

INDEX.

- Aberdeen, severity of measures in 343
 Abnormal season in Bombay 141
 Absence of lymphangitis 308
Account of plague at Antioch 12, 16; at
 Constantinople 6, 12; first medical, at
 Pakhoi 55; in England 24
Accurate diagnosis essential 379; and its
 difficulties 379
 Acute toxic cases in rats 401
 Additional risk of extension 199
 Administrative arrangements 368
 Agathias' account of plague 12
 Agra, plague in 43
 Ahmadabad, plague in 42
 Alarm created by plague 377
 Alimentary canal 237
 Ambulant plague 296, 309
 Amoy 319
 Ancient belief as to infection 221
Animals affected with plague 106; effect of
 bacillus on 94; experiments on 113;
 result of experiments 107; under natural
 infection 128
 Antiquity of plague 3
 Antiseptic treatment 318, 327
 Ants, plague bacilli in 222
 Appearance of plague rats 103
 Appendix I 414
 Appendix II 416
 Appendix III of Paris Convention 459
 Arabia, recrudescence in 38
Arctomys bobac 223
 Arthritis 293
 Assyr, conditions in 183
 Astrakhan, plague in 39, 159
 Asuncion 207
 Attempt at specific treatment 319
 Attention to diet 334
 Atypical case 298
Aura pestilentiae in Egypt 163
 Australia and S. Africa 215
 Austria and Germany, measures in 341
 Austrian Commission (expts.) 113
 Autopsies 239
 Avignon epidemic 23, 161
 Axillary buboes 278
- Bacilli in ants, bugs, and flies 222
 Bacillus, Danysz' 396, 397; discovered 64;
 Kitasato's 88
- Bacteriological condition in post-mortem
 242; examination of rats 369, 383; test 307
 Barbary, West, plague in 36
 Basis of present treatment 319
 Benghazi, recrudescence in 38
 Benign bubonic 262
 Black Death 21, 135
 Bleeding 317
 Blood 289
 Blood vessels, infection to 251
 Boiling 395
 Bombay 66, 69, 186, 187, 319; Presidency,
 extension to 69, 141
 Bouillon, characteristic growth in 86
 Brisbane 323
Bubo, changes in primary 231; changes in
 secondary 231; local treatment of 330;
 treatment of 318; veins in vicinity of
 228
Buboes, axillary 278; cervical 279; con-
 tents and condition of 273; external
 primary 227; inguinal 275; internal 229;
 lymphatic system 273; multiple 283;
 pain 274; secondary 230; situation 275;
 size 274; tenderness 274; termination
 274; with and without 261
Bubonic, benign 262; grave 262; not directly
 infectious 213
 Bugs, ants, and flies, bacilli in 222
- Callao 206
 Calves, experiments on 121, 122
Canton and Hongkong centres of distri-
 bution 64; connected with Kwangsi and
 Kwantung 59; Hongkong largest Euro-
 pean possession near 63; in the 19th and
 20th century 185; plague at, in 1894 59;
 plague in, in Jan. 1894 61
Cape Town 191, 203, 322; unusual season
 preceded epidemic in 142
 Carbolic acid treatment 327, 328
 Carbuncles 284; treatment of 330
 Cargoes, infection connected with 203
 Case, an atypical 298
 Cases 296
 Cats affected with plague 104
 Cats, dogs, etc. in 16th and 17th centuries
 220
 Causes of death 264
 Caution as to prognosis 314

