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Prepared by

Cynthia B. Love, M.L.S., National Library of Medicine

Peter B. Jahrling, Ph.D., U.S. Army Medical Research Institute of Infectious Diseases

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Karen Patrias, Editor
Current Bibliographies in Medicine
Reference Section
National Library of Medicine
Bethesda, MD 20894
Phone: 301-496-6097
Fax: 301-402-1384
Internet: patrias@nlm.nih.gov

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VIRAL HEMORRHAGIC FEVER

The phrase "emerging infectious diseases" was first used in 1990 to describe new, rediscovered, or newly re-emerging (once thought controlled) infectious diseases threatening public health in both developed and undeveloped countries. These diseases include the upswing in drug-resistant tuberculosis, AIDS, and outbreaks of Ebola and Marburg virus diseases. Among the most virulent and frightening "new" infectious diseases are those that can lead to hemorrhagic fever. The fevers may be an inevitable result of a particular infection or an uncommon complication of a disease not usually associated with hemorrhagic fever.

This bibliography lists citations from 1990 to June 1996 on viral hemorrhagic fevers. Most of the literature on hemorrhagic fever is focused on epidemiology, diagnosis and clinical care, vaccine development, and vector identification and control. Molecular virology articles on specific viruses are not included. The citations include medical journal articles, letters to the editor, editorials, and books and book chapters in English and other languages. Newspaper and magazine articles are excluded, even though considerable material on Ebola and other infectious diseases has been written in the popular press. Articles are on hemorrhagic fever in humans and on animal research of potential benefit to humans; those hemorrhagic fever viruses that are known to affect only animals are omitted. Arrangement of the bibliography is by disease and citations within each category are listed alphabetically by author. Citations are listed in only one category.

There is tremendous variation in the amount of material written on the hemorrhagic fevers, ranging from a handful of articles on Kyasanur Forest disease and Omsk hemorrhagic fever to hundreds of articles on hantavirus infections and on dengue. Although the literature on milder forms of dengue is voluminous, articles included in this bibliography are limited to dengue shock syndrome and dengue hemorrhagic fever. Rift Valley fever and Nairovirus articles are also limited to those addressing hemorrhagic manifestations. For the broad, general categories of "Arbovirus Infections," "Bunyavirus Infections," "Flavivirus Infections," "Filovirus Infections," and "Arenavirus Infections," only articles on these viral infections in relation to hemorrhagic fever are included. Articles on "instructions to travelers" and vaccination recommendations for international travel are not included.

Some of these diseases (or viruses) have numerous synonyms or related terms. Materials were assigned to subject categories in this bibliography as follows:

HANTAVIRUS INFECTIONS includes the Four Corners, Muerto Canyon, Puumala, Seoul, Belgrade, HFRS, Sin Nombre, Black Creek Canal, and hantaan viruses, hantavirus pulmonary syndrome, hemorrhagic fever with renal syndrome, Korean hemorrhagic fever, nephropathia epidemica, and epidemic hemorrhagic fever.

CRIMEAN-CONGO HEMORRHAGIC FEVER includes Crimean hemorrhagic fever, CCHF, and Congo virus.

TACARIBE COMPLEX VIRUS INFECTIONS includes American, Latin American, Bolivian, Argentine, and Venezuelan hemorrhagic fevers, and the Junin, Machupo, Sabia, Mopeia, and Guanarito viruses.

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Medicine, for her production assistance.

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SS 1 = ARBOVIRUSES or ARENAVIRIDAE or ARENAVIRUS or LASSA VIRUS or
TACARIBE COMPLEX VIRUSES or JUNIN VIRUS or BUNYAVIRIDAE or HANTAVIRUS or
HANTAAN VIRUS or NAIROVIRUS or HEMORRHAGIC FEVER VIRUS, CRIMEAN-CONGO or
RIFT VALLEY FEVER VIRUS or FLAVIVIRIDAE or FLAVIVIRUS or DENGUE VIRUS or
EXP FILOVIRIDAE or HEMORRHAGIC FEVER VIRUS, EPIDEMIC or MACHUPO VIRUS or
MARBURG VIRUS or FOUR ADJ CORNERS or MUERTO ADJ CANYON or PUUMALA (TW) or
SEOUL ADJ VIRUS or PROSPECT ADJ HILL or BELGRADE ADJ VIRUS or LEAKEY ADJ VIRUS or
THOTTAPALAYAM ADJ VIRUS or KOREAN ADJ HEMORRHAGIC ADJ FEVER or
EPIDEMIC ADJ HEMORRHAGIC or HFRS (TW) or GUANARITOVIRUS (TW) or GUANARITO (TW)
or
CCHF ADJ VIRUS or CONGO ADJ VIRUS or PHILIPPINE ADJ HEMORRHAGIC or
THAI ADJ HEMORRHAGIC or DHF (TW) or DSS (TW) or ILESHA ADJ VIRUS

SS 2 = ARBOVIRUS INFECTIONS or ARENAVIRIDAE INFECTIONS or
BUNYAVIRIDAE INFECTIONS or HANTAVIRUS INFECTIONS or
HEMORRHAGIC FEVER WITH RENAL SYNDROME or EXP HEMORRHAGIC FEVERS, VIRAL or
BOLIVIAN ADJ HEMORRHAGIC or VENEZUELAN ADJ HEMORRHAGIC or
ARGENTINIAN ADJ HEMORRHAGIC or LATIN ADJ AMERICAN ADJ HEMORRHAGIC or
CRIMEAN ADJ CONGO ADJ HEMORRHAGIC or SOUTHEAST ADJ ASIAN ADJ HEMORRHAGIC or
DENGUE ADJ SHOCK

SS 3 = 1 or 2

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SAMPLE CITATIONS

Citations in this bibliographic series are formatted according to the rules established for *Index Medicus*®*. Sample journal and monograph citations appear below. For journal articles written in a foreign language, the English translation of the title is placed in brackets; for monographs, the title is given in the original language. In both cases the language of publication is shown by a three letter abbreviation appearing at the end of the citation.

Journal Article:

<i>Authors</i>	<i>Article Title</i>
Foran JA, Glenn BS.	Reducing the health risks of sport fish. Issues Sci Technol 1991-92 Winter;8(2):73-7.

<i>Abbreviated Journal Title</i>	<i>Date</i>	<i>Volume</i>	<i>Issue</i>	<i>Pages</i>

Monograph:

<i>Authors/Editors</i>	<i>Title</i>
Ward DR, Hackney CR, editors.	Microbiology of marine food products. New York: Van Nostrand Reinhold; 1991. 450 p.

<i>Place of Publication</i>	<i>Publisher</i>	<i>Date</i>	<i>Total No. of Pages</i>

*For details of the formats used for references, see the following publication:

Patrias, Karen. *National Library of Medicine recommended formats for bibliographic citation*. Bethesda (MD): The Library; 1991 Apr. Available from: NTIS, Springfield, VA; PB91-182030.

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Addressing emerging infectious disease threats: a prevention strategy for the United States. MMWR Morb Mortal Wkly Rep 1994;43(RR-5):1-18.

Andrei G, De Clercq E. Molecular approaches for the treatment of hemorrhagic fever virus infections. Antiviral Res 1993 Sep;22(1):45-75.

Arata AA. Difficulties facing vector control in the 1990s. Am J Trop Med Hyg 1994;50(6 Suppl):6-10.

Arbiser JL, Fine JD, Arndt KA. Other viral infections. In: Sanders CV, Nesbitt LT Jr, editors. The skin and infection: a color atlas and text. Baltimore (MD): Williams and Wilkins Co.; 1995. p. 200-13.

Baker MS, Strunk HK. Medical aspects of Persian Gulf operations: serious infectious and communicable diseases of the Persian Gulf and Saudi Arabian peninsula. Mil Med 1991;156(8):385-90.

Bannister BA. Stringent precautions are advisable when caring for patients with viral haemorrhagic fevers. Rev Med Virol 1993;3(1):3-6.

Butler JC, Peters CJ. Lessons learned from the hantaviruses and other hemorrhagic fever viruses. Am J Med Sci 1996 Jan;311(1):55-9.

Centers For Disease Control And Prevention (USA). Part 1: Summaries of notifiable diseases in the United States 1993. MMWR Morb Mortal Wkly Rep 1994; 42(53):I-XVII, 3-72.

Chastel C. Histoire des virus de la variole au SIDA. Paris: Boubée; 1992. 413 p. (Fre).

Corwin A, Habib M, Olson J, Scott D, Ksiazek T, Watts DM. The prevalence of arboviral, rickettsial, and Hantaan-like viral antibody among schoolchildren in the Nile river delta of Egypt. Trans R Soc Trop Med Hyg 1992 Nov-Dec;86(6):677-9.

Corwin A, Habib M, Watts D, Darwish M, Olson J, Botros B, Hibbs R, Kleinosky M, Lee HW, Shope R, et al. Community-based prevalence profile of arboviral, rickettsial, and Hantaan-like viral antibody in the Nile River Delta of Egypt. Am J Trop Med Hyg 1993 Jun; 48(6):776-83.

Culliton BJ. Emerging viruses, emerging threat [news]. Science 1990 Jan 19;247(4940):279-80.

Davies FG, Ochieng P, Walker AR. The occurrence of ephemeral fever in Kenya, 1968-1988. Vet Microbiol 1990;(2-3):129-36.

del Hierro Vega F, Llorca Diaz J. [A surveillance system on the risk of importing viral

hemorrhagic fevers]. Rev Sanid Hig Publica (Madr) 1992 Jan-Feb;66(1):109-10. (Spa).

Epstein PR. Emerging diseases and ecosystem instability: new threats to public health. Am J Public Health 1995 Feb;85(2):168-72.

Fenner F. Emerging virus diseases. In: Freedman L, editor. Is our future limited by our past. Proceedings of the Australasian Society for Human Biology, No. 3; 1989 Dec 4-7; Canberra, Australia. Nedlands: The University of Western Australia, Centre for Human Biology; 1990. p. 287-96.

Fenner F. Emerging virus diseases. Virus Inf Exch Newsl South East Asia West Pac 1991;8(4):146-9.

Fernandez A, Rodriguez F, Espinosa A, Bautista MJ, Rodriguez J, Pérez J, Poveda JB. [Human viral haemorrhagic fevers and African swine fever similar pathogenic mechanisms]. An Vet Murcia 1990-91; 6-7:107-14. (Spa).

From the Centers for Disease Control and Prevention. Update: management of patients with suspected viral hemorrhagic fever--United States. JAMA 1995 Aug 2; 274(5):374-5.

Filipe A. Viral haemorrhagic fever in European community state members. Enferm Infect Microbiol Clin 1993 Aug-Sep;11(7):385-90.

Fisher-Hoch SP. Stringent precautions are not advisable when caring for patients with viral haemorrhagic fevers. Rev Med Virol 1993;3(1):7-13.

Fisher-Hoch SP, McCormick JB. Pathogenesis of hemorrhagic fevers. In: Zuckerman AJ, Banatvala JE, Pattison JR, editors. Principles and practice of clinical virology. 2nd ed. New York: Wiley-Liss; 1990. p. 475-92.

