

INDEX

A

- ACIP
 - See* Advisory Committee on Immunization Practices
- Acquired immunodeficiency syndrome. *See also* Human immunodeficiency virus infection; Sexually transmitted diseases
 - fear of, 1147, 1156
 - histoplasmosis and, 1076
 - nontyphoidal salmonellosis and, 1023
 - toxoplasmosis and, 951–952
- Acute motor axonal neuropathy
 - campylobacter enteritis and, 1010
- Acyclovir
 - genital herpes treatment, 1167
 - varicella treatment, 1226
- Adenosine arabinoside
 - rabies treatment, 966
- Adenovirus infections
 - description, 1128–1129
 - epidemiology, 1129
 - pathogen description, 1013
 - pathogenesis and clinical findings, 1015, 1129
 - vaccines, 1129–1130
- Advisory Committee on Immunization Practices
 - Japanese encephalitis vaccination recommendation, 843
 - measles recommendations, 1216, 1217
 - mumps recommendations, 1221
 - pertussis recommendations, 1230
 - polio vaccination recommendations, 1240
 - varicella recommendations, 1226–1227
- Afghan War
 - malaria and, 808
- Africa
 - anthrax and, 976
 - bancroftian filariasis and, 884
 - brucellosis and, 980
 - campylobacter enteritis, 1009
 - chikungunya and, 827
 - cholera and, 1033
 - Ebola hemorrhagic fever and, 961
 - epidemic typhus fever and, 875
 - helminths and, 1055
 - Lassa fever and, 959
 - loiasis and, 888
 - Lyme disease and, 863
 - malaria and, 807, 808
 - meliodosis and, 1079
 - meningococcal disease and, 1133
 - onchocerciasis and, 887
 - o'nyong-nyong and, 827
 - plague and, 880
 - Q fever and, 953
 - rabies and, 965
 - Rift Valley fever and, 825–826
 - sandfly fever and, 858
 - schistosomiasis and, 1063
 - Sindbis and Sindbis-like viral infections and, 828
 - toxoplasmosis and, 949
 - viral gastroenteritis and, 1013
 - West Nile fever and, 830
 - yellow fever and, 833, 834, 835
- African sleeping sickness
 - diagnosis, 900
 - epidemiology, 899–900
 - incidence, 900
 - mortality rate, 900
 - pathogen description, 899
 - pathogenesis and clinical findings, 900
 - therapy, 900–901
 - transmission, 899–900
- Age factors
 - age-specific incidence rates, 758
 - amebiasis, 1040, 1041
 - brucellosis, 981
 - Chagas' disease, 898
 - death and injury from natural disasters and, 1301–1302
 - enterohemorrhagic *Escherichia coli*, 1005, 1006
 - feeding programs, 1386
 - histoplasmosis, 1076
 - human monocytic ehrlichiosis, 867
 - influenza, 1128
 - Japanese encephalitis, 840
 - Mycoplasma pneumoniae* infections, 1125
 - nontyphoidal salmonellosis, 1024
 - nutritional assessment, 1379–1380
 - pertussis, 1228, 1229
 - polio, 1238
 - rubella, 1219
 - sexually transmitted diseases, 1148–1149, 1154–1155
 - Streptococcus pyogenes* infections and, 1121
 - tetanus, 1232
 - varicella, 1224
 - viral gastroenteritis, 1015
 - viral hepatitis, 1178, 1180
 - yellow fever, 835
- Agent Orange exposure
 - redeployment and, 1428
- AHF
 - See* Argentine hemorrhagic fever
- AIDS
 - See* Acquired immunodeficiency syndrome
- Air National Guard
 - Weapons of Mass Destruction Civil Support Teams, 1368
- Airborne precautions, 1259–1260
- Albendazole
 - helminth infection treatment, 1059
- Alcohol abuse
 - See* Substance abuse
- Alcohol consumption
 - death and injury from natural disasters and, 1301–1302
 - sexually transmitted diseases and, 1148, 1154
- Allergic reactions
 - bancroftian filariasis and, 885
 - diethylcarbamazine citrate, 889
 - vaccines, 839, 843, 844
- Amantadine
 - influenza treatment, 1128
- Amazon River basin
 - malaria and, 807
 - Oropouche fever and, 823–824
- Amebiasis
 - diagnostic approaches, 1041
 - epidemiology, 1039–1040

- geographic distribution, 1040
- incidence, 1040
- liver abscess and, 1041
- military relevance, 1038–1039
- mortality rate, 1040
- pathogen description, 1039
- pathogenesis and clinical findings, 1040–1041
- target organs, 1039
- therapy and control, 1042
- transmission, 1039–1040
- Amebic colitis
 - See Amebiasis
- Amebic dysentery
 - See Amebiasis
- American Academy of Pediatrics
 - varicella recommendations, 1226
- American Red Cross
 - See also International Committee of the Red Cross
 - Emergency Support Functions, 1369, 1371
 - local disaster response, 1365
- American trypanosomiasis
 - See Chagas' disease
- Amoxicillin
 - gonorrhea treatment, 1159
 - Lyme disease treatment, 864
 - meliodosis treatment, 1081
 - rabies treatment, 966
- Amphotericin B
 - coccidioidomycosis treatment, 1072
 - histoplasmosis treatment, 1077
- Ampicillin
 - enteroinvasive *Escherichia coli* treatment, 1006
 - nontyphoidal salmonellosis treatment, 1024
 - shigellosis treatment, 1029
 - typhoid fever treatment, 1019–1020, 1020
- Anemia
 - malaria and, 809
- Anthelmintics
 - helminth infection treatment, 1059
 - schistosomiasis treatment, 1067
- Anthrax
 - biological warfare and, 742
 - complications, 977
 - control, 978–979
 - cutaneous, 976–977
 - description, 975
 - diagnostic approaches, 977–978
 - “epidemic” definition and, 727
 - epidemiology, 975–976
 - gastrointestinal, 977, 978
 - geographic distribution, 976
 - incidence, 976
 - inhalational, 976, 977, 978
 - military relevance, 975
 - mortality rate, 975, 976, 977
 - oropharyngeal, 977, 978
 - pathogen description, 975
 - pathogenesis and clinical findings, 976–977
 - therapy, 978
 - transmission, 975–976
 - vaccine, 979
- Antibiotics
 - See also specific drugs
 - Jarisch-Herxheimer reaction, 865, 942
 - Lyme disease treatment, 864–865
 - shigellosis treatment, 1028
- Antibodies
 - See also specific tests and disorders
- detection of, 790
- specimen collection, handling, and storage, 796
- Anticonvulsants
 - equine encephalitis treatment, 849
- Antigens
 - laboratory diagnosis of infection and, 788–789
- Antimotility drugs
 - enterotoxigenic *Escherichia coli* treatment, 1004
 - viral gastroenteritis treatment, 1017
- Antipsychotic medications
 - deployment and, 1418
- Aral, S.O., 1148
- Arenavirus hemorrhagic fevers
 - Lassa fever, 959–960
 - pathogen description, 958–959
 - South American hemorrhagic fevers, 960–961
- Argentine hemorrhagic fever, 960–961
- Arithmetic scale line graphs, 761, 764
- Armed conflicts
 - See Complex emergencies
- Armed Forces Epidemiological Board
 - redeployment role, 1438
- Armed Forces Medical Intelligence Center
 - “Medical Environmental Disease Intelligence and Countermeasures,” 1320
- Army National Guard
 - Weapons of Mass Destruction Civil Support Teams, 1368
- Artemisinin
 - malaria treatment, 812, 813
- Arthritis
 - brucellosis and, 981
- Arthropods
 - See Diseases transmitted primarily by arthropod vectors
- Ascertainment bias, 772
- Aseptic techniques, 1256
- Asia
 - anthrax and, 976
 - bancroftian filariasis and, 884
 - campylobacter enteritis, 1009
 - cholera and, 1033
 - enterohemorrhagic *Escherichia coli* and, 1004
 - filovirus hemorrhagic fevers and, 962
 - hantaviruses and, 943
 - helminths and, 1055
 - Japanese encephalitis and, 840
 - Lyme disease and, 863
 - meliodosis and, 1079
 - plague and, 880
 - Q fever and, 953
 - rabies and, 965
 - sandfly fever and, 858
 - schistosomiasis and, 1063
 - scrub typhus and, 869
 - spotted fever and, 876
 - tick-borne encephalitis and, 851, 853, 854
 - toxoplasmosis and, 949
 - tularemia and, 972
 - viral gastroenteritis and, 1013
- Astroviruses, 1013
- Atlas of the Global Distribution of Schistosomiasis*, 1063
- Atovaquone/proguanil
 - malaria treatment, 811, 812
- Atabrine
 - malaria treatment, 805
- Attributable risk
 - in the exposed group, 770–771
 - in the total population, 771
- Australia

brucellosis and, 980
 Japanese encephalitis and, 840
 Ross River disease, 829
 spotted fever and, 876
 Azidothymidine
 viral hepatitis treatment, 1183
 Azithromycin
 campylobacter enteritis treatment, 1010
 chlamydia treatment, 1164
 malaria treatment, 812
 Mycoplasma pneumoniae infection treatment, 1126
 Q fever treatment, 956
 Streptococcus pneumoniae infection treatment, 1124
 Streptococcus pyogenes infection treatment, 1122

B

Bacillary dysentery
 See Shigellosis
 Bacillus of Calmette and Guérin vaccine, 1141
 Bancroftian filariasis
 control, 886
 diagnostic approaches, 885
 epidemiology, 884
 pathogen description, 884
 pathogenesis and clinical findings, 884–885
 therapy, 885–886
 Bang, B., 980
 Bar graphs, 761, 763
 Barnard, Chester, 1353
 BCG vaccine
 See Bacillus of Calmette and Guérin vaccine
 Benedek, D.M., 1405
 Benzathine penicillin
 respiratory disease treatment, 1119
 Streptococcus pyogenes infection treatment, 1122
 Benznidazole
 Chagas' disease treatment, 898
 Benzodiazepines
 deployment and, 1418
 Berg, J.W., 1159
 Beri-beri
 malnutrition and, 1380
 Bey, D.R., 1410, 1411
 BHF
 See Bolivian hemorrhagic fever
 Bias
 avoiding or reducing, 772–773
 case-control studies and, 767
 confounding bias, 772, 773–775
 definition, 772
 information bias, 772
 nonprobability sampling designs, 762, 763
 selection bias, 772
 BIKEN vaccine, 843, 844
 Bilharziasis
 See Schistosomiasis
 Biological warfare
 See also Technological disasters
 brucellosis and, 983
 immediate response mandate, 745
 indications of, 741
 infectious disease outbreaks secondary to, 1341
 medical treatment resources and, 746
 plague and, 879, 884
 Q fever and, 953
 risk communication plans, 1414
 role of physicians, 1414

tularemia and, 971
 "Bird baths," 1256
 Bismuth subsalicylate
 cholera treatment, 1036
 enterotoxigenic *Escherichia coli* treatment, 1004
 viral gastroenteritis treatment, 1017
 Bithionol
 helminth infection treatment, 1059
 Black Death
 See Plague
 Blanket supplementary feeding programs, 1386
 Blindness
 onchocerciasis and, 887–888
 Blizzards
 See Windstorms
 Blood transfusions
 Chagas' disease and, 897
 hookworm infections and, 1059
 malaria and, 807, 808
 toxoplasmosis and, 949
 viral hepatitis and, 1178, 1179, 1187
 Blumberg, B.S., 1178
 Bolivian hemorrhagic fever, 960–961
 Bone scintigraphy
 brucellosis diagnosis, 981
 Borovsky, P.F., 890
 Boss, L.P., 1325
 Botulism poisoning
 "epidemic" definition and, 727
 Boyer, C.B., 1155
 BPG
 See Benzathine penicillin
 Breakbone fever
 See Dengue virus infections
 Brown, Jesse, 1428
 Bruce, Col. David, 899, 980
 Brucellosis
 complications, 980–981
 control, 983
 description, 979–980
 diagnostic approaches, 982
 differential diagnoses, 982
 epidemiology, 980
 pathogen description, 980
 pathogenesis and clinical findings, 980–982
 symptoms and signs (table), 981
 therapy, 982–983
 typical host specificity of *Brucella* species (table), 980
 Bubonic plague, 880–881
 Burkle, F.M., Jr., 1373

C

Cadavers
 See also Dead persons
 handling of, 1265
 Caliciviruses, 1013, 1014–1015
 Cambodia
 land mines, 1280
 Campylobacter enteritis
 coinfection, 1010
 mortality rate, 1010
Campylobacter enteritis
 control, 1010–1011
 description, 1008
 diagnostic approaches, 1010
 epidemiology, 1009
 geographic distribution, 1009

- incidence, 1009
- military relevance, 1008
- pathogen description, 1008
- pathogenesis and clinical findings, 1009–1010
- therapy, 1010
- transmission, 1008, 1009
- Campylobacteriosis
 - outbreak investigation, 734
- Card agglutination test
 - African sleeping sickness diagnosis, 900
- Care
 - food program, 1330
- Caribbean region
 - bancroftian filariasis and, 884
 - leptospirosis and, 942
 - schistosomiasis and, 1063
- Cartwright, F.F., 878
- Case-control studies
 - advantages and disadvantages, 767, 768
 - bias and, 767, 772, 773
 - cause-and-effect relationships, 779–780
 - confounding bias, 767
 - control sources, 767
 - odds ratios, 740, 767–769
 - outbreak investigation, 740, 746
 - relative risk and, 768–769
 - technological disasters and, 1344
- Case definitions
 - outbreak investigation and, 726, 748
- Case reports, 766
- Case series, 766
 - technological disasters and, 1344
- Categorical variables
 - summary statistics, 760
 - types, 759
- Cates, W., Jr., 1158
- Catholic Relief Services
 - food program, 1330
- Cats
 - See* Diseases transmitted primarily from animals to humans
- CATT
 - See* Card agglutination test
- Cause-and-effect relationships, 779–780
- Cause-specific mortality rates, 759
- CCHF
 - See* Crimean-Congo hemorrhagic fever
- Ceftazidime
 - melioidosis treatment, 1081
- Cefuroxime
 - Lyme disease treatment, 864
- Centers for Disease Control and Prevention
 - background data on populations in crisis, 1319
 - case definitions for known diagnoses, 726
 - cholera cases, 1031
 - contact precautions, 1263, 1265
 - cooperative partnerships with other agencies, 750
 - crude mortality rate calculation, 1382–1383
 - cryptosporidium* control guidelines, 1046
 - Division of Parasitic Diseases, 1065
 - Ebola hemorrhagic fever outbreak in Zaire in 1994 and, 1345
 - Emergency Support Functions and, 1371
 - Epidemic Intelligence Service, 725, 745
 - epidemiologic assessment teams and, 1297
 - genital wart recommendations, 1173
 - gonorrhea recommendations, 1160
 - guidelines for collecting specimens for viral diagnosis (table), 1015, 1016
 - guidelines for confirmation of foodborne disease outbreaks, 736–739
 - Health Information for International Travel*, 807, 810
 - isolation procedures, 1258–1263
 - Lyme disease surveillance, 861, 863
 - malaria-endemic countries list, 813
 - melarsoprol availability, 901
 - nifurtimox availability, 898
 - nosocomial infection criteria, 1252
 - paralytic polio classification criteria, 1238
 - Pentostam availability, 896
 - polio eradication goal, 1237
 - public health needs in complex emergencies guide, 1318
 - questionnaire for foodborne disease outbreak investigation, 743–744
 - rapid health assessments after Hurricane Andrew, 1296–1297
 - respiratory protection equipment for health care workers caring for tuberculosis patients, 1260
 - sarin gas attack on the Tokyo subway system and, 1345
 - sexually transmitted disease recommendations, 1152, 1153–1154
 - suramin availability, 900
 - “surveillance” definition, 709
 - tuberculosis recommendations, 1143, 1144, 1146
 - varicella vaccination recommendations, 1226
 - viral hemorrhagic fevers surveillance, 958
- Centers for Naval Analysis
 - humanitarian assistance report, 1318
- Central America
 - anthrax and, 976
 - bancroftian filariasis and, 884
 - brucellosis and, 980
 - Chagas’ disease and, 897, 898
 - coccidioidomycosis and, 1070
 - epidemic typhus fever and, 875
 - equine encephalitides and, 844, 847
 - hantaviruses and, 944
 - helminths and, 1055
 - leishmaniasis and, 891–892
 - leptospirosis and, 939, 940
 - melioidosis and, 1079
 - onchocerciasis and, 887
 - Q fever and, 953
 - rabies and, 965
 - toxoplasmosis and, 949
 - yellow fever and, 834, 835
- Central Intelligence Agency
 - background data on populations in crisis, 1319
- Cephalosporins
 - anthrax treatment, 978
 - meningococcal disease treatment, 1135
 - nontyphoidal salmonellosis treatment, 1024
 - tularemia treatment, 974
 - typhoid fever treatment, 1020
- Cercarial dermatitis, 1064, 1067
- Cerebral malaria, 809
- Cerebrospinal fluid
 - Japanese encephalitis and, 841
 - leptospirosis and, 942
 - meningococcal disease diagnosis, 1135
 - rabies diagnosis, 966
- Cervical cancer
 - genital warts and, 1173
- Cervicitis
 - See* Gonorrhea
- Cestodes
 - pathogen description, 1052, 1057
 - transmission, 1054–1055

- CFA
 See Circulating filarial antigen
- Chagas' disease
 diagnosis, 898
 epidemiology, 897–898
 geographical distribution, 897, 898
 incidence, 898
 pathogen description, 897
 pathogenesis and clinical findings, 898
 therapy and control, 898–899
 transmission, 897–898
- Chancres
 syphilis and, 1169
- Chancroid, 1174–1175
- Chemical accidents
 See Technological disasters
- Chernobyl nuclear accident, 1271, 1274
- Chest radiographs
 tuberculosis diagnosis, 1138, 1144, 1146
- Chi-square measures of risk
 Mantel-Haenszel chi-square test statistic, 778–779
 outbreak investigation, 740, 747
- Chickenpox
 See Varicella
- Chiggers
 See also Diseases transmitted primarily by arthropod vectors
 natural cycle, 869
- Chikungunya
 diagnostic approaches, 827
 epidemiology, 826–827
 pathogen description, 826
 pathogenesis and clinical findings, 827
 supportive therapy, 827
 vaccine for, 827
- Children
 See Infants and children
- Chlamydia, 1164
- Chlamydia pneumoniae* infections, 1126–1127
- Chloramphenicol
 anthrax treatment, 978
 ehrlichiosis treatment, 868
 meningococcal disease treatment, 1135
 murine typhus fever treatment, 873
 nontyphoidal salmonellosis treatment, 1024
 plague treatment, 882–883
 Q fever treatment, 956
 scrub typhus treatment, 871, 872
 spotted fever treatment, 878
 typhoid fever treatment, 1019
- Chlorophenicol
 melioidosis treatment, 1081
- Chloropromazine
 use in the Vietnam War, 1418
- Chloroquine
 amebiasis treatment, 1042
 malaria treatment, 810–812, 814
- Cholera
 antimicrobial therapy and resistance profile (table), 1036
 chemoprophylaxis, 1037
 control, 1036–1038
 description, 1030–1031
 diagnostic approaches, 1033–1034
 epidemiologic features (table), 1032
 epidemiology, 1032–1033
 field antigen detection tests, 1033–1034
 geographic distribution, 1033
 incidence, 1033
 military relevance, 1031
 mortality rate, 1031, 1033
 pandemics, 1030–1031
 pathogen description, 1031–1032
 pathogenesis and clinical findings, 1034
 serologic antibody detection assays, 1034
 therapy, 1034–1036
 transmission, 1032–1033
 vaccines, 1037–1038
- Christie, A., 1074
- Chronic fatigue syndrome
 Lyme disease and, 863, 864
- CI
 See Confidence interval
- Cigarette smoking
 histoplasmosis and, 1076
 Q fever and, 955
- Ciprofloxacin
 anthrax treatment, 979
 cholera treatment, 1037
 Cyclospora species infection treatment, 1049
 enterotoxigenic *Escherichia coli* treatment, 1004
 meningococcal disease treatment, 1137
 nontyphoidal salmonellosis treatment, 1024–1025
 Shigella dysenteriae treatment, 1328
 tularemia treatment, 974
- Circulating filarial antigen
 bancroftian filariasis diagnosis, 885
- Civil-Military Operations Centers, 1292
- Civil War
 amebiasis and, 1038
 cholera and, 1031
 diphtheria and, 1234
 measles and, 1215
 reunion issues, 1409
 shigellosis and, 1025
 tetanus and, 1230–1231
 tuberculosis and, 1138
 viral hepatitis and, 1175
- Clam digger's itch
 See Schistosomiasis
- Clavulanic acid
 rabies treatment, 966
- Cleghorn, G., 979–980
- Clindamycin
 toxoplasmosis treatment, 952
- Cluster sampling, 765
- CMRs
 See Crude mortality rates
- Coagglutination tests
 cholera diagnosis, 1033–1034
- Coccidioidomycosis
 control, 1073
 description, 1069
 diagnostic approaches, 1072
 epidemiology, 1070–1071
 geographic distribution, 1070
 incidence, 1070–1071
 incubation period, 727
 military relevance, 1069
 pathogen description, 1069–1070
 pathogenesis and clinical findings, 1071
 therapy, 1072–1073
 transmission, 1070
- Cohort studies
 advantages and disadvantages, 769
 attributable risk calculation, 770–771
 confounding bias and, 773–774
 cost factors, 769