- Certain carriers required 194
 Certain symptoms in epidemics 168
 Cervical buboes 279
 Channels of infection 249
 Characteristic growth in bouillon 86; symptoms 266
 Characteristics, cultural 82; of outbreaks in Kumaon 178
 Chawls of Bombay 187
 Chemical disinfectants 393
 China and India 74
 Chinese village 192
 Chronic plague and marasmus 293
 Circulatory system 234
 Clayton apparatus the best disinfectant for houses 391; for ships 359, 365; process for destroying rats 359
 Climatic factors, influence of 151
 Clinical features 260
 Cold water treatment 318
 Coloured sweats in plague of London 168
 Commerce, plague and 31
 Commission, Austrian, experiments 113; German, experiments 108
 Complications 292
 Conclusion 410
 Concurrent diseases 294
 Condition, bacteriological 242; histological 243
 Conditions affecting insect life 153; hygienic 329; in animals 128; in Assy 183; in Yunnan 182
 Constantinople, account of plague at 6, 12; gateway for entrance of pandemic 21
 Contents and condition of buboes 273
 Controversies in Bombay; Calcutta; Cape Town; San Francisco 374
 Convalescence, treatment during 330
 Convalescents, infectivity of 257
 Council of health in Venice 337
 Course of pandemic 22
 Creighton on Pariset's views 132; on the Black Death 135
 Crowded buildings in Mandvi 187
 Crusades, plague and the 17; plague at time of 20
 Cultural characteristics 82
 Curative treatment powerless 316
 Cyllin 328
- Danger of existing pandemic 145
Danysz' bacillus 370; attenuation of virulence of 397; destruction of rats with 396; differential tests of 400; exaltation of virulence of 397; general biology of 400; staining of 400; used in Cape Town 397; used in Odessa 399
 Dead, disposal of the 331, 335, 368
 Death, causes of 264
 Definition of plague 1
 Depressing influences and plague 172
 Description, Dr Lowry's, of Pakhoi 55; Francis', of houses in Garhwal and Kumaon 181; Planch's, of houses in Garhwal and Kumaon 181; of Yunnan 48
 Destruction of rats 396; in healthy locality 369; in warehouses 401
 Diagnosis and prognosis 306; in typical case 306
 Different epidemics 168; media 89; types concurrent 162; views as to etiology 130
 Diffusion and modes of dissemination 194; slow, of the plague 70
 Diffusive powers, variation in 143
 Digestive system 291
 Disappearance of plague from Egypt 37, 350; from Turkey 37, 350
 Discovery of bacillus 78; existing methods after 354
 Diseases running concurrently 294
 Disinfectants, chemical 393; use of 331
 Disinfection, existing methods unsatisfactory 390; of baggage 364; of the house 389, 391
 Disposal of the dead 331, 335
 Dissemination by infected clothes 213; by infected rats 214
 Distribution of plague, and history 1; Canton a centre of 64; Hongkong a centre of 64; in different parts of world 74
 Districts of Garhwal and Kumaon 47
 Dogs, cats, pigeons and fowls 220
 Dosage of serum 326
 Dr Manser's illness 300
 Dr Müller's illness 302
 Drying effect 92
 Durban 204
 Duties of plague organisation 384
- Earlier views as to infection 76
 Early malignity of Avignon epidemic 161
 East London 204
 Edinburgh, enlightened policy of 343
 Educational tracts 341
 Effect of drying 92; of inoculation 407; of the bacillus on animals 94; of the plague on animals 94
 Egypt and Turkey 4, 350; disappearance of plague from 37; retrocession in Syria and 19
 Egyptian epidemic, aura pestilentialis in 163; three degrees of severity of 164
 Eighteenth century, plague in the 34
 Endemic centre in Uganda 75; centres 177; plague in Pakhoi 57
 Endemicity and epidemicity 176; affected by temperature 150
 England, account of epidemic in 24
 Enlightened policy in Edinburgh 343
 Epidemic, account of, in England 24; at Astrakhan and Vetlianka 159; height of first Bombay 69; preceded by mortality among rats 53, 101, 102, 103
 Epidemics and pandemics 130; at different seasons 146; severity of, at Dharwar and Poona 71