Gasser RA Jr, Magill AJ, Oster CN, Tramont EC. The threat of infectious disease in Americans returning from Operation Desert Storm. N Engl J Med 1991;324(12): 859-64.

Gellert GA. Preparing for emerging infections. Nature 1994 Aug 11;370(6489):409-10.

Granstrom M. Viral vaccines. In: Cryz SJ, editor. Immunotherapy and vaccines. New York: VCH Publishers, Inc.; 1991. p.47-76.

Griffiths PD, Ellis DS, Zuckerman AJ. Other common types of viral hepatitis and exotic infections. Br Med Bull 1990; 46(2):512-32.

Halstead SB. Rabies and viral hemorrhagic fevers. Curr Opin Infect Dis 1991;4(3):296-301.

Heymann DL, Piot P. The laboratory, epidemiology, nosocomial infection and HIV [editorial]. AIDS

14

1994 May;8(5):705-6.

Hibbs RG, Corwin A, Thornton CA, Lluberas M,
Sanderson R, Watts D. Epidemic of febrile
disease in Berbera, Somalia. *J Trop Med*

1993;2(5):67-72.

Hill DR. Tropical and travel-associated diseases.
Curr Opin Infect Dis 1991;4(3):261-4.

- Holland JJ. Evolving virus plagues. *Proc Natl Acad Sci U S A* 1996 Jan 23;93(2):545-6. Comment on: *Proc Natl Acad Sci U S A* 1996 Jan 23;93(2):548-53.
- Howard CR, Simpson DIH, Ellis DS. Viral hemorrhagic fevers. In: Zuckerman AJ, Banatvala JE, Pattison JR, editors. *Principles and practice of clinical virology*. 2nd ed. New York: Wiley-Liss; 1990. p. 449-74.
- Huggins JW. RNA viruses that cause hemorrhagic encephalitic and febrile disease. In: Galasso GJ, Whitley RJ, Merigan TC, editors. *Practical diagnosis of viral infections*. New York: Raven Press; 1993. p. 283-307.
- Jahrling PB. Filoviruses and arenaviruses. In: Hausler WJ Jr, et al., editors. *Manual of clinical microbiology*. 5th ed. Washington: American Society of Microbiology; 1991. p. 984-97.
- Johnson KM. Emerging viruses in context: an overview of viral hemorrhagic fevers. In: Morse SS, editor. *Emerging viruses*. Oxford: Oxford University Press; 1993. p.46-57.
- Kalter SS, Heberling RL. Primate viral diseases in perspective. *J Med Primatol* 1990;19(6):519-35.
- Kay BH, Barker-Hudson P, Piper RG, Stallman ND. Arbovirus disease and surveillance methodology related to water resource development in Australia. *Int J Water Resour Dev* 1990;6(2):95-103.
- Kilbourne ED. New viral diseases. A real and potential problem without boundaries. *JAMA* 1990 Jul 4;264(1): 68-70.
- Kita J. [Continuation of infectious diseases: epidemics- epizootics]. *Med Wet* 1994;50(11):529-33. (Pol).
- Kitamura T. [Diagnosis of viral hemorrhagic fever]. *Nippon Rinsho* 1990 Feb;48 Suppl:312-5. (Jpn).
- Koblet H. Invertebrate tissue culture as a tool to study insect-transmitted viruses: a brief introduction. *In Vitro Cell Dev Biol Anim* 1993 Apr;29A(4):272-3.
- Konstantinov OK. [Ticks of the Ixodidae family as reservoir of arboviruses in the Republic of Guinea. II. Arboviruses]. *Rev Elev Med Vet Pays Trop* 1990;43(1): 15-22. (Fre).
- Kurata T. [Present status of viral haemorrhagic fevers in developing countries and the countermeasures]. *Uirusu* 1993 Jun;43(1):53-65. (Jpn).
- Kurata T. [Viral hemorrhagic fevers]. *Nippon Rinsho* 1993 Jan;51 Suppl:868-76. (Jpn).
- Kurstak E, editor. *Control of virus diseases*. 2nd ed. New York: Marcel Dekker; 1993. 440 p.
- Levin M. Syndromes with renal failure and shock. *Pediatr Nephrol* 1994 Apr;8(2):223-9.
- Lozano A. [Hemorrhagic viral diseases. A health problem?]. *Enferm Infect Microbiol Clin* 1991 Aug-Sep;9(7):420-4. (Spa).
- Mahy BW, Dykewicz C, Fisher-Hoch S, Ostroff S, Tipple M, Sanchez A. Virus zoonoses and their potential for contamination of cell cultures. *Dev Biol Stand* 1991;75: 183-9.
- Martet G, Coue JC, Lecamus JL. [Epidemiology and prophylaxis of viral hemorrhagic fevers]. *Med Trop (Mars)* 1990 Jul-Sep;50(3):331-8. (Fre).
- Mathiot CC, Herve VM, Georges AJ. Antibodies to haemorrhagic fever viruses and to selected arboviruses in monkeys from the Central African Republic. *Trans R Soc Trop Med Hyg* 1990 Sep-Oct;84(5):732-3.
- Matsuura Y, Morikawa S, Ihara T. [Gene structures of arenaviruses and bunyaviruses--ambisense RNA viruses]. *Tanpakushitsu Kakusan Koso* 1992 Oct;37(14 Suppl): 2435-9. (Jpn).
- McCormick JB, Fisher-Hoch S. Viral hemorrhagic fevers. In: Warren KS, Mahmoud AAF, editors. *Tropical and geographical medicine*. 2nd ed. New York: McGraw Hill, Inc.; 1990. p. 700-28.
- McLean DM. Zoonoses. In: McLean DM, Smith JA, editors. *Medical microbiology synopsis*. Philadelphia: Lea and Febiger; 1991. p. 207-10.
- McMichael AJ, Beers MY. Climate change and human population health: Global and South Australian perspectives. *Trans R Soc S Aust* 1994;118(1-2):91-8.
- Microbes ever marching [editorial]. *Nature* 1993 Jun 10; 363(6429):479-80.
- Moll van Charante AW, Groen J, Osterhaus AD. Risk of infections transmitted by arthropods and rodents in forestry workers. *Eur J Epidemiol* 1994 Jun;10(3): 349-51.
- Monath TP. Vector-borne emergent disease. *Ann NY Acad Sci* 1994 Dec 15;740:126-8.
- Morse SS. Factors in the emergence of infectious diseases. *Emerg Infect Dis [serial online]* 1995 Jan-Mar [cited 1996 Jun 5];1(1):[24 screens]. Available from: National Center for Infectious Diseases, Centers for Disease Control and Prevention, Atlanta, GA.
URL: <http://www.cdc.gov/ncidod/EID/eid.htm>
- Morse SS. Patterns and predictability in emerging infections. *Hosp Pract (Off Ed)* 1996 Apr 15;31(4):85-91, 96-101, 104 passim.
- Morsy TA, El Okbi LMA, Kamal AMM, Ahmed MM, Boshara EF. Mosquitoes of the genus *Culex* in the Suez Canal Egypt Governorates. *J Egypt*

- Soc Parasitol 1990; 20(1):265-8.
- Moss JT, Wilson JP. Treatment of viral hemorrhagic fevers with ribavirin [letter]. Ann Pharmacother 1992 Sep; 26(9):1156-7.
- Nettleman MD. Emporiiatrics: the study of diseases in travelers. Infect Control Hosp Epidemiol 1990;11(3): 157-60.
- New South Wales, Department of Public Health. Contingency plan for cases of suspected quarantinable diseases including viral haemorrhagic fevers. 3rd ed. North Sydney: The Department; 1993. 29 p.
- Nozais JP. Statistics on tropical and parasitic diseases. In: Tchobroutsky G, editor. From symptoms to decisions: medicine for everyday. London: Freund Publishing House Ltd.; 1990. p.385-90.
- Quarantine unit, isolators in new government policy. Aust Hosp 1979 Jul;(32):3.
- Renquist D. Outbreak of simian hemorrhagic fever. J Med Primatol 1990;19(1):77-9.
- Rollin P. [Viral hemorrhagic fevers]. In: Crainic R, Nicolas JC, editors. Collection biologie medicale: virologie medicale. Paris: Lavoisier; 1993. p.445-61. (Fre).
- Satcher D. Emerging infections: getting ahead of the curve. Emerg Infect Dis [serial online] 1995 Jan-Mar [cited 1996 Jun 5];1(1):[19 screens]. Available from: National Center for Infectious Diseases, Centers for Disease Control and Prevention, Atlanta, GA. URL: <http://www.cdc.gov/ncidod/EID/eid.htm>
- Saxe SE, Gardner P. The returning traveler with fever. Infect Dis Clin North Am 1992 Jun;6(2):427-39.
- Scientist tests the public trust [editorial]. Nature 1994 Sep 1;371(6492):1.
- Service MW. Vector control. Where are we now? Bull Soc Vector Ecol 1992;17(2):94-108.
- Sewell DL. Laboratory-associated infections and biosafety. Clin Microbiol Rev 1995;8(3):389-405.
- Shandera WX. Travel-related diseases: injury and infectious disease prevention. J Wilderness Med 1993;4(1):40-61.
- Shepherd SM, Talbot-Stern JK. Evaluation of the traveler: an introduction of emporiatrics for the emergency physician. Emerg Med Clin North Am 1991;9(2):273-302.
- Shope R. Global climate change and infectious diseases. Environ Health Perspect 1991 Dec;96:171-4.
- Speed BR, Gerrard MP, Kennett ML, Catton MG, Harvey BM. Viral haemorrhagic fevers: current status, future threats. Med J Aust 1996 Jan 15;164(2):79-83.
- Spier RE. The conference on vaccines protective against enteric diseases. Vaccine 1993;11(2):1-182.
- Strickland GT. Fever in the returned traveler. Med Clin North Am 1992;76(6):1375-92.
- Stroot P. WHO establishes new rapid-response unit for emerging infectious diseases. Emerg Infect Dis [serial online] 1996 Jan-Mar [cited 1996 Jun 5];2(1):[2 screens]. Available from: National Center for Infectious Diseases, Centers for Disease Control and Prevention, Atlanta, GA. URL: <http://www.cdc.gov/ncidod/EID/eid.htm>
- Tesh RB. Undifferentiated arboviral fevers. In: Warren KS, Mahmoud AAF, editors. Tropical and geographical medicine. 2nd ed. New York: McGraw-Hill, Inc.; 1990. p. 685-91.
- Trend in the management and control of tropical diseases. Proceedings of the 1st International Congress of Parasitology and Tropical Medicine; 1994 Aug 24-27; Malaysia. [place, publisher unknown]; 1994. 192 p.
- Update: management of patients with suspected viral hemorrhagic fever-United States. MMWR Morb Mortal Wkly Rep 1995 Jun 30;44(25):475-9.
- Vector-transmitted diseases in Central America, Belize and Panama. Epidemiol Bull 1990;11(3):9-12.
- Vinogradov EL, Zoshchenkova NY, Petrov LN, Chechina VV. [Problems with improving the quality and development of new drug forms of vaccines]. Vopr Virusol 1992;37(4):219-21 (Rus).
- Viral haemorrhagic fever in imported monkeys. Wkly Epidemiol Rec 1992 May 8;67(19):142-3.
- Wilson ME. Travel and the emergence of infectious diseases. Emerg Infect Dis [serial online] 1995 Apr-Jun[cited 1996 Jun 5];1(2):[23 screens]. Available from: National Center for Infectious Diseases, Centers for Disease Control and Prevention, Atlanta, GA. URL: <http://www.cdc.gov/ncidod/EID/eid.htm>
- World Health Organization. Report of a meeting of the directors of WHO collaborating centres for arboviruses and haemorrhagic fevers; 1993 Oct 28-29; Atlanta, Georgia. Geneva: The Organization; 1993. 6 p.
- Wyler DJ. Evaluation of cryptic fever in a traveler to Africa. Curr Clin Top Infect Dis 1992;12:329-47.

