relief Program
GOBL. See Growth monitoring, oral rehydration therapy, breast-feeding, and immunization
Golden Rice, as GE rice, 188
Google Flu Trends, 225
Gore, Al, 193
Governance, 126, 493; CRPD example of, 117–118; emerging infectious diseases example of, 118–119; of FCGH, 113–115; FCTC example of, 116–117; mental health and, 131–136
Governments: health care responsibility of, 72; national, for mental health, 132; society action and, by universities, 493–495
Grand Challenges Canada, 133–135
Gray literature: documentary films as, 19–21; identification and evaluation of, 17; instructional materials as, 17; newspapers, magazines, books and films as, 18–19; nonfiction books as, 19–20; place-based information as, 15–16
Green Revolution, 171–172
Greenhouse gases: cap-and-trade approach to, 206; carbon fee and dividend on, 206; carbon tax on emissions of, 206; climate change impacted by, 194–195; IPCC on, 186, 195; Obama on, 207; red and processed meat consumption and, 205
Gretzky, Wayne, 405
Group interviews, 294
Growth monitoring, oral rehydration therapy, breastfeeding, and immunization (GOBI) goals, 73
Guatemala: competencies case study on, 278–279; global health experience in, 378–379
Guayasamín, Oswaldo, 23–24
Guayasamín Foundation, 23–24
Guidelines on Mental Health and Psychosocial Support in Emergency Settings, of IASC, 132–133
Guinea, Ebola outbreak in, 371–372, 425
Guinea worm, 149

H

Haiti, cholera outbreak in, 114, 447
Hamlet’s Blackberry (Powers), 372
Hammarskjöld, Dag, 445
Handwashing, sanitation and, 347
Hantavirus, 202
Hard infrastructure, 476
Handwashing, sanitation and, 347
Health, 27; disparity in, 30; equity in, 332; GBD on future policy for, 102–103; GBD Study on unequal distribution of, 100–101; high-income settings differences in status of, 30; as human right, 72; as SDG integral part, 79–80; statistics on, 7–8; statistics on challenges of, 38–39; USAID on interventions for, 233
Health and safety, for global health experiences, 343, 349; destination questions for, 344; on food and water, 347; health insurance for, 346; mental health and, 348; on mosquitoes and animals, 346–347; on nightlife, 348; passport and visa for, 344–345; on sanitation, 347; in society and community, 346; on transportation, 347–348; travel medicine and, 345; travel warnings for, 345
Health by All Means model, in LungaLunga, 401–402
Health by Motorbike program, 447
Health care, 482; government responsibility for, 72; HiTT on finance and coverage of, 63–64; Luna Lunga programs of, 399; primary, 72–73; services, 28–29. See also Universal health care
Health care workers, shortage of, 429
Health cobenefits, climate change and, 204–205
Health in All Policies (HiAP), 76, 113
Health in Transition Template (HiTT), 62–64
Health insurance, 346
Health sector, 28–29, 115
Health systems: of Flagship Framework, 60–62; of Global South, 332; of HiTT, 62–64; of WHO Building Blocks, 58–60
Health Volunteers Overseas (HVO), 448
HealthMap website, 345–346
Healthnet TPO, 133
Health/technical expertise competency, 353–354
Healthy lives goals, of SDG, 78–79
Healthy People 2020, U.S., 406
Heat island effect, 196
Heat-related deaths, in U.S., Russia and Europe, 196
HEP program, in Ethiopia, 485
Hepatitis, 94
Herd immunity, 406
Heritage walk, in Nepal field course, 327
Heroin, 436
Hettler, Eric, 158–161, 335–337
HiAP. See Health in All Policies HICs. See High-income countries
High blood pressure, 45, 99
Index

I

IASC. See Interagency Standing Committee

ICESCR. See International Covenant on Economic, Social and Cultural Rights

ICT. See Information communication technology

IHME. See Institute for Health Metrics and Evaluation

IHR. See International Health Regulations

Illegitimate supply chains, for medications, 452

Illness as Metaphor (Sontag), 470

Immunization programs, 405; advocacy for, 410; decision making in, 406–408; herd immunity and, 406; misinformation on, 407; Public Service Act on, 408–409; vaccine access in, 408–409; vaccine development, 409–410; vaccine hesitancy in, 406–408

Implementation science, in global health, 138

Improved sanitation facility, 146, 152

Improved water source, 147, 152

IMRs. See Infant mortality rates

India, 372; heavy rainfall and children gastrointestinal illness in, 201; high poverty levels in, 9; MAMA programs in, 222; Narcotics Control Bureau of, 435–436; Sangath NGO in, 133; TB in, 420

Individualized competencies, 272

Indonesia, high poverty levels in, 9

Industrial farming style, 169, 170

Infant mortality, 4, 8, 39

Infant mortality rates (IMRs), 39, 40; Thailand drop in, 67; in U.S. and China, 30; WHO on, 30

Infectious disease: bacteria, warm marine waters and, 202; ciguatera, 201; from climate change, 200–203; cryptosporidiosis and giardiasis, 201; food-borne, 202; funding priority for, 427; harmful algal blooms and, 201; mosquitoes and, 203; rodents transmission of, 202; shellfish poisoning and, 202; from ticks and Lyme disease, 202; vaccines

High Commissioner for Refugees, UN, 158

High-income countries (HICs), 491; health status differences among, 30; HiTT for, 62–64