- description, 769
- Mantel-Haenszel summary odds ratio, 775
- risk ratio and rate ratio calculation, 769–770
- technological disasters and, 1344
- Cohorting of patients, 1263
- Coliforms
 - outbreak investigation and, 734
- Combat stress, 1416, 1417
 - See also* Posttraumatic stress disorder
 - outpatient-level surveillance, 712
- Commercial sex workers
 - sexually transmitted diseases and, 1149–1150
 - social hygiene clinics, 1150, 1153
- Committee on International Nutrition
 - estimated mean per capita energy requirement, 1387
- Common source epidemics, 732
- Communicable diseases
 - See also specific diseases*
 - complex emergencies and, 1326
 - natural disasters and, 1298
- Community health workers
 - complex emergencies and, 1330–1331
- Complement fixation assays
 - adenovirus diagnosis, 1129
 - Chlamydia pneumoniae* infection diagnosis, 1127
 - Mycoplasma pneumoniae* infection diagnosis, 1126
- Complex emergencies
 - causes of mortality in refugee situations (figure), 1321
 - civilians and, 1326
 - community health workers and, 1330–1331
 - complex emergencies, refugee and internally displaced persons, 1983–1995 (figure), 1317
 - critical health information, 1318–1326
 - crude mortality rate, 1323–1324
 - curative medical services and, 1330
 - definition, 1272
 - diarrhea control programs, 1327–1328
 - evolution of, 1317
 - food assistance for emergency situations and, 1384
 - food supplies and, 1329–1330
 - human rights abuses, 1326
 - incidence and impact, 1273–1274
 - increase in, 1279, 1353
 - local authorities and relief agencies and, 1331
 - measles immunization and, 1327
 - military's response to, 1282, 1317–1318
 - mortality rates, 1321, 1323–1324, 1326
 - nutritional surveys, 1324–1326
 - principal causes of morbidity and mortality, 1326
 - principal methods of gathering data, 1318–1320
 - prisoners of war and other detainees, 1331
 - rapid health assessments, 1320–1321, 1327
 - sanitation and clean water and, 1328–1329
 - shelter, clothes, and blanket provision, 1329
 - steps in development of an effective health information system (exhibit), 1325
 - surveillance, 1323, 1326
 - targeted surveys and special studies, 1321, 1323
 - ten critical emergency relief measures, 1327–1331
 - various sources of background data and information on disasters, conflict, and complex emergencies (table), 1319
 - vitamin A deficiency and, 1327
- Compliance issues
 - malaria treatment, 805–806, 811–812, 813
 - negative reinforcement and punishment and, 1414
 - tuberculosis treatment, 1144
- Comprehensive Clinical Evaluation Program, 1432, 1435
- Computerized tomography
 - brucellosis diagnosis, 981
 - rabies diagnosis, 966
- Computers
 - See also specific software packages*
 - analysis of outpatient-level disease and nonbattle injury surveillance, 715
 - hand-held computers for diagnoses, 721
 - software packages for outbreak investigation, 728
- Condoms
 - availability, 1156
 - effectiveness, 1157
 - factors associated with use of, 1158
 - "female condom," 1158
 - foreign-made, 1157
 - monitoring use of, 1156–1157
 - proper use (exhibit), 1157
- Confidence interval
 - based on a proportion, 777
 - based on an odds ratio, 777–778
 - based on rate ratio, 777
- Confounding bias
 - case-control studies and, 767
 - controlling for, 774–775
 - definition, 773
 - example, 773–774
- Consecutive sampling, 762
- Consequence management, 1368
- Contact isolation, 1263
- Contact precautions, 1262–1263
- Contact tracing
 - sexually transmitted diseases and, 1153
- Contingency Pest Management Pocket Guide*, 1308
- Contingency tables, 760
- Continuous variables
 - description, 759
 - summary statistics, 760
- Convenience sampling, 762
- Corneal transplants
 - rabies and, 964
- Coronaviruses, 1013
- Correa, Gaspar, 1030
- Corticosteroids
 - schistosomiasis treatment, 1067
 - typhoid fever treatment, 1020
- Coughs
 - See Respiratory pathogens; specific diseases*
- Crimean-Congo hemorrhagic fever, 962–963
- Critical Event Debriefing*, 1416
- Crook, L.D., 882
- Cross-sectional studies
 - cause-and-effect relationships, 779–780
 - description, 767
 - technological disasters and, 1344
- Crude mortality rates, 759, 1323–1324
- Cryptosporidiosis
 - pseudo-outbreak, 727
- Cryptosporidium* infections
 - control, 1046–1047
 - diagnostic approaches, 1046
 - epidemiology, 1045–1046
 - geographic distribution, 1046
 - incidence, 1046
 - military relevance, 1045
 - pathogen description, 1045
 - pathogenesis and clinical findings, 1046
 - therapy, 1046

- transmission, 1045
 - waterborne disease outbreaks and, 734
 - CSWs
 - See Commercial sex workers
 - Cuba
 - dengue virus infections, 815, 822
 - yellow fever and, 832–833
 - Culture specimens
 - collection, handling, and storage, 795–796
 - Cumulative incidence rate computation, 758
 - Cunningham, D.D., 890
 - Curran, J.W., 1158
 - Cutaneous leishmaniasis
 - See Leishmaniasis
 - Cyclospora*
 - infection risk factors, 748
 - Cyclospora* species infections, 1047–1049
 - Cyclosporiasis
 - pseudo-outbreak, 727
 - Cysticercosis
 - praziquantel treatment, 1059
- ## D
- Da Costa's syndrome, 1409
 - Dairy products
 - See also Foodborne disease
 - brucellosis and, 980, 982, 983
 - enterohemorrhagic *Escherichia coli* and, 1006
 - Q fever and, 953
 - Shigella dysenteriae* and, 748
 - tick-borne encephalitis and, 850, 852
 - toxoplasmosis and, 948, 952
 - Darkfield microscopy
 - syphilis diagnosis, 1169
 - Darling, Samuel, 1073–1074
 - DARTs
 - See Disaster Assistance Response Teams
 - Data display methods
 - graphs, 760–762, 764
 - tables, 760
 - DDT
 - malaria eradication and, 807, 808
 - De Monbreun, W.A., 1074
 - de Ville de Goyet, C., 1275
 - Dead persons
 - See also Cadavers
 - Disaster Mortuary Services Teams and, 1371
 - management during natural disasters, 1306
 - Debriefings, 1416–1417
 - DEC
 - See Diethylcarbamazine citrate
 - Deer
 - Lyme disease and, 861–863
 - Deer ticks
 - See Lyme disease
 - DEET
 - African sleeping sickness and, 901
 - bancroftian filariasis and, 886
 - Crimean-Congo hemorrhagic fever and, 963
 - leishmaniasis and, 896
 - murine typhus fever and, 874
 - onchocerciasis and, 888
 - schistosomiasis and, 1068
 - scrub typhus and, 872
 - spotted fever and, 878
 - Defense Production Act of 1950, 1365
 - Dehydroemetine
 - amebiasis treatment, 1042
 - Dengue hemorrhagic fever / dengue shock syndrome, 819, 820, 822
 - Dengue-like syndromes
 - chikungunya, 826–827
 - differential diagnoses, 823, 824
 - o'nyong-nyong, 827–828
 - Oropouche fever, 823–825
 - Rift Valley fever, 825–826
 - Ross River disease, 829–830
 - schema for differential diagnoses (figure), 824
 - Sindbis and Sindbis-like viral infections, 828–829
 - West Nile fever, 830–832
 - Dengue virus infections
 - antibody-dependent enhancement, 819
 - clinical findings, 820–821
 - control, 816, 823
 - dengue fever in U.S. service members (table), 820
 - diagnostic approaches, 821–822
 - differential diagnoses, 821
 - epidemiology, 818–819
 - geographic distribution, 818–819
 - incidence, 814, 819
 - incubation period, 820
 - inpatient surveillance, 716
 - military relevance, 814–818
 - molecular analysis, 748
 - nonspecific fever presentation, 712
 - pathogen description, 818
 - pathogenesis, 819–820
 - personal protection and, 823
 - principal mosquito vector, 814
 - "saddleback" fever pattern, 820, 825
 - therapy, 823
 - tourniquet test, 822
 - transmission, 818
 - treatment and classification (table), 822
 - typical clinical course (figure), 818
 - vaccine, 816–817, 823
 - yellow fever and, 815, 821
 - Department of Agriculture
 - cooperative partnerships with other agencies, 750
 - Department of Defense
 - Anthrax Vaccination Immunization Program, 979
 - biological warfare reports, 745
 - Civilian-Military Contingency Hospital System, 1365
 - combat stress control policies, 1416, 1417
 - consequence management and, 1368
 - Contingency Pest Management Pocket Guide*, 1308
 - cooperative partnerships with other agencies, 750
 - "cradle to grave" medical surveillance, 1432
 - Ebola hemorrhagic fever outbreak in Zaire in 1994 and, 1345
 - environmental sampling, 1430
 - Federal Radiological Emergency Response Plan and, 1369
 - guidance for postdeployment screening for Bosnia (exhibit), 1436
 - hepatitis B immunization, 1187
 - influenza vaccine testing, 1128
 - investigation into Persian Gulf War illnesses, 1437
 - Joint Preventive Medicine Policy Group Character, 1438
 - Joint Task Force-Civil Support, 1368
 - "Military Support to Civil Authorities," 1371
 - National Disaster Medical System and, 1369
 - natural disaster response and, 1291
 - redeployment role, 1436–1438
 - Repellent System, 865, 878
 - Science and Technology Center and, 1346
 - Serum Repository, 790

- sexual contact reporting, 1153
- Streptococcus pyogenes* infection treatment and, 1122
- technological disasters and, 1341
- varicella vaccine administration policy, 1227
- water quality standards, 1303
- Department of Energy
 - Federal Radiological Emergency Response Plan and, 1369
 - Science and Technology Center and, 1346
- Department of Health and Human Services
 - Emergency Support Functions and, 1371
 - Metropolitan Medical Response System teams, 1368
 - National Disaster Medical System and, 1369
 - technological disasters and, 1341
- Department of Justice
 - Terrorism Incident Annex and, 1368
- Department of State
 - background data on populations in crisis, 1319
- Department of Transportation
 - specimen shipping regulations, 796
- Department of Veterans Affairs
 - Agent Orange exposure compensation, 1428
 - National Disaster Medical System and, 1369
 - redeployment role, 1438
 - technological disasters and, 1341
- Department of War
 - Board for the Investigation and Control of Influenza and Other Epidemic Diseases in the Army, 1119
- Deployment
 - See also* Infection control and prevention during military deployment; Medical issues in redeployment; Psychological aspects of deployment and reunion
 - commonly identified stressors, 1403
 - components of medical surveillance by the phase of deployment (table), 1435
 - coping strategies, 1407
 - description, 13997
 - effects on spouses, 1410–1411
 - passage of time during, 1404–1405
 - phases of, 1404
 - prior war zone experience and, 1406
 - stresses before the return home, 1407
 - stresses for women, 1405–1406
 - substance abuse and, 1407–1408
 - surveillance during, 1408–1409
- Depressive disorders
 - reunion after deployment and, 1409–1410
- Descriptive studies, 766–767
- Detection bias, 772
- Developing countries
 - See also specific countries*
 - amebiasis and, 1040, 1041
 - campylobacter enteritis and, 1009, 1010
 - complex disasters, 1273
 - cryptosporidium* and, 1046
 - Cyclospora* species infections and, 1047
 - enteropathogenic *Escherichia coli* and, 1007, 1008
 - enterotoxigenic *Escherichia coli* and, 1002, 1004
 - giardiasis and, 1042, 1043, 1044
 - gonorrhea and, 1159
 - hepatitis A and, 1184
 - malnutrition and, 1298–1299
 - measles and, 1216
 - nontyphoidal salmonellosis and, 1023
 - polio and, 1237
 - sexually transmitted diseases and, 1148, 1149
 - shigellosis and, 1025, 1027
 - technological disasters and, 1340
 - tetanus and, 1234
 - typhoid fever and, 1018
 - viral gastroenteritis and, 1011
- Dexamethasone
 - Japanese encephalitis treatment, 841
 - typhoid fever treatment, 1020
- DHF/DSS
 - See* Dengue hemorrhagic fever/dengue shock syndrome
- Diagnostic and Statistical Manual, 3rd Edition*, 1410
- Diarrhea
 - See also* Diseases transmitted by food, water, and soil; *specific diseases*
 - case management and, 1327–1328
 - complex emergencies and, 1327–1328
 - Escherichia coli* and, 1001–1009
 - food assistance programs and, 1390
 - outbreak surveillance example, 719–721
- Dichotomous variables, 759
- Diethylcarbamazine citrate
 - filariasis treatment, 885–886
 - loiasis treatment, 889
 - side effects, 885, 889
- Differential diagnoses
 - See also specific diseases and disorders*
 - outbreak investigation and, 726, 742
- Diiodohydroxyquin
 - amebiasis treatment, 1042
- Diloxanide furoate
 - amebiasis treatment, 1042
- Diphenoxylate
 - viral gastroenteritis treatment, 1017
- Diphenoxylate hydrochloride
 - cholera treatment, 1036
 - shigellosis treatment, 1029
- Diphtheria
 - complications, 1236
 - description, 1234
 - diagnostic approaches, 1236
 - differential diagnosis, 1236
 - epidemiology, 1235
 - geographic distribution, 1235
 - incidence, 1235
 - military relevance, 1234–1235
 - mortality rate, 1234
 - pathogen description, 1235
 - pathogenesis and clinical findings, 1235–1236
 - plague and, 882
 - therapy, 1236
 - transmission, 1235
 - vaccine, 1235, 1237
- Diphtheria equine antitoxin, 1236
- Diphtheria-tetanus-acellular pertussis vaccine, 1230, 1233
- Diphtheria-tetanus-pertussis vaccine, 1230, 1233, 1237
- Disaster Assistance Response Teams, 1359
- Disaster Medical Assistance Teams, 1369, 1371, 1372
- Disaster medicine
 - definition, 1272
- Disaster Mortuary Services Teams, 1371
- Disaster preparedness plans
 - early warning systems, 1294, 1297
 - evacuation routes, 1294–1295
- Disaster Relief Act of 1974, 1295
- Disasters
 - See also* Humanitarian assistance in the aftermath of disasters; *specific types of disasters*
 - definition of the term, 1339
- Disease and nonbattle injuries
 - impact on unit effectiveness, 709
 - unit health indicator, 709

- Disease and nonbattle injury surveillance
 - centralized analysis of force-wide data, 715
 - command emphasis, 710
 - feedback, 715–716, 717, 719
 - four-step cycle, 709
 - future directions, 721
 - individual epidemiologic investigations, 717
 - information flow chart, 710
 - inpatient surveillance systems, 716–719
 - medical infrastructure and, 710–711
 - medical personnel responsibilities, 709
 - outpatient level, 711–715
 - practical aspects, 710–716
 - specialized public health diagnostic laboratories, 717
 - U.S. Marine Corps forces in the Persian Gulf War, 719–721
 - weekly disease nonbattle injury situation report, 715–716, 718, 719
 - weekly DNBI report, 712, 714, 715
- Disease rate computation
 - incidence rate, 757–758
 - mortality rate, 758–759
 - prevalence rate, 757
- Diseases controlled primarily by vaccination
 - diphtheria, 1234–1237
 - measles, 1215–1218
 - mumps, 1220–1223
 - pertussis, 1227–1230
 - polio, 1237–1241
 - rubella, 1218–1220
 - tetanus, 1230–1234
 - varicella, 1223–1227
- Diseases spread by close personal contact
 - meningococcal disease, 1130–1137
 - respiratory pathogens, 1119–1130
 - sexually transmitted diseases and human immunodeficiency virus infection, 1146–1175
 - tuberculosis, 1138–1146
 - viral hepatitis, 1175–1188
- Diseases transmitted by food, water, and soil
 - See also* Foodborne disease; Waterborne disease
 - amebiasis, 1038–1042
 - Campylobacter* enteritis, 1008–1011
 - cholera, 1030–1038
 - coccidioidomycosis, 1069–1073
 - diarrhea caused by *Escherichia coli*, 1001–1008
 - enteric coccidia infections, 1045–1049
 - giardiasis, 1042–1045
 - helminths, 1050–1060
 - histoplasmosis, 1073–1078
 - meliodosis, 1078–1081
 - nontyphoidal salmonellosis, 1022–1025
 - schistosomiasis, 1060–1069
 - shigellosis, 1025–1030
 - typhoid fever, 1018–1022
 - viral gastroenteritis, 1011–1018
- Diseases transmitted primarily by arthropod vectors
 - dengue-like syndromes, 823–832
 - dengue virus infections, 814–823
 - ehrlichiosis, 866–868
 - equine encephalitides, 844–850
 - filariasis, 884–890
 - Japanese encephalitis, 717, 839–844
 - leishmaniases, 890–897
 - Lyme disease, 860–866
 - malaria, 712, 717, 805–814
 - natural disasters and, 1298
 - plague, 878–884
 - sandfly fever, 857–860
 - standard precautions and, 1264
 - tick-borne encephalitis, 850–857
 - trypanosomiasis, 897–901
 - typhus, 868–878
 - yellow fever, 832–839
- Diseases transmitted primarily from animals to humans
 - anthrax, 975–979
 - brucellosis, 979–983
 - hantaviruses, 943–947
 - leptospirosis, 939–943
 - Q fever, 953–956
 - rabies, 963–971
 - toxoplasmosis, 947–953
 - tularemia, 971–975
 - viral hemorrhagic fevers, 956–963
- Disinfection and sterilization, 1257
- Displaced persons
 - See also* Refugees
 - complex emergencies, refugee and internally displaced persons, 1983–1995 (figure), 1317
 - mortality rate, 1383
 - tuberculosis and, 1146
 - Weekly Surveillance Reporting Form for Refugees or Displaced Persons in a Complex Humanitarian Emergency (figure), 1322
- Disseminated intravascular coagulopathy, 1134
- DMATs
 - See* Disaster Medical Assistance Teams
- DNA
 - See* Gene probes; Nucleic acid-based detection methods
- DNBI
 - See* Disease and nonbattle injury surveillance
- Dobrava/Belgrade virus, 944
- Doerr, R., 857
- Dogs
 - See* Diseases transmitted primarily from animals to humans
- Domestic animals
 - See also* Diseases transmitted primarily from animals to humans
 - Rift Valley fever and, 826
- Domestic disaster response
 - See also* Humanitarian assistance in the aftermath of disasters
 - evolution of, 1365
 - examples of the system at work, 1372
 - Federal Emergency Management Agency, 1365–1367
 - Federal Response Plan, 1365, 1367–1369
 - future needs, 1372–1373
 - military's role, 1371, 1373
 - National Disaster Medical System, 1365, 1369–1372
- Donkeys
 - See* Equine encephalitides
- Donor-government aid agencies
 - European Community Humanitarian Office, 1359
 - Office of Foreign Disaster Assistance, 1291, 1321, 1359
- Donovan, Capt. Charles, 890
- Double sandwich IgM enzyme-linked immunosorbent assay
 - toxoplasmosis diagnosis, 951
- Doxycycline
 - anthrax treatment, 978, 979
 - brucellosis treatment, 982
 - chlamydia treatment, 1164
 - cholera treatment, 1036
 - ehrlichiosis treatment, 868
 - epidemic typhus fever treatment, 875
 - leptospirosis treatment, 942, 943
 - Lyme disease treatment, 864
 - malaria treatment, 806, 811, 813