Yuill TM. Animal diseases affecting human welfare
in developing countries: impacts and control.

ARBOVIRUS INFECTIONS

- Ansari MZ, Shope RE. Epidemiology of arboviral infections. *Public Health Rev* 1994;22(1-2):1-26.
- Antoniadis A, Alexiou-Daniel S, Malissiovas N, Doutsos J, Polyzoni T, LeDuc JW, Peters CJ, Saviolakis G, Calisher CH. Sero-epidemiological survey for antibodies to arboviruses in Greece. *Arch Virol Suppl* 1991;1:277-85.
- Aseffa A. Viral diseases in Ethiopia: a review. *East Afr Med J* 1993 Oct;70(10):624-6.
- Baker DA. Arboviruses. In: Gleicher N, editor. *Principles and practice of medical therapy in pregnancy*. 2nd ed. Norwalk (CT): Appleton & Lange; 1992. p.77-9.
- Bychenko TA, Pomeleva VG, Osin NS, Lavrova NA, Butenko AM. [The rapid detection of arboviruses by dot immunoenzyme analysis on membrane filters]. *Vopr Virusol* 1994 Jul-Aug;39(4):157-60. (Rus).
- Calisher CH, editor. Hemorrhagic fever with renal syndrome, tick- and mosquito-borne viruses. *Arch Virol* 1991;1 Suppl:1-347. 2nd Symposium on Arboviruses in Mediterranean Countries; 1989 Sep 24-9; Dubrovnik, Croatia. International Symposium on Arboviruses and Arboviral Infections; 1989 Oct 3-5; Moscow.
- Eltari E, Gina A, Bitri T, Sharofi F. [Some data on arboviruses, especially tick-borne encephalitis, in Albania]. *G Mal Infect Parassit* 1993;45(5):404-11. (Ita).
- Ferreira IB, Pereira LE, Rocco IM, Marti AT, de Souza LT, Iversson LB. Surveillance of arbovirus infections in the Atlantic Forest Region, State of Sao Paulo, Brazil. I. Detection of hemagglutination-inhibiting antibodies in wild birds between 1978 and 1990. *Rev Inst Med Trop Sao Paulo* 1994 May-Jun;36(3):265-74.
- Hyams KC, Hanson K, Wignall FS, Escamilla J, Oldfield EC III. The impact of infectious diseases on the health of U.S. troops deployed to the Persian Gulf during operations Desert Shield and Desert Storm. *Clin Infect Dis* 1995;20(6):1497-504.
- Iversson LB. [Current status of the eco-epidemiological knowledge on arboviruses pathogenic to humans in the Atlantic Forest region of the State of Sao Paulo]. *Rev Inst Med Trop Sao Paulo* 1994 Jul-Aug;36(4):343-53. (Por).
- Kaiser J. Yale arbovirus team heads south [news]. *Science* 1994 Dec 2;266(5190):1470-1.
- Kende M. Treatment strategies for human arboviral infections applicable to veterinary medicine. *Ann N Y Acad Sci* 1992 Jun 16;653:297-313.
- Monlun E, Zeller H, Le Guenno B, Traore- Lamizana M, Hervy JP, Adam F, Ferrara L, Fontenille D, Sylla R, Mondo M, et al. [Surveillance of the circulation of arbovirus of medical interest in the region of eastern Senegal]. *Bull Soc Pathol Exot* 1993;86(1):21-8. (Fre).
- Morrill JC, Johnson BK, Hyams C, Okoth F, Tukey PM, Mugambi M, Woody J. Serological evidence of arboviral infections among humans of coastal Kenya. *J Trop Med Hyg* 1991 Jun;94(3):166-8.
- Morvan JM, Digoutte JP, Marsan P, Roux JF. Illesha virus: a new aetiological agent of haemorrhagic fever in Madagascar. *Trans R Soc Trop Med Hyg* 1994 Mar-Apr; 88(2):205.
- Nuttall PA, Jones LD, Labuda M, Kaufman WR. Adaptations of arboviruses to ticks. *J Med Entomol* 1994 Jan;31(1): 1-9.
- Richards AL, Malone JD, Sheris S, Weddle JR, Rossi CA, Ksiazek TG, LeDuc JW, Dasch GA, Hyams KC. Arbovirus and rickettsial infections among combat troops during Operation Desert Shield/Desert Storm [letter]. *J Infect Dis* 1993 Oct;168(4):1080-1.
- Robert V, Lhuillier M, Meunier D, Sarthou JL, Monteny N, Digoutte JP, Cornet M, Germain M, Cordellier R. [Yellow fever virus, dengue 2 and other arboviruses isolated from mosquitos, in Burkina Faso, from 1983 to 1986. Entomological and epidemiological considerations]. *Bull Soc Pathol Exot* 1993;86(2):90-100. (Fre).
- Sanford JP. Arbovirus infections. In: Wilson JD, et al., editors. *Harrison's principles of internal medicine*. 12th ed. New York: McGraw-Hill, Inc.; 1991. p. 725-39.
- Shope RE. Arboviruses. In: Balows A, Hauser WJ Jr, Herrmann KL, Isenberg HD, Shadomy HJ, editors. *Manual of clinical microbiology*. 5th ed. Washington: American Society for Microbiology; 1991.
- Shope RE. The discovery of arbovirus diseases. *Ann N Y Acad Sci* 1994 Dec 15;740:138-45.
- Vasconcelos PFC, Travassos da Rosa APA, Degallier N, Travassos da Rosa JFS, Pinheiro FP. Clinical and ecoepidemiological situation of human arboviruses in Brazilian Amazonia. *Cienc Cult* 1992;44(2-3):117-24.
- Vesenjak-Hirjan J, Punda-Polic V, Dobe M. Geographical distribution of arboviruses in Yugoslavia. *J Hyg Epidemiol Microbiol Immunol* 1991;35(2):129-40.

BUNYAVIRUS INFECTIONS

- Beaty BJ, Calisher CH. Bunyaviridae--natural history. *Curr Top Microbiol Immunol* 1991;169:27-78.
- Berezina LK, Posevaya TA, Barinsky IF, Korolev AM, Zakharov VY, Preobrazhenskaya MN. [Antiviral activity of 1-methylascorbigen in experimental arboviral infections]. *Khim Farm Zh* 1993;27(1):55-6. (Rus).
- Draganescu N, Girjabu E, Iftimovici R. [Serological studies in man and different species of domestic animals from the forest-steppe region of Romania for the detection of Togaviridae and Bunyaviridae]. *Rev Roum Virol* 1993 Jul-Dec;44(3-4):207-10. (Fre).
- Gonzalez-Scarano F, Endres MJ, Nathanson N. Bunyaviridae: pathogenesis. *Curr Top Microbiol Immunol* 1991;169:217-49.
- Kolakofsky D, editor. *Bunyaviridae*. Berlin: Springer-Verlag; 1991. 256 p.
- Patterson JL. Mechanism of action of ribavirin on Bunyavirus infected cells. Boston: Children's Hospital Corp.; 1990. 44 p. Available from: NTIS, Springfield, VA; ADA230013.
- Sidwell RW, Huffman JH, Barnard DL, Smee DF, Warren RP, Chirigos MA, Kende M, Huggins J. Antiviral and immunomodulating inhibitors of experimentally-induced Punta Toro virus infections. *Antiviral Res* 1994 Oct; 25(2):105-22.

HANTAVIRUS INFECTIONS

- Acute infection by Four Corners hantavirus is associated with viral RNA sequences in peripheral blood mononuclear cells and plasma [abstract]. *Blood* 1993;82(10 Suppl 1): 189A. 35th Annual Meeting of the American Society of Hematology; 1993 Dec 3-7; St. Louis.
- Ahlm C, Herlitz H, Sall C, Eriksson C, Settergren B. [Is vole fever (nephropathia epidemica) spreading in the south of Sweden?]. *Lakartidningen* 1992 Sep 30;89(40):3275. (Swe).
- Ahlm C, Juto P, Settergren B. [Nephropathia epidemica--a current disease in Norrland]. *Lakartidningen* 1990 Oct 24;87(43):3521-2, 3527. (Swe).
- Ahlm C, Linderholm M, Juto P, Stegmayr B, Settergren B. Prevalence of serum IgG antibodies to Puumala virus (haemorrhagic fever with renal syndrome) in northern Sweden. *Epidemiol Infect* 1994 Aug;113(1):129-36.
- Ahlm C, Settergren B, Gothe fors L, Juto P. Nephropathia epidemica (hemorrhagic fever with renal syndrome) in children: clinical characteristics. *Pediatr Infect Dis J* 1994 Jan;13(1):45-9.
- Alexeyev OA. Respiratory burst of neutrophils enhances in hemorrhagic fever with renal syndrome (HFRS). *Scand J Infect Dis* 1992;24(6):697-9.
- Alexeyev OA. Two cases of hyperimmunoglobulinemia E in patients with hemorrhagic fever with renal syndrome [letter]. *Scand J Infect Dis* 1991;23(3):391.
- Alexeyev OA, Ahlm C, Billheden J, Settergren B, Wadell G, Juto P. Elevated levels of total and Puumala virus specific immunoglobulin E in the Scandinavian type of hemorrhagic fever with renal syndrome. *Clin Diagn Lab Immunol* 1994;1(3):269-72.
- Alexeyev OA, Baranov BA. Puumala virus infection without signs of renal involvement. *Scand J Infect Dis* 1993; 25(4):525-7.
- Alexeyev OA, Morozov VG. Neurological manifestations of hemorrhagic fever with renal syndrome caused by Puumala virus: review of 811 cases. *Clin Infect Dis* 1995 Feb;20(2):255-8.
- Alexeyev OA, Morozov VG, Efremov AG, Settergren B. A case of haemorrhagic fever with renal syndrome complicated by spleen haemorrhage. *Scand J Infect Dis* 1994;26(4):491-2.
- Alexeyev OA, Settergren B, Billheden J, Ahlm C, Suzdal'tsev A, Tsai M. Laboratory findings in patients with hemorrhagic fever with renal syndrome in western Russia [letter]. *Infection* 1993 Nov-Dec;21(6):412.