High-Level Panel of Eminent Persons, of SDGs, 77

Hinari Access to Research for Health program, of WHO, 9

HINI. See Influenza A

Historically marginalized populations respect in CBPR, 285

HiTT. See Health in Transition Template

HIV/AIDS, 30, 39, 49, 339–340, 472; ACT UP and TASO on, 303, 389, 414, 416; background on, 414; chronic disease classification, 108; gender, education, health and well-being interrelations with, 464–465; MDG goal on, 75, 81, 94; mother to child transmission of, 130; organizations for, 414; orphans experience with, 387–391; PEPFAR and, 352, 415–414; primary source documents on, 14; REDES and, 382–384; service delivery for, 136; strategies for ending, 414–415; sub-Saharan Africa cases of, 414; Uganda epidemic of, 388; working globally and locally with, 415–417

HIV/AIDS treatment: advocacy groups for, 416; ART for, 75, 130, 413–415; challenges for, 416; LGBTQ community on, 415; nevirapine for, 14; PrEP for prevention of, 415; prevention innovations for, 416; voluntary adult male circumcision campaign for, 415

Holocene epoch, 35

Honduras, global health experience in, 375–377

Hope for Youth NGO, in Limbe, 309; listening and connection activity of, 311; reflecting on experience in, 310, 326–327; vision and values activity of, 310–311

Horizontal scale-up, 234, 243

House on Fire: The Fight to Eradicate Smallpox (Foege), 19

Human resource management, for mHealth, 228

Human Resources for Health program, 134

Human rights, health as, 72

Hurricane Katrina, 208

Hutchins, Frank, 286

HVO. See Health Volunteers Overseas

Hygiene: interventions, disease and death prevention from, 28; sanitation and, 145, 146
for, 405–406; vector-borne
diseases and, 202; water-
borne diseases and, 200–201.
See also Emerging infectious
diseases
Influenza A (HINI) virus,
118–119
Informant interviews, 293–294
Information communication
technology (ICT), 217;
considerations for, 228–229;
digital health or connected
health as, 220; mHealth
and Framework for, 220,
221; mHealth as, 220–228;
telemedicine in, 218–219
Information sources: gray
literature as, 15–17; health
statistics as, 7–8; newspapers,
magazines, books and films
as, 18–21; peer-reviewed
literature as, 8–11; primary
source documents as, 11–15
Infrastructure: adaptation
and improvements to,
205; shared, for urban
opportunity, 476;
strengthening of, 494
Injury: leading death causes
from, 44; risk factors for, 45
Institute for Global Healthcare
Leadership, 448
Institute for Health Metrics
and Evaluation (IHME),
85–86, 88
Institute of International
Education, 228
Institutions, orphans support
by, 390
Instructional material, 17
Integrated Management of
Neonatal and Childhood
Illness, WHO, 441
Intensive agricultural practices,
169
Interagency Standing
Committee (IASC), on
mental health, 132–133
Inter-American Development
Bank, 352
Intercept survey, 294
Intergovernmental Panel on
Climate Change (IPCC), 186,
195
International AIDS Conference
in South Africa, 107
International Association for
the Prevention of Blindness,
VISION 2020 global
initiative, 441–442
International College of
Surgeons, 430
International Council of
Nurses, 446, 448
International Covenant on
Economic, Social and
Cultural Rights (ICESCR),
109–111
International exchange, in La
Calera case study, 290
International Health
Regulations (IHR): on
emerging infectious diseases,
119; treaty on disease spread,
113–114
International Health Section,
255
International Medical Corps,
133
International Narcotic Control
Board, 435
International Pain Policy
Fellowship, at UWCCC, 436
International Pharmaceutical
Federation (FIP), 452
International Surgical
Congress, of 1980, 427
International Surgical Society,
430
International System of Units
(SI), of food energy, 172
Internship, as global health
experience type, 252–253
Interoperable data, 224
Interpersonal effectiveness
competencies, 354–355
Interpersonal violence, Mexico
DALYs from, 86
Interprofessional collaboration,
275
Intimate-partner violence, 39
IntraHealth International, 359
IPCC. See Intergovernmental
Panel on Climate Change
Irani, Kayhan, 20

J

J. See Joules
Jacobs, Jane, 475
Jacobson, Laura, 229
Jefferson, Thomas, 12–13
Jenner, Edward, 12–13
JMP. See Joint Monitoring
Programme
Job market trends, 361
Job search resources, 362–363
John Hopkins University,
Global mHealth Initiative
of, 220
Joint Monitoring Programme
(JMP) for Water Supply and
Sanitation, 152
Joint United Nations
Programme on HIV and
AIDS, 414
Joules (J) units, of food energy,
172
Journal of the Plague Year
(Defoe), 470

K

Kallenborn, Carolyn, 288
Kassindja, Fauziya, 19
Kenya, LungaLunga gender
example in, 394–403
Khan, Yaseen, 226–227
Kilman, Scott, 20
King, Martin Luther, Jr., 125,
451
Kitchen scale home gardening, 170
Knowledge: of Ebola outbreak, 371–372, 425; from field course, 372; from firsthand experience, 372; in global health, 371–374; Global Health NOW for, 373; from media, 372; place-based, 317, 329; telemedicine for exchange of, 219; transfer, in scale-up, 235
Knowledge management competencies, 354
Koon, Adam, 19
Koplan, J. P., 33
Kraus, C., 287
Krutch, Joseph Wood, 217
Kumagai, Arno, 271
Kushner, Tony, 472
Kyoto Protocol, 206–207

