

BOOK REVIEW

SERVICE M.W. (ed.): **Encyclopedia of Arthropod-transmitted Infections of Man and Domesticated Animals**. Wallingford, Oxon: CABI Publishing, a division of CAB International, 2001. XVI+579 pp. Format 170×240 mm. Hardback. Price Lstg 99.50 (USD 185.00). ISBN 0 85199 473 3

The editor is Emeritus Professor of Medical Entomology at the Liverpool School of Tropical Medicine. He has been advised by the five international advisors – foremost authorities in the field: R. W. Ashford, C. H. Calisher, B. F. Eldridge, T. V. Jones, and G. Wyatt. The project of this publication involved 88 authors of 19 countries: physicians, veterinarians, parasitologists, entomologists and zoologists. It is pointed up in the preface that this is an encyclopedia, not a specialized medical or veterinary textbook, and so the aim has been to present up-to-date basic information on the transmission of a broad range of infections causing serious illnesses. Vertebrates, including humans, become infected when they are bitten by an infected arthropod taking a blood meal. The enormous increase in global travel is one of the major factors in the spread of infectious diseases, such as West Nile virus which has emerged in temperate regions of Europe and North America. This encyclopedia contains 150 entries, describing arboviral, viral, bacterial, rickettsial and spirochaetal infections, protozoal and filarial infections. Entries range from 100 words to 5000 words, they are arranged in alphabetical order starting with aegyptianellosis and concluding with the Zika virus.

Arboviral and viral infections discussed include infections as the African horse sickness, African swine fever, the Chikungunya virus, the Colorado tick fever, Ilesha virus, Ilheus virus, Issyk-Kul virus disease, Jamestown Canyon virus, Japanese encephalitis, Keystone virus, haemorrhagic fevers, Powassan encephalitis, Rocio encephalitis, Ross River virus, Venezulean equine encephalitis, vesicular stomatitis, West Nile virus, and many more. Bacterial, rickettsial and spirochaetal infections incorporate plague, tularaemia, endemic typhus, epidemic typhus, Rocky Mountain spotted fever, tick-borne typhuses, avian borreliosis, Lyme borreliosis, tick-borne and louse-borne relapsing fevers.

Entries on protozoal and filarial infections are concerned with trypanosomes as aetiologic agents of African sleeping sickness and the Chagas disease in humans, and *Trypanosoma* species in animals affecting the livestock in tropical regions. Entries dedicated to parasitic diseases present the malaria in humans and birds, leishmaniasis, babesiosis and theileriosis in humans, cattle, sheep and goats, equines and in dogs. Animal and human filarial infections transmitted by bloodsucking arthropods are presented here by bancroftian and brugian filariasis, dirofilariasis, mansonelliasis, onchocerciasis, parafilariasis, stephanofiliariasis, and others.

Detailed entries provide insights into diverse arthropods – insects and arachnids, transmitting the named infections. Emphasis is given to mosquitoes, black-flies, biting midges, eye-flies (Chloropidae), fleas, horse-flies, mosquitoes, sand-flies, stable-flies, tse-tse flies (Glossinidae), to ticks and mites, and others.

Information on diseases include distribution, aetiological agent, transmission cycles, diagnosis, clinical symptoms, treatment and control measures. Following each entry is a selected, mostly periodical or monographic bibliography and more specialized textbooks relevant to the entries, to aid further reading on the topic. Entries dealing with arthropods constitute a highlight of identification, biology, transmitted diseases and control.

The volume is extensively illustrated by schematic line drawings and black-and-white photographs: featured are diagrams of natural cycles of transmission, adult forms and developmental stages of ectoparasitic vectors: insects and arachnids, life cycles of causative agents and factors involved in pathogenesis, light and electron microphotographs, genetic processes, maps of worldwide distribution of various infections, views of terrestrial biomes, pathological and histopathological abnormalities in humans and animals, clinical conditions, skin lesions, and more. In addition, there are numerous summary-type tables offering overviews of diverse microorganisms, characteristics of symptoms, classification of drugs, dosages of insecticides, and more. This encyclopedia presents a most comprehensive up-to-date handbook essential to anyone who is interested in finding out transmits of infectious agent, where it is found and whether it can be cured or prevented. It covers a broad range of related disciplines including human and veterinary medicine, epidemiology, epizootiology, immunology, microbiology, virology, parasitology and entomology.

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