- Alexeyev OA, Suzdaltseva TV, Morozov VG, Zhestkov AV, Mishukov AS. Spontaneous luminol-dependent chemiluminescence of thrombocytes increases in hemorrhagic fever with renal syndrome. *Clin Immunol Immunopathol* 1995 Mar;4(3):289-92.
- Alfandari S, Beuscart C, Senneville E, Mouton Y. [Hantavirus infection without renal involvement (letter)]. *Rev Med Interne* 1994;15(8):556-7. (Fre).
- Alleroedder HP, Schwarze G, Schmits R, Pfreundschuh M. Thrombocytopenia, hemorrhagic fever and nephritic syndrome: the hantaviruses as an often overlooked cause [abstract]. *Onkologie* 1991;14 Suppl 2:4. Annual General Meeting of the German and Austrian Society for Hematology and Oncology; 1991 Oct 10-3; Innsbruck, Austria
- Antic D, Kang CY, Spik K, Schmaljohn C, Vapalahti O, Vaheri A. Comparison of the deduced gene products of the L, M and S genome segments of hantaviruses. *Virus Res* 1992 Jun;24(1):35-46.
- Antic D, Lim BU, Kang CY. Molecular characterization of the M genomic segment of the Seoul 80-39 virus; nucleotide and amino acid sequence comparisons with other hantaviruses reveal the evolutionary pathway. *Virus Res* 1991 Mar;19(1):47-58.
- Antic D, Lim BU, Kang CY. Nucleotide sequence and coding capacity of the large (L) genomic RNA segment of Seoul 80-39 virus, a member of the hantavirus genus. *Virus Res* 1991 Mar;19(1):59-65.
- Antoniadis A, Alexiou-Daniel S, Fidani L, Bautz EFK. Comparison of the clinical and serologic diagnosis of haemorrhagic fever with renal syndrome (HFRS) and leptospirosis. *Eur J Epidemiol* 1995;11(1):91-2.
- Antonov VS, Knysh GG. [Diagnosis of hemorrhagic fever with renal syndrome]. *Klin Med (Mosk)* 1990 Sep;68(9): 95-6. (Rus).
- Arikawa J, Ito M, Yao JS, Kariwa H, Takashima I, Hashimoto N. Epizootiological studies of hantavirus infection among urban rats in Hokkaido, Japan: evidences for the persistent infection from the sero- epizootiological surveys and antigenic characterizations of hantavirus isolates. *J Vet Med Sci* 1994 Feb;56(1):27-32.
- Arikawa J, Lapenotiere HF, Iacono-Connors L, Wang ML, Schmaljohn CS. Coding properties of the S and the M genome segments of Sapporo rat virus: comparison to other causative agents of hemorrhagic fever with renal syndrome. *Virology* 1990 May;176(1):114-25.
- Arikawa J, Yao JS, Yoshimatsu K, Takashima I, Hashimoto N. Protective role of antigenic sites on the envelope protein of Hantaan virus defined by monoclonal antibodies. *Arch Virol* 1992;126(1-4):271-81.
- Arthur RR, Lofts RS, Gomez J, Glass GE, Leduc JW, Childs JE. Grouping of hantaviruses by small (S) genome segment polymerase chain reaction and amplification of viral RNA from wild-caught rats. *Am J Trop Med Hyg* 1992 Aug;47(2):210-24. Published erratum appears in Am J Trop Med Hyg 1993 Mar;48(3):v.
- Artsob H, Kennedy ME. [Recommendations for hantavirus risk reduction.] *Can Commun Dis Rep* 1994 Aug 15; 20(15):126-8. (Fre).
- Astakhova TI, Slanova RA, Tkachenko EA, Bondarenko AN, Kosoi ME, Kushnarev EL. [The role of Hantaan virus serotypes in the etiology of hemorrhagic fever with renal syndrome in the Far East of the USSR]. *Vopr Virusol* 1990 Nov-Dec;35(6):492-4. (Rus).
- Avsic-Zupanc T, Likar M, Furlan P, Kaps R, Xiao SY, Rossi CA, Leduc JW. Isolation of a hantavirus from a fatal HFRS case in Slovenia [abstract]. *Am J Trop Med Hyg* 1991;45(3 Suppl):154-5. 40th Annual Meeting of the American Society of Tropical Medicine and Hygiene; 1991 Dec 1-5; Boston.
- Avsic-Zupanc T, Poljak M, Furlan P, Kaps R, Xiao SY, Leduc JW. Isolation of a strain of a Hantaan virus from a fatal case of hemorrhagic fever with renal syndrome in Slovenia. *Am J Trop Med Hyg* 1994 Oct;51(4):393-400.
- Avsic-Zupanc T, Xiao SY, Stojanovic R, Gligic A, van der Groen G, LeDuc JW. Characterization of Dobrava virus: a Hantavirus from Slovenia, Yugoslavia. *J Med Virol* 1992 Oct;38(2):132-7.
- Bai XF, Xu HF, Sun ZJ, Huang XH, Yang YC, Gao XZ, He H, Li YZ, Yang WS, et al. [A clinical double-blind trial of specific transfer factor on epidemic hemorrhagic fever.]. *Ti 4 Chun I Ta Hsueh Pao* 1990;11(3): 179-182. (Chi).
- Basin B, Piperaud R, Guilbaud JC, Moussinga N. [Atrioventricular block in 2 patients with hemorrhagic fever and renal syndrome (Hantaan-virus nephropathy) (letter)]. *Rev Med Interne* 1992 May-Jun;13(3):244-5. (Fre).
- Bateman W, Clement J, Solano K, Vanherweghem JL, van der Groen G. Hemorrhagic fever with renal syndrome in a Canadian serviceman. *Can Med Assoc J* 1990 Jul 1; 143(1):38-40.
- Becker C, Goubeaud G, Willems WR. [Hantaan virus infection (letter)]. *Dtsch Med Wochenschr* 1991 Apr 12;116(15):598. (Ger).
- Beebe JL. Emerging infections: hantavirus disease outbreak. *Clin Microbiol News* 1994;16(10):73-6.
- Bennedbaek FN, Soe KL. [Nephropathia epidemica. Hantavirus nephritis--a differential diagnosis in acute abdomen]. *Ugeskr Laeger* 1994 Oct 24;156(43):6392-3. (Dan).

- Bennett M, Hart CA. Hantavirus infection [editorial]. *J Med Microbiol* 1994;41(2):71-3.
- Bennett M, Lloyd G, Jones N, Brown A, Trees AJ, McCracken C, Smyth NR, Gaskell CJ, Gaskell RM. Prevalence of antibody to hantavirus in some cat populations in Britain. *Vet Rec* 1990 Dec 1;127(22): 548-9.
- Berkelman RL. Emerging infectious diseases in the United States, 1993. *J Infect Dis* 1994 Aug;170(2):272-7.
- Bignall J. Hantaviruses: the rodents take revenge [news]. *Lancet* 1995 Jun 17;345(8964):1564.
- Billheden J, Settergren B, Stegmayr B, Juto P. Detection of serum IgM antibodies to glomerular basement membrane in two cases of nephropathia epidemica. *J Intern Med* 1992 Jul;232(1):91-3.
- Bogdanovic R, Gligic A, Nikolic V, Ognjanovic M, Markovic M, Sarjanovic L. Belgrade and Hantaan hantaviruses--the causative agents of severe haemorrhagic fever with renal syndrome in children in Serbia. *Pediatr Nephrol* 1994 Jun;8(3):299-303.
- Borcic B, Turkovic B, Aleraj B, Tvrkovic N. [Hemorrhagic fever with renal syndrome in Croatia: incidence of infection in human and wild animal reservoirs]. *Lijec Vjesn* 1991 Sep-Oct;113(9-10):320-3. (Scr).
- Bouly S, Hoen B, Ciureanu A, Canton P. [Atypical pneumonia during hemorrhagic fever with renal syndrome (letter)]. *Presse Med* 1993 Dec 4;22(38): 1929. (Fre).
- Brackett LE, Rotenberg J, Sherman CB. Hantavirus pulmonary syndrome in New England and Europe [letter]. *N Engl J Med* 1994 Aug 25;331(8):545; discussion 547-8. Comment on: *N Engl J Med* 1994 Apr 7;330(14):1010.
- Bremner JA. Hantavirus infections and outbreaks in 1993. *Commun Dis Rep CDR Rev* 1994 Jan 7;4(1):R5-9.
- Brillman JC, Sklar DP, Davis KD, Beamsely A. Hantavirus: emergency department response to a disaster from an emerging pathogen. *Ann Emerg Med* 1994 Sep;24(3): 429-36. Comment in: *Ann Emerg Med* 1994 Sep;24(3): 512-4.
- Brummer-Korvenkontio M, Vaheri A. [Differential diagnosis in nephropathia epidemica: nephrography or virus serology? (letter)]. *Duodecim* 1991;107(5):379-81. (Fin).
- Bruno P, Hassell LH, Brown J, Tanner W, Lau A. The protean manifestations of hemorrhagic fever with renal syndrome. A retrospective review of 26 cases from Korea. *Ann Intern Med* 1990 Sep 1;113(5):385-91.
- Bruno P, Hassell LH, Quan J, Brown J. Hemorrhagic fever with renal syndrome imported to Hawaii from West Germany. *Am J Med* 1990 Aug;89(2):232-4.
- Burek KA, Rossi CA, Leduc JW, Yuill TM. Serologic and virologic evidence of a Prospect Hill-like hantavirus in Wisconsin and Minnesota. *Am J Trop Med Hyg* 1994 Sep;51(3):286-94.
- Burkhardt U, Eggers HJ. [Viral infections--clinical pictures and laboratory diagnosis. Part 3: Hantaan virus and Hantaan-related viruses, hepatitis A and B]. *Fortschr Med* 1993 Nov 30;111(33):528-9. (Ger).
- Butler JC, Peters CJ. Hantaviruses and hantavirus pulmonary syndrome. *Clin Infect Dis* 1994 Sep;19(3):387-94; quiz 395.
- Bystrovskii VF. [Effect of glucocorticoid hormones on the status of the hypothalamo-hypophyseal-adrenal system and endocrine function of the pancreas in patients with hemorrhagic fever with renal syndrome]. *Klin Med (Mosk)* 1990 Jul;68(7):86-9. (Rus).
- Bystrovskii VF, Petrichko MI, Klebanov IuA. [The effect of hemodialysis on the vasopressin level and on the renin-aldosterone system in patients with hemorrhagic fever with renal syndrome]. *Urol Nefrol (Mosk)* 1990 Jan-Feb; (1):7-10. (Rus).
- Cao Z, Peng Q. [Application of hemodialysis in severe and critical types of epidemic hemorrhagic fever]. *Hunan Yike Daxue Xuebao* 1994;19(5):426-8. (Chi).
- Chang WH, Kim IS, Choi MS, Kee SH, Han MJ, Seong SY, Lee JH, Kang JS, Park KH, et al. [Seroepidemiological survey of hemorrhagic fever with renal syndrome in Korea 1989-1991]. *Taehan Misaengmul Hakhoe Chi* 1993;28(1):43-54. (Kor).
- Chang WK, Chu YK, Cheung KS, Lee SH, Lee HW. [Study of hemorrhagic fever with renal syndrome in Hong Kong Part I survey of Hantaan virus infection among urban rats]. *Hsiang Kang Shih Chi Shu Hsueh Hui* 1990;42(2): 74-6. (Chi).
- Chapman L, Mertz G, Khan AS, Hart DC, Peters CJ, Koster F, Ksiazek TG, Rollin PE, Wilson LJ, Baum KF, et al. Open label intravenous ribavirin for hantavirus pulmonary syndrome [abstract]. Program Abstr Intersci Conf Antimicrob Agents and Chemother 1994;34:240. 34th Interscience Conference on Antimicrobial Agents and Chemotherapy; 1994 Oct 4-7; Orlando, FL.
- Chapman LE, Khabbaz RF. Etiology and epidemiology of the Four Corners hantavirus outbreak. *Infect Agents Dis* 1994 Oct;3(5):234-44.
- Chauveau P, Labadie H, Rollin PE, Laederich J, Fraisse F, Kleinknecht D. [Hemorrhagic fever