L
La Calera, Ecuador case study: authentic representation challenge in, 291; background on, 286–287; challenges and missed opportunities in, 291; cultural preservation challenge in, 291; economic dependency in, 292; failure and success in, 293; gender approach in, 292; international exchange in, 290; microenterprise project of, 288–289; microfinance in, 290; new project idea in, 287–288; partner relationships in, 290; program cost of, 292; psychosocial benefits in, 290; successful small business development in, 289–290
The Lancet, 10, 339;
Commission on Planetary Health of, 36; Commission on Prosperity of, 36; on GBD 2015 methods descriptions, 88; GBD articles in, 87; global mental health series in, 134
Lappé, Frances Moore, 175
Latin America, tobacco control litigation in, 117
Leadership, 448; competencies, of student organizations, 337; in field course, 316–317, 329; historical and cultural context of, 302–303; relationship centrality for, 303–304; transformative engagement and, 299–313
Learning: active listening in, 6–7; discussion and debate skills in, 7; before doing, in field course, 319–320, 329; experiences sharing preparation for, 6; global health experience focus on, 250; multidirectional, 31, 283–284; perspective taking in, 5; questions for, 5–6
Learning by doing approach, of BRAC, 236
Letter of introduction, for global health experience, 257–258
Liberia, Ebola outbreak in, 425
Life expectancy: GBD on, 89, 92; increase in, 8; in LangaLunga, 395; MDG and low-income country gains in, 108; Thailand increase of, 67; of transgender women of color, 108; U.S. ranking on, 30
Life span, 44, 491–492
Limbe, Hope for Youth in, 309–311, 326–327
Listening: active, 6–7; deep, 306–308, 311; reflecting and, in field course, 320–321
Literacy, medications impacted by, 452
Literature and Arts, 21–24
LMICs. See Low- and middle-income countries
Local knowledge value, in CBPR, 284
Long, Sedtha, 331
Lopez, Alan, 87
Lorde, Audre, 299, 300
Low- and middle-income countries (LMICs): childhood blindness in, 439–440; effective vision screening in, 440–441; health care workers shortage in, 429; MDR-TB in, 420; mobile phone-based services for, 220; NCDs in, 491; nonspecialist providers for mental health treatment in, 129; registries of, 224; severe mental disorders treatment in, 128; telemedicine and, 219; tobacco use in, 116; world population percentage in, 128
Lower-income countries: global health challenges and opportunities of, 30–31; life expectancy gains, 108; peer-reviewed literature and, 9; universal health care and, 67–68; WHO Building Blocks on diabetes in, 59–60
LangaLunga gender example, 403; background on, 394; child marriage in, 395; education lacking in, 394; ethnic groups in, 394; features of, 398–401; FGM in, 395; gender and feminist analysis of, 396; Health by All Means model for, 401–402; health care programs in, 399; health-related issues in, 394–395; life expectancy
INDEX

in, 395; plan for, 397–398; poverty in, 394; public health and health promotion programs in, 399; resources lack in, 395; women as agents in, 395–397
Lyme disease, 202
Lypson, Monica, 271