Index

463

- Epidemiology 76
 Epizootic, tarbagan subject to 223
Epizootics, associated with plague epidemics 97; relationship of, to plague 96
 Erection of plague hospitals 367
 Establishment of hospitals 348; of quarantine stations 348
 Etiology of pandemics and epidemics 130
 European Powers, International conferences of 351
 Evacuant treatment 317
 Evacuation of infected houses 348; of premises 387
 Evagrius' account of the plague 12
 Exceptional conditions in Hongkong 140
 Existing measures 354; pandemic 143
 Experiments by Austrian Commission 113; by German Commission 108; in Hongkong 116; of Haffkine 116; on animals 107; on calves 121, 122; on fowls 121; on monkeys 121, 123, 124; on pigs 117, 118, 119, 120
 Exposure to direct rays of sun 396; high temperatures 395
 Extension, additional risk of 199; from India and China 74; to the Bombay Presidency 69
 External primary buboes 227
 Eye diseases 293
- Facts known and established 411
 Failure of measures to prevent spread 351
 Favourable signs 314
 Features, clinical 260
 Firmness and judgment required 378
 First governmental measures 336; governmental orders in London 342; preventive measures in Venice 336; Quarantine Act 349; recorded pandemic 5
 Five degrees of severity in Marseilles epidemic 162
 Flea theory 218
 Flies, ants, and bugs, bacilli in 222
 Food, infected, possibly causes plague 126
 Formation of stalactites 87
 Fostering conditions of plague 184; of endemicity 176; of epidemicity 176
Fowls, experiments on 121; pigeons, cats, and dogs 220
 Francis' description of houses in Garhwal and Kumaon 181
 Fulminating and septic variety 297
 Fumigation has its limits 393; of dwellings 334; with Clayton's apparatus 370
- Gangrenous pustules 284
 Garhwal and Kumaon 47, 178
 General retrocession in Europe 19; treatment 329
 German Commission, experiments by 108
 Germany and Austria, measures in 341
 Glandular swellings before and after plague 166
 Glasgow 322
- Gradually increasing mortality in India 71
 Grave bubonic or Pestis major 262
 Gregory, Bishop of Tours 15
 Guy de Chauillac's description of plague 23
- Haffkine's experiments 116; plague prophylactic 402; prophylactic, preparation of 404; stalactites 87
 Health camps 367
 Healthy persons can carry infection 196
 Height of first Bombay epidemic 69
 Hindrances to declare a place infected 372
 Histological changes in primary bubo 231; changes in secondary bubo 232; condition 243
 History and distribution of plague 1
 Hodges' views 347
 Hongkong 322; and Canton centres of distribution 64; experiments in 116; in the 19th and 20th century 185; meteorological conditions in 140; observations in 216
 House, hygiene of the 332
 Householders, information to 388
 Hygiene of the house 332; personal 332
 Hygienic conditions 329
- Immunity, natural 171
 Increased virulence in successive years 169
 Incubation period 258, 261, 352
 India and China, observations in 217; extension from to other parts 74; extension to Bombay Presidency in 69; Garhwal and Kumaon endemic centres in 47; gradually increasing mortality in 71; observations in 217; plague in 40; scarcity preceded plague in 140
 Infected articles lose infectivity 154; articles may retain infectivity 154; clothes, dissemination by 213; house, prophylaxis in 331; houses, evacuation of 348; locality, modes of infection in 210
Infection carried by healthy persons 196; carried by sick persons 195; carried long distances in ships 201; channels of 249; connected with cargoes and rats 203; mixed 256; mode of exit of, from body 256; nature of 76; of inland towns 208; through mucous membrane 254; through respiratory tract 256; through skin to blood vessels 251; through skin to lymphatics 249; transported by infected clothes 197; transported by movements of crowds 201
 Infectious diseases, variety of type in 175
 Infectivity of convalescents 257
 Influence of climatic factors 151
 Influenza and plague 312
 Information to householders 388
 Inguinal buboes 275
Inoculation, effects of 407; method of 406; preventive 402; protective 331; results of 407