- with renal syndrome in the Paris region [letter]. Presse Med 1991 Sep 21; 20(29):1395. Comment on: Presse Med 1991 Mar 2; 20(8):384. (Fre).
- Chawla U, Bharadwaj M, Datta KK. An outbreak of an acute episode of fever with hemoptysis in Andaman Nicobar Islands Bay of Bengal Indian Ocean. J Commun Dis 1990;22(2):148-9.
- Che FX, Meng LY, Li JB, Hu QX, Chen ZS, Liu MX, Zhang SL, Tong YY, Zhang CL, Lu JC, et al. Study on airborne transmission and infection of HFRSV. J Aerosol Sci 1993;Suppl 1:24.
- Chen HX, Qiu FX. Epidemiologic surveillance on the hemorrhagic fever with renal syndrome in China. Chin Med J (Engl) 1993 Nov;106(11):857-63.
- Chen HX, Qiu FX. Studies on the environment structure of natural nidi and epidemic areas of hemorrhagic fever with renal syndrome in China. Chin Med J (Engl) 1994 Feb; 107(2):107-12.
- Chen L, et al. [Clinical study of endogenous creatinine clearance rate in EHF]. Acta Acad Med Hubei 1990; 11(3):253-5. (Chi).
- Chen LB, Yang WS. Abnormalities of T cell immunoregulation in hemorrhagic fever with renal syndrome. J Infect Dis 1990 May;161(5):1016-9.
- Chen LB, Yang WS, Xu HF, Zhang WB, Zhu P, Shang GF. [Abnormal cellular immunoregulation in patients with epidemic hemorrhagic fever]. Ti 4 Chun I Ta Hsueh Hsueh Pao 1990;11(3):207-10. (Chi).
- Chen Y, Yang D, Hao L, et al. [Analysis of the components of circulating immune complex in epidemic hemorrhagic fever]. Virol Sin 1995;10(2):111-14. (Chi).
- Childs JE, Glass GE, Ksiazek TG, Rossi CA, Oro JG, Leduc JW. Human-rodent contact and infection with lymphocytic choriomeningitis and Seoul viruses in an inner-city population. Am J Trop Med Hyg 1991 Feb; 44(2):117-21.
- Childs JE, Kaufmann AF, Peters CJ, Ehrenberg RL. Hantavirus infection--southwestern United States: interim recommendations for risk reduction. Centers for Disease Control and Prevention. MMWR Morb Mortal Wkly Rep 1993 Jul 30;42(RR-11):1-13.
- Childs JE, Krebs JW, Ksiazek TG, Maupin GO, Gage KL, Rollin PE, Zeitz PS, Sarisky J, Enscore RE, Butler JC, et al. A household-based, case-control study of environmental factors associated with hantavirus pulmonary syndrome in the southwestern United States. Am J Trop Med Hyg 1995 May;52(5):393-7.
- Childs JE, Ksiazek TG, Spiropoulou CF, Krebs JW, Morzunov S, Maupin GO, Gage KL, Rollin PE, Sarisky J, Enscore RE, Butler JC, et al. Serologic and genetic identification of Peromyscus maniculatus as the primary rodent reservoir for a new hantavirus in the southwestern United States. J Infect Dis 1994 Jun;169(6):1271-80.
- Childs JE, Mills JN, Glass GE. Rodent-borne hemorrhagic fever viruses: a special risk for mammalogists? J Mammal 1995;76(3):664-80.
- Childs JE, Rollin PE. Emergence of hantavirus disease in the USA and Europe. Curr Opin Infect Dis 1994;7(2):220-4.
- Cho HJ, Paek LJ, Lee HW. Histopathologic changes of the spleen in suckling rats inoculated with Hantaan virus. J Korean Med Sci 1992 Jun;7(2):116-21.
- Chu YK, Jennings GB, Schmaljohn CS. A vaccinia virus-vectorized Hantaan virus vaccine protects hamsters from challenge with Hantaan and Seoul viruses but not Puumala virus. J Virol 1995 Oct;69(10):6417-23.
- Chu YK, Baek LJ, Kang CY, Tkachenko EA, Dzagurova T, Drozdov SG, Lee YJ, Lee HW. [Study on ecology and etiologic agents of hemorrhagic fever with renal syndrome II. Comparison of hantavirus isolates from worldwide geographical distribution by reverse transcriptase-polymerase chain reaction-restriction fragment length polymorphism]. Taehan Misaengmul Hakhoe Chi 1994;29(1):97-108. (Kor).
- Chu YK, Rossi C, Leduc JW, Lee HW, Schmaljohn CS, Dalrymple JM. Serological relationships among viruses in the hantavirus genus, family Bunyaviridae. Virology 1994 Jan;198(1):196-204.
- Chumakov MP, Gavrilovskaya IN, Myasnikov YA. Reservoirs and modes of spread of hemorrhagic fever with renal syndrome, a zoonotic nontransmissible human disease. Arch Virol Suppl 1991;(1):49-56.
- Chung SI, Kim KW, Moon ES, Kang ET, Yu SH, Choi CS, Yang YT. [Monocyte mediated injury of human endothelial cell infected with Hantaan virus]. Chung Ang Ui Dai Chi 1992;17(4):349-58. (Kor).
- Cizman B. Hantavirus disease as a cause for hematuria and acute tubular necrosis? [letter]. Am J Kidney Dis 1994 Oct;24(4):730-1. Comment on: Am J Kidney Dis 1993 Oct;22(4):607-10.
- Clement J, Colson P, Damoiseaux P, McKenna P, Coeck J, Neyts J, Leirs H, Verhagen R. 1993 hantavirus (HV) epidemic in the Ardennes [abstract]. Nephrol Dial Transplant 1994;9(7):948. 31st Annual Congress of the European Dialysis and Transplant Association-European Renal Association; 1994 Jul 3-6; Vienna, Austria.
- Clement J, Colson P, McKenna P. Hantavirus

- pulmonary syndrome in New England and Europe [letter]. *N Engl J Med* 1994 Aug 25;331(8):545-6; discussion 547-8. Comment on: *N Engl J Med* 1994 Apr 7;330(14):949-55.
- Clement J, Colson P, Thomas I, McKenna P, Neyts J, Coeck J, Van Der Groen G, Leirs H, Verhagen R. [Hantavirus infection in Belgium]. *Ann Med Vet* 1994;138(4):257-62. (Fre).
- Clement J, De Bock R. Hematological complications of hantavirus nephropathy HVN [abstract]. *Kidney Int* 1992;42(5):1285. 45th Scientific Meeting of the Dutch Society of Nephrology; 1992 May 15; Gent, Belgium.
- Clement J, Leduc J, Tomiyama T, Lee HW. Screening of European hantavirus nephropathy HVN with high density particle agglutination HDPA [abstract]. *Kidney Int* 1992;41(5):1431-2. 43rd Scientific Meeting of the Dutch Society of Nephrology; 1991 Oct 26; Utrecht, Netherlands.
- Clement J, McKenna P, Avsic-Zupanc T, Skinner CR. Rat-transmitted hantavirus disease in Sarajevo [letter]. *Lancet* 1994 Jul 9;344(8915):131.
- Clement J, McKenna P, Colson P, Damoiseaux P, Penalba C, Halin P, Lombart D. Hantavirus epidemic in Europe, 1993 [letter]. *Lancet* 1994 Jan 8;343(8889):114. Comment on: *Lancet* 1993 Jul 31;342(8866):313; *Lancet* 1993 Aug 21; 342(8869):495. Comment in: *Lancet* 1994 Apr 9; 343(8902):921; *Lancet* 1994 Apr 23;343(8904): 1038.
- Clement J, McKenna P, Groen J, Osterhaus A, Colson P, Vervoort T, van der Groen G, Lee HW. Epidemiology and laboratory diagnosis of hantavirus (HTV) infections. *Acta Clin Belg* 1995;50(1):9-19.
- Clement J, Underwood P, Ward D, Pilaski J, LeDuc J. Hantavirus outbreak during military manoeuvres in Germany [letter]. *Lancet* 1996 Feb 3;347(8997):336.
- Clement J, Van der Groen G, Lefevre A, Mathijs D. Tubulo-interstitial sequelae of hantavirus nephropathy IIVN a follow-up study [abstract]. *J Am Soc Nephrol* 1991;2(3):264. 24th Annual Meeting of the American Society of Nephrology; 1991 Nov 17-20; Baltimore.
- Clement J, Van der Groen G, Lefevre A, Verhagen R, Leirs H, Groen J, Osterhaus A. Nephropathia epidemica NE in Belgium The Netherlands and Germany of mice and men [abstract]. *J Am Soc Nephrol* 1991;2(3):645. 24th Annual Meeting Of The American Society Of Nephrology; 1991 Nov 17-20; Baltimore.
- Collan Y, Mihatsch MJ, Lahdevirta J, Jokinen EJ, Romppanen T, Jantunen E. Nephropathia epidemica: mild variant of hemorrhagic fever with renal syndrome. *Kidney Int Suppl* 1991 Dec;35:S62-71.
- Conlon PJ Jr, Walshe JJ, Carmody M, Donohoe J,
- Keogh B, Glass G, Watson AJ. Haemorrhagic fever with renal syndrome [letter]. *Nephrol Dial Transplant* 1993;8(11): 1306-7.
- Cosgriff TM. Mechanisms of disease in hantavirus infection: pathophysiology of hemorrhagic fever with renal syndrome. *Rev Infect Dis* 1991 Jan-Feb;13(1):97-107.
- Cosgriff TM, Lee HW, See AF, Parrish DB, Moon JS, Kim DJ, Lewis RM. Platelet dysfunction contributes to the haemostatic defect in haemorrhagic fever with renal syndrome. *Trans R Soc Trop Med Hyg* 1991 Sep-Oct; 85(5):660-3.
- Cosgriff TM, Lewis RM. Mechanisms of disease in hemorrhagic fever with renal syndrome. *Kidney Int Suppl* 1991 Dec;35:S72-9.
- Dai W. [Structural protein of hemorrhagic fever renal syndrome virus in uric fusion cells in hemorrhagic fever renal syndrome]. *Chung Hua I Hsueh Tsa Chih* (Taipei) 1993 Mar;73(3):135-8, 189. (Chi).
- Danes L, Pavlickova E, Kobzik J, Dzagurova TK, Dankova A, Cech M, Tkachenko EA, Sebek Z, Svejda J. Anti-hantavirus antibodies in human sera in Czechoslovakia. *J Hyg Epidemiol Microbiol Immunol* 1992;36(1):55-61.
- Danes L, Pejcoch M, Bukovjan K, Veleba J, Halackova M. [Antibodies against hantaviruses in game and domestic oxen in the Czech Republic]. *Cesk Epidemiol Mikrobiol Imunol* 1992 Apr;41(1):15-8. (Cze).
- Danes L, Pejcoch M, Hubalek Z, Halouzka J, Juricova Z, Zima J, Tkachenko EA, Dzagurova TK, Ivanov AP, Svandova E. Hantaviruses in small wild living mammals in Czechoslovakia. Results of a 1983-1989 study. *J Hyg Epidemiol Microbiol Immunol* 1991;35(3):281-8.
- Davidovich IM. [The thrombocyte link in the hemostasis of patients with hemorrhagic fever with renal syndrome]. *Ter Arkh* 1990;62(6):68-71. (Rus).
- Davidovich IM, Parshina TA. [Plasma markers of vascular endothelium damage in patients with hemorrhagic fever with renal syndrome]. *Gematol Transfuziol* 1994 Sep-Oct; 39(5):41-2. (Rus).
- Davidovich IM, Parshina TA, Utkin VN. [Von Willebrand factor, antithrombin III and 5'-nucleotidase in the blood and the athrombogenic properties of the vascular wall in patients with hemorrhagic fever with renal syndrome]. *Ter Arkh* 1993;65(11):22-5. (Rus).
- de Courten MP, Ksiazek TG, Rollin PE, Khan AS, Daily PJ, Knowler WC. Seroprevalence study of hantavirus antibodies in Pima Indians with renal disease [letter]. *J Infect Dis* 1995 Mar;171(3):762-3.
- Delacour JL, Noirot A, Kramarz P, Floriot C,