M
Maathai, Wangari, 143
Macroeconomics, 64
Macronutrients, 172
Mahler, Halfdan, 427
Mairs, Nancy, 472
Malaria, MDG goal on, 75, 81, 94
Maldives, 197
Malnutrition: breastfeeding and, 131; of children, 28; deaths from, mental health and, 131; food security and, 174; in Rwanda, 185
MAMA. See Mobile Alliance for Maternal Action
Mandela, Nelson, 13, 351, 439, 463, 489
Manoshi program, of MNCH, 238–239
Massachusetts General Hospital telemedicine, 219
Massachusetts v. EPA, 206
Maternal, neonatal, and child health (MNCH), of BRAC, 238–240
Maternal, neonatal, and nutritional disease, 43–44
Maternal education, maternal mortality correlation with, 28
Maternal health, MDG improvement goal for, 75, 92, 406
Maternal mortality, 4; in childbirth, mental health and, 130; GBD on, 92–93; maternal education correlation with, 28; MDG and decrease in, 108, 406; *Seguro Popular* drop in, 68
MDGs. See Millennium Development Goals
MDR-TB. See Multi-drug-resistant tuberculosis
Mead, Margaret, 381
Meadows, Donella, 170
Meaningful connection, 306–308
Médecins Sans Frontières (MSF). See Doctors without Borders
Media: on global mental health, 134; knowledge from, 372
Medical care standards, in U.S., 275
Medical school, career, 458
Medicalization, 29
Medications: illegitimate supply chains for, 452; literacy impact on, 452; WHO on counterfeit, 452
Memorandum of Understanding (MOU), 336, 337
Menchú, Rigoberta, 13
Mendenhall, Emily, 19
Meningitis Vaccine Project, 409
Mental disorders: anxiety, 127; ART adherence association with, 130; DALYs and YLDs for, 128; depression, 127, 128, 133, 136; economic burden of, 128–129; from epilepsy, 127; NCDs comorbidity with, 129; psychosis and, 127; schizophrenia, 136; stigma for, 127; TB comorbidity with, 131
Mental health, global, 39, 118; academic institutions, experts on, 134; adolescent, 128; advocacy organizations and platforms for, 133; child development and, 128; Chisholm on, 126; climate change and, 203; discrimination in, 108; global health initiatives for, 134; governance, policies and financing for, 131–136; *The Lancet* and *PLoS Medicine* series on, 134; maternal mortality in childbirth and, 130; media for, 134; medicalization impact on, 29; mortality and, 127; multilateral donors for, 135; national governments for, 132; NCD advocates for, 135; NGOs for, 133; pharmaceutical industry for, 134–135; positive impacts of global health priorities and, 130–131; private philanthropy for, 135; program design and service for, 136–137; safety in global health experience and, 348; stigma for, 127; transnational corporations for, 134–135; treatment gaps for, 128–131; UN, WHO and UN agencies for, 132–133; WHO definition of, 126; worker wellness and, 137–138
Mental Health Action Plan, of WHO, 118
Mental Health and Psychosocial Support (MHPSS) Network, 133
Mentors, for global health experience, 251, 335–336
Metabolic risk factors, 46
Mexico: chagas disease in, 62; interpersonal violence DALYs in, 86; obesity and, 176; *Seguro Popular* universal health care program in, 68
mHealth. See Mobile-digital health
mhGAP intervention guide, of WHO, 133, 135
mhGAP-IG intervention program, of WHO, 133
MHPSS. See Mental Health and Psychosocial Support
Microenterprise, 289–290
Microfinance, 290
Micronutrients, 173
Microorganism, 151
Millennials, 332, 360
Millennium Declaration, of UN, 74
Millennium Development Goals (MDGs), 16, 73;
on child and maternal health, 75, 92, 406; child
mortality reduction goal of, 75, 406; controversy on,
159; on education, 463; on environmental sustainability,
151–152; Ethiopia and, 482; FCGH and, 112; of HIV/
AIDS, malaria, other disease combatting goal, 75, 81,
94; JMP baseline and, 152; life expectancy decrease
and, 108; maternal health improvement goal of, 75,
406; maternal mortality decrease and, 108, 406;
sanitation target of, 152; success of, 75–76; for water,
sanitation, hygiene, and health, 151–153
Miller, J. Hillis, 470
Mind-set, 35, 284, 318, 322, 435, 466
Ministry of Environmental Health (MINSA), 156
Mistry, Rohinton, 472
Mitigation, as climate change response, 204–205
Mixed-methods approach, in CBPR: community mapping
and, 295; group interviews and, 294; informant
interview as, 293–294; surveys and, 294; walk-along and,
295–297
MNCH. See Maternal, neonatal, and child health
Mobile Alliance for Maternal Action (MAMA), 222–223
Mobile phone-based EHRs, 226
Mobile phone-based registration system, 224
Mobile phone-based services: Jacobson on, 229; LMICS
and, 220
Mobile population registries, 224
Mobile-digital health (mHealth): for client
education and behavior change, 222–223; data
collection and reporting in, 224–225; EHR for, 226;
electronic decision support for, 226–227; financial
transactions and incentives for, 228; human resource
management for, 228; ICT Framework for, 220; LMICs
and, 220; provider training and education for, 228;
provider work planning and scheduling for, 227–
228; provider-to-provider communication for, 227;
registries and vital events tracking for, 224; sensors
and point-of-care diagnostics of, 222; supply chain
management for, 228
Mockus, Antanas, 477
Monitoring and evaluation, of scale-up, 235
Monocultures, 169
Morbidity, 41, 196
Mortality: causes of, 40; GBD on, 89, 92–94; mental
disorders and, 127; severe temperatures association
with, 196; surgery and, 428
Mortality rates: IMR, 30, 39, 40,
67; MMR, 40; for TB, 108
Mosquitoes, infectious diseases and, 203, 346
MOU. See Memorandum of Understanding
Movement for Global Mental Health, 133
MSF. See MedecinsSansFrontieres
Multidirectional learning, 31, 283–284
Multidisciplinary approaches, 144, 163
Multi-drug-resistant tuberculosis (MDR-TB), 420, 421
Multilateral donors, 135
Multisector, 1, 27, 34, 465
Multi-stakeholder, 181
Murray, Christopher, 87
Mutual benefits, in CBPR, 286–287
Mutual health engagement, 31
Mutuelles community-based
health insurance, of Rwanda, 68
My Own Country (Vergeheze), 478
Mycetoma, 373–374
Myers, Dayna Kerecman, 373