- Internal buboes 229
 International conference of Powers 351;
 measures 354; preventive measures 350
 Involution forms 85
 Ireland, plague in 17
 Isolation of the rich 336
- Jains indifferent to death 188
 Johannesburg, reported cases in 374
- Karachi 69, 320
 Karad 320
 Kitasato discovers bacillus 63
 Kitasato's bacillus 88; serum 326
 Kumaon and Garhwal endemic centres 47
 Kurdistan 177
 Kwaium and Nanningfu, plague at 59
 Kwangsi and Kwantung connected with
 chief towns 59
- Lazaretto established by Venetians 337
 Le Baker de Swynebroke on plague 24
 Liver 237
 Local measures 358; in anticipation of
 outbreak 366
 Local treatment of buboes 330
 London, first governmental orders in 342;
 plague in 27, 184; quarantine station for
 344
 Lowry's account of plague at Pakhoi 55
 Lustig and Galeotti's prophylactic 408
 Lustig's serum 324
 Lybia, Syria and Egypt, plague in 4
 Lymphangitis, absence of 308
 Lymphatic buboes 273; glands 227
 Lymphatics, infection through skin to 349
- Macao 193; plague in 1895 64
 Mahamari 179
 Main lines of enquiry 411
 Man contracts disease from tarbagan 224
 Mandvi, crowded buildings in 187
 Manser's illness 300
 Marasmus and chronic plague 293
 Maritime preventive measures 352
 Marseilles epidemic 162
 Mead's views 348
 Measures 379; after discovery of bacillus
 354; for prevention and suppression 333;
 for prevention of extension 340; for
 suppressing plague 386; in Austria and
 Germany 341; in London 341; inter-
 national 354; local 358; to combat
 plague 372; to prevent importation 354
 Media, bacillus in different 89
 Medicines 329
 Mengtze, plague at 58
 Merchandise 356
 Mesopotamia, recrudescence in 38
 Method of inoculation 406
 Methods against rats on ships 359; for
 destroying rats 370
 Mice and rats susceptible 96
 Migration of rats 68
- Mixed infection 256
 Mode of exit of infection 256
 Modes of dissemination and diffusion 194;
 in infected locality 210
 Monkeys, experiments on 121, 123-5
 Morbid anatomy and pathology 226
 More precise information required 410
 Morphology of bacillus 79
 Mortality and measures 188; in India 71;
 of rats and Pariset's theory 133
 Mossel Bay 204
 Mucous membrane, infection through 254
 Müller's illness 302
 Multiple buboes 283
- Nanningfu and Kwaium, plague at 59
 Natal 322
 Natural immunity 171
 Nature of infection 76; earlier views on
 the 76
 Nervous phenomena 285; system 239
 Nineteenth century, Canton in the 185;
 Hongkong in the 185; Oporto in the 184;
 plague in the 37, 45
 Notes of a morning's inspection 190
 Notification and visitation 382
 Nursing 329
- Observations* of epizootics 97; in Hongkong
 216; in India 217; valuable in Australia
 215; valuable in S. Africa 215
 Odessa, Danysz' bacillus used in 399
 Oil friction treatment 317
 Old view regarding plague 253
 Oporto 321; in the 19th century 184
 Opposition to preventive measures 68
 Orders severe in Elizabeth's reign 343
 Origin attributed to cosmic and telluric
 calamities 134; physical disturbances
 131; putrefaction of dead bodies 131
 Osaka 204
 Other animals affected with plague 106
 Outlines of plague organisation 384
- Pain of buboes 274
 Pakhoi, Lowry's account of plague in 55;
 plague appeared in, in 1867 56; plague
 endemic in 57; plague not extinct in
 vicinity of 57
 Pali epidemic, four types in 162; trade
 routes from 56
 Pandemic, course of the 22; distinguished
 by rapid spread 23; references to the 15;
 the first recorded 5; the present 48;
 the second recorded (Black Death) 21
 Pandemics and epidemics, different views 130
 PARIS CONVENTION, regulations of 358;
 general provisions 416; provisions out-
 side Europe 427; special provisions 437;
 administration and control 452; Appen-
 dix I 457; III 459
 Paris in the 17th century 185
 Passport system 348
 Past treatment 316

- Pathology and morbid anatomy 226
 Paulus Diaconus' account 16
 Period of incubation 258, 261, 352
 Persia, recrudescence in 38
 Personal hygiene 332
 Pestis major or grave bubonic 262; minor or benign bubonic 262
 Petechiae of skin 284
 Phenomena, nervous 287
 Physical disturbances 131
 Pigeons, fowls, cats, and dogs 220
 Pigs, experiments on 117, 118, 119, 120
 Pisco 205
Plague bacillus discovered 64; hospitals 367; in animals 128; in man 126; organisation 381, 384; post-mortem wounds 250; to the 19th century 1
 Plagues, self-limiting 143, 353
 Planch's description 181
 Pneumonic type 210, 265, 306, 310
 Poona and Dharwar 71
 Poor, plague and the 191
 Power of bacillus 250
 Prayers and processions 335
 Pregnancy 293, 300
 Premonitory symptoms 262
 Present pandemic 48
 Prevention and suppression 333; of recrudescences 393
 Preventive inoculation 402; measures against extension 340; measures opposed 68
Primary buboes, external 227; histological changes in 231
 Procopius' account 6
Prognosis 312; and diagnosis 306; caution as to 314
 Progress after sixth day 264; of disease, and rats 68
 Prophylactic of Lustig and Galeotti 408
 Prophylaxis in infected house 331
 Protean character of plague 308
 Protective inoculation 331
Provisions, general 416; outside Europe 427; special 437
 Putrefaction of dead bodies 131

 Quarantine and sanitary cordons 352; council of, in Venice 337; not abolished for certain classes 357; on land frontiers abolished 356; station for London 344; stations, establishment of 348; Venetian system of 338
 Questions relating to spontaneity 131