- Wagschal G, Kassis N, Daoudal P, Salagnac J. [Acute kidney failure and transient myopia. Association suggestive of hemorrhagic fever with renal syndrome (letter)]. *Presse Med* 1991 Apr 13;20(14):659. (Fre).
- Dellisola B, Cacoub P, Gatfosse M, Rollin PE, Jacomet C, Godeau P. [Severe form of hemorrhagic fever with renal syndrome. An autochthonous case observed in Parisian suburbs (letter)]. *Presse Med* 1991 Mar 2;20(8):384. Comment in: *Presse Med* 1991 Sep 21;20(29):1395. (Fre).
- Denetclaw TH, Denetclaw WF Jr. Hantavirus pulmonary syndrome in New England and Europe [letter]. *N Engl J Med* 1994 Aug 25;331(8):546-8. Comment on: *N Engl J Med* 1994 Apr 7;330(14):949-55.
- Denetclaw WF Jr, Denetclaw TH. Is south-west US mystery disease caused by hantavirus? [letter]. *Lancet* 1994 Jan 1; 343(8888):53-4.
- Deng B, Wu Z, Guan M, et al. [Detection of 6-keto-PGF-1alpha in the patients with early EHF and its clinical significance]. *Acta Acad Med Hubei* 1995;16(2): 132-4. (Chi).
- Development of a recombinant immunoblot assay for the rapid diagnosis of Four Corners hantavirus (FCV) infection [abstract]. *Clin Res* 1994;42(1):5A. Joint Meeting of the Western Society for Clinical Investigation, Western Section of the American Federation for Clinical Research, Western Society for Pediatric Research, Western Region of the Society for Investigative Dermatology and the Western Student Medical Research Committee; 1994 Feb 9-12; Carmel, CA.
- Diglisic G, Gligic A, Stojanovic R, Obradovic M, Velimirovic D, Lukac V, Xiao SY, Rossi CA, Leduc JW. Outbreak of hemorrhagic fever with renal syndrome in Yugoslavia associated with domestic rats and mice [abstract]. *Am J Trop Med Hyg* 1991;45(3 Suppl):153. 40th Annual Meeting of the American Society of Tropical Medicine and Hygiene; 1991 Dec 1-5; Boston.
- Diglisic G, Xao SY, Gligic A, Obradovic M, Stojanovic R, Velimirovic D, Lukac V, Rossi CA, LeDuc JW. Isolation of a Puumala-like virus from *Mus musculus* captured in Yugoslavia and its association with severe hemorrhagic fever with renal syndrome. *J Infect Dis* 1994 Jan;169(1): 204-7.
- Dimkovic N, Jovanovic D, Gligic A, Radmilovic A. Severe haemorrhagic fever with renal syndrome caused by new (Belgrade) hantavirus [abstract]. *Nephrol Dial Transplant* 1993;8(9):934. 30th Annual Congress of the European Dialysis and Transplant Association and the European Renal Association; 1993 Sep 15-18; Glasgow.
- Ding X, Zhao W, Yang P, Yang Z, Gao Y. [Detection of HFRS virus by R-22 CDNA probe and its use in clinical diagnosis]. *Acta Acad Med Hubei* 1992;3(2):130-2. (Chi).
- Dixon K, Kim DH, Nang R, Huh J, Park J, Hwang Y. Comparison of the new case-crossover design with the standard unmatched case-control design in a study of risk factors for Korean hemorrhagic fever in soldiers of the Republic of Korea [abstract]. *Am J Epidemiol* 1991;134(7):757-8. 24th Annual Meeting of the Society for Epidemiologic Research; 1991 Jun 11-4; Buffalo, NY.
- Dixon KE, Nang RN, Kim DH, Huh J, Park J, Hwang Y. A case-control study of risk factors for Korean hemorrhagic fever among soldiers in the Republic of Korea [abstract]. *Am J Trop Med Hyg* 1991;45(3 Suppl):255. 40th Annual Meeting of the American Society of Tropical Medicine and Hygiene; 1991 Dec 1-5; Boston.
- Dixon KE, Nang RN, Kim DH, Hwang YJ, Park JW, Huh JW, Cho YK. A hospital-based, case-control study of risk factors for hemorrhagic fever with renal syndrome in soldiers of the armed forces of the Republic of Korea. *Am J Trop Med Hyg* 1996 Mar;54(3):284-8.
- Dohmae K, Koshimizu U, Nishimune Y. In utero and mammary transfer of hantavirus antibody from dams to infant rats. *Lab Anim Sci* 1993 Dec;43(6):557-61.
- Dixon KE, Nang RN, Kim DH, Hwang YJ, Park JW, Huh JW, Cho YK. A hospital-based, case-control study of risk factors for hemorrhagic fever with renal syndrome in soldiers of the armed forces of the Republic of Korea. *Am J Trop Med Hyg* 1996 Mar;54(3):284-8.
- Dohmae K, Okabe M, Nishimune Y. Experimental transmission of hantavirus infection in laboratory rats. *J Infect Dis* 1994 Dec;170(6):1589-92.
- Dong B. [Experimental studies on the transmission of hemorrhagic fever with renal syndrome virus by gamasidea mites and fleas]. *Chung Hua I Hsueh Tsa Chih (Taipei)* 1991 Sep;71(9):502-4, 36. (Chi).
- Dong C, et al. [Studies on anion gap of epidemic hemorrhagic fever IV. The significance of simultaneous changes in anion gap urine volume and serum concentration of sodium ion on the estimations of EHF prognosis]. *Acta Acad Med Hubei* 1991;12(1):5-8. (Chi).
- Dong C, Wang X, et al. [Studies on anion gap of epidemic hemorrhagic fever II. The mechanism and clinical value of rise of anion gap in EHF]. *Acta Acad Med Hubei* 1990;11(4):289-93. (Chi).
- Dong CR, Wang XJ, Xiang JM, Cosgriff TM. Kinetic changes of coagulation-anticoagulation and fibrinolytic system of patients with epidemic hemorrhagic fever [abstract]. *FASEB J* 1991;5(6):A1628. 75th Annual Meeting of the Federation of American Societies for Experimental Biology; 1991 Apr 21-25; Atlanta, GA.