- murine typhus fever treatment, 874
- scrub typhus treatment, 872
- side effects, 812
- spotted fever treatment, 878
- tetanus treatment, 1233
- tularemia treatment, 975
- Drinking water
 - See also* Waterborne disease
 - boiling recommendations, 1303–1304
 - complex emergencies and, 1328–1329
 - containers for, 1303, 1307
 - disinfection, 1303–1304, 1328–1329
 - emergency disinfection of small volumes of water (table), 1304
 - food assistance for emergency situations and, 1390
 - natural disasters and, 1303–1304
 - per-person needs, 1328
 - tent camps and, 1307
 - toxoplasmosis and, 952
 - tularemia and, 971
 - viral hepatitis and, 1178
- Droplet precautions, 1260–1262
- Drug abuse
 - See* Substance abuse
- Dry ice
 - specimen shipping and, 797, 799
- DS-IgM-ELISA
 - See* Double sandwich IgM enzyme-linked immunosorbent assay
- DTaP vaccine
 - See* Diphtheria-tetanus-acellular pertussis vaccine
- DTP vaccine
 - See* Diphtheria-tetanus-pertussis vaccine
- Dum-Dum fever
 - See* Leishmaniasis
- Dust control
 - natural disasters and, 1306
- Dustborne diseases
 - See* Diseases transmitted by food, water, and soil

E

- Early warning systems, 1278–1279, 1294, 1297
- Earthquakes
 - building techniques and materials and, 1302
 - description and impact, 1294
 - mortality rates, 1300
- Eastern equine encephalitis
 - See* Equine encephalitides
- Eaton, M.D., 1125
- Ebola hemorrhagic fevers
 - case definition for suspected Ebola hemorrhagic fever (exhibit), 1253
 - “epidemic” definition and, 727
 - epidemics of, 961
 - outbreak in Zaire in 1994, 1345–1346
 - transmission, 750
- ECHO
 - See* European Community Humanitarian Office
- Ecological studies
 - description, 766
- Eflornithine
 - African sleeping sickness treatment, 901
- EGRET software, 775
- Ehrlichiosis
 - co-infection with Lyme disease, 864
 - control, 868
 - diagnostic approaches, 867–868
 - epidemiology, 866–867
 - geographic distribution, 866, 867
 - human granulocytic, 866, 867–868
 - human monocytic, 866–867, 868
 - incidence, 867
 - military relevance, 866
 - pathogen description, 866
 - pathogenesis and clinical findings, 867–868
 - therapy, 868
 - transmission, 866, 867
- EIA
 - See* Enzyme-linked immunosorbent assay
- Electron microscopy
 - viral gastroenteritis diagnosis, 1011, 1015
- ELISA
 - See* Enzyme-linked immunosorbent assay
- Emergency Preparedness Mobilization Board
 - creation of, 1365
- Emergency Support Functions
 - American Red Cross and, 1369
 - assignment matrix: primary and secondary support responsibilities by agency under the Federal Response Plan (figure), 1370
 - health and medical, 1371
 - mass care, 1371
 - scope of responsibility: Emergency Support Function Number 8: health and medical services (exhibit), 1371
 - urban search and rescue, 1371
- Emergency Vector Control After Natural Disasters*, 1308
- Encephalitis
 - See* Equine encephalitides; Japanese encephalitis; Tick-borne encephalitis
- Encepur vaccine, 856–857
- Endocarditis
 - nontyphoidal salmonellosis and, 1024
- Entamoeba histolytica*
 - waterborne disease outbreaks and, 734
- Enteric coccidia infections
 - Cryptosporidium*, 1045–1047
 - Cyclospora* species, 1047–1049
 - Isospora belli*, 1049
- Enterohemorrhagic *Escherichia coli*
 - description, 1004
 - diagnostic approaches, 1006
 - differential diagnoses, 1005
 - epidemiology, 1005
 - military relevance, 1004
 - pathogen description, 1005
 - pathogenesis and clinical findings, 1005
 - therapy and control, 1006
- Enteroinvasive *Escherichia coli*, 1006–1007
- Enteropathogenic *Escherichia coli*, 1007–1008
- Enterotoxigenic *Escherichia coli*
 - complications, 1003
 - description, 1001
 - diagnostic approaches, 1003–1004
 - epidemiology, 1002–1003
 - geographic distribution, 1002
 - incidence, 1002
 - isolation rates among personnel on military deployments (1987–1993) (table), 1001
 - military relevance, 1001
 - pathogenesis and clinical findings, 1002–1003
 - therapy and control, 1004
 - transmission, 1002
- Environmental evaluations
 - outbreaks, 734–735

- Environmental factors in operational stress
 - description, 1398
 - environmental stresses and mitigating factors (table), 1399
 - Operation Joint Endeavor, Bosnia, 1402
 - Operation Uphold Democracy, Haiti, 1401
 - Persian Gulf War, 1400
 - Somalia operations, 1400
- Environmental Protection Agency
 - cooperative partnerships with other agencies, 750
 - Federal Radiological Emergency Response Plan and, 1369
- Enzyme-linked immunosorbent assay
 - adenovirus diagnosis, 1129
 - antibody detection, 790
 - brucellosis diagnosis, 982
 - equine encephalitides diagnosis, 848–849
 - giardiasis diagnosis, 1044
 - helminth diagnosis, 1058
 - HIV-1 diagnosis, 791
 - human immunodeficiency virus diagnosis, 1171
 - Japanese encephalitis diagnosis, 841
 - Lassa fever diagnosis, 959
 - leishmaniasis diagnosis, 896
 - Lyme disease diagnosis, 864
 - melioidosis diagnosis, 1080
 - microbial antigens, 789
 - mumps diagnosis, 1222
 - murine typhus fever diagnosis, 874
 - Mycoplasma pneumoniae* infection diagnosis, 1126
 - Q fever diagnosis, 956
 - rubella diagnosis, 1220
 - sandfly fever diagnosis, 860
 - scrub typhus diagnosis, 871
 - sexually transmitted disease diagnosis, 1151
 - shigellosis diagnosis, 1028
 - tuberculosis diagnosis, 1141
 - tularemia diagnosis, 974
 - varicella diagnosis, 1226
 - viral gastroenteritis diagnosis, 1015
 - viral hepatitis diagnosis, 1182
 - yellow fever diagnosis, 837
- Epi Info* database, 1383
- EPICON
 - See Epidemiologic Consultant Service
- Epidemic polyarthritis
 - See Ross River disease
- Epidemic typhus fever
 - description, 874
 - diagnostic approaches, 875
 - epidemiology, 874–875
 - geographic distribution, 875
 - incidence, 875
 - military relevance, 874
 - mortality rate, 874, 875
 - pathogen description, 874
 - pathogenesis and clinical findings, 875
 - prevention and control, 875–876
 - therapy, 875
 - transmission, 874–875
 - vaccine, 874, 876
- Epidemics
 - See Outbreak investigation; *specific diseases*
- Epidemiologic assessment teams, 1297
- Epidemiologic Consultant Service
 - outbreak investigation, 745
- Epidemiologic measurement
 - bias, 772–775
 - cause-and-effect relationships, 780
 - data display methods, 760–762
 - environmental factors, 757
 - epidemiology definition, 757
 - hypothesis testing, 775–779
 - rate adjustment, 759
 - rate of disease, 757–759
 - sampling, 762–766
 - statistical associations, 779–780
 - study designs and measures of association, 766–772
 - variables, 759–760
- Equine encephalitides
 - control, 849–850
 - diagnostic approaches, 848–849
 - epidemiology, 845–847
 - geographic distribution, 844, 847
 - incidence, 847
 - military relevance, 844
 - pathogen description, 845
 - pathogenesis and clinical findings, 847–848
 - therapy, 849
 - transmission, 845–847
 - types, 844
 - vaccines, 849
- Erythromycin
 - anthrax treatment, 978
 - campylobacter enteritis treatment, 1010
 - cholera treatment, 1036, 1037
 - diphtheria treatment, 1236
 - leptospirosis treatment, 942
 - pertussis treatment, 1230
 - respiratory disease treatment, 1119
 - Streptococcus pyogenes* infection treatment, 1122
- Escherichia coli*
 - bacterial enteropathogens identified in stool samples from
 - 432 US military personnel with acute gastroenteritis during Operation Desert Shield (table), 1002
 - diarrhea caused by, 1001–1009
 - enterohemorrhagic, 1004–1006
 - enteroinvasive, 1006–1007
 - enteropathogenic, 1007–1008
 - enterotoxigenic, 1001–1004
 - outbreak traceback, 740–741
 - weekly rates of gastroenteritis among 40,000 Marine Corps ground troops stationed in northeast Saudi Arabia in 1990 and 1991 (graph), 1003
- ESFs
 - See Emergency Support Functions
- Espundia
 - See Leishmaniasis
- Ethambutol
 - side effects, 1143
 - tuberculosis treatment, 1143
- Europe
 - anthrax and, 976
 - brucellosis and, 980
 - campylobacter enteritis, 1009
 - cholera and, 1033
 - ehrlichiosis and, 867
 - enterohemorrhagic *Escherichia coli* and, 1004
 - epidemic typhus fever and, 875
 - gonorrhea and, 1159
 - hantaviruses and, 943
 - helminths and, 1055–1056
 - Lyme disease and, 863
 - melioidosis and, 1079
 - Q fever and, 953
 - rabies and, 965

- sandfly fever and, 858–859
- spotted fever and, 876
- tick-borne encephalitis and, 851, 853, 855
- toxoplasmosis and, 949
- tularemia and, 972
- viral gastroenteritis and, 1013
- European Community Humanitarian Office, 1359
- Experimental studies, 771–772, 779
- Exposed group attributable risk, 770–771

F

- Facility-acquired or nosocomial infections
 - infection control and, 1252
- Famciclovir
 - hepatitis B treatment, 1183
- Family support groups, 1411
- Far Eastern encephalitis, 851, 854
- Far Eastern hemorrhagic fever with renal syndrome
 - See* Hemorrhagic fever with renal syndrome
- FBI
 - See* Federal Bureau of Investigation
- FDA
 - See* Food and Drug Administration
- Fecal specimens
 - collection methods (table), 793
 - parasitic infection and, 794
 - slide preparation, 795
- Federal Bureau of Investigation
 - biological warfare reports, 745
 - terrorism and, 1346
 - Terrorism Incident Annex and, 1368
- Federal Disaster Response Plan, 1277, 1282, 1341
- Federal Emergency Management Agency
 - See also* Federal Response Plan
 - biological warfare reports, 745
 - Emergency Response Team organization (figure), 1367
 - establishment, 1365
 - Federal Coordinating Officer, 1365
 - Hazard Mitigation Program, 1366
 - home page, 1281
 - Individual Assistance Program, 1366
 - National Disaster Medical System and, 1369
 - Public Assistance Program, 1366
 - responsibilities, 1365, 1367
 - sequence of actions taken to establish response activities
 - on the regional and national levels (figure), 1366
 - technological disasters and, 1341
- Federal Radiological Emergency Response Plan, 1368–1369
 - responsibilities, 1368–1369
 - Stafford Act and, 1369
- Federal Response Plan
 - consequence management, 1368
 - Emergency Support Functions, 1369, 1370, 1371
 - Federal Radiological Emergency Response Plan, 1368–1369
 - implementing, 1369
 - scope, 1367–1368
 - Terrorism Incident Annex, 1368
- Feed the Children
 - food program, 1330
- Feedback
 - disease and nonbattle injury surveillance, 715–716, 717, 719
- Fevers
 - See also specific diseases and disorders*
 - unexplained fevers, 712, 717, 817
- FHP
 - See* Force Health Protection

- Fibromyalgia
 - Lyme disease and, 863, 864
- Filariasis
 - bancroftian, 884–886
 - loiasis, 888–889
 - malayan and timorian, 886–887
 - military impact, 884
 - onchocerciasis, 887–888
 - streptocerciasis, 889
- Filovirus hemorrhagic fevers, 961–962
- Findlay, Dr. Carlos, 832
- Fisher's Exact Test
 - outbreak investigation, 740, 747
- Fleas
 - See also* Diseases transmitted primarily by arthropod vectors
- Flies
 - See also* Diseases transmitted primarily by arthropod vectors; Diseases transmitted primarily from animals to humans
- Floods
 - description and impact, 1292, 1294
 - long-term illnesses and, 1299–1300
 - mortality rates, 1300–1301
- Fluconazole
 - coccidioidomycosis treatment, 1073
- Flukes
 - See* Trematodes
- Fluorescent treponemal antibody absorbed test
 - syphilis diagnosis, 1171
- Fluoroquinolones
 - anthrax treatment, 978
 - enterotoxigenic *Escherichia coli* treatment, 1004
 - nontyphoidal salmonellosis treatment, 1024
 - Q fever treatment, 956
 - typhoid fever treatment, 1020
- Follow-up studies
 - See* Cohort studies
- Food and Drug Administration
 - cooperative partnerships with other agencies, 750
 - diagnostic assay approval, 791
 - "female condom" approval, 1158
 - ground meat cooking procedure guidelines, 1006
 - Investigational Device Exemption, 791–792
 - Lyme disease vaccines, 866
 - medical device approval, 791–792
 - pertussis vaccines, 1230
 - rabies vaccines, 968–969
 - tick-borne encephalitis vaccines and, 857
- Food assistance programs for emergency situations
 - distribution site inspection, 1390
 - energy requirements, 1386–1387
 - food diversion and, 1389–1390
 - general food distributions, 1386
 - general guidelines for implementing nutritional assistance programs (figure), 1387
 - humanitarian rations, 1387–1389
 - issues with, 1389–1390
 - levels of energy-providing nutrients in humanitarian rations (table), 1388
 - levels of vitamins and minerals necessary to meet the requirements for humanitarian rations (table), 1388
 - military role, 1384–1385
 - one day's sample menu for the Humanitarian Daily Ration (exhibit), 1389
 - onsite feeding programs, 1386
 - rationing of food, 1390

safe water supply and, 1390
 selective feeding programs, 1386, 1389
 suitability of rations, 1388
 supplemental feeding programs, 1329, 1386

Food sanitation
 natural disasters and, 1307

Food service
See also Foodborne disease
 diarrhea outbreak surveillance example, 719–721

Food supplies
See also Food assistance programs for emergency situations
 complex emergencies and, 1329–1330
 logistical problems, 1329
 supplemental feeding programs, 1329

Foodborne disease
See also Dairy products; Diseases transmitted by food,
 water, and soil; *specific diseases*
 attack rates, 731, 746–747
 bacterial outbreaks, 736–737
 brucellosis, 983
 CDC guidelines for confirmation of, 736–739
 chemical outbreaks, 738
 environmental evaluations, 734–735
 Meals Ready to Eat and, 734–735
 natural disasters and, 1298
 outbreak investigation, 732–733, 734–735
 parasitic and viral, 739
 questionnaire for outbreak investigation, 743–744
 storage time and, 735
 terrorism or sabotage and, 741–742
 tick-borne encephalitis, 850, 852
 tularemia, 971

Force Health Protection
 current doctrine, 709

Foreign Assistance Act of 1961, 1359

Fort Knox
 campylobacteriosis outbreak investigation, 734

Franz, K., 857

French Neurotropic Vaccine
 yellow fever, 838

Frequency matching, 774

FRERP
See Federal Radiological Emergency Response Plan

FRP
See Federal Response Plan

FSME-Immun vaccine, 856, 857

FTA-ABS
See Fluorescent treponemal antibody absorbed test

Furazolidone
 cholera treatment, 1036
 giardiasis treatment, 1044

G

Gallerano, R.H., 898

Ganciclovir
 hepatitis B treatment, 1183

Garbage disposal
 natural disasters and, 1305–1306

Gaydos, J.C., 1281

Gender factors
 condom use, 1158
 hepatitis C, 1180
 histoplasmosis, 1074, 1076
 lymphogranuloma venereum, 1173

Gene probes
See also Nucleic acid-based detection methods

cholera diagnosis, 1034
 description, 789–790
 enteropathogenic *Escherichia coli* diagnosis, 1008
 sexually transmitted disease diagnosis, 1151
 shigellosis diagnosis, 1028
 tuberculosis diagnosis, 1141
 viral gastroenteritis diagnosis, 1011

General Accounting Office
 Hurricane Andrew and, 1372

Geneva Conventions, 1281
 International Committee of the Red Cross and, 1356

Genital herpes
 diagnostic approaches, 1167
 epidemiology, 1166–1167
 pathogenesis and clinical findings, 1167
 therapy and control, 1167–1168
 treatment (exhibit), 1168

Genital warts, 1173

Gentamicin
 brucellosis treatment, 982
 tularemia treatment, 974

German measles
See Rubella

Giardia lamblia
 waterborne disease outbreaks and, 734

Giardiasis
 clinical findings, 1044
 control, 1045
 diagnostic approaches, 1044
 epidemiology, 1043
 geographic distribution, 1043
 incidence, 1043
 military relevance, 1042
 natural disasters and, 1298
 pathogen description, 1043
 pathogenesis, 1043–1044
 percentage of patients with giardiasis who have specific
 symptoms and signs of giardiasis (table), 1044
 therapy, 1044–1045
 transmission, 1043

Gladden, General, 1230–1231

Glandular tularemia, 973

Glomerulonephritis
Streptococcus pyogenes infection and, 1121

Gloves
 use in infection control and prevention, 1258–1259, 1263, 1265

Goma (Zaire) Epidemiology Group
 Rwanda refugee crisis and, 1279–1280

Gonococcal pharyngitis, 1163

Gonorrhea
 cotreatment of chlamydia, 1160–1161
 criteria for the diagnosis of gonococcal urethritis (exhibit),
 1160
 diagnostic approaches, 1159–1160
 epidemiology, 1159
 pathogen description, 1159
 pathogenesis and clinical findings, 1159
 therapy, 1159, 1160–1161
 treatment failures, 1161–1163
 treatment of urethritis and gonococcal or chlamydia
 proctitis in men (exhibit), 1161
 treatment of urethritis and gonococcal or chlamydia
 proctitis in women (exhibit), 1162

Gorgas, Maj. William
 yellow fever and, 833

Gowns
 use in infection control and prevention, 1259, 1263, 1265

G6PD deficiency
 primaquine and, 813
 Gram's stain
 gonorrhea diagnosis, 1159–1160
 meningococcal disease diagnosis, 1135
 sexually transmitted disease diagnosis, 1151
 Graphs
 labeling, 760
 types, 761–762
 x- and y-axes, 760
 Guillain-Barré syndrome
 campylobacter enteritis and, 1010
 polio and, 1240
 “Gulf War Syndrome”
 case definition and, 726

H

Hansch, S., 1384
 Hantaan virus, 943
 Hantavirus pulmonary syndrome
 description, 945
 geographic distribution, 944
 therapy, 946–947
 typical clinical and laboratory features (table), 946
 Hantaviruses
 See also Hemorrhagic fever with renal syndrome
 control, 947
 diagnostic approaches, 945–946
 differential diagnoses, 946
 epidemiology, 943–944
 incidence, 944
 measures to minimize exposure to rodents in hantavirus-
 endemic areas (exhibit), 947
 military relevance, 943
 mortality rate, 945
 pathogen description, 943
 pathogenesis and clinical findings, 944–945
 transmission, 943–944
 Hart, G., 1149
 Hazardous waste disposal
 natural disasters and, 1306
 Health and Nutrition Examination Survey
 tetanus incidence, 1231
 Healthy worker effect, 772
Helicobacter pylori infection
 cross-sectional study, 767
 Helminths
 cestodes, 1052, 1054–1055, 1057
 control, 1059–1060
 diagnostic approaches, 1058
 epidemiology, 1052–1055
 geographic distribution and incidence, 1055–1056
 helminths transmitted by food, water, and soil (table),
 1051–1052
 military relevance, 1050
 nematodes, 1052, 1053–1054, 1056–1057
 pathogen description, 1050, 1052
 pathogenesis and clinical findings, 1056–1058
 therapy, 1058–1059
 transmission, 1052–1055
 trematodes, 1052, 1055, 1057–1058
 Hemolytic-uremic syndrome
 enterohemorrhagic *Escherichia coli* and, 1005
 shigellosis and, 1028
 Hemorrhagic fever with renal syndrome
 See also Hantaviruses

 inpatient surveillance, 716
 nonspecific fever presentation, 712, 717
 therapy, 946
 typical clinical and laboratory characteristics (table), 945
 Hemorrhagic Rift Valley fever, 826
 Heparin
 yellow fever treatment, 837
 Hepatitis A
 attack rates, 740
 candidates for hepatitis A immunization (exhibit), 1186
 CDC guidelines for confirmation of foodborne disease
 outbreaks, 739
 control and prevention, 730, 1184–1185
 foodborne and waterborne outbreaks, 1184–1185
 imported strawberries and raspberries and, 741, 746, 748
 inpatient surveillance, 716
 pathogen description, 1176
 pathogenesis and clinical findings, 1179–1180
 therapy, 1182
 transmission, 1177–1178
 treatment, 1176
 vaccine, 1184, 1185, 1186
 Hepatitis B
 candidates for hepatitis B immunization (exhibit), 1187
 control and prevention, 1185–1187
 diagnostic information, 1188
 infection control and prevention and, 1254
 pathogen description, 1176
 pathogenesis and clinical findings, 1180
 therapy, 1183, 1188
 transmission, 1178–1179
 vaccines, 1186–1187
 Hepatitis C
 control and prevention, 1187–1188
 pathogen description, 1176
 pathogenesis and clinical findings, 1180
 therapy, 1188
 transmission, 1178–1179
 Hepatitis D
 control and prevention, 1188
 pathogen description, 1176
 pathogenesis and clinical findings, 1180
 transmission, 1178–1179
 Hepatitis E
 control and prevention, 1188
 inpatient surveillance, 716
 pathogen description, 1176–1177
 pathogenesis and clinical findings, 1180–1181
 transmission, 1177–1178
 Hepatitis F
 pathogen description, 1177
 Hepatitis G
 pathogen description, 1177
 Heroin use
 Vietnam War and, 1407–1408
 HFRS
 See Hemorrhagic fever with renal syndrome
 HGE
 See Human granulocytic ehrlichiosis
 Hillman, M.R., 1129
 Hippocrates
 environment association with disease, 757
 Histograms, 761, 763
 Histoplasmosis
 acute pulmonary, 1075–1076
 chronic, 1076
 description, 1073–1074