N
NAFTA. See North American Free Trade Agreement
Narcotics Control Bureau, of India, 435–436
Narratives: global health research importance of, 469–
473; of medical humanities scholars, 470–471
National Academy of Sciences (NAS), on climate change,
195
National Department of Health, of South Africa, 227
National governments, for mental health, 132
National health equity strategies, 115
National health insurance model, 66
National Institutes of Health (NIH): careers and, 358; Office on Research on Disparities and Global Mental Health, 134
National Institutes of Mental Health (NIMH), 135
National Organic Program, of USDA, 177
National Tuberculosis Control Program (NTP), 240
Nationally determined contribution (NDC), 207
Natural disasters, from climate change, 197–198
NCD. See Non-communicable disease
NCD Advocates, for global mental health, 135
NDC. See Nationally determined contribution
Near-real time, 218
Neglected tropical diseases (NTDs), 39, 43, 94–95
Neonatal disorders, DALYs on, 94
Nepal field course example: activities and reflections, 310, 326–327; assignments and grading, 328; cultural visits in, 327; excursions in, 327; heritage walk in, 327; itinerary, 323–326; learning objectives, 322–323; partnership principles, 323
Network, career and, 359–361
Nevirapine, for HIV/AIDS treatment, 14
News aggregators, 18–19
Newspaper, magazines, books and films, 18–21
NGOs. See Nongovernmental organizations
Nicaragua, global health experience in, 377–378
Niewold, Janet, 286–293
Nigeria: MAMA programs in, 222; polio immunization resistance in, 408
Nightlife, health and safety for, 348
NIH. See National Institutes of Health
NIMH. See National Institutes of Mental Health
Nolen, Stephanie, 19
Nonclinical skills, for careers, 355–356
Non-communicable disease (NCD), 42, 43, 103, 498; as Category 2 disease, 44; communicable shift to, 95–97; funding priority for, 427; GBD on, 91–92; growth of, 108; leading death causes from, 44; in LMICs, 491; medicalization impact on, 29; mental disorders comorbidity with, 129; UN risk factor approach to, 46; WHO Building Blocks on Cambodia and, 60
Nonfiction books, 19–20
Nongovernmental organizations (NGOs): BRAC as world largest, 236; on childhood blindness, 442; Citizens Climate Lobby as, 206; of Doctors without Borders, 133, 227, 353, 372; of Hope for Youth, 309–311, 326–327; international, 133; volunteering at, 359
Non-infectious diseases, 44
Nonlethal health problems, 87
Nonpartner sexual violence, 39
Nonsovereign states, 89
Nonstate actors, 113–114
Non-transmissible, 44
North American Free Trade Agreement (NAFTA), 176
NTDs. See Neglected tropical diseases
NTP. See National Tuberculosis Control Program
Nursing, 445; challenges to, 447–448; contributions to, 445–446; education provided by, 448; insights into, 448–449; perspective of, 445; research initiatives of, 447, 448; resources for, 448
Nutrition: calories and food energy, 172; macronutrients, 172; micronutrients, 173; protein and, 172; undernourishment, 173, 175; undernutrition, 173. See also Malnutrition
Nyarugusu refugee camp, in Tanzania, 158–161

O

Obama, Barack, 176, 207
Obesity, 39, 99, 176
Ocean acidification, 201
Oceans, surface temperature increase, 198
O’Connor, Maura, 176
Office on Research on Disparities and Global Mental Health, 134
One Acre Fund, 178, 184–185
One health concept, of AVMA, 34–35
Open access movement, 9, 10
Open data in mHealth, SDGs and, 224
Open Medicine Project, 226–227
Open-ended questions, 6, 294, 307, 327, 471
Opioid control, 434–436
Oral rehydration solution (ORS), of BRAC, 237–238
Oral Therapy Extension Program (OTEP), of BRAC, 237
Organic production, USDA National Organic Program on, 177
Orner, Kevin, 155–157
Orphans: AIDS experience, 387–391; child trafficking and illegal adoptions of, 389; community compared to institution support for, 390–391; Ebola, 388; as tourist attraction, 388, 389
ORS. See Oral rehydration solution
OTEP. See Oral Therapy Extension Program
Out-of-pocket model, 66
Overnutrition, 179
Overpredictions, 225
Ozone levels, 200