- dos Santos VM. [Leptospirosis and pulmonary hantavirus syndrome (letter)]. Rev Assoc Med Bras 1994 Jul-Sep; 40(3):225. (Por).
- Duchin JS, Koster FT, Peters CJ, Simpson GL, Tempest B, Zaki SR, Ksiazek TG, Rollin PE, Nichol S, Umland ET, et al. Hantavirus pulmonary syndrome: a clinical description of 17 patients with a newly recognized disease. The Hantavirus Study Group. N Engl J Med 1994 Apr 7;330(14):949-55. Comment in: N Engl J Med 1994 Apr 7;330(14):1004-5; N Engl J Med 1994 Aug 25; 331(8):545-6; discussion 547-8; N Engl J Med 1994 Aug 25;331(8):546-8.
- Dull SM, Brillman JC, Simpson SQ, Sklar DP. Hantavirus pulmonary syndrome: recognition and emergency department management. Ann Emerg Med 1994 Sep; 24(3):530-6. Comment in: Ann Emerg Med 1994 Sep; 24(3):512-4. Published erratum appears in Ann Emerg Med 1994 Dec;24(6):1179.
- Durand JP. [Hantavirus: a new pandemic?]. Med Trop (Mars) 1994;54(3):211-3. (Fre).
- Elanskaia LN. [Clinico-immunologic criteria of residual phenomena in hemorrhagic fever with renal syndrome]. Sov Med 1990;(1):77-80. (Rus).
- Elgh F, Wadell G, Juto P. Comparison of the kinetics of Puumala virus specific IgM and IgG antibody responses in nephropathia epidemica as measured by a recombinant antigen-based enzyme-linked immunosorbent assay and an immunofluorescence test. J Med Virol 1995 Feb;45(2): 146-50.
- Elisaf M, Korakis H, Siamopoulos KC. Chronic renal dysfunction in hemorrhagic fever with renal syndrome patients. Ren Fail 1993;15(5):623-7.
- Elisaf M, Siamopoulos KC. Pulmonary involvement in patients with HFRS [letter]. Chest 1995 Feb;107(2): 588-9.
- Elisaf M, Stefanaki S, Repanti M, Korakis H, Tsianos E, Siamopoulos KC. Liver involvement in hemorrhagic fever with renal syndrome. J Clin Gastroenterol 1993 Jul;17(1): 33-7.
- Elliott LH, Ksiazek TG, Rollin PE, Spiropoulou CF, Morzunov S, Monroe M, Goldsmith CS, Humphrey CD, Zaki SR, Krebs JW, et al. Isolation of the causative agent of hantavirus pulmonary syndrome. Am J Trop Med Hyg 1994 Jul;51(1):102-8.
- Emerging infectious diseases. Outbreak of acute illness. Wkly Epidemiol Rec 1993 Jun 18;68(25):186-8.
- Emerging infectious diseases. Wkly Epidemiol Rec 1993 Dec 3;68(49):364-7.
- Esbjorner E, Ahlm C. Clinical quiz. Nephropathia epidemica. Specific IgM antibodies against Puumalavirus can be found in serum. Pediatr Nephrol 1994 Apr;8(2): 257-8.
- Esselink RA, Gerding MN, Brouwers PJ, Solleveld H, Jordans JG, Groen J, Osterhaus AD. Guillain-Barre syndrome associated with hantavirus infection [letter]. Lancet 1994 Jan 15;343(8890):180-1.
- Estepa A, Basurco B, Sanz F, Coll JM. Stimulation of adherent cells by addition of purified proteins of viral hemorrhagic septicemia virus to trout kidney cell cultures. Viral Immunol 1991 Spring;4(1):43-52.
- Fan W, Zhang C, Liu Z, et al. [Dynamics and clinical significance of neutralizing antibody in patients with epidemic hemorrhagic fever]. Xian Yike Daxue Xuebao 1994;15(1):30-3. (Chi).
- Farr RW. Hantavirus pulmonary syndrome [clinical conference]. W V Med J 1994 Oct;90(10):422-5.
- Fedorchenko IuL. [Serum level of various biologically active substances and their connection with vessel permeability in hemorrhagic fever with kidney syndrome]. Vopr Med Khim 1991 Sep-Oct;37(5):70-2. (Rus).
- Fedorchenko IuL, Davidovich IM. [General, free and thrombocytic serotonin in the blood plasma of patients with hemorrhagic fever with renal syndrome]. Klin Med (Mosk) 1990 Jun;68(6):62-4. (Rus).
- Fedorchenko IuL, Sirotin BZ. [The blood vessel damaging effect of serum and the permeability of vessels in patients with hemorrhagic fever and renal syndrome]. Patol Fiziol Eksp Ter 1993 Jul-Dec;(4):41-3. (Rus).
- Fedorchenko IuL, Sirotin BZ, Rozhkovskaia EN. [Vascular permeability, microcirculation and biologically active substances in patients with hemorrhagic fever with renal syndrome]. Ter Arkh 1990;62(6):71-4. (Rus).
- Feldmann H, Sanchez A, Morzunov S, Spiropoulou CF, Rollin PE, Ksiazek TG, Peters CJ, Nichol ST. Utilization of autopsy RNA for the synthesis of the nucleocapsid antigen of a newly recognized virus associated with hantavirus pulmonary syndrome. Virus Res 1993 Dec; 30(3):351-67.
- Ferluga D, Hvala A, Vizjak A, Trnacevic S, Halilbasic A. Hantaan nephropathy (HN) and Balkan endemic nephropathy (BEN) tubulo-interstitial or vascular renal diseases? [abstract]. Pathol Res Pract 1991;187(6):686. 13th European Congress of Pathology; 1991 Sep 1-6; Ljubljana, Yugoslavia.
- Figurnov VA, Krizhanovskii VI, Marunich NA, Poberezhskaya LI, Isaev VP. [3 cases of appendectomy in acute appendicitis in children with hemorrhagic fever with renal syndrome]. Pediatriia 1990;(2):94-5. (Rus).

- Filipe AR, Andrade HR, Sommer AI, Traavik T. Hantaviral antigens and antibodies in wild rodents in Portugal. *Acta Virol* 1991 May;35(3):287-91.
- Fisher-Hoch SP, Ruo S, Li YL, Tang YW, Xu ZY, Liu ZL, Tong Z, Ma QR, McCormick JB. Epidemiology of hemorrhagic fever with renal syndrome in an area of rural People's Republic of China (PRC) with mixed Apodemus and Rattus derived infections [abstract]. *Am J Trop Med Hyg* 1991;45(3 Suppl):254. 40th Annual Meeting of the American Society of Tropical Medicine and Hygiene; 1991 Dec 1-5; Boston.
- Foged N, Spencer ES, Andersen HK. [Nephropathia epidemica. Hantavirus and acute renal insufficiency]. *Ugeskr Laeger* 1990 Jan 8;152(2):89-92. (Dan).
- Forslund T, Liisanantti R, Sajjonmaa O, Fyhrquist F. Raised plasma endothelin-1 concentration in patients with nephropathia epidemica. *Clin Nephrol* 1993 Aug;40(2): 69-73.
- Forslund T, Saltevo J, Anttilinen J, Auvinen S, Brummer-Korvenkontio M, Korhonen A, Poutiainen M. Complications of nephropathia epidemica: three cases. *J Intern Med* 1992 Jul;232(1):87-90.
- Foucar K, Nolte KB, Feddersen RM, Hjelle B, Jenison S, McLaughlin J, Madar DA, Young SA, Zaki SR, Hughes L, et al. Outbreak of hantavirus pulmonary syndrome in the southwestern United States. Response of pathologists and other laboratorians. *Am J Clin Pathol* 1994 Apr; 101(4 Suppl 1):S1-5.
- Fox JG. With man's worst friend (the rat). In: Schlossberg D, editor. *Infections of leisure*. New York: Springer-Verlag; 1994. p. 204-28.
- Frese M, Kochs G, Feldmann H, Hertkorn C, Haller O. Inhibition of bunyaviruses, phleboviruses, and hantaviruses by human MxA protein. *J Virol* 1996 Feb; 70(2):915-23.
- From the Centers for Disease Control and Prevention. Hantavirus pulmonary syndrome, United States 1993. *JAMA* 1994 Feb 16;271(7):498.
- From the Centers for Disease Control and Prevention. Infectious diseases update: outbreak, hantavirus infection--southwestern United States, 1993. *JAMA* 1993 Jul 7;270(1):25.
- From the Centers for Disease Control and Prevention. Progress in the development of hantavirus diagnostic assays--United States. *JAMA* 1993 Oct 27;270(16): 1920-1.
- From the Centers for Disease Control and Prevention. Update: hantavirus disease--southwestern United States, 1993. *JAMA* 1993 Aug 25;270(8):934.
- From the Centers for Disease Control and Prevention. Update: hantavirus disease--United States, 1993. *JAMA* 1993 Sep 8;270(10):1176-7.
- From the Centers for Disease Control and Prevention. Update: hantavirus infection--United States, 1993. *JAMA* 1993 Jul 28;270(4):429, 432.
- From the Centers for Disease Control and Prevention. Update: hantavirus pulmonary syndrome--United States, 1993. *JAMA* 1993 Nov 17;270(19):2287-8.
- From the Centers for Disease Control and Prevention. Update: outbreak of hantavirus infection-- southwestern United States, 1993. *JAMA* 1993 Jul 21;270(3):306.
- Gavrilovskaya I, Apekina N, Okulova N, Demina V, Bernshtain A, Myasnikov Y. IgG avidity assay for estimation of the time after onset of hantavirus infection in colonized and wild bank voles. *Arch Virol* 1993;132(3-4): 359-67.
- Gerding MN, Jordans JG, Groen J, Osterhaus AD. Haemorrhagic fever with renal syndrome [letter]. *Lancet* 1993 Aug 21;342(8869):495. Comment on: *Lancet* 1993 Jul 31;342(8866):313. Comment in: *Lancet* 1994 Jan 8; 343(8889):114; *Lancet* 1994 Jan 8;343(8889):114-5.
- Giebel LB, Raab K, Zoller L, Bautz EK, Darai G. Identification and characterization of a hantavirus strain of unknown origin by nucleotide sequence analysis of the cDNA derived from the viral S RNA segment. *Virus Genes* 1991 Apr;5(2):111-20.
- Giebel LB, Zoller L, Bautz EK, Darai G. Rapid detection of genomic variations in different strains of hantaviruses by polymerase chain reaction techniques and nucleotide sequence analysis. *Virus Res* 1990 Jun;16(2):127-36.
- Gill PM. Korean hemorrhagic fever: nursing care critical to recovery. *Mil Med* 1991 Mar;156(3):131-4.
- Gilson GJ, Maciulla JA, Nevils BG, Izquierdo LE, Chatterjee MS, Curet LB. Hantavirus pulmonary syndrome complicating pregnancy. *Am J Obstet Gynecol* 1994 Aug; 171(2):550-4.
- Glass GE, Watson AJ, LeDuc JW, Childs JE. Domestic cases of hemorrhagic fever with renal syndrome in the United States. *Nephron* 1994;68(1):48-51.
- Glass GE, Watson AJ, LeDuc JW, Kelen GD, Quinn TC, Childs JE. Infection with a ratborne hantavirus in US residents is consistently associated with hypertensive renal disease. *J Infect Dis* 1993 Mar;167(3):614-20.
- Gligic A, Dimkovic N, Xiao SY, Buckle GJ, Jovanovic