- differential diagnoses, 1076
 - military relevance, 1074
 - mortality rate, 1074
 - Historical cohort studies, 769
 - HIV
 - See* Human immunodeficiency virus infection
 - HME
 - See* Human monocytic ehrlichiosis
 - Hodgkin's lymphoma
 - histoplasmosis and, 1076
 - Hoffman, S.L., 1020
 - Holmes, K.K., 1148
 - Home, Francis, 1215
 - Homecoming. *See* Reunion
 - Hook, E.W., 1156
 - Hookworms
 - See* Nematodes
 - Horses
 - See* Equine encephalitides
 - Hospitalization
 - See also* Facility-acquired or nosocomial infections;
 - Inpatient-level disease and nonbattle injury surveillance
 - dengue virus infections, 823
 - hantaviruses, 946
 - Housekeeping operations, 1256–1257
 - HPS
 - See* Hantavirus pulmonary syndrome
 - HTLV-I
 - See* Human t-cell lymphotropic virus type I
 - Hughes, M.L., 980
 - Human granulocytic ehrlichiosis, 866, 867–868
 - Human immunodeficiency virus infection
 - See also* Acquired immunodeficiency syndrome; Sexually transmitted diseases
 - basic and expanded HIV postexposure prophylaxis regimens (table), 1255
 - coccidioidomycosis and, 1071
 - Cyclospora* species infections and, 1047, 1049
 - diagnostic approaches, 791, 1172
 - epidemiology, 1171–1172
 - infection control and prevention and, 1251, 1254
 - meningococcal disease and, 1134
 - partner notification, 1172
 - pathogen description, 1171
 - pathogenesis and clinical findings, 1172
 - polio and, 1240–1241
 - risk factors, 1171
 - rubella and, 1220
 - streptococcal toxic shock syndrome and, 1130
 - therapy and control, 1172–1173
 - toxoplasmosis and, 947, 951
 - tuberculosis and, 1145, 1146
 - what to tell the patient about a positive HIV test (exhibit), 1173
 - Human leukocyte interferon
 - rabies treatment, 966
 - Human monocytic ehrlichiosis, 866–867, 868
 - Human rabies immunoglobulin
 - rabies and, 966
 - Human rights abuses, 1273, 1281, 1326
 - Human t-cell lymphotropic virus type I
 - helminth infection and, 1056
 - Human waste disposal
 - natural disasters and, 1304–1305
 - Humanitarian assistance in the aftermath of disasters. *See also* International humanitarian response system
 - alternative approaches, 1278–1279
 - assessing and responding to disasters, 1276
 - categories of disasters (table), 1272
 - challenges in disaster relief, 1278–1281
 - complex disasters, 1272, 1273–1274
 - consequences of disasters, 1275–1276
 - cost-effectiveness of relief efforts, 1280
 - “disaster” definitions, 1271
 - disasters and disaster medicine, 1071–1072
 - improved emergency response, 1279–1280
 - inappropriate relief supplies, 1276, 1280
 - information technologies and, 1281
 - international humanitarian law, 1281
 - land mines, laser weapons, and terrorists, 1271–1272, 1280
 - military involvement, 1281–1282
 - multi-disciplinary approach, 1281
 - natural disasters, 1273
 - need for research, 1280
 - prevention paradigm applied to disasters (exhibit), 1278
 - preventive medicine in disasters, 1272–1273
 - progress in disaster response, 1276–1277
 - selected US military disaster operations from 1990 through 1996 (table), 1271
 - strategic planning and coordination and, 1279
 - technological disasters, 1274
 - violence and, 1273, 1279
 - vulnerable populations, 1280–1281
 - Humanitarian Assistance Survey Teams, 1292, 1321
 - Humanitarian Daily Rations, 1388
 - Humanitarian Pouched Meals, 1388–1389
 - Humanitarian rations, 1388–1389
 - Hurricane Andrew
 - domestic disaster response example, 1372
 - Hurricane Hugo
 - domestic disaster response example, 1372
 - Hurricane Iniki
 - domestic disaster response example, 1372
 - Hurricanes
 - See* Windstorms; *specific storms*
 - Hypothesis testing
 - alternative hypotheses, 775–776
 - confidence interval, 777–778
 - elements, 775–776
 - example, 776
 - Mantel-Haenszel chi-square test statistic, 778–779
 - null hypotheses, 775
 - outbreak investigation, 746–749
 - p* value, 776, 778
 - sample size and power calculations, 779
 - statistical significance *versus* clinical significance, 779
 - steps, 776
- ## I
- IDE
 - See* Investigational Device Exemption
 - IFA
 - See* Indirect fluorescent antibody assay
 - IgA antibodies
 - laboratory detection, 790
 - IgG
 - dengue virus infections and, 821
 - laboratory detection, 790
 - IgM
 - dengue virus infections and, 821
 - laboratory detection, 790
 - IIP
 - See* Immunoperoxidase assay

- IMB model
 - See Information, Motivation, and Behavioral Skills behavior model
- Imipenem
 - tularemia treatment, 974–975
- Immune globulin
 - enterohemorrhagic *Escherichia coli* treatment, 1006
 - hepatitis A treatment, 730, 1176, 1184
- Immunization
 - See Diseases controlled primarily by vaccination; Vaccines
- Immunocompromised persons
 - coccidioidomycosis and, 1071, 1072, 1073
 - histoplasmosis and, 1076
 - measles and, 1217
 - meliodosis and, 1080
 - nontyphoidal salmonellosis and, 1024
 - rubella and, 1220
 - toxoplasmosis and, 947, 951
 - varicella and, 1224–1225, 1226
 - viral gastroenteritis and, 1015–1016
- Immunofluorescence
 - Chlamydia pneumoniae* infection diagnosis, 1127
 - giardiasis diagnosis, 1044
 - microbial antigens, 789
- Immunoperoxidase assay
 - scrub typhus diagnosis, 871
- Imported malaria, 808
- Inactivated polio vaccine, 1240
- Incidence density rate computation, 758
- Incidence rate ratio
 - cohort studies and, 770
- Incidence rates
 - See also specific diseases and disorders
 - computation, 757–758
 - rate adjustment, 759
- Incidence studies
 - See Cohort studies
- India
 - Bhopal chemical accident, 1274, 1340
 - chikungunya and, 827
 - cholera and, 1030–1031
 - Japanese encephalitis and, 840
 - malaria and, 808
 - rabies and, 965
 - scrub typhus and, 869
 - tick-borne encephalitis and, 852, 855
- India-Pakistan war
 - refugee crisis, 1272
- Indirect fluorescent antibody assay
 - epidemic typhus fever diagnosis, 875
 - murine typhus fever diagnosis, 873
 - Q fever diagnosis, 956
 - scrub typhus diagnosis, 871
 - spotted fever diagnosis, 877
 - toxoplasmosis diagnosis, 951
- Industrial accidents
 - See Technological disasters
- Industrialized countries
 - See also specific countries
 - campylobacter enteritis and, 1009
 - enterotoxigenic *Escherichia coli* and, 1002
 - nontyphoidal salmonellosis and, 1023
 - sexually transmitted diseases and, 1148
 - shigellosis and, 1027
 - viral gastroenteritis and, 1013
- Infants and children
 - amebiasis and, 1040, 1042
 - anthropometric measures, 1379–1380, 1389
 - campylobacter enteritis and, 1009
 - cholera and, 1034, 1036, 1037
 - complex emergencies and, 1324–1325, 1326
 - Cyclospora* species infections and, 1048
 - dengue virus infections, 819, 820–821
 - diphtheria and, 1237
 - disasters and, 1281, 1324–1325, 1326
 - enterohemorrhagic *Escherichia coli* and, 1005
 - enterotoxigenic *Escherichia coli* and, 1002, 1003, 1004
 - equine encephalitides and, 848
 - feeding programs, 1386, 1389
 - fluoroquinolones and, 1020
 - giardiasis and, 1043, 1044
 - Japanese encephalitis and, 840, 841
 - malaria and, 808, 809
 - malnutrition and, 1324–1325, 1377, 1380–1382
 - measles and, 1215, 1216–1217
 - meningococcal disease and, 1131, 1137
 - mumps and, 1220, 1221, 1222
 - nontyphoidal salmonellosis and, 1024
 - nutritional assessment, 1379–1380
 - pertussis and, 1227, 1228, 1229
 - polio and, 1237, 1238, 1240
 - psychological effects of predeployment, deployment, and reunion of family members, 1412, 1418, 1419
 - rotaviruses and, 1013–1014
 - rubella and, 1218–1219
 - shigellosis and, 1027–1028
 - South American hemorrhagic fevers and, 960
 - tetanus and, 1232
 - tick-borne encephalitis and, 856
 - toxoplasmosis and, 947, 950–951
 - tuberculosis and, 1141, 1145–1146
 - tularemia and, 974
 - typhoid fever and, 1019
 - varicella and, 1224, 1226, 1227
 - viral gastroenteritis and, 1011, 1012
 - viral hepatitis and, 1177, 1179, 1184, 1185
 - wasting and, 1324–1325, 1380
 - West Nile fever and, 831
 - yellow fever and, 835
 - yellow fever vaccination and, 838
- Infection control and prevention during military deployment
 - See also specific infections and diseases
 - basic and expanded HIV postexposure prophylaxis regimens (table), 1255
 - cadaver handling, 1265
 - case definition for suspected Ebola hemorrhagic fever (exhibit), 1253
 - case definition for suspected Lassa fever (exhibit), 1254
 - challenges, 1251
 - clinical syndromes or conditions warranting additional empiric precautions to prevent transmission of epidemiologically important pathogens pending confirmation of diagnosis (table), 1262
 - disinfection and sterilization, 1256
 - facility-acquired or nosocomial infections, 1252
 - future research needs, 1265
 - handling of linen, sharps, specimens, and terminal cleaning, 1264–1265
 - infection control committee, 1252–1253
 - isolation procedures, 1257–1264
 - key elements of standard precautions (exhibit), 1258
 - occupational health for health care workers, 1254–1255
 - program elements, 1251–1252
 - sanitary practices, 1255–1257
 - surveillance, 1253–1254
 - synopsis of types of precautions and patients requiring the

- precautions (exhibit), 1260
 - three levels of, 1255–1264
 - types and duration of precautions needed for selected infections and conditions (table), 1261
 - vector-borne disease containment, 1264
 - Infection control committees
 - educational focus, 1252–1253
 - key functions, 1252
 - Infectious diseases
 - See also specific diseases*
 - prophylactic medication compliance and, 1414
 - redeployment and, 1428
 - Influenza
 - mortality rate, 1128
 - pandemics, 1428
 - pathogen description, 1127–1128
 - pathogenesis and clinical findings, 1128
 - therapy and control, 1128
 - Information, Motivation, and Behavioral Skills behavior model, 1155
 - Information bias
 - types, 772
 - Information technologies
 - disaster relief and, 1281
 - Inpatient-level disease and nonbattle injury surveillance
 - data sources, 716–717
 - diseases requiring inpatient settings, 716
 - feedback, 717, 719
 - immediate reporting system, 716–717
 - individual epidemiologic investigations, 717
 - patterns of illness or injury, 717
 - specialized public health laboratories, 717
 - Insect repellents
 - See also specific repellents*
 - uniforms, 868, 871–872, 875, 896
 - Insects
 - See also Diseases transmitted primarily by arthropod vectors*
 - Institute of Medicine
 - Agent Orange exposure report, 1428
 - Institutional Review Board
 - interviews and, 745
 - Investigational Device Exemption and, 792
 - Interferon alpha
 - Rift Valley fever treatment, 826
 - viral hepatitis treatment, 1183
 - Interferon gamma
 - yellow fever treatment, 837
 - International Air Transport Association
 - Dangerous Goods Regulations, 796–797
 - International Commission for the Certification of Poliomyelitis Eradication in the Americas, 1239
 - International Committee of the Red Cross
 - See also American Red Cross*
 - disaster planning, 1279
 - food program, 1330
 - founding, 1355
 - funding sources, 1356
 - mission, 1356
 - prisoners of war and detainees and, 1331
 - public health needs in complex emergencies guide, 1318
 - relationship with the International Federation of Red Cross and Red Crescent Societies, 1355–1356
 - relief workers killed, 1279
 - size of, 1355
 - staffing, 1356
 - Swiss operation of, 1356
 - war-wounded and their management during complex emergencies, 1326
 - International humanitarian law, 1281, 1331, 1356
 - International humanitarian response system
 - civil affairs and, 1360
 - coordination and cooperation among, 1359–1361
 - donor-government aid agencies, 1359
 - increase in complex emergencies and, 1353
 - International Committee of the Red Cross, 1355–1356
 - leadership issues, 1360
 - military's capabilities and, 1360–1361
 - private voluntary organizations, 1353–1355
 - United Nations, 1357–1359
 - International reference laboratories, 785, 787
 - Interviewer bias, 772
 - Interviews
 - additional studies and analysis needs and, 748
 - environmental evaluation of foodborne or waterborne outbreaks, 735
 - Institutional Review Board and, 745
 - questionnaires for risk factor interviews, 742–745
 - Intestinal flukes
 - See Trematodes*
 - Investigational Device Exemption, 791–792
 - Investigative teams
 - areas of responsibility, 730
 - composition, 728
 - logistical plans and management, 728–730
 - IPV
 - See Inactivated polio vaccine*
 - IRR
 - See Incidence rate ratio*
 - Isolation of patients
 - See also Quarantine*
 - CDC recommendations, 1257–1263
 - high-containment isolation, 1263
 - movement and transportation of patients and, 1264
 - patient placement, 1263
 - personal protection measures, 1263–1264
 - standard precautions, 1258–1259
 - transmission-based precautions, 1259–1263
 - tuberculosis and, 1143
 - Isoniazid
 - contraindications, 1144–1145
 - side effects, 1143
 - tuberculosis treatment, 1143, 1144
 - Isoprinosine
 - rabies treatment, 966
 - Isospora belli* infections, 1049
 - Israel
 - West Nile fever and, 830
 - Itraconazole
 - coccidioidomycosis treatment, 1072–1073
 - histoplasmosis treatment, 1077
 - Ivermectin
 - bancroftian filariasis treatment, 885, 886
 - helminth infection treatment, 1059
 - Mazotti-type reaction, 888
 - onchocerciasis treatment, 888
- ## J
- Japan
 - biological warfare experiments with plague, 879
 - sarin attack on the Tokyo subway system, 742, 1274, 1345
 - Japanese encephalitis
 - asymptomatic infection, 840–841
 - diagnostic approaches, 841
 - differential diagnosis (table), 842
 - epidemiology, 840

- geographic distribution and incidence, 840
- indications for vaccination, 843–844
- military history, 839
- nonspecific symptom presentation, 717
- pathogen description, 839–840
- pathogenesis and clinical findings, 840–841
- prevention and control, 842–843
- therapy, 841–842
- transmission, 840, 843
- vaccine, 839, 843–844
- Jarisch-Herxheimer reaction
 - leptospirosis and, 942
 - Lyme disease and, 865
- Jaundice
 - See* Viral hepatitis
- JE
 - See* Japanese encephalitis
- Judgmental sampling, 762
- Jungle Operations Training Center, Panama
 - leishmaniasis and, 891–892
 - leptospirosis and, 939, 940, 942
 - toxoplasmosis and, 951
- Junin virus, 960, 961
- Justinian plague, 878

K

- Kahn, H.A., 759, 774
- Kala-azar
 - See* Leishmaniasis
- Kanamycin
 - melioidosis treatment, 1081
- Katayama fever
 - See* Schistosomiasis
- Ketoconazole
 - histoplasmosis treatment, 1077
- Korean War
 - hantaviruses and, 943
 - malaria and, 808
 - psychological aspects of deployment and reunion, 1397
 - tuberculosis and, 1138
 - viral hepatitis and, 1175
- Koshes, R.J., 1417
- Kurdish crisis
 - relief efforts, 1276, 1282, 1321, 1359
- Kurdistan
 - PVO relief efforts, 1353
- Kwashiorkor, 1380, 1384
- Kyasanur Forest disease, 852, 855

L

- Laboratories
 - See also* Laboratory support for infectious disease investigations
 - Army and Navy infectious disease research laboratories, 785, 786
 - inpatient-level disease and nonbattle injury surveillance and, 717
 - international reference laboratories, 785, 787
 - redeployment medical plans and, 1431
 - technological disasters and, 1342–1343
- Laboratory diagnosis of infection
 - antibody or microorganism detection, 790
 - appropriate specimen choice, 785, 788
 - causes of error in the interpretation of laboratory tests (table), 792
 - detection of microbial antigens or products, 788–789
 - detection of microbial components or products, 787–790

- diagnostic and reporting issues, 790–792
- identification of causative organism importance, 785
- interpretation of tests, 791–792
- isolation and culture of microorganisms, 786–787
- microbial gene detection, 789–790
- microscopic inspection of microorganisms, 786, 789
- positive predictive value of tests, 791
- sensitivity and specificity of tests, 791
- serological evidence of recent infection (table), 790
- use of visualization and other techniques for laboratory examinations (table), 789
- Laboratory support for infectious disease investigations
 - Army and Navy infectious disease research laboratories, 785, 786
 - international reference laboratories, 785, 787
 - laboratory diagnosis of infection, 785–792
 - specimen collection, handling, and storage, 792–796
 - specimen shipping, 796–799
 - study considerations, 785
- Lackland Air Force Base
 - varicella virus outbreaks at the Defense Language Institute, 731
- Lamivudine
 - hepatitis B treatment, 1183, 1188
- Land mines, 1271–1272, 1280, 1326
- Landslides, 1294, 1300–1301
- Lange, J., 1411
- Laser weapons, 1280
- Lassa fever, 959–960
 - case definition for suspected Lassa fever (exhibit), 1254
- Last, J.M.
 - “epidemic” definition, 727
- Latex agglutination
 - antibody detection, 790
 - melioidosis diagnosis, 1080
 - microbial antigens, 789
- Latrines
 - natural disasters and, 1304–1305
 - types and characteristics of latrines suitable for disaster relief operations (table), 1305
- Law of War, 1331
- LCR
 - See* Ligase chain reaction
- Lechat, Dr. Michael, 1276
- Lee, H.W., 943
- Leishman, William Boog, 890
- Leishmaniasis
 - description, 890
 - diagnostic approaches, 895–896
 - epidemiology, 892–894
 - geographic distribution, 893, 894
 - incidence, 894
 - life cycle of leishmania (figure), 894
 - military relevance, 890–891
 - mortality rate, 890
 - pathogenesis and clinical findings, 894–895
 - primary species that cause disease in humans, with associated animal reservoirs and geographic distribution (table), 893
 - therapy and control, 896–897
 - transmission, 892–894
 - in US military personnel, 1954–1998 (graph), 892
 - “viscerotropic” infections, 891, 895
- Leptospirosis
 - clinical course (figure), 941
 - control, 939, 942–943
 - diagnostic approaches, 942