P
Pain and Policy Studies Group, of WHO Collaborating Center for Pain Policy and Palliative Care and UWCCC, 433–436
Pain policy and palliative care, 433; advocacy for, 435; balance in, 436; cancer pain and, 434; impacts of, 434–436; opioid control and, 434–436; UN Single Convention on Narcotic Drugs and, 434–435
Pakistan: CHWs in, 136; high poverty levels in, 9; immunization program resistance in, 408
Palliative care. See Pain policy and palliative care
Paraprofessional workers, 29
Paris Agreement, NDCs in, 207
Partners in Health (PIH), 133, 391
Partnerships: EWB-USA and, 335–337; Fair Trade Learning on, 337; Hartman on, 337; in La Calera case study, 290; Nepal field course principles of, 323; student organizations and equity-focused, 331; student organizations and power of, 334–338; surgery and, 430–431
Passport stamps, 344–345
Pathologies of Power: Health, Human Rights and the New War on the Poor (Farmer), 19
Patient monitoring devices, 220
PDAs. See Personal digital assistants
Peace building, 402, 465
Peace Corps, 31, 352, 358, 359, 364, 375; cultural context understanding in, 383–384; REDES organization and, 381–384
Pedagogy of the Oppressed (Freire), 281
Peer-group, 219
Peer-reviewed literature, 8; American Journal of Public Health, 10; of Cochrane, 10; The Lancet, 10, 36, 87, 88, 134, 339; low-income populations underrepresentation in, 9; New England Journal of Medicine, 10; open access movement and, 9; peer-reviewed journals list, 11; production and dissemination shortcomings, 9; Social Science and Medicine, 10
Penalosa, Enrique, 483
PEPFAR. See President’s Emergency Plan for AIDS Relief
Performance of health care comparisons, HiTT on, 64
Performance-based incentives, of BRAC, 237–238
Perinatal depression, 133
Personal digital assistants (PDAs), 220
Perspective taking, in global health learning, 5
Pharmaceutical industry, for mental health, 134–135
Pharmaceutical reform, Flagship Framework on, 62
Pharmacists, in public health, 451, 458; FIP on roles of, 452; inadequate workforce of, 453; pharmacy-based research, 454
Pharmacy research, 454
PHEIC. See Public health emergencies of international concern
Photographs and videos, in field course, 318–319
PIH. See Partners in Health
Piloting organization, in scale-up, 234
Place-based knowledge, in field course, 317, 329
Planetary health: Holocene and Anthropocene epochs and, 35; Lancet Commission on, 36; planetary boundaries in, 35; vital signs of human and planetary well-being, 37
PLoS Medicine, 9, 134
Point-of-care diagnostics, in mHealth, 222
Point-of-use treatment systems, 157
Policies, for mental health treatment, 132
Policymakers, 466; data collection for, 224; education for, 84; on food scarcity, 175; GBD Study and, 99, 103; for
pharmaceutical reform, 62; universities and, 490
Polio: eradication of, 4; Nigeria immunization resistance for, 408
Population displacement: from climate change, 203–204; sea level rise and, 2–4
Population health, 92, 99
Postgraduate fellowship or service, as global health experience type, 256
Postnatal checkups, 238, 240
Posttraumatic stress, 203
Poverty, 39; countries with high, 9; food security and, 174; in LungaLunga, 394; Mandela on, 13; TB and, 420
Power: Global South perception of, 334; resources and structures of, 332
Powers, William, 372
Practice engagement, for scale-up, 241–244
Pre-exposure prophylaxis (PrEP), for HIV/AIDS prevention, 415
Pregnancy, women risks in, 108
Preindustrial era, 194, 207
PrEP. See Pre-exposure prophylaxis
President’s Emergency Plan for AIDS Relief (PEPFAR), 352, 413–414
Prestige and power, in culture, 317–318
Primary health care, Declaration of Alma-Ata on, 72–73
Primary prevention, mitigation and, 204
Primary source documents, 11–14
Private philanthropy, 135
Problem Management Plus, of WHO, 133
Productivity. See Yield
Professional journalists, on mental health, 134
Program cost, in La Calera case study, 292
Program design and services, in global mental health, 136–137
Project Renewal, 454
Protected wells, 15
Provider-to-provider communication, for mHealth, 227; training and education, in mHealth, 228; work planning and scheduling, 227–228
Psychological First Aid, WHO promotion of, 133
Psychosis, 127
Psychosocial benefits, in La Calera case study, 290
Public health: agricultural technology and, 180–183; climate change responses to, 204–205; climate change risks to, 196–204; ethical global engagement in, 315–316; global health compared to, 33–34; LungaLunga gender programs in, 399; pharmacists in, 451–456; undocumented immigrants barred from, 115
Public Health Agency of Canada, 46–47
Public health emergencies of international concern (PHEIC), 119
Public health laboratory, 426; basic to applied research in, 423–424; post-Ebola recovery activities support by, 425; in resource-limited setting, 424–425
Public Service Act, on immunization programs, 408–409
Push (Sapphire), 472

Q
Quality improvement practices, 59, 137, 138, 455
Queensland, Aboriginal activist group in, 249
Query, for global health experience, 257–258
Questions: destination, 344; for global health learning, 5–6; open-ended, 6, 294, 307, 327, 471; for volunteering experiences, 256–257