- D, Velimirovic D, Stojanovic R, Obradovic M, Diglisic G, Micic J, et al. Belgrade virus: a new hantavirus causing severe hemorrhagic fever with renal syndrome in Yugoslavia. *J Infect Dis* 1992 Jul;166(1):113-20.
- Gligic A, Stojanovic R, Obradovic M, Hlaca D, Dimkovic N, Diglisic G, Lukac V, Ler Z, Bogdanovic R, Antonijevic B, et al. Hemorrhagic fever with renal syndrome in Yugoslavia: epidemiologic and epizootiologic features of a nationwide outbreak in 1989. *Eur J Epidemiol* 1992 Nov;8(6):816-25.
- Goldsmith CS, Elliott LM, Humphrey CD, Zaki SR. Hantavirus pulmonary syndrome: an ultrastructural study [abstract]. *Mod Pathol* 1995;8(1):126A. Annual Meeting of the United States and Canadian Academy of Pathology; 1995 Mar 11-17; Toronto.
- Gong Z, et al. [Alterations and significance of red blood cells in different renal functions of epidemic hemorrhagic fever]. *Acta Acad Med Hubei* 1991;12(2):149-51. (Chi).
- Gong Z, et al. [Determination of plasma fibronectin and its significance in epidemic hemorrhagic fever]. *Acta Acad Med Hubei* 1990;11(2):129-31. (Chi).
- Goodman RA, Zaki S, Khan A, Kehrberg M, Khabbaz R. Hantavirus pulmonary syndrome in 1978 [abstract]. Program Abstr Intersci Conf Antimicrob Agents Chemother 1994;34:271. 34th Interscience Conference on Antimicrobial Agents and Chemotherapy; 1994 Oct 4-7; Orlando, FL.
- Gott P, Stohwasser R, Schnitzler P, Darai G, Bautz EK. RNA binding of recombinant nucleocapsid proteins of hantaviruses. *Virology* 1993 May;194(1):332-7.
- Gott P, Zoller L, Yang S, Stohwasser R, Bautz EK, Darai G. Antigenicity of hantavirus nucleocapsid proteins expressed in *E. coli*. *Virus Res* 1991 Mar;19(1):1-15.
- Grankvist O, Juto P, Settergren B, Ahlm C, Bjermer L, Linderholm M, Tarnvik A, Wadell G. Detection of nephropathia epidemica virus RNA in patient samples using a nested primer-based polymerase chain reaction. *J Infect Dis* 1992 May;165(5):934-7.
- Grcevska L, Polenakovic M, Oncevski A, Zografski D, Gligic A. Different pathohistological presentations of acute renal involvement in Hantaan virus infection: report of two cases. *Clin Nephrol* 1990 Nov;34(5):197-201.
- Gresikova M, Kozuch O, Barakova A, Sekeyova M, Tkachenko EA. Serological evidence of Hantaan virus in Slovakia during 1989-1991. *Acta Virol* 1994 Oct;38(5): 295-6.
- Gresikova M, Tkachenko EA, Sekeyova M. Detection of antibodies to the western and the eastern type of haemorrhagic fever with renal syndrome in patient's sera from Slovakia. *Acta Virol* 1990 Aug;34(4):372-5.
- Groen J, Dalrymple J, Fisher-Hoch S, Jordans JG, Clement JP, Osterhaus AD. Serum antibodies to structural proteins of hantavirus arise at different times after infection. *J Med Virol* 1992 Aug;37(4):283-7.
- Groen J, Gerdink M, Jordans JG, Clement JP, Osterhaus AD. Class and subclass distribution of hantavirus-specific serum antibodies at different times after the onset of nephropathia epidemica. *J Med Virol* 1994 May;43(1): 39-43.
- Groen J, Gerdink M, Koeman JP, Roholl PJ, van Amerongen G, Jordans HG, Niester HG, Osterhaus AD. A macaque model for hantavirus infection. *J Infect Dis* 1995 Jul; 172(1):38-44.
- Groen J, Gerdink MN, Jordans JG, Clement JP, Nieuwenhuijs JH, Osterhaus AD. Hantavirus infections in The Netherlands: epidemiology and disease. *Epidemiol Infect* 1995 Apr;114(2):373-83.
- Groen J, Jordans HG, Clement JP, Rooijakkers EJ, UytdeHaag FG, Dalrymple J, Van der Groen G, Osterhaus AD. Identification of hantavirus serotypes by testing of post-infection sera in immunofluorescence and enzyme-linked immunosorbent assays. *J Med Virol* 1991 Jan;33(1):26-32.
- Groen J, Osterhaus AD, Avsic-Zupanc T, van der Groen G, Clement JP, Lefevre A, Jordans JG. Different hantavirus serotypes in western Europe [letter]. *Lancet* 1991 Mar 9; 337(8741):621-2.
- Gu XS, Song ZB, Jin ZW, Meng GR, Zhang CA, Yan DY, Gu T, Yang SQ, He JR, Luo FJ, et al. Isolation of a strain of Hantaan virus from peritoneal exudate cells of a patient with hemorrhagic fever with renal syndrome. *Chin Med J (Engl)* 1990 Jun;103(6):455-9.
- Gu XS, You ZQ, Meng GR, Luo FJ, Yang SH, Yang SQ, Ma WH, He JR, Song ZB, Su QA, et al. Hemorrhagic fever with renal syndrome. Separation of human peripheral blood T and B cells and detection of viral antigen. *Chin Med J (Engl)* 1990 Jan;103(1):25-8.
- Guangsang G, Hong X, Li C. Observation of pathological and viral antigen of epidemic hemorrhagic fever virus infection in suckling mice. *Virol Sin* 1994;9(1):83. (Chi).
- Guasticchi G. [Hantaan virus infection]. *Ann Ig* 1990 Nov-Dec;2(6):445-8. (Ita).
- Guerra LG, Ho H, Verghese A. New pathogens in pneumonia. *Med Clin North Am* 1994;78(5):967-85.
- Guo G, Xiao H, Chen L, et al. [Observation of pathological and viral antigen of epidemic hemorrhagic fever virus infection in suckling mice]. *Virol Sin* 1994;9(1):81-3. (Chi).

- Guo WF, Zhou ZY. [Clinical and experimental study of qing wen oral liquid in the treatment of viral infectious fever]. Chung Kuo Chung Hsi I Chieh Ho Tsa Chih 1992 Nov; 12(11):656-9, 643. (Chi).
- Guo XX. [A case of epidemic hemorrhagic fever with microfilariae in the bone marrow]. Chung Kuo Chi Sheng Chung Hsueh Yu Chi Sheng Chung Ping Tsa Chih 1992; 10(3):217-18. (Chi).
- Guo Y, et al. Re-evaluation of clinical significance of serum GOT CPK levels for patients with EHF. Acta Acad Med Hubei 1991;12(1):12-4. (Chi).
- Ha IS, Choi Y, Park YS, Cheong HI, Koo JAW, Kim IKS, Kim EC, Kim S, Lee JS. Development of monoclonal antibodies against Hantaan virus nucleocapsid protein. Clin Diagn Lab Immunol 1995;2(4):439-42.
- Haemorrhagic fever with renal syndrome. Wkly Epidemiol Rec 1993 Jun 25;68(26):189-91.
- Hamdan M, Bindi P, Cerabona V. [Hemorrhagic fever with renal manifestations a rare cause of appendicular syndrome]. Sem Hop 1992;68(8):207-8. (Fre).
- Hantavirus disease. Lancet 1990 Aug 18;336(8712):407-8.
- Hantavirus pulmonary syndrome--Northeastern United States, 1994. MMWR Morb Mortal Wkly Rep 1994 Aug 5; 43(30):548-9, 555-6. Published erratum appears in MMWR Morb Mortal Wkly Rep 1994 Sep 2;43(34):638.
- Hantavirus pulmonary syndrome--United States, 1993. MMWR Morb Mortal Wkly Rep 1994 Jan 28;43(3): 45-8. Published erratum appears in MMWR Morb Mortal Wkly Rep 1994 Feb 25;43(7):127.
- Hantavirus pulmonary syndrome--United States, 1995 and 1996. MMWR Morb Mortal Wkly Rep 1996 Apr 12; 45(14):291-5.
- Hantavirus pulmonary syndrome-Virginia, 1993. MMWR Morb Mortal Wkly Rep 1994;43(47):876-7.
- Hantavirus-associated illness identified in North Dakota [news]. Infect Control Hosp Epidemiol 1993 Nov;14(11): 673.
- Hart CA, Bennett M. Hantavirus: an increasing problem? Ann Trop Med Parasitol 1994 Aug;88(4):347-58.
- Hasty SE, Dalrymple JM, Malinoski FJ, Schmaljohn AL, Schmaljohn CS. Preclinical testing of a recombinant vaccinia virus vaccine candidate for hemorrhagic fever with renal syndrome [abstract]. Am J Trop Med Hyg 1991;45(3 Suppl):216-7. 40th Annual Meeting of the American Society of Tropical Medicine and Hygiene; 1991 Dec 1-5; Boston.
- He J. [A dynamic change of serotypes of HFRS patients in mixed epidemic area]. Chung Hua Liu Hsing Ping Hsueh Tsa Chih 1991 Jun;12(3):140-3. (Chi).
- Hedman K, Vaheri A, Brummer-Korvenkontio M. Rapid diagnosis of hantavirus disease with an IgG-avidity assay. Lancet 1991 Nov 30;338(8779):1353-6.
- Hindrichsen S, Medeiros de Andrade A, Clement J, Leirs H, McKenna P, Matthys P, Neild GH. Hantavirus infection in Brazilian patients from Recife with suspected leptospirosis [letter]. Lancet 1993 Jan 2;341(8836):50.
- Hjelle B, Anderson B, Torrez-Martinez N, Song W, Gannon WL, Yates TL. Prevalence and geographic genetic variation of hantaviruses of New World harvest mice (Reithrodontomys): identification of a divergent genotype from a Costa Rican Reithrodontomys mexicanus. Virology 1995 Mar 10;207(2):452-9.
- Hjelle B, Chavez-Giles F, Torrez-Martinez N, Yamada T, Sarisky J, Ascher M, Jenison S. Dominant glycoprotein epitope of Four Corners hantavirus is conserved across a wide geographical area. J Gen Virol 1994 Nov; 75(Pt 11):2881-8.
- Hjelle B, Chavez-Giles F, Torrez-Martinez N, Yates T, Sarisky J, Webb J, Ascher M. Genetic identification of a novel hantavirus of the harvest mouse Reithrodontomys megalotis. J Virol 1994 Oct;68(10):6751-4.
- Hjelle B, Jenison S, Torrez-Martinez N, Yamada T, Nolte K, Zumwalt R, MacInnes K, Myers G. A novel hantavirus associated with an outbreak of fatal respiratory disease in the southwestern United States: evolutionary relationships to known hantaviruses. J Virol 1994 Feb;68(2):592-6.
- Hjelle B, Krolkowski J, Torrez-Martinez N, Chavez-Giles F, Vanner C, Laposata E. Phylogenetically distinct hantavirus implicated in a case of hantavirus pulmonary syndrome in the northeastern United States. J Med Virol 1995;46(1):21-7.
- Hjelle B, Spiropoulou CF, Torrez-Martinez N, Morzunov S, Peters CJ, Nichol ST. Detection of Muerto Canyon virus RNA in peripheral blood mononuclear cells from patients with hantavirus pulmonary syndrome. J Infect Dis 1994 Oct;170(4):1013-7.
- Hjelle B, Torrez-Martinez N, Koster FT. Hantavirus pulmonary syndrome-related virus from Bolivia [letter]. Lancet 1996 Jan 6;347(8993):57.
- Hjelle B, Torrez-Martinez N, Koster FT, Jay M, Ascher MS, Brown T, Reynolds P, Ettestad P, Voorhees RE, Sarisky J, Ensore RE, Sands L, Mosley DG, Kioski C, Bryan RT, Sewell CM. Epidemiologic linkage of rodent and human hantavirus genomic sequences in case

- investigations of hantavirus pulmonary syndrome. *J Infect Dis* 1996 Apr;173(4):781-6.
- Hjelle B, Yates T, Jenison S, Parmenter R, Foxx T, Biggs J, Bennett K, Webb J, Sarisky J, Ascher M, et al. Molecular variation in New World hantaviruses [abstract]. Program Abstr Intersci Conf Antimicrob Agents Chemother 1994; 34:284. 34th Interscience Conference on Antimicrobial Agents and Chemotherapy; 1994 Oct 4-7; Orlando, FL.
- Holthofer H, Mustonen J. Expression of cytokines and adhesion molecules, and cellular infiltration in nephropathia epidemica (NE) [abstract]. *J Am Soc Nephrol* 1994;5(3):781. 27th Annual Meeting of the American Society of Nephrology; 1994 Oct 26-9; Orlando, FL.
- Horgan J. The no-name virus. Questions linger after the Four Corners outbreak