- differential diagnoses, 942
 - epidemiology, 939–940
 - geographic distribution, 939–942
 - incidence, 940
 - inpatient surveillance, 716
 - leptospirosis phase, 941
 - military relevance, 939
 - mortality rate, 941–942
 - natural disasters and, 1298
 - pathogen description, 939
 - pathogenesis and clinical findings, 939, 940–942
 - therapy, 942
 - transmission, 939
 - LET
 - See* Leukocyte esterase test
 - Letterman Army Medical Center
 - pseudoepidemic of skin cancer, 727
 - Leukocyte esterase test
 - sexually transmitted disease diagnosis, 1151
 - Levine, J.B., 1148
 - Ley, H.L., Jr., 872
 - LGV
 - See* Lymphogranuloma venereum
 - Liberian civil war
 - International Committee of the Red Cross relief efforts, 1356
 - Lice
 - See also* Diseases transmitted primarily by arthropod vectors
 - elimination from clothing, 875
 - Ligase chain reaction
 - chlamydia diagnosis, 1164
 - sexually transmitted disease diagnosis, 1151
 - Line graphs, 761–762, 764
 - Linen
 - laundry practices, 1264–1265
 - LIPODEET
 - schistosomiasis and, 1068
 - Liquid nitrogen
 - specimen shipping and, 797, 799
 - Liver flukes
 - See* Trematodes
 - Liver function tests
 - viral hepatitis, 1181–1182
 - Liver transplantation
 - hepatitis D and, 1183
 - Livestock
 - See* Diseases transmitted primarily from animals to humans
 - Lockjaw
 - See* Tetanus
 - Logue, J.N., 1299
 - Loiasis, 888–889
 - Long-term illnesses
 - See also specific illnesses*
 - natural disasters and, 1299–1300
 - Longitudinal studies
 - See* Cohort studies
 - Loperamide
 - cholera treatment, 1036
 - enterotoxigenic *Escherichia coli* treatment, 1004
 - viral gastroenteritis treatment, 1017
 - Louping ill virus, 851, 855
 - Lung flukes
 - See* Trematodes
 - Lyme disease
 - chronic, 863–864
 - co-infections with human granulocytic ehrlichiosis, 864
 - complications, 865
 - diagnostic approaches, 864
 - differential diagnoses, 863, 864
 - distribution in the United States (map), 862
 - epidemiology, 861–863
 - geographic distribution, 862, 863
 - incidence, 863
 - military relevance, 860–861
 - pathogen description, 861
 - pathogenesis and clinical findings, 863–864
 - post-Lyme syndrome, 864
 - prevention, 865–866
 - therapy, 864–865
 - transmission, 861–863
 - vaccines, 866
 - Lymphogranuloma venereum, 1173–1174
- ## M
- Magnetic resonance imaging
 - brucellosis diagnosis, 981
 - rabies diagnosis, 966
 - Malaria
 - blood cycle, 807
 - Burma Campaign, World War II and, 805
 - compliance issues, 805–806, 811–812, 813
 - diagnostic approaches, 809–810
 - drug resistance, 805, 812, 813–814
 - endemic, 808
 - epidemic, 808
 - epidemiology, 807–808
 - geographic distribution, 807–808
 - imported, 808
 - incidence, 808
 - incubation period, 809
 - liver cycle, 806
 - malaria life cycle (figure), 806
 - mosquito cycle, 806
 - natural disasters and, 1298
 - nonspecific fever presentation, 712, 717
 - nontyphoidal salmonellosis and, 1024
 - pathogen description, 806–807
 - pathogenesis and clinical findings, 809
 - personal protection and, 807, 814
 - postdeployment, 813
 - prophylactic drugs used (table), 811
 - relapsing, 813
 - role of the mosquito, 805
 - severe form, 809
 - side effects of prophylactic drugs, 812
 - transmission, 807
 - travel history and, 808, 809
 - treatment, 805, 812–813
 - triad of the malaria paroxysm, 809
 - vaccines, 814
 - weekly and daily prophylaxis, 810–812
 - Malayan and timorian filariasis, 886–887
 - Malnutrition
 - See also* Nutritional assessment and nutritional needs of refugee or displaced populations
 - cutoff points most often used to define acute malnutrition by various indicators (table), 1384
 - edema in children and, 1325, 1380–1381
 - food supplies and, 1329
 - form for quantifying malnutrition from the weight-for-height index and edema (figure), 1385
 - global acute malnutrition rate, 1383
 - Meals Ready to Eat and, 1307

- natural disasters and, 1298–1299
 - wasting and, 1324–1325, 1380, 1384
- Manaloto, C.R., 1150
- Mansonella ozzardi*, 889
- Mansonella perstans*, 889–890
- Mantel-Haenszel chi-square test statistic, 778–779
- Mantel-Haenszel formula
 - outbreak investigation and, 747
- Mantel-Haenszel summary odds ratio
 - confounding bias and, 775
- Mantoux tuberculin test, 1141
- Marasmus, 1324–1325, 1380, 1384
- Marburg virus, 961
- Marceaux, L.H., 947
- Masks
 - use in infection control and prevention, 1259
- Matching
 - confounding bias and, 774
- McCabe, R.E., 950
- McDuff, D.R., 1417
- Meals Ready to Eat
 - complex emergencies and, 1330
 - contamination and, 734–735
 - culturally appropriate, 1330
 - malnourished persons and, 1307
 - natural disasters and, 1307
- Measles
 - complex emergencies and, 1327
 - complications, 1216
 - control, 1217–1218
 - description, 1215
 - diagnostic approaches, 1217
 - epidemiology, 1215–1216
 - geographic distribution, 1216
 - incidence, 1216
 - military relevance, 1215
 - mortality rate, 1216
 - pathogen description, 1215
 - pathogenesis and clinical findings, 1216–1217
 - therapy, 1217
 - transmission, 1215
 - vaccine, 1216, 1217–1218, 1327
- Measles-mumps-rubella vaccine, 1217, 1220, 1221–1223
- Measurement bias
 - description, 772
- Mebendazole
 - helminth infection treatment, 1059
 - Mansonella perstans* infection treatment, 890
- Media
 - outbreak investigation and, 727, 728, 730
- Medical and Economic Malacology*, 1062
- Medical Environmental Disease Intelligence and Countermeasures*, 1320
- Medical Follow-up Agency
 - redeployment role, 1438
- Medical infrastructure
 - disease and nonbattle injury surveillance and, 711
- Medical issues in redeployment
 - Armed Forces Epidemiological Board role, 1438
 - combat stress, 1427
 - components of medical surveillance by the phase of deployment (table), 1435
 - Department of Defense guidance for postdeployment screening for Bosnia (exhibit), 1436
 - Department of Defense role, 1436–1438
 - Department of Veterans Affairs role, 1438
 - historical perspectives, 1427–1428
 - infectious disease, 1428
 - Medical Follow-up Agency role, 1438
 - political ramifications, 1428
 - Pre-deployment Health Assessment (figure), 1433–1434
 - redeployment medical plan, 1428–1436
 - somatic symptoms commonly associated with war-related medical and psychological illnesses (table), 1437
 - some preventable, deployment-associated health conditions with minimal early symptoms and potentially serious delayed manifestations (table), 1429
 - strengths and weaknesses of medical screening tools, 1431
 - surviving battle trauma, 1427
- The Medical Letter*
 - schistosomiasis treatment recommendations, 1067
- Medical waste disposal
 - natural disasters and, 1306
- Medicins Sans Frontieres
 - public health needs in complex emergencies guide, 1318
 - rapid nutritional assessment guidelines, 1380
- Mediterranean spotted fever
 - See Spotted fever
- Meers, P.D., 1252
- Mefloquine
 - malaria treatment, 806, 810–812, 813
 - side effects, 812
- Melarsoprol
 - African sleeping sickness treatment, 901
 - side effects, 901
- Melick, M.E., 1299
- Melioidosis
 - description, 1078
 - diagnostic approaches, 1080–1081
 - epidemiology, 1079–1080
 - geographic distribution, 1079
 - incidence, 1079–1080
 - latent infection, 1080
 - military relevance, 1078
 - pathogen description, 1078
 - pathogenesis and clinical findings, 1080
 - therapy and control, 1081
 - transmission, 1079
- Melton, L.J., 1148
- Meningitis
 - anthrax complication, 977, 978
- Meningococcal disease
 - antibiotic treatment of meningococcal disease in adults (table), 1135
 - diagnostic approaches, 1135
 - epidemiology, 1132–1134
 - geographic distribution, 1133
 - incidence, 1133
 - military relevance, 1130–1131
 - mortality rate, 1131, 1137
 - pathogen description, 1131–1132
 - pathogenesis and clinical findings, 1134–1135
 - petechial rash, 1134–1135
 - prophylactic chemotherapy of *Neisseria meningitidis* contacts (table), 1137
 - therapy, 1135–1136
 - transmission, 1132–1133
 - “two bug” model, 1132–1133
 - vaccines, 1133, 1136–1137
- Meningococcal meningitis
 - control measures for susceptible persons, 730
- Meningococemia
 - plague and, 882
- Menninger, W.C., 1403, 1409

- Mental health surveillance
 - See also Psychiatric disorders; Psychological aspects of deployment and reunion; Psychological impact technological disasters and, 1343
- Metrifonate
 - schistosomiasis treatment, 1067
- Metronidazole
 - amebiasis treatment, 1042
 - giardiasis treatment, 1044
 - side effects, 1042, 1044
 - tetanus treatment, 1233
- Metropolitan Medical Response System teams, 1368
- MFUA
 - See Medical Follow-up Agency
- MHA-TP
 - See Microhemagglutination treponemal pallidum test
- Microbial components or products
 - detection of, 787–790
 - specimen collection, handling, and storage, 796
- Microhemagglutination treponemal pallidum test
 - syphilis diagnosis, 1171
- Microscopic examination
 - malaria diagnosis, 810
 - microorganisms, 786, 789
 - slide preparation, 795
- Mid-upper arm circumference index
 - description, 1382
 - procedures for evaluating (exhibit), 1382
- Middle East
 - helminths and, 1055
 - leishmaniasis and, 891
- Midges
 - See Diseases transmitted primarily by arthropod vectors
- Milk
 - See Dairy products
- Mites
 - See also Diseases transmitted primarily by arthropod vectors
- MMR vaccine
 - See Measles-mumps-rubella vaccine
- MMRS teams
 - See Metropolitan Medical Response System teams
- Molecular epidemiology
 - outbreak investigation and, 727, 728, 748, 749
- Molluscicides in Schistosomiasis Control*, 1069
- Monoclonal antibodies
 - laboratory diagnosis of infection and, 788–789
 - sexually transmitted disease diagnosis, 1151
- Moral factors in operational stress
 - description, 1398–1399
 - Operation Joint Endeavor, Bosnia, 1402
 - Operation Uphold Democracy, Haiti, 1401
 - Persian Gulf War, 1400
 - Somalia operations, 1401
- Morbidity and Mortality Weekly Report*
 - outbreak report publication, 749
- Morris, L.E., 1404–1405
- Mortality rates
 - African sleeping sickness, 900
 - amebiasis, 1040
 - anthrax, 975, 976, 977
 - campylobacter enteritis, 1010
 - chikungunya, 827
 - cholera, 1031, 1033
 - complex emergencies, 1321, 1323–1324, 1326
 - computation, 758–759
 - crude mortality rate, 1323–1324
 - diphtheria, 1234
 - enterohemorrhagic *Escherichia coli*, 1005
 - epidemic typhus fever, 874, 875
 - filovirus hemorrhagic fevers, 961, 962
 - hantaviruses, 945
 - histoplasmosis, 1074
 - influenza, 1128
 - Japanese encephalitis, 841
 - Lassa fever, 959
 - leishmaniasis, 890
 - leptospirosis, 941–942
 - major natural disasters and associated mortality (table), 1293
 - malnutrition and, 1377, 1382–1383
 - measles, 1216
 - meningococcal disease, 1131, 1137
 - mumps, 1222
 - Mycoplasma pneumoniae* infections, 1125
 - natural disasters and, 1300–1302
 - plague, 878, 881, 883
 - polio, 1238
 - Q fever, 955–956
 - rate adjustment, 759
 - refugees, 1321, 1326
 - schistosomiasis, 1065
 - scrub typhus, 871
 - spotted fever, 877
 - tetanus, 1232
 - tick-borne encephalitis, 850
 - toxoplasmosis, 947
 - tuberculosis, 1139–1140, 1146
 - tularemia, 973
 - typhoid fever, 1019
 - varicella, 1224
 - viral gastroenteritis, 1012, 1013
 - viral hepatitis, 1180
- Mosquito-borne diseases
 - See Diseases transmitted primarily by arthropod vectors; Diseases transmitted primarily from animals to humans
- MREs
 - See Meals Ready to Eat
- MUAC
 - See Mid-upper arm circumference index
- Mucopurulent cervicitis, 1166
- Mucosal leishmaniasis
 - See Leishmaniasis
- Mules
 - See Equine encephalitis
- Multistage sampling, 765
- Multivariate analysis
 - confounding bias and, 775
- Mumps
 - complications, 1220, 1222
 - description, 1220
 - diagnostic approaches, 1222
 - epidemiology, 1221–1222
 - geographic distribution, 1221
 - incidence, 1221–1222
 - military relevance, 1220–1221
 - mortality rate, 1222
 - pathogen description, 1221
 - pathogenesis and clinical findings, 1222
 - transmission, 1221
 - vaccine, 1222–1223
- Murine typhus fever
 - description, 872
 - diagnostic approaches, 873–874
 - epidemiology, 873

- geographic distribution, 873
- incidence, 873
- military relevance, 872–873
- pathogen description, 873
- pathogenesis and clinical findings, 873
- therapy, prevention, and control, 874
- transmission, 873

Mycoplasma pneumoniae infections

- description, 1124–1125
- diagnostic approaches, 1125–1126
- epidemiology, 1125
- pathogen description, 1125
- pathogenesis and clinical findings, 1125
- therapy and control, 1126

N

Naficy, A., 1038

Nalidixic acid

- shigellosis treatment, 1029

Napoleonic armies

- meningococcal disease and, 1131, 1133

National Aeronautics and Space Administration

- Federal Radiological Emergency Response Plan and, 1369

National Center for Health Statistics

- weight-for-height index, 1383–1384

National Disaster Medical System

- agencies involved, 1369
- Disaster Medical Assistance Teams, 1369, 1371, 1372
- Emergency Support Functions, 1370, 1371
- establishment, 1369
- military's role, 1371
- technological disasters and, 1341

National Guard

- consequence management role, 1368

National Immunization Days

- polio and, 1241

National Institutes of Health

- cooperative partnerships with other agencies, 750

National Security Strategy, 1397–1398

Native Americans

- Streptococcus pyogenes* infections and, 1121

Natural disasters

- Civil-Military Operations Centers, 1292
- communicable diseases and, 1298
- death and injury and, 1300–1302
- disaster preparedness plans and, 1294–1295
- disease control, 1298–1300
- dust control and, 1306
- earthquakes and tsunamis, 1294
- emergency disinfection of small volumes of water (table), 1304
- environmental health assessment, 1302–1303
- epidemiologic assessment teams, 1297
- epidemiologic methods used in the assessment of (table), 1296
- floods, 1292, 1294
- food assistance for emergency situations and, 1384
- food sanitation, 1307
- hazardous waste disposal, 1306
- health and environmental effects of (table), 1300
- human and socioeconomic factors, 1301–1302
- human waste disposal and, 1304–1305
- Humanitarian Assistance Survey Teams, 1292
- incidence and impact, 1273
- insect and rodent control, 1308
- landslides, 1294
- long-term illnesses and, 1299–1300
- major natural disasters and associated mortality (table), 1293

- malnutrition and, 1298–1299
- management of the dead, 1306
- medical waste disposal, 1306
- military and public health aspects, 1289–1313
- military role and responsibilities, 1291–1292
- personal hygiene and, 1307
- physical, environmental, and geographic factors, 1302
- psychological effects, 1299
- recommended readings, 1313
- shelter issues, 1306–1307
- solid waste disposal, 1305–1306
- stray dogs and, 1308
- surveillance phases, 1295–1297
- types, 1292–1294
- types and characteristics of latrines suitable for disaster relief operations (table), 1305
- volcanic eruptions, 1294
- waste water disposal, 1305
- water supply and disinfection, 1303–1304
- windstorms, 1292

NDMS

See National Disaster Medical System

Negative pressure rooms, 1259, 1263

Nematodes

- pathogen description, 1052, 1056–1057
- transmission, 1053–1054

Netherlands, The

- measles and, 1216

New Guinea

- dengue virus infections, 815, 816

Newborns

See Infants and children

NGU

See Nongonococcal urethritis

Niclosamide

- snail control, 1069

Nicolle, C., 947

Nifurtimox

- Chagas' disease treatment, 898

Nixon, Pres. Richard, 953

Nongonococcal urethritis, 1165–1166

Nongovernmental organizations

See Private voluntary organizations

Nonprobability sampling designs, 762–763

Nontreponemal tests

- syphilis, 1169, 1171

Nontyphoidal salmonellosis

- control, 1025
- description, 1022
- diagnostic approaches, 1024
- epidemiology, 1023
- geographic distribution, 1023
- incidence, 1022, 1023
- incidence of typhoid fever and salmonellosis in US Army troops in Vietnam, 1965–1970 (table), 1022
- military relevance, 1022
- pathogen description, 1022
- pathogenesis and clinical findings, 1023–1024
- therapy, 1024–1025
- transmission, 1023

Norfloxacin

- enterotoxigenic *Escherichia coli* treatment, 1004
- typhoid fever treatment, 1020

North America

- anthrax and, 976
- brucellosis and, 980
- campylobacter enteritis, 1009

- cholera and, 1031, 1033
 - hantaviruses and, 944
 - helminths and, 1055
 - Lyme disease and, 862, 863
 - meningococcal disease and, 1133
 - plague and, 880
 - Q fever and, 953
 - rabies and, 965
 - tick-borne encephalitis and, 852, 854–855
 - toxoplasmosis and, 949
 - tularemia and, 972
 - viral gastroenteritis and, 1013
 - Norwalk and Norwalk-like viruses, 1011, 1012–1013, 1014
 - Nosocomial infections
 - See also* Hospitalization
 - infection control and, 1252
 - Nuclear Regulatory Commission
 - Federal Radiological Emergency Response Plan and, 1369
 - Nucleic acid-based detection methods
 - dengue virus infections and, 821
 - description, 789–790
 - Nutrition Guidelines*, 1386
 - Nutritional assessment
 - anthropometric measures on children, 1379–1380, 1389
 - background data, 1379
 - cluster data form (figure), 1381
 - cluster sampling, 1380, 1381
 - crude mortality rates, 1382–1383
 - cutoff points most often used to define acute malnutrition
 - by various indicators (table), 1384
 - data and problem analysis, 1383–1384
 - general assessment, 1378–1379
 - mid-upper arm circumference index, 1324, 1382
 - reporting of results and follow-up activities, 1384
 - selecting the sample and collecting data, 1379–1380, 1381
 - vulnerable groups and, 1379
 - weight-for-height index, 1380–1382, 1383–1384, 1385
 - Nutritional assessment and nutritional needs of refugee or displaced populations
 - See also* Malnutrition
 - basic needs, 1377
 - characteristics, responses, and modes of response for four types of emergencies (table), 1378
 - food assistance programs for emergency situations, 1384–1390
 - military role, 1377
 - mortality and nutritional status, 1377
 - nutritional assessment, 1378–1384
 - objective of nutritional support, 1377
 - vulnerable populations, 1377
 - Nutritional surveys
 - complex emergencies and, 1324–1326
 - mid-upper arm circumference measurement, 1324
 - wasting and, 1324–1325
- ## O
- Observational studies, 766, 779
 - Occupational Safety and Health Act
 - universal precautions, 793
 - Occupational Safety and Health Administration
 - tuberculosis guidelines, 1146
 - OCHA
 - See* Office for the Coordination of Humanitarian Affairs
 - Ocular Rift Valley fever, 826
 - Oculoglandular tularemia, 973
 - Odds ratio
 - case-control studies, 740, 767–769
 - confidence interval and, 777–778
 - hypothesis testing and, 775, 776
 - Mantel-Haenszel summary odds ratio, 775
 - Office for the Coordination of Humanitarian Affairs
 - responsibilities, 1357
 - UN reforms creating, 1358
 - Office of Foreign Disaster Assistance
 - responsibilities, 1321, 1359
 - Olympic Games, 1996
 - Science and Technology Center, 1346
 - Omsk hemorrhagic fever, 852, 855
 - Onchocerciasis, 887–888
 - Onsite mass feeding programs, 1386
 - O'nyong-nyong
 - diagnostic approaches, 828
 - epidemiology, 827
 - pathogen description, 827
 - pathogenesis and clinical findings, 828
 - supportive therapy, 828
 - Operation Bright Star, Egypt
 - shigellosis and, 1026
 - Operation Cobra Gold, Thailand
 - sexually transmitted diseases and, 1147
 - Operation Continue Hope, Somalia
 - psychological stressors, 1400–1401
 - Operation Desert Shield. *See* Persian Gulf War
 - Operation Desert Storm. *See* Persian Gulf War
 - Operation Joint Endeavor, Bosnia
 - prevalence of rash-associated illness, 757
 - psychological stressors, 1401–1402
 - surveillance research, 1412–1413
 - Operation Restore Democracy and Operation Uphold Democracy, Haiti
 - dengue virus infections, 817–818
 - psychological stressors, 1401
 - sexually transmitted diseases and, 1147
 - water supplies and, 1303
 - Operation Restore Hope, Somalia
 - dengue virus infections, 817
 - food supplies and, 1299
 - giardiasis and, 1042
 - International Committee of the Red Cross relief efforts, 1356
 - malaria and, 805–806
 - mental health monitoring, 1408–1409
 - psychological stressors, 1400–1401
 - sexually transmitted diseases and, 1147
 - shigellosis and, 1026
 - spotted fever and, 876
 - Operation Sea Angel, Bangladesh
 - relief efforts, 1321
 - Operation Sea Signal, Guantanamo Bay
 - sexually transmitted diseases and, 1147
 - OPV
 - See* Oral polio vaccine
 - OR
 - See* Odds ratio
 - Oral polio vaccine, 1238, 1240–1241
 - Oral rehydration solution
 - viral gastroenteritis, 1016–1017
 - Oral rehydration therapy
 - cholera, 1034–1035
 - diarrhea treatment, 1328
 - guidelines for clinical evaluation of dehydration and recommendations for rehydration and maintenance fluid therapy (table), 1035
 - nontyphoidal salmonellosis, 1024

- Ordered variables, 759
 - Oropharyngeal tularemia, 973
 - Oropouche fever
 - clinical findings, 824–825
 - diagnosis, 825
 - epidemiology, 824
 - incidence, 823–824
 - incubation period, 824
 - pathogen, 824
 - supportive treatment, 825
 - ORS
 - See Oral rehydration solution
 - Outbreak investigation
 - additional study and analysis needs, 748
 - administrative and logistical considerations, 745
 - attack rates, 731, 740, 746–747
 - case clusterings, 734
 - case definitions, 726, 748
 - case finding efforts, 726–727
 - CDC guidelines, 736–739
 - challenges, 750
 - chi-square measures of risk, 740, 747
 - comparison of results to published literature, 749
 - contents of problem definition and assessment team kit, 729, 734
 - cooperative relationships among government agencies and, 750
 - criteria for deciding the outbreak is under control, 749
 - data and specimen collection, 734, 746–747
 - disease control measure identification, 730–731
 - environmental evaluation, 734–735
 - epidemic curves or flow charts, 731–733
 - executive summary, 749
 - final report, 749
 - Fisher's Exact Test, 740, 747
 - frequency measures and severity assessment, 735–740
 - frequency polygons, 732
 - hypothesis testing, 746–749
 - local administrative support, 730
 - Mantel-Haenszel formula, 747
 - medical treatment resources, 746
 - methodology summary, 725
 - molecular biology techniques and, 727, 728, 748, 749
 - multidisciplinary investigative team organization, 728–730
 - new prevention modalities, 750
 - odds ratios, 740
 - periodic reassessment of controls measures, 746
 - person orientation, 731
 - place orientation, 733–735
 - possible explanations for inaccurate measures of association, 733, 734
 - practice patterns and, 727
 - pseudoepidemics, 727
 - recommendation effectiveness evaluation, 749
 - risk factor and mechanism identification, 735–740
 - stratified analysis, 747
 - supplies needed, 728–729
 - survey instruments, 742–745
 - tentative hypotheses and plan development, 740–746
 - terrorism or sabotage and, 741–742, 745
 - time orientation, 731–733
 - transmission mechanism, 740–742
 - transmission patterns, 731–735
 - travel arrangements for teams, 728
 - type of outbreak determination, 740
 - verifying the diagnosis or defining the problem, 726–727
 - verifying the existence of an epidemic, 727
 - Outpatient-level disease and nonbattle injury surveillance
 - centralized analysis of force-wide data, 715
 - data organization, 711–712
 - feedback, 715–716
 - "flag" conditions, 715
 - rate calculation, 712
 - surveillance categories, 712, 713
 - unexplained fevers, 712
 - unit-level analysis, 712, 715
 - Oxamniquine
 - schistosomiasis treatment, 1067
 - Oxytetracycline
 - Mycoplasma pneumoniae* infection treatment, 1126
- P**
- p* value
 - hypothesis testing and, 776, 778
 - Pacini, Filippo, 1031
 - Pair matching, 774
 - Palmer, C.E., 1074
 - Pan American Health Organization
 - computer program to manage relief supplies, 1281
 - Emergency Vector Control After Natural Disasters*, 1308
 - epidemiologic assessment teams and, 1297
 - health preparedness plan, 1295
 - natural disasters and, 1277
 - water quality standards, 1303
 - Panum, P.L., 1215
 - PAR
 - See Population attributable risk
 - Parasitic diseases
 - See also Helminths; Leishmaniasis; specific diseases
 - CDC guidelines for confirmation of foodborne disease outbreaks, 739
 - fecal specimen collection, 793, 794
 - microscopic examination, 795
 - Paromomycin
 - amebiasis treatment, 1042
 - giardiasis treatment, 1044
 - Partner notification
 - human immunodeficiency virus infection and, 1172
 - sexually transmitted diseases and, 1153–1154
 - Pasteur, Louis, 964
 - Peace Corps
 - private voluntary organization staffing, 1354
 - Peebles, J., 1416
 - Peebles-Kleiger, M.M., 1416
 - Pegylated interferon
 - hepatitis C treatment, 1188
 - Penicillin
 - anthrax treatment, 978, 979
 - diphtheria treatment, 1236
 - gonorrhea treatment, 1159
 - leptospirosis treatment, 942
 - Lyme disease treatment, 864
 - meningococcal disease treatment, 1135
 - streptococcal infection treatment, 730
 - Streptococcus pyogenes* infection treatment, 1122
 - syphilis treatment, 1171
 - Penicillin G
 - tetanus treatment, 1233
 - Pentamidine
 - African sleeping sickness treatment, 900–901
 - Pentavalent antimony
 - leishmaniasis treatment, 896
 - Persian Gulf War
 - amebiasis and, 1042

- debriefings, 1417
- dengue virus infections, 817
- diarrhea outbreak surveillance example, 719–721
- enterotoxigenic *Escherichia coli* and, 1001, 1002
- “finish line fever,” 1407
- giardiasis and, 1042
- leishmaniasis and, 891
- nutritional status of children in Baghdad and, 1379
- postdeployment epidemiologic investigations, 1344
- Presidential Advisory Committee on Gulf War Veterans Illnesses, 1436
- prisoner of war management, 1331
- psychological stressors, 1400, 1406, 1407, 1411
- public health laboratory in the theater of operations, 1432
- sandfly fever and, 859
- sexually transmitted diseases and, 1147
- shigellosis and, 1026
- stresses for women, 1405, 1406
- viral gastroenteritis and, 1011
- weekly disease surveillance, 1432
- Personal hygiene
 - cleaning and bathing facilities, 1307
 - clothes washing, 1307
 - diarrhea and, 1327
 - water supplies and, 1303
- Personal protection
 - African sleeping sickness and, 901
 - bancroftian filariasis and, 886
 - brucellosis and, 983
 - Chagas’ disease and, 899
 - contact isolation situations, 1263
 - Crimean-Congo hemorrhagic fever and, 963
 - dengue virus infections and, 823
 - ehrlichiosis and, 868
 - histoplasmosis and, 1078
 - infection control and prevention and, 1259–1263
 - Japanese encephalitis and, 843
 - leishmaniasis, 896–897
 - leptospirosis and, 942–943
 - limitations of physical performance and sensory input due to, 1342
 - loiasis and, 889
 - Lyme disease and, 865–866
 - malaria and, 807, 814
 - meliodosis and, 1081
 - plague and, 884
 - scrub typhus and, 871–872
 - technological disasters and, 1342
 - tick-borne encephalitis, 857
- Pertussis
 - complications, 1229
 - description, 1227
 - diagnostic approaches, 1229–1230
 - epidemiology, 1228–1229
 - geographic distribution, 1228–1229
 - incidence, 1229
 - military relevance, 1227–1228
 - pathogen description, 1228
 - pathogenesis and clinical findings, 1229
 - therapy and control, 1230
 - transmission, 1228
 - vaccine, 1227–1228, 1230
- Pestis minor, 881
- Pestiviruses, 1013
- PFGE test
 - epidemiologic analysis of nosocomial infection, 748
- Philip, C., 872
- Philippines
 - social hygiene clinics for commercial sex workers, 1150, 1153
- Picornaviruses, 1013
- Pie graphs, 761, 762
- Pincus, S.H., 1405
- Plague
 - bubonic, 880–881
 - complications, 881
 - control, 883, 1428
 - description, 878
 - diagnostic approaches, 881–882
 - differential diagnoses, 882
 - epidemiology, 879–880
 - geographic distribution, 880
 - incidence, 880
 - military history, 878–879
 - mortality rate, 878, 881, 883
 - pandemics, 878–879
 - pathogen description, 879
 - pathogenesis and clinical findings, 880–881
 - pneumonic, 881
 - psychological impact, 878
 - septicemic, 881
 - therapy, 882–883
 - transmission, 879–880
 - vaccine, 879, 880, 883
- Plague pharyngitis, 881
- Plasma therapy
 - South American hemorrhagic fevers, 961
- Pneumonia
 - See Respiratory pathogens
- Pneumonic plague, 881
- Polio
 - description, 1237
 - diagnostic approaches, 1239–1240
 - epidemiology, 1238–1239
 - geographic distribution, 1238
 - incidence, 1238–1239
 - military relevance, 1237–1238
 - mortality rate, 1238
 - paralytic polio classification criteria, 1238
 - pathogen description, 1238
 - pathogenesis and clinical findings, 1239
 - post-polio syndrome, 1239
 - therapy, 1240
 - transmission, 1238
 - vaccine-associated paralytic poliomyelitis, 1240
 - vaccines, 1238, 1239, 1240–1241
- Polychotomous variables, 759
- Polymerase chain reaction
 - anthrax diagnosis, 978
 - brucellosis diagnosis, 982
 - chlamydia diagnosis, 1164
 - cholera diagnosis, 1034
 - ehrlichiosis diagnosis, 868
 - helminth diagnosis, 1058
 - Japanese encephalitis diagnosis, 841
 - leishmaniasis diagnosis, 895, 896
 - leptospirosis diagnosis, 942
 - Lyme disease diagnosis, 864
 - malaria diagnosis, 810
 - meliodosis diagnosis, 1080
 - Mycoplasma pneumoniae* infection diagnosis, 1125
 - rabies diagnosis, 966
 - sexually transmitted disease diagnosis, 1151
 - shigellosis diagnosis, 1028

- spotted fever diagnosis, 877
 - varicella diagnosis, 1226
 - viral gastroenteritis diagnosis, 1015
 - yellow fever and, 837
- Population attributable risk, 771
- Post-polio syndrome, 1239
- Posttraumatic stress disorder
 - See also* Combat stress
 - deployment and, 1406
 - natural disasters and, 1299
 - reunion after deployment and, 1410
- POW
 - See* Powassan encephalitis
- Powassan encephalitis, 851, 854–855
- Power calculation
 - hypothesis testing, 779
- Praziquantel
 - helminth infection treatment, 1059
 - schistosomiasis treatment, 1067
 - side effects, 1067
- Precipitated sulphur
 - scrub typhus and, 872
- Predeployment
 - effects on spouses, 1410, 1411
 - Predeployment Health Assessment (figure), 1433–1434
 - psychological effects, 1402–1403
 - unit readiness and, 1403
- Pregnancy
 - brucellosis and, 981, 982–983
 - cholera and, 1036, 1037
 - coccidioidomycosis and, 1072
 - feeding programs and, 1386
 - filovirus hemorrhagic fevers and, 962
 - influenza and, 1128
 - Japanese encephalitis vaccination and, 844
 - Lassa fever and, 959
 - leptospirosis and, 940
 - measles and, 1216
 - mumps and, 1222
 - rubella and, 1219, 1220
 - syphilis and, 1171
 - tetanus and, 1232, 1233
 - toxoplasmosis and, 947, 949, 950, 951, 952
 - tuberculosis and, 1145
 - varicella and, 1225
 - viral hepatitis and, 1179, 1185–1186
 - yellow fever vaccination and, 838
- Presidential Advisory Committee on Gulf War Veterans
 - Illnesses, 1436
- Prevalence rate computation, 757
- Prevalence surveys
 - See* Cross-sectional studies
- Preventive medicine
 - role of medical personnel in disasters, 1272–1273, 1281, 1318
- Primaquine
 - malaria treatment, 813
- Prisoners of war
 - complex emergencies and, 1331
- Private voluntary organizations
 - chain of command, 1355
 - funding issues, 1354–1355
 - goals and personnel, 1354
 - security issues, 1355
 - suspicion of US government influence and, 1353
 - types of, 1354
 - US military and, 1353
 - USAID funding, 1353
- Probability sampling designs, 762, 763, 765
- Problem definition and assessment team kit, 729, 734
- Proctitis, 1166
- Proguanil
 - malaria treatment, 811
- Prophylactic medications
 - See also specific medications*
 - compliance issues, 1414
 - deployment and, 1414–1415
- Prospective studies
 - See* Cohort studies
- Prostitutes
 - See* Commercial sex workers
- Pseudoepidemics, 727
- Psychiatric disorders
 - outpatient-level surveillance, 712
 - preventive interventions, 1415
 - psychometric tests and epidemiology, 1413
 - redeployment and, 1430
 - reunion after deployment and, 1409–1410
 - training of medical professionals and, 1415–1416
 - use of psychotropic medications, 1417–1418
- Psychological aspects of deployment and reunion
 - books, pamphlets, training manuals, and models, 1416
 - children and, 1412, 1419
 - command and medical consultation, 1414–1415, 1419
 - current US national strategy, 1397–1398
 - debriefing as a preventive mental health strategy, 1416
 - deployment, 1403–1409
 - environmental factors, 1398, 1399, 1400, 1401, 1402
 - military operations from World War II to the post-Cold War environment, 1397
 - military spending cuts and, 1418–1419
 - moral factors, 1398–1399, 1401, 1402
 - nature of current operations, 1397–1399
 - need for research on reunion issues, 1418
 - predeployment, 1402–1403
 - preventive interventions, 1415
 - psychological factors, 1398, 1399, 1400–1401, 1402
 - psychological issues in peacekeeping operations (table), 1413
 - psychometric tests and epidemiology, 1413
 - psychotropic medication use, 1417–1418
 - reunion, 1409–1410
 - spouses and, 1410–1412, 1419
 - stressors in major deployments in the 1990s, 1400–1402
 - surveillance research, 1412–1413
 - training of medical professionals, 1415–1416
- Psychological factors in operational stress
 - description, 1398
 - Operation Joint Endeavor, Bosnia, 1402
 - Operation Uphold Democracy, Haiti, 1401
 - Persian Gulf War example, 1400
 - psychological stresses and mitigating factors (table), 1399
 - Somalia operations, 1400–1401
- Psychological impact
 - genital herpes, 1167
 - natural disasters, 1299
 - plague, 878
- Psychometric tests, 1413
- Psychotropic medications
 - See also specific medications*
 - deployment and, 1417–1418
- Public Health Service
 - National Disaster Medical System and, 1369
 - Office of Emergency Preparedness, 1371
 - outbreak investigation teams, 745

specimen shipping regulations, 796
 Puumala virus, 944
 PVOs
 See Private voluntary organizations
 Pyrantel pamoate
 helminth infection treatment, 1059
 Pyrazinamide
 side effects, 1143
 tuberculosis treatment, 1143, 1144
 Pyridoxine
 tuberculosis treatment, 1145
 Pyrimethamine
 toxoplasmosis treatment, 952
 Pyrimethamine/sulfadoxine
 malaria treatment, 813, 814

Q

Q fever
 description, 953
 diagnostic approaches, 956
 epidemiology, 953–954
 frequency of symptoms in acute Q fever (table), 955
 geographic distribution, 954
 incidence, 954
 military relevance, 953
 mortality rate, 955–956
 pathogen description, 953
 pathogenesis and clinical findings, 954–956
 therapy and control, 956
 transmission, 953–954
 vaccine, 956
 Qinghaosu derivatives
 malaria treatment, 812, 813
 Quarantine
 See also Isolation of patients
 plague and, 1428
 polio and, 1240
 sexually transmitted diseases and, 1158
 yellow fever and, 837–839
 Questionnaires
 additional studies and analysis needs and, 748
 for risk factor interviews, 742–745
 Quinacrine
 giardiasis treatment, 1044
 Quinidine
 malaria treatment, 812–813
 Quinine
 malaria treatment, 805, 809, 812–813
 side effects, 813
 Quinolones
 cholera treatment, 1036
 enteroinvasive *Escherichia coli* treatment, 1007
 meningococcal disease treatment, 1135
 shigellosis treatment, 1029
 tularemia treatment, 974
 Quota sampling, 762–763

R

Rabies
 algorithm for human rabies postexposure prophylaxis (figure), 969
 animal measures, 967–968
 complications, 965–966
 control, 967–971
 description, 963–964
 diagnostic approaches, 966–967

differential diagnoses, 966
 epidemiology, 964–965
 furious form, 965–966
 geographic distribution, 965
 incidence, 965
 infection control, 967
 military relevance, 964
 paralytic form, 966
 pathogen description, 964
 pathogenesis and clinical findings, 965–966
 postexposure prophylaxis, 969–971
 preexposure immunization, 968–970
 prevention, 967–971
 therapy, 967
 transmission, 964–965
 Radioimmunoassay
 microbial antigens, 789
 tuberculosis diagnosis, 1141
 Randomization
 confounding bias and, 774
 Randomized clinical trials, 771–772
 Rapid antigen tests
 Streptococcus pyogenes infection diagnosis, 1121
 Rapid fluorescent focus inhibition test
 rabies diagnosis, 966, 968
 Rapid health assessments
 complex emergencies and, 1320–1321, 1327
 Rapid plasma reagin
 syphilis diagnosis, 1171
 Ratcliffe, T.A., 1158
 Rate adjustment, 759
 Rate ratio
 cohort studies and, 769–770
 confidence interval and, 777
 Recall bias, 772
 Recombinant human granulocyte colony-stimulating factor
 viral hepatitis treatment, 1183
 Redeployment medical plans
 constraints, 1430–1431
 education element, 1431
 elements, 1431–1436
 epidemiologic method, 1430
 goals, 1428–1429
 medical screening, 1432
 postdeployment surveillance, 1432
 purposes of, 1430
 setting priorities, 1435–1436
 Reed, Maj. Walter
 yellow fever and, 832–833
Refugee Health: An Approach to Emergency Situations, 1386
 Refugees
 See also Displaced persons; Nutritional assessment and nutritional needs of refugee or displaced populations
 causes of mortality in refugee situations (figure), 1321
 child mortality in Somali refugee camps, 1326
 complex emergencies, refugee and internally displaced persons, 1983–1995 (figure), 1317
 complex emergencies and, 1275–1276
 mortality rate, 1383
 Weekly Surveillance Reporting Form for Refugees or Displaced Persons in a Complex Humanitarian Emergency (figure), 1322
 Relative risk
 case-control studies and, 768–769
 confounding bias and, 773–774
 hypothesis testing and, 775, 776
 Reporting of diseases

- diphtheria, 1237
- pertussis, 1229
- tuberculosis, 1145
- varicella, 1224
- Reserves
 - consequence management role, 1368
- Respiratory diseases
 - See also* Respiratory pathogens
 - outbreak at Fort Leonard Wood, 732, 733
- Respiratory pathogens
 - adenovirus, 1128–1130
 - antibiotic resistance, 1130
 - characteristics of infectious agents to consider during military epidemics (table), 1131
 - Chlamydia pneumoniae* infections, 1126–1127
 - emerging pathogens, 1130
 - important events in the development of military strategies to prevent epidemics of acute respiratory disease (table), 1120
 - influenza, 1127–1128
 - military relevance, 1119, 1120, 1130, 1131
 - Mycoplasma pneumoniae* infections, 1124–1126
 - respiratory disease hospital admission rates by week of training and treatment groups (graph), 1123
 - respiratory protection equipment, 1259–1260
 - Streptococcus pneumoniae* infections, 1123–1124
 - Streptococcus pyogenes* infections, 1119–1123
- Respiratory tract specimens
 - collection methods (table), 793
 - slide preparation, 795
- Restriction
 - confounding bias and, 774
- Restriction fragment length polymorphisms
 - outbreak investigation and, 748
- Reunion
 - briefings, 1410
 - effects on spouses, 1411–1412
 - “factual refocusing” and, 1409
 - postwar physical and psychological symptoms, 1409–1410
 - postwar readjustment, 1410
 - readjustment of female veterans, 1410
 - research needs, 1418
 - shared experience and memories and, 1410
- Revolutionary War
 - diphtheria and, 1234
- Reye syndrome
 - tick-borne encephalitis and, 856
 - varicella and, 1226
- RFLTs
 - See* Restriction fragment length polymorphisms
- Rheumatic fever
 - See* *Streptococcus pyogenes* infections
- rhG-CSF
 - See* Recombinant human granulocyte colony-stimulating factor
- Ribavirin
 - Crimean-Congo hemorrhagic fever treatment, 963
 - Lassa fever treatment, 959
 - Rift Valley fever treatment, 826
 - sandfly fever treatment, 860
 - viral hepatitis treatment, 1183, 1188
 - yellow fever treatment, 837
- Rickettsia prowazekii*
 - See* Epidemic typhus fever
- Rickettsia typhi*
 - See* Murine typhus fever
- Rifampin
 - brucellosis treatment, 982–983
 - ehrlichiosis treatment, 868
 - meningococcal disease treatment, 1136–1137
 - meningococcal meningitis treatment, 730
 - side effects, 1143
 - tuberculosis treatment, 1143, 1144
- Rift Valley fever
 - clinical findings, 825–826
 - diagnosis, 826
 - epidemiology, 825
 - pathogen description, 825
 - treatment, 826
- Rimantadine
 - influenza treatment, 1128
- Risk communication, 1414, 1415
- Risk factors
 - case-control studies, 740
 - Cylcospora* infection, 748
 - human immunodeficiency virus infections, 1171
 - observational studies, 766
 - outbreak investigation, 735–740
 - sexually transmitted diseases, 1149
 - technological disasters, 1340
 - tetanus, 1231
- Risk ratio
 - See also* Attributable risk
 - cohort studies and, 769–770
- River blindness
 - See* Onchocerciasis
- Robert T. Stafford Disaster Relief and Emergency Assistance Act
 - Federal Response Plan and, 1369
 - provisions, 1365, 1367
- Rocky Mountain spotted fever
 - See* Spotted fever
- Roper, W.I., 1158
- Ross, Maj. Ronald, 805
- Ross River disease
 - diagnostic approaches, 830
 - epidemiology, 829
 - pathogen description, 829
 - pathogenesis and clinical findings, 829–830
 - supportive therapy, 830
- Rotary International
 - polio eradication goal, 1237
- Rotaviruses, 1013, 1015
- Rothenberg, R.B., 1149
- Roundworms
 - See* Nematodes
- Rowe, B., 1001
- RR
 - See* Relative risk
- Rubella
 - description, 1218
 - diagnostic approaches, 1220
 - differential diagnosis, 1220
 - epidemiology, 1219
 - geographic distribution, 1219
 - incidence, 1219
 - military relevance, 1218–1219
 - pathogen description, 1219
 - pathogenesis and clinical findings, 1219–1220
 - therapy and control, 1220
 - transmission, 1219
 - vaccine, 1218–1219, 1220
- Rubeola
 - See* Measles
- Russell, Col. Frederick Fuller, 1020–1021

- Russia
 - tick-borne encephalitis and, 852, 855
- Rwandan civil war
 - Goma (Zaire) Epidemiology Group response, 1279–1280
 - human rights abuses, 1326
 - refugee-camp children and, 1276
 - relief organization coordination, 1277
 - unaccompanied children and, 1281
- S**
- Sabiá virus, 960–961
- Sabin, LTC Albert
 - dengue virus infections and, 816–817
- Sabin, Maj. Albert
 - Japanese encephalitis and, 839
 - polio vaccine, 1240
 - sandfly fever and, 858, 859
- Sabin-Feldman dye test
 - toxoplasmosis diagnosis, 951
- Sabotage
 - outbreaks and, 741–742, 745–746
- Saipan
 - dengue virus infections, 815
- Salk, Jonas, 1240
- Salmonella enteritidis*
 - outbreak traceback, 741
- Salmonella typhimurium*
 - intentional contamination with, 741
- Salmonellosis
 - See Nontyphoidal salmonellosis
- Sample size calculation
 - hypothesis testing, 779
- Sampling
 - costs, 766
 - nonprobability sampling designs, 762–763
 - probability sampling designs, 763, 765
 - standard deviation, 765–766
 - target populations, 762
- Sandflies
 - See Diseases transmitted primarily by arthropod vectors
- Sandfly fever
 - control, 860
 - description, 857
 - diagnostic approaches, 860
 - epidemiology, 858–859
 - geographic distribution, 858–859
 - incidence, 859
 - military relevance, 857
 - pathogen description, 857–858
 - pathogenesis and clinical findings, 859–860
 - therapy, 860
 - transmission, 858
- Sanitary practices
 - handwashing, 1255–1256
- Sanitation
 - complex emergencies and, 1327, 1328–1329
 - diarrhea and, 1327
 - food assistance programs and, 1390
 - housekeeping operations, 1256–1257
 - infection control and prevention and, 1256–1257
- Sarin
 - Tokyo subway attack, 742, 1274, 1345
- SAS software, 775
- Scarlet fever
 - See *Streptococcus pyogenes* infections
- Schick test for diphtheria, 1234
- Schistosomiasis
 - acute, 1065, 1067
 - cercarial dermatitis, 1064, 1067
 - chronic, 1065–1066
 - control, 1068–1069
 - diagnostic approaches, 1066–1067
 - epidemiology, 1062–1064
 - geographic distribution, 1063
 - life cycle, 1061–1062
 - microbiology, 1060–1061
 - military relevance, 1060
 - mortality rate, 1065
 - pathogen description, 1060–1062
 - pathogenesis and clinical findings, 1064–1066
 - prevalence, 1063–1064
 - therapy, 1067–1068
 - transmission, 1062–1063
- Scrub typhus
 - complications, 871
 - description, 868
 - diagnostic approaches, 871
 - epidemiology, 869–870
 - geographic distribution, 869–870
 - incidence, 870
 - inpatient surveillance, 716
 - military relevance, 868
 - mortality rates, 871
 - pathogen description, 869
 - pathogenesis and clinical findings, 870–871
 - prevention and control, 871–872
 - therapy, 871
 - transmission, 869
- Scurvy
 - malnutrition and, 1380
- Selection bias
 - types, 772
- Selective feeding programs, 1386, 1389
- Self-help pamphlets, 1416
- Selvin, S., 759, 774
- Semilogarithmic scale line graphs, 761–762, 764
- Sempos, C.T., 759, 774
- Septicemic plague, 881
- 17D vaccine, 838
- Sexual harassment, 1406
- Sexually transmitted diseases
 - See also Human immunodeficiency virus infection
 - acquired immunodeficiency syndrome, 1171–1173
 - adolescent risk-taking behavior and, 1148, 1154–1155
 - alcohol consumption and, 1148, 1154
 - alternative recreational outlets and, 1158
 - behavior change and education and, 1155
 - behavioral considerations, 1154
 - chancroid, 1174–1175
 - chlamydia, 1164
 - commercial sex workers and, 1149–1150
 - condoms and, 1156–1158
 - contact tracing, 1153
 - diagnostic approaches, 1151, 1152–1159
 - education and the “VD lecture,” 1148, 1155–1156
 - epitreatment of sex partners, 1153
 - fear of AIDS and, 1147, 1156
 - general epidemiological issues, 1147–1151
 - genital herpes, 1166–1168
 - genital warts, 1173
 - geographic distribution, 1150
 - gonococcal pharyngitis, 1163
 - gonorrhea, 1159–1163

- incidence, 1150–1151
- individual risk factors and risk markers, 1149
- liberty calls and deployment and, 1148, 1151, 1153
- lymphogranuloma venereum, 1173–1174
- military relevance, 1146–1147
- mucopurulent cervicitis, 1166
- nongonococcal urethritis, 1165–1166
- partner notification, 1153–1154
- physical examination, 1158–1159
- prevention, 1154–1159
- proctitis, 1166
- quarantine and, 1158
- risky behavior that promotes acquiring (exhibit), 1156
- role of preventive medicine in controlling (exhibit), 1152
- screening, 1152–1153
- self-screening or “conscience checks,” 1153
- self-treatment, 1151
- spermicides and, 1158
- standard references for (table), 1147
- syphilis, 1168–1171
- therapy and control, 1152
- transmission, 1147–1150
- Shalev, A.Y., 1417
- Sharps
 - safety and disposal of, 1265
- Shelter issues
 - complex emergencies and, 1329
 - natural disasters and, 1306–1307
 - technological disasters and, 1341
- Shigella dysenteriae*
 - chi-square and P values, 747
 - common source outbreak, 732, 747
 - consumption of salad, milk, and ice cream and (table), 748
 - treatment, 1328
- Shigellosis
 - complications, 1028
 - control, 1029–1030
 - diagnostic approaches, 1028–1029
 - epidemiology, 1026–1027
 - geographic distribution, 1027
 - incidence, 1027
 - military relevance, 1025–1026
 - pathogen description, 1026
 - pathogenesis and clinical findings, 1027–1028
 - therapy, 1029
 - transmission, 1026–1027
 - vaccine development, 1029–1030
- Shingles, 1225
- Siler, J.F., 815
- Simmons, J.S., 815
- Simple random sampling, 763
- Sin Nombre virus, 944
- Sindbis and
 - Sindbis-like viral infections
 - diagnostic approaches, 828
 - epidemiology, 828
 - pathogen description, 828
 - pathogenesis and clinical findings, 828
 - supportive therapy, 828–829
- Sindbis and Sindbis-like viral infections
 - pathogen description, 828
- Skin cancer
 - pseudoepidemic at Letterman Army Medical Center, 727
- Skin testing
 - coccidioidomycosis, 1072
 - diphtheria, 1234
 - histoplasmosis, 1077
 - tuberculosis, 1141–1142
- Sleeping sickness
 - See* African sleeping sickness
- Slim, Gen. W., 710
- Smadel, J.E., 872, 1021
- Smallpox
 - clinical features of varicella and smallpox (table), 1225
 - measles and, 1215
 - plague and, 882
- Smith, C.E., 1069
- Smith, Theobald, 1237
- Smoak, B.L., 767
- Smoking
 - See* Cigarette smoking
- Snail Control in the Prevention of Bilharziasis*, 1069
- Snail fever
 - See* Schistosomiasis
- Snail Hosts of Schistosomiasis and Other Snail-transmitted Diseases in Tropical America: A Manual*, 1062
- Snails
 - See* Schistosomiasis
- Soilborne disease
 - See* Diseases transmitted by food, water, and soil; *specific diseases*
- Solid waste disposal
 - natural disasters and, 1305–1306
- Somalia
 - See also* Operation Restore Hope, Somalia
 - child mortality in refugee camps, 1326
 - International Committee of the Red Cross relief efforts, 1356
 - private voluntary organizations and, 1354
 - relief workers killed in, 1282
 - vulnerable subpopulations, 1276
- South America
 - anthrax and, 976
 - bancroftian filariasis and, 884
 - brucellosis and, 980
 - campylobacter enteritis, 1009
 - Chagas’ disease and, 897, 898
 - cholera and, 1033
 - coccidioidomycosis and, 1070
 - enterohemorrhagic *Escherichia coli* and, 1004
 - epidemic typhus fever and, 875
 - equine encephalitides and, 844, 847
 - hantaviruses and, 944
 - helminths and, 1055
 - hemorrhagic fevers, 960–961
 - leishmaniasis and, 891
 - meliodosis and, 1079
 - onchocerciasis and, 887
 - plague and, 880
 - Q fever and, 953
 - rabies and, 965
 - schistosomiasis and, 1063
 - toxoplasmosis and, 949
 - viral gastroenteritis and, 1013
 - yellow fever and, 833, 834, 835
- South Korea
 - malaria and, 808
- Southeast Asia
 - chikungunya and, 827
 - malaria and, 807
- Spanish-American War
 - dengue virus infections and, 814–815
 - respiratory pathogens and, 1119
- Spaulding, E.H., 1257
- Specimen collection, handling, and storage
 - barrier use, 793
 - communication with the laboratory and, 793

- double bagging and, 1265
- fecal specimen collection methods (table), 793
- food and other material specimen collection methods (table), 794
- general guidelines for storage and shipping temperatures of biological specimens (table), 795
- importance of, 792–793
- inappropriate specimen collection impact on diagnosis, 792
- labeling, 794–795
- opening specimen containers, 793–794
- practical issues, 793–795
- respiratory tract specimen collection methods (table), 793
- specimens for culture, 795–796
- specimens for microscopic examination, 795
- swab collection, 795–796
- universal precautions, 793
- water sample collection methods (table), 794
- Specimen shipping
 - containers, 797
 - dry ice or liquid nitrogen and, 797, 799
 - inventory and clinical information, 799
 - labeling, 797–799
 - overseas, 796–797
 - regulatory issues, 796–797
 - temperature, 797
 - time factor, 796
 - volume limitations, 797
- Spectinomycin
 - gonorrhea treatment, 1159
- Spermicides
 - sexually transmitted diseases and, 1158
- Spondylitis
 - brucellosis and, 981, 982
- Spotted fever
 - description, 876
 - diagnostic approaches, 877
 - epidemiology, 876–877
 - geographic distribution, 876
 - incidence, 876–877
 - meningococcal disease and, 1135
 - military relevance, 876
 - mortality rate, 877
 - pathogen description, 876
 - pathogenesis and clinical findings, 877
 - therapy, prevention, and control, 877–878
 - transmission, 876
- Spousal abuse, 1406
- Spouses
 - psychological effects of predeployment, deployment, and reunion of family members, 1410–1412, 1418, 1419
 - support groups, 1411, 1419
- Stafford Act
 - See Robert T. Stafford Disaster Relief and Emergency Assistance Act
- Stamm, W.E., 1160–1161
- Standard deviation
 - calculation example, 761
 - continuous variables, 760
 - sampling and, 765–766
- Standard precautions, 1258–1259, 1264
- Staphylococcus aureus*
 - outbreak investigation, 735
- Statistical associations
 - cause-and-effect relationships, 779–780
- STDs
 - See Sexually transmitted diseases
- Steady state incidence rates, 758
- Steere, A.C., 863
- Sterile technique, 1256
- Stoll, N.R., 1050
- Stratified analysis
 - confounding bias and, 774
- Stratified sampling, 765
- Streptocerciasis, 889
- Streptococcal infections
 - See also specific infections
 - penicillin treatment, 730
- Streptococcal toxic shock syndrome, 1130
- Streptococcus pneumoniae* infections, 1123–1124
- Streptococcus pyogenes* infections
 - description, 1119
 - diagnostic approaches, 1121
 - epidemiology, 1121
 - pathogen description, 1121
 - pathogenesis and clinical findings, 1121
 - therapy and control, 1122–1123
- Streptomycin
 - brucellosis treatment, 982
 - plague treatment, 882
 - side effects, 1143
 - tuberculosis treatment, 1143
 - tularemia treatment, 974
- Stress Dimensions in Military Operations Other Than War*, 1416
- Study designs
 - case-control studies, 767–769
 - case series, 766
 - cohort studies, 769–771
 - cross-sectional studies, 767
 - descriptive studies, 766–767
 - ecological studies, 766
 - experimental studies, 766, 771–772, 779
 - observational studies, 766, 779
 - randomized clinical trials, 766, 771–772
- Substance abuse
 - deployment and, 1407–1408
- Sulfadiazine
 - Streptococcus pyogenes* infection treatment, 1122
 - toxoplasmosis treatment, 952
- Sulfonamides
 - melioidosis treatment, 1081
 - meningococcal disease treatment, 1136
 - Streptococcus pyogenes* infection treatment, 1122
- Supplemental feeding programs, 1329, 1386
- Suramin
 - African sleeping sickness treatment, 900
- Surveillance
 - See also Disease and nonbattle injury surveillance
 - complex disasters and, 1322, 1323
 - components of medical surveillance by the phase of deployment (table), 1435
 - deployment and, 1408–1409
 - disease and injury registries, 1343
 - infection control and prevention and, 1253–1254
 - natural disasters and, 1295–1297
 - postdeployment, 1432
 - technological disasters and, 1343
 - Weekly Surveillance Reporting Form for Refugees or Displaced Persons in a Complex Humanitarian Emergency (figure), 1322
- Swartzwelder, C., 1050
- Swimmer's itch
 - See Schistosomiasis
- Syphilis
 - diagnostic approaches, 1169, 1171
 - epidemiology, 1169
 - pathogen description, 1168

pathogenesis and clinical findings, 1169
treatment (exhibit), 1170
treponemal tests, 1171
Systematic sampling, 765

T

Tables

data display method, 760

Tafenoquine

malaria treatment, 812, 813

Tapeworms

See Cestodes

Targeted supplementary feeding programs, 1386

Taussig, S., 857, 860

TBE

See Tick-borne encephalitis

Technological disasters

accurate history of the event and, 1342

adverse health effects associated with, 1339

assessing clinical presentations and, 1342

assessment units collocated at the Science and Technology Center, Atlanta, Georgia, during the 1996 Olympics (table), 1346

assessments of public health after, 1341–1343

data analysis, 1343

definition, 1339

epidemiologic studies, 1344–1345

examples of long-term consequences after exposure to selected chemicals (table), 1344

examples of major industrial disasters (table), 1339

exposure histories, 1344–1345

important emergency response planning issues that were identified following the sarin vapor release in Tokyo, 1995 (exhibit), 1345

incidence and impact, 1274

increase in, 1346

laboratory evaluation of the affected population and, 1342–1343

laboratory evaluation of the environment, 1343

multidisciplinary approach, 1340

personal protective equipment and, 1342

planning for in a civilian environment, 1340–1341

preventive medicine responsibilities, 1346–1347

public health mitigation procedures, 1341

public health perspectives, 1337–1350

risk factors, 1340

surveillance, 1343

terrorism and, 1339–1340, 1345–1346

United Nations organizations or programs that may provide assistance following technological disasters (exhibit), 1341

Tempest, B., 882

Tent camps

fire prevention, 1307

siting and subdividing, 1306–1307

Terrorism

access to highly destructive weapons, 1280

disasters and, 1274, 1339–1340, 1372

laser weapons and, 1280

outbreaks and, 741–742, 745–746

public health response to, 1345–1346

Science and Technology Center establishment for the 1996 Olympic Games in Atlanta, Georgia, 1346

Terrorism Incident Annex to the Federal Response Plan, 1368

Terrorism Incident Annex, 1368

Tetanus

complications, 1232

description, 1230

diagnostic approaches, 1232

epidemiology, 1231–1232

geographic distribution, 1231

incidence, 1231–1232

military relevance, 1230–1231

mortality rate, 1232

pathogen description, 1231

pathogenesis and clinical findings, 1232

summary guide to tetanus prophylaxis in routine wound management (table), 1233

therapy, 1232–1233

transmission, 1231

vaccine, 1232, 1233–1234

Tetanus immune globulin, 1233

Tetracycline

anthrax treatment, 978

brucellosis treatment, 983

cholera treatment, 1036, 1037

ehrlichiosis treatment, 868

gonorrhea treatment, 1159

Lyme disease treatment, 864

malaria treatment, 813

melioidosis treatment, 1081

murine typhus fever treatment, 873

plague treatment, 882, 883, 884

Q fever treatment, 956

scrub typhus treatment, 871

shigellosis treatment, 1029

spotted fever treatment, 877–878

tularemia treatment, 974

Thailand

sexually transmitted diseases and, 1147, 1157

Therapeutic feeding programs, 1386

Thiabendazole

helminth infection treatment, 1059

Thieler, M., 838

Thirty Years' War

viral hepatitis and, 1175

Tick-borne diseases

See Diseases transmitted primarily by arthropod vectors; *specific diseases*

Tick-borne encephalitis

contaminated milk and milk products and, 850, 852

diagnostic approaches, 855–856

epidemiology, 850, 852–854

Far Eastern subtype, 854

geographic distribution, 853

incidence, 854

Kyasanur Forest disease, 852, 855

louping ill virus, 852, 855

military relevance, 850

mortality rate, 850

Omsk hemorrhagic fever, 852, 855

other names for, 850

pathogen description, 850

pathogenesis and clinical findings, 854–855

personal protection and, 857

Powassan encephalitis, 854–855

summary of clinically important tick-borne encephalitis complex viruses (table), 851–852

supportive therapy, 856

transmission, 850, 852–853

vaccines, 856–857

Western subtype, 854

Ticks

See also Diseases transmitted primarily by arthropod vectors;

- Diseases transmitted primarily from animals to humans
- removal technique, 865–866, 878
- Tinidazole
 - amebiasis treatment, 1042
 - giardiasis treatment, 1044
- TMP/SMX
 - See Trimethoprim-sulfamethoxazole
- Toole, M.J., 1273–1274
- Tornadoes
 - See Windstorms
- Toroviruses, 1013
- Toxic shock syndrome
 - case definition and, 726
- Toxoplasmosis
 - control, 952–953
 - diagnostic approaches, 951
 - differential diagnoses, 953
 - epidemiology, 949–950
 - geographic distribution, 949
 - incidence, 949–950
 - major syndromes, 947–948
 - military relevance, 947–948
 - mortality rate, 947
 - oocysts, 948
 - pathogen description, 948–949
 - pathogenesis and clinical findings, 950–951
 - tachyzoites, 948
 - therapy, 951–952
 - tissue cysts, 948–949
 - transmission, 949
- Transfusion malaria, 807, 808
- Transmission-based precautions
 - airborne precautions, 1259–1260
 - contact precautions, 1262–1263
 - droplet precautions, 1260–1262
- Traub, R., 872
- Traveler's diarrhea
 - campylobacter enteritis and, 1009
 - Cyclospora* species infections and, 1047, 1048–1049
 - enteropathogenic *Escherichia coli* and, 1007
 - enterotoxigenic *Escherichia coli* and, 1001, 1002, 1004
- Trematodes
 - pathogen description, 1052, 1057–1058
 - transmission, 1055
- Triclabendazole
 - helminth infection treatment, 1059
- Trimethoprim-sulfamethoxazole
 - cholera treatment, 1036, 1037
 - Cyclospora* species infection treatment, 1049
 - enteroinvasive *Escherichia coli* treatment, 1006
 - enterotoxigenic *Escherichia coli* treatment, 1004
 - melioidosis treatment, 1081
 - nontyphoidal salmonellosis treatment, 1024
 - Q fever treatment, 956
 - shigellosis treatment, 1029
 - typhoid fever treatment, 1019–1020
- Trypanosomiasis
 - African sleeping sickness, 899–901
 - Chagas' disease, 897–899
- Tsetse flies
 - See African sleeping sickness
- Tsunamis
 - description and impact, 1294
 - mortality rates, 1300–1301
- Tube agglutination test
 - brucellosis diagnosis, 982
- Tuberculin tests, 1141–1142
- Tuberculosis
 - awareness and, 1140–1141
 - compliance issues, 1144
 - contact investigations, 1145–1146
 - control, 1144–1146
 - cultures, 1141
 - diagnostic approaches, 1140–1142
 - displaced persons and, 1146
 - drug resistance, 1140, 1142, 1146
 - epidemiology, 1139–1140
 - geographic distribution, 1139–1140
 - incidence, 1140
 - indications for preventive therapy for tuberculosis infection (table), 1141, 1142
 - isolation of patients, 1143
 - military relevance, 1138–1139
 - mortality rate, 1139–1140, 1146
 - pathogen description, 1139
 - pathogenesis and clinical findings, 1140
 - reporting cases, 1145
 - respiratory protection equipment, 1259–1260
 - screening, 1144
 - shipboard outbreaks, 1139, 1144
 - therapy, 1142–1144
 - transmission, 1139
 - transportation of patients, 1143–1144
 - tuberculin test, 1141–1142
 - vaccine, 1141, 1146
- Tularemia
 - clinical forms, 973
 - complications, 973
 - control, 975
 - description, 971
 - diagnostic approaches, 974
 - epidemiology, 971–973
 - geographic distribution, 972
 - incidence, 972–973
 - military relevance, 971
 - mortality rate, 973
 - pathogen description, 971
 - pathogenesis and clinical findings, 973
 - plague and, 882
 - therapy, 974–975
 - transmission, 971–972
 - vaccine, 975
- Type B encephalitis
 - See Japanese encephalitis
- Typhoid fever
 - chronic carriers, 1020
 - complications, 1019
 - control, 1020–1022
 - diagnostic approaches, 1019
 - epidemiology, 1018
 - geographic distribution, 1018
 - incidence, 1018
 - military relevance, 1018
 - mortality rate, 1019
 - natural disasters and, 1298
 - nonspecific symptom presentation, 717
 - pathogen description, 1018
 - pathogenesis and clinical findings, 1018–1019
 - therapy, 1019–1020
 - transmission, 1018
 - vaccines, 1020–1022
- Typhoidal tularemia, 973
- Typhoons
 - See Windstorms

Typhus

- epidemic typhus fever, 874–876
- murine typhus, 872–874
- scrub typhus, 868–872
- spotted fever, 876–878

U

- Ulceroglandular tularemia, 973
- Uniformed Code of Military Justice, 1331
- United Nations
 - constraints on reform, 1358–1359
 - humanitarian relief operations, 1357–1358
 - organizational structure, 1357
 - organizations or programs that may provide assistance following technological disasters (exhibit), 1341
- United Nations Development Program
 - responsibilities, 1357
- United Nations High Commissioner for Refugees
 - aim of humanitarian assistance, 1276
 - humanitarian rations and, 1387
 - international law mandate, 1355
 - responsibilities, 1357
 - water quality standards, 1303
- United Nations International Children's Emergency Fund
 - background data on populations in crisis, 1319
 - epidemiologic assessment teams and, 1297
 - oral rehydration solutions, 1017
 - polio eradication goal, 1237
 - responsibilities, 1357
- United States
 - See also* Domestic disaster response
 - anthrax and, 976
 - brucellosis and, 980
 - cholera and, 1031
 - coccidioidomycosis and, 1070
 - Cyclospora* species infections and, 1048
 - ehrlichiosis, 866–867
 - enterohemorrhagic *Escherichia coli* and, 1004, 1005
 - equine encephalitides and, 847
 - floods of 1993 domestic disaster response example, 1372
 - giardiasis and, 1042, 1043
 - gonorrhea and, 1159
 - histoplasmosis and, 1074–1075
 - hurricanes and domestic disaster response, 1372
 - leptospirosis and, 939
 - Lyme disease and, 861–863
 - melioidosis and, 1079
 - meningococcal disease and, 1133
 - National Security Strategy, 1397–1398
 - nontyphoidal salmonellosis and, 1022, 1023
 - Northridge, CA, earthquake domestic disaster response example, 1372
 - Oklahoma City terrorist bombing, 1274, 1372
 - pertussis and, 1229
 - polio epidemics, 1238
 - Q fever and, 953
 - rabies program, 964
 - rubella and, 1219
 - spotted fever and, 876
 - tetanus and, 1231
 - tuberculosis and, 1140, 1142
 - West Nile fever and, 830–831
 - yellow fever and, 833
- Urethritis
 - See* Gonorrhea
- US Agency for International Development
 - disaster response funds, 1279

- Office of Foreign Disaster Assistance, 1291, 1321, 1359
- PVO funding, 1353
- US Air Force
 - Prime BEEF (Base Engineer Emergency Force), 1303
- US Army
 - Community and Family Support Center, 1416
 - Medical Research Institute of Chemical Disease, 1346
 - Medical Research Institute of Infectious Diseases, 958, 975, 1263, 1346
 - Peace Institute, 1318
 - Plague Surveillance Program, 883
 - Technical Escort Unit, 1346
 - Theater Army Medical Laboratory, 1431
- US Marine Corps
 - Chemical Biological Incident Response Force, 1346
 - diarrhea outbreak surveillance during the Persian Gulf War, 719–721
- US military
 - See also specific armed forces*
 - Uniformed Code of Military Justice, 1331
 - work with international humanitarian agencies, 1353, 1359–1361
- US Navy
 - Forward Deployable Laboratory, 1431
 - Mobile Medical Augmentation Readiness Teams, 1303
- US Post Office
 - specimen shipping regulations, 796

V

- Vaccination
 - See* Diseases controlled primarily by vaccination; Vaccines
- Vaccine-associated paralytic poliomyelitis, 1240
- Vaccines
 - See also* Diseases controlled primarily by vaccination
 - adenovirus, 1129–1130
 - allergic reactions, 839, 843, 844
 - anthrax, 979
 - Argentine hemorrhagic fever, 961
 - chikungunya, 827
 - cholera, 1037–1038
 - Crimean-Congo hemorrhagic fever, 963
 - dengue virus infections, 816–817
 - deployment and, 1414–1415
 - epidemic typhus fever, 874, 876
 - equine encephalitides, 849
 - hepatitis A, 1185, 1186
 - hepatitis B, 1186–1187
 - influenza, 1128
 - Japanese encephalitis, 839, 843–844
 - Lyme disease, 866
 - malaria, 814
 - measles, 1217–1218
 - meningococcal disease, 1133, 1136–1137
 - mumps, 1221, 1222–1223
 - natural disasters and, 1298
 - pertussis, 1227–1228, 1230
 - plague, 879, 880, 883
 - polio, 1238, 1239, 1240–1241
 - Q fever, 956
 - rabies, 965, 967–971
 - respiratory diseases, 1119
 - risk communication and, 1415
 - rubella, 1218–1219, 1220
 - shigellosis, 1029–1030
 - Streptococcus pneumoniae* infections, 1124
 - tetanus, 1232, 1233–1234
 - tick-borne encephalitis, 856–857

- tuberculosis, 1141, 1146
 - tularemia, 975
 - typhoid fever, 1020–1022
 - varicella, 1223, 1226–1227
 - yellow fever, 837, 838–839
 - Variables
 - categorical, 759, 760
 - continuous, 759, 760
 - Varicella
 - clinical features of varicella and smallpox (table), 1225
 - complications, 1224–1225
 - description, 1223
 - diagnostic approaches, 1225–1226
 - epidemiology, 1223–1224
 - geographic distribution, 1224
 - incidence, 1224
 - military relevance, 1223
 - mortality rate, 1224
 - outbreaks at the Defense Language Institute, 731
 - pathogenesis and clinical findings, 1224–1225
 - prevention other than vaccination, 1227
 - reactivation as shingles, 1225
 - therapy, 1226
 - transmission, 1223–1224
 - vaccine, 1223, 1226–1227
 - VDRL rapid plasma reagin
 - syphilis diagnosis, 1169, 1171
 - Venezuelan equine encephalitis
 - See* Equine encephalitis
 - Venezuelan hemorrhagic fever, 960–961
 - VHF
 - See* Venezuelan hemorrhagic fever
 - Vickers Patient Isolation System, 1263, 1264
 - Vietnam War
 - Agent Orange exposure, 1428
 - dengue virus infections, 817
 - helminth infections, 1050
 - malaria and, 805, 808
 - measles and, 1215
 - meliodosis and, 1078
 - nontyphoidal salmonellosis and, 1022
 - “over the hump” phenomenon, 1404–1405
 - psychological aspects of deployment and reunion, 1397, 1399, 1404, 1409–1410, 1411, 1418
 - rotation policy, 1404
 - sexually transmitted diseases and, 1147, 1148
 - shigellosis and, 1029
 - tuberculosis and, 1138
 - viral hepatitis and, 1175
 - Violence
 - disasters and, 1273, 1279, 1299
 - Viral diseases
 - See also specific diseases*
 - CDC guidelines for confirmation of foodborne disease outbreaks, 739
 - Viral gastroenteritis
 - CDC guidelines for collecting specimens for viral diagnosis (table), 1015, 1016
 - control, 1017–1018
 - description, 1011
 - diagnostic approaches, 1015
 - epidemiology, 1013–1014
 - geographic distribution, 1014
 - incidence, 1014
 - military relevance, 1011–1012, 1017
 - mortality rate, 1012, 1013
 - pathogen description, 1012–1013
 - pathogenesis and clinical findings, 1014–1015
 - significant viruses associated with human gastroenteritis (table), 1012
 - therapy, 1015–1017
 - transmission, 1013–1014
 - Viral hemorrhagic fevers
 - See also* Diseases transmitted primarily by arthropod vectors; *specific diseases*
 - arenavirus hemorrhagic fevers, 958–961
 - Crimean-Congo hemorrhagic fever, 962–963
 - description, 956
 - differential diagnoses, 957
 - filovirus hemorrhagic fevers, 961–962
 - military relevance, 957–958
 - therapeutic and preventive measures specific for selected viral hemorrhagic fevers (table), 958
 - viral hemorrhagic fevers of humans (table), 957
 - Viral hepatitis
 - characteristics of hepatitis viruses (table), 1177
 - control and prevention, 1176, 1183–1188
 - diagnosis of viral hepatitis and the appropriate interpretation of immunologic markers (table), 1181
 - diagnostic approaches, 1181–1182
 - epidemiology, 1177–1179
 - hepatitis seroprevalence studies in selected countries (table), 1178
 - military relevance, 1175–1176
 - mortality rate, 1180
 - pathogenesis and clinical findings, 1179–1181
 - pathogens description, 1176–1177
 - therapy, 1182–1183
 - vaccines, 1184
 - Visceral leishmaniasis
 - See* Leishmaniases
 - Vitamin A deficiency
 - complex emergencies and, 1327
 - malnutrition and, 1380
 - Volcanic eruptions
 - description and impact, 1294
 - Volunteer bias, 772
- ## W
- Waldman, R.J., 1273–1274
 - Walter Reed Army Institute of Research
 - epidemiologic assessment teams and, 1297
 - meningococcal disease vaccine, 1136
 - Walter Reed Army Medical Center
 - Pentostam availability, 896
 - War of 1812
 - respiratory pathogens and, 1119
 - Waste water disposal, 1305
 - Waterborne disease
 - See also* Diseases transmitted by food, water, and soil; *specific diseases*
 - natural disasters and, 1298
 - organisms suspected in, 734
 - sample collection, 734, 794
 - terrorism or sabotage and, 741–742
 - Waterhouse-Friderichson syndrome, 1134
 - Waterless hand disinfectants, 1256, 1265
 - Weight-for-height index, 1380–1382, 1383–1384, 1385
 - Weil-Felix test
 - epidemic typhus fever diagnosis, 875
 - murine typhus fever diagnosis, 873–874
 - scrub typhus diagnosis, 871
 - West Nile fever
 - diagnostic approaches, 832
 - epidemiology, 830–831

- introduction into the United States, 830–831
- pathogen description, 830
- pathogenesis and clinical findings, 831
- supportive therapy, 832
- wild birds and, 831
- Western blot assay
 - HIV-1 diagnosis, 791
 - Lyme disease diagnosis, 864
- Western encephalitis, 851, 854
- Western equine encephalitis
 - See Equine encephalitides
- When the Mission Requires Recovering Human Dead Bodies*, 1416
- WHO
 - See World Health Organization
- Whooping cough
 - See Pertussis
- Wild animals
 - See Diseases transmitted primarily from animals to humans
- Wild birds
 - See also Diseases transmitted primarily from animals to humans
 - West Nile fever and, 831
- Windstorms
 - description and impact, 1292
 - mortality rate, 1301
- Women
 - chlamydia infection and, 1164
 - condom use and, 1158
 - death and injury from natural disasters and, 1301
 - deployment stresses, 1405–1406
 - disasters and, 1280–1281
 - genital warts and, 1173
 - gonorrhea and, 1159, 1160
 - interpersonal violence and, 1406
 - Mycoplasma pneumoniae* infections and, 1125
 - posttraumatic stress disorder and, 1299
 - reunion issues after deployment, 1410
 - sexual harassment and, 1406
 - sexually transmitted diseases and, 1154, 1155
 - spousal abuse and, 1406
 - “waiting wives,” 1411
- Woodward, T., 872, 1019
- Woolf, B., 778
- World Bank
 - background data on populations in crisis, 1319
- World Food Programme, 1330, 1357, 1387
- World Health Organization
 - background data on populations in crisis, 1319
 - brucellosis treatment guidelines, 982–983
 - Consultative Group on Poliomyelitis, 1240, 1241
 - cooperative partnerships with other agencies, 750
 - Ebola hemorrhagic fever outbreak in Zaire in 1994 and, 1345
 - eflornithine availability, 901
 - energy requirements for food assistance, 1386–1387
 - epidemiologic assessment teams and, 1297
 - filariasis incidence estimates, 884, 887
 - Global Poliomyelitis Eradication Initiative, 1237, 1240
 - growth reference charts, 1383
 - International Health Regulations, 837
 - oral rehydration solutions, 1017, 1035
 - pertussis estimate, 1229
 - plague treatment, 882
 - protocols for disease management, 1330
 - rabies estimates, 965
 - rabies treatment, 968
 - rapid nutritional assessment guidelines, 1380
 - schistosomiasis estimates, 1063
 - schistosomiasis treatment recommendations, 1067
 - sexually transmitted diseases estimate, 1150
 - ten critical emergency relief measures, 1327–1331
 - tuberculosis treatment recommendations, 1143, 1146
 - water quality standards, 1303
 - yellow fever and, 835, 838
- World Vision
 - bombing of headquarters, 1355
 - food program, 1330
- World War I
 - cholera and, 1031
 - diphtheria and, 1234–1235
 - measles and, 1215
 - meningococcal disease and, 1131
 - mumps and, 1220–1221
 - polio and, 1237–1238
 - psychiatric disorders and, 1430
 - psychological aspects of deployment and reunion, 1409
 - respiratory pathogens and, 1119
 - sexually transmitted diseases and, 1154
 - tetanus and, 1231
 - tuberculosis and, 1138
 - typhoid fever and, 1020–1021
- World War II
 - amebiasis and, 1038
 - coccidioidomycosis and, 1069, 1071
 - dengue virus infections, 815–817
 - diphtheria and, 1235
 - epidemic typhus fever and, 874
 - filariasis and, 884
 - hantaviruses and, 943
 - hookworm infections, 1050
 - Japanese encephalitis and, 839
 - leishmaniasis and, 890–891
 - malaria and, 805
 - measles and, 1215
 - mumps and, 1221
 - murine typhus fever and, 872–873
 - plague and, 879
 - psychiatric disorders and, 1430
 - psychological aspects of deployment and reunion, 1397, 1404, 1409
 - Q fever and, 953
 - rabies and, 964
 - respiratory pathogens and, 1119
 - sandfly fever and, 859, 860
 - schistosomiasis and, 1060
 - scrub typhus and, 868–869, 870
 - sexually transmitted diseases and, 1146–1147, 1148, 1154
 - shigellosis and, 1025–1026
 - spotted fever and, 876
 - Streptococcus pyogenes* infections and, 1121
 - tetanus and, 1231
 - tuberculosis and, 1138–1139
 - viral hepatitis and, 1175–1176
- Worms
 - See Filariasis; Helminths; Schistosomiasis; *specific diseases*
- Wright-Giemsa stain
 - toxoplasmosis diagnosis, 948

X

- Xerophthalmia
 - malnutrition and, 1380

Y

- Yellow fever
 - clinical phases, 836

- complications, 836
- control, 837
- dengue virus infections and, 815, 821
- diagnostic approaches, 837
- differential diagnoses, 836
- epidemiology, 833–835
- geographic distribution, 835
- incidence, 835
- laboratory findings, 836, 837
- military relevance, 832–833
- pathogen description, 833
- pathogenesis and clinical findings, 835–837
- quarantine, 837–839
- recommended reviews (table), 832
- sylvan or jungle pattern, 832, 833, 834
- therapy, 837
- transmission, 833–834
- urban pattern, 832, 833
- vaccine, 837, 838–839
- Yerkes, S.A., 1407
- Yugoslavia
 - human rights abuses, 1326
 - land mines, 1280
 - relief workers killed in, 1279