R
Random sample, 294
Reflection: action and, 306; on careers, 457–458; in field course, 320–321; on Nepal field course, 310, 326–327; Self, Other and Life in, 302; in transformative leadership, 301, 302
Refugees, climate change and, 203–204
Regenerative Agriculture Initiative, at California State University, 181
Registries, in mHealth, 224
Reich, Michael R., 19
Relationships, 383; in transformative leadership, 303–304
Remote medical consultations, 219
Remote patients, telemedicine for monitoring of, 219
Research: basic to applied, in public health laboratory, 423–424; job market trends, 361; narrative importance to, 469–473; nursing initiatives for, 447, 448; pharmacy, 454.
See also Community-based participatory research
Resources: for education programs, 466; for job search, 362–363; LungeraLunga lacking of, 395; for nursing, 448; power structures and, 332; scarcity of, 4; for water, 145–146, 150, 153–154, 161
Resumes, for careers, 361–362
Richmond, Julius, 132
Right to health impact assessment, 115
Riley, Richard, 354
Risk factors: by attributable DALYs, 100; behavioral, 46; for disability, 103; for disease and injury, 45; environmental, 46; GBD Study on, 46, 91, 99–100; metabolic, 46; UN approach to NCDs and, 46
Rockefeller Foundation, 353
Roll Back Malaria, 352
Roy, Victor, 333
Runoff, 184, 201
Russia, heat-related deaths in, 196
Rwanda: decentralization, access and coordination in, 483–484; health care system improvements in, 482; malnutrition in, 185; Mutuelles community-based health insurance of, 68
S
Sachs, Jeffrey, 172
Sangath NGO, in India, 133
Sanitation. See Water, sanitation, hygiene, and health
Sapphire, 472–473
SARS. See Severe Acute Respiratory Syndrome
“Save Africa” narrative, 388
Save the Children, 353
Scale-up, 233; advocacy work for, 243; capacity building of, 235; case study of problematic, 242; coverage increase in, 234; diversification of, 235; horizontal, 234, 243; knowledge transfer in, 235; monitoring and evaluation of, 235; phases of, 235; piloting organization in, 234; practice engagement for, 241–244; spontaneous scaling up, 235; uptake increase in, 234; vertical, 234, 243
Schistosomiasis, 149
Schizophrenia, 136
Scope of practice, Federal of State Medical Board on, 275
SDGs. See Sustainable Development Goals
SDI. See Socio-demographic Index
Sea level rise: from climate change, 195, 197; coastal erosion from, 197, 198; IPCC on, 195; population displacement and, 2–4
Second language, career and, 357, 364
Secondary prevention, adaptation as, 205
Secondary source documents, 12
Seguro Popular universal health care program, of Mexico, 68
Selective primary health care, 73
Self, Other, and Life in reflection and discernment, 302
Self-care, 137
Seminars, webinars, workshops for career network, 360–361
Semistructured interviews, 62
Sen, Amartya, 419
Sensors, in mHealth, 222
La Serie de las Manos (Guayasamin), 23–24
Service delivery level: CHWs in, 136; of collaborative, team-based care, 136; for depression, 136; on HIV/AIDS, 136; task-shifting care in, 136
Service-learning, CBPR and, 283
Severe Acute Respiratory Syndrome (SARS), 118
Sexual violence, by UN peacekeepers, 114
Sexually transmitted infections (STIs), 348
SeysRanola, Risha, 287
Shamian, Judith, 446
ShasthyKormis, of BRAC, 236, 237
ShasthyaShebikas, of BRAC, 236–237, 238
Shellfish poisoning, 202
Short message service (SMS), 222
SI. See International System of Units
Sidel, Victor, 433
Sierra Leone, Ebola outbreak in, 425, 447
Sigma Theta Tau International, 448
Silko, Leslie Marmon, 471–472
Single Convention on Narcotic Drugs, UN, 434–435
Skills: business, as competency, 354; inventory for careers, 364–367; nonclinical for careers, 355–356; systems thinking, 254; of transformative engagement and leadership, 304–308
Small business development, in La Calera case study, 289–290
Smallholder, 169, 184
Smallpox vaccine, 12–13
Small-scale groundwater wells, 157
Smil, Vaclav, 171
Smillie, Ian, 19
SMS. See Short message service
Snow, John, 151
Social determinants of health, 46–47; FCGH on, 113; HiAP approach from, 113
Social impact venture, as global health experience type, 254
Social injustice, 334–335, 446
Social marginalization, in FCGH, 114–115
Social media: for career network, 360; on global mental health, 134
Social Science and Medicine, 10
Social-ecological model, 47–52
Sociocultural features, 241, 334, 366
Socio-demographic Index (SDI): GBD references to, 93; women DALYs in low, 85
Sociopolitical awareness, 271
Solinger, Rickie, 20
Sons of Lwala, 389
Sontag, Susan, 470
South Africa, 107; Essential Medical Guidance in, 226; MAMA programs in, 222; National Department of Health in, 227; Treatment Action Campaign in, 416
South African Constitutional Court, 107
South Asia, communicable diseases in, 94
South Sudan: health care system in, 482; lessons for, 485–486; as transitional society, 485–486
Specialist referral services, telemedicine for, 219
Spontaneous scaling up, 235
Square Foot Gardening (Bartholomew), 170
Sridhar, Devi, 20
Srikanth, Rajini, 471
Stepping-stones, to global health career, 459–461
Stigma, for mental disorders, 127
STIs. See Sexually transmitted infections
Stock-outs, 421
Stop TB, 352
Stories of AIDS in Africa (Nolen), 19
Student organizations: accountability systems, 338–340; equity-focused partnerships and, 331; GlobeMed and, 333–334; leadership competencies of, 337; partnership power and, 334–338
Study abroad, as global health experience type, 253
Subpopulations, 84
Sub-Saharan Africa: communicable diseases in, 94–95; health care workers shortage in, 429; HIV/AIDS cases in, 414; Limbe Hope for Youth in, 309–311, 326–327
“Subsidizing Starvation” (O’Connor), 176
Subsistence farm, 168
Subspecialties, surgical, 430
Substance abuse, 128
Sudan, WHO Building Blocks on, 60
Suicide, depression and, 128
SumakMuyo women’s group, in La Calera, 286–293
Supply chain management, for mHealth, 228
Surface water source, in Uganda, 146
Surgery, 494; complexity and scalability misconceptions for, 427–428; cost misconceptions for, 428; disease burden misconceptions for, 427–428; ethics and professionalism in global surgery education, 429; low funding priority for, 427; partnerships and, 430–431; surgeons advocacy on, 430; surgical workforce shortage and, 428–429
Sustainable Development Goals (SDGs), 73, 76, 463; on child and maternal health, 92; on education, 464–465; FCGH and, 112; food security as, 173; GBD progress measures on, 102; global mental health promotion in, 132; health as integral part of, 79–80; healthy lives goal of, 78–79; High-Level Panel of Eminent Persons of, 77; on NTDs and hepatitis, 94; open data and, 224; 2030 agenda on, 77–79; water and sanitation goals of, 153–154; WHO on, 79–80
Sustainable development programs, in LungaLunga, 399–400
Systems thinking skills, 254
USDA. See US Department of Agriculture

“Using Biogas Technology to Solve Pit Latrine Waste Disposal Problems” (Buxton), 17

US-Thai Consortium for Pharmacy Education, 453

Utilization, in food security, 174–175

UW. See University of Wisconsin

UWCCC. See University of Wisconsin Carbone Cancer Center

V

Vaccine hesitancy, 406–408

Vaccine-preventable diseases, 406, 408

Vaccines: access to, 408–409; Affordable Care Act on, 408; development of, 409–410; financial barriers for, 308; for Infectious disease, 405–406; smallpox, 12–13; U.S. school entry requirements for, 408; yellow fever, 345