Rats 376; acute toxic cases in 401; affected before man 199; agency of transmission from 218; and mice susceptible 96; bacteriological examination of 369, 383, 400; destruction of 359, 396; destruction of, in healthy localities 369; destruction of, in warehouses 401; destruction of, with Danysz' bacillus 396; dissemination by infected 214; epidemics and mortality of 54; infection connected with 203; plague-stricken 103; post-mortem appearances in 400; seasonal breeding period of 158
 Recrudescence of plague 31
 Recrudescences, prevention of 393, 401
 Recurrence 295
 References to the pandemic 15
 Regulations of Paris Conference 358
 Relationship of epizootics and epidemics 96; to plague 96
 Remarkable cessation of plague 33
 Removal from infected locality 334
 Resignation to fate 335
 Respiratory system 235, 292; tract, infection through 256
 Result of experiments on animals 107
 Results of inoculations 407
 Rhuypur 205
 Rocher's account 50
Rôle of other animals 50
 Russian epidemic 163

 Sanitation 396
 Scarcity preceded plague in India 140
 Scene in a Bombay building 188
 Season a composite force 150
 Second attacks 294, 295; recorded pandemic 21
Secondary buboes 230; histological changes in 232
 Segregation 386
 Self-limiting plagues 143, 353
 Septic and fulminating type 297, 310
 Septicaemic plague 265; infectious 211
 Sequelae 294
Sera prepared by Borrel, Calmette, Roux, Yersin 319
Serum, Bondi's and Terni's 325; dosage of 326; Kitasato's 326; Lustig's 324; test 307
Seventeenth century, London in 184; Paris in 184; plague in 14, 44
Severity of epidemics 71; of measures in Aberdeen 343
 Ships, infection and 201
 Sick persons carry infection 195
 Signs favourable 314; unfavourable 315
 Situation of buboes 275
 Size of buboes 274
 Skin, infection through 249, 250; petechiae of 284
 Slow diffusion 70
 South Africa and Australia 215
 Special provisions 437
 Specific treatment 319
 Spleen 234
 Spontaneity 131
 Sporadic cases precede epidemics 165
 Staining of bacillus 79
 Stalactites, formation of 87
 Stimulant and tonic treatment 317
 Suggested antiseptic treatment 318

- Suppression and prevention 333
 Susceptibility may vary 174
 Susceptible races 173
Symptoms characteristic 266; in relation to systems 267
Syria, Egypt and Lybia 4; Europe and Egypt 19

Tarbagan subject to epizootic 223; man contracts disease from 224
Temperature of patients 267; affects endemicity 150; of air not influential 154
 Tenderness of buboes 274
 Termination of buboes 274
 Terni's and Bondi's serum 325
Test, bacteriological 307; serum 307
 Three conditions observed in Bombay 190
 Tonsillar plague 312
 Topographical description of Yunnan 48
 Trade routes from Yunnan 49; from Pakhoi to Yunnanfu 56; plague travels by 194
 Transport of infection by crowds 201; by various vehicles 202
 Traps and poison 370
Treatment 316; attempts at specific 319; basis of present day 319; cold water 318; curative, powerless in virulent forms 316; during convalescence 330; evacuant 317; general 329; in the past 316; of buboes 318, 330; of carbuncles 330; oil friction 317; stimulant and tonic 317; sera 319
 Trespass offerings 333
 Turkey and Egypt 37

 Uganda, an endemic centre in 75
 Unfavourable signs 315
 Uniform mortality and white people 173
 Unsie 207
 Unusual season and plague in Cape Town 142

 Urinary system 239, 292
 Use of disinfectants 331

 Valuable observations in Australia 215; in S. Africa 215
 Variation in effect of seasonal influences 143; in powers of diffusion 143; in virulence 93, 159; in virulence dependent on conditions 170
 Variety, ambulant 296; septicaemic and fulminating 297; pneumonic, 300; of type in infectious diseases 175
 Vascular system 288
 Veins near bubo affected 228
 Venetian system of quarantine 338
 Venetians, lazaretto established by 337
Venice Convention 354, 357; council of health established in 337; first preventive measures in 336
 Vetlianka, epidemic at 159; acquires virulence 160
 Vienna Conference 352
 Village, a Chinese 192
 Virulence, variation in 93, 159
 Vitality of the bacillus 89
 Volcanic eruptions, effect on plants 139

 Watching prevalent sickness 370
 West Barbary, plague in 36
 Western Europe, cessation of plague in 33
 White people and uniform mortality 173
 Wilm's experiments 116
 Wounds, post-mortem 250

 Yersin and Kitasato discover bacillus 64
 Yunnan, conditions in 182; condition of, in 1871 50; present pandemic, origin in 48; Rocher's account of plague in 50; topographical description of 48; trade routes from 49
 Yunnanfu, trade route from Pakhoi to 56