Vaccines for Children (VFC) program, 408–409

VAD. See Vitamin A deficiency

Value chain, agricultural, 175, 179

Values: through action examples, 305; agricultural chain, in food waste, 179; career impacted by, 457–458; in CBPR, 285; in Hope for Youth example, 310–311; leading with, 304–306

Vector-borne diseases, 202

Verghese, Abraham, 22–23, 478

Vertical scale-up, 234, 243

VFC. See Vaccines for Children

Video-recording, 219, 296, 318, 468

Vietnam, 197

Violence: climate change linked to, 203–204; domestic, 128; interpersonal DALys in Mexico, 86; UN peacekeepers sexual, 114

Visa, 344–345

Vision: in Hope for Youth example, 310–311; leading with, 304–306

VISION 2020 global initiative, 441–442

Vision screening, 440–441

Vital events tracking, in mHealth, 224

Vital signs, of human and planetary well-being, 37

Vitamin A deficiency (VAD), 188

Volunteering experiences: in Global North, 333; at NGOs, 359; questions for, 256–257

Voluntourism, 256, 332–333

von Bismarck, Otto, 65

W

Waist-High in the World: A Life among the Nondisabled (Mairs), 478

Walk-along method, in CBPR, 295–297

War, climate change and, 203–204

Warmuth, Dee, 288

Water, 39; access to clean, 144, 145; availability of sufficient quantity of, 145; bacteria and warm marine, 202; Calabazal, Panama system of, 155–157; current treatment practices for, 151; disease, death prevention and, 28, 99; flood, 162, 197, 198, 201; gender disparities in, 154; harmful algal blooms and, 201; health and safety for, 347; improved source of, 147, 152; resources, 145–146, 150, 153–154, 161; shortages, 32, 198–199; statistics on safe, 3; treatment systems, 147, 148

Water sanitation, hygiene, and health, 39, 143; climate change and, 162–163, 198–199; current technologies applicability to, 154–157; current treatment practices for, 151; diarrheal disease and, 144, 237, 238; disease, death prevention from, 28, 99; forced migration and, 158–161; gender disparities and, 154; germ theory of disease, 151; health and safety on, 347; historic and current efforts on, 150–154; improved sanitation facility and, 146, 152; Industrial Revolution and, 150; MDGs for, 151–153; rapid urbanization and, 162; SDGs for, 153–154; statistics on safely managed, 3; system components for, 144–147; technologies applicability to, 154–157; theory of miasma and, 150–151; WHO on, 144

Water-based diseases, 163; Guinea worm and, 149; schistosomiasis as, 149

Water-borne diseases, 148, 162; dehydration and death from, 147; examples and symptoms of, 147; infectious diseases and, 200–201

Water-related insect vector diseases, 150

Water-washed diseases, 148–149, 162

Watson, Lila, 249

Weather, climate compared to, 194

Well water: Bangladesh tube wells and, 242; from
protected and unprotected wells, 152; from small-scale groundwater, 157
Well-being: gender and community, 393–403; HIV/AIDS interrelations with, 464–465; planetary health, 37; vital signs of human and planetary, 37
Wellcome Trust, 135
Wellness, 126–127; of global health worker, 137–139; self-care and, 137
Wells. See Well water
West Africa, Ebola orphans in, 388, 390
WFP. See World Food Programme
WHO. See World Health Organization
WHO Building Blocks, 58; on Cambodia NCDs, 60; on diabetes care in lower-income countries, 59–60; on Sudan health system strengthening, 60
Wildfires, 198
Winslow, C., 33–34
Wisconsin without Borders Marketplace, 288
Women, 249; as culture carriers, 396; DALYs in low SDI countries, 85; pregnancy risks for, 108; SumakMuyo group, in La Calera, 286–293; transgender life expectancy of, 108; water and sanitation disparities for, 154
Working Group on Global Activities of Students at Pre-health levels, on accountability, 339
World Bank, 352, 353; Countries at a Glance, 16; Flagship Framework, 60–62; as multilateral donor, 135
World Conservation Union, 293
World Federation for Mental Health, 133
World Food Programme (WFP), 174, 185
World Health Assembly: FCTC adoption by, 116; on surgery, 429
World Health Organization (WHO), 109, 117, 118, 135, 352, 406, 433–436; career in, 358; on childhood blindness, 440, 441; on clean water access, 144; on counterfeit medications, 452; Country Reports, 16; on Ebola outbreak, 371; GBD additions from, 87; on global mental health, 132–133; on GMOs, 180; on health care workers, 429; health definition by, 27; on IMRs, 30; on JMP, 152; mental health definition by, 126; open access movement and, 9; protocols of, 226; on sanitation, 144; on SDG era of health, 79–80; surgery advocacy by, 430; on UHC, 112–113
World population, LMICs percentage of, 128
World Psychiatric Association, 133
World Resources Institute (WRI), 175
X
Xi Jinping, 207
Y
Years lived with disability (YLDs), 89; GBD on, 90–91, 97; mental disorders and, 128
Years of life lost (YLL), 89; GBD on, 90, 96–97
Yellow card, 345
Yellow fever vaccine, 345
Yepez, Flora, 286–287, 291
Yield (productivity), 169
Yield gaps, 175
YLDs. See Years lived with disability
YLL. See Years of life lost
Yong Kim, Jim, 427
Z
Zika virus, 4, 43, 118, 119, 203
Zoonotic disease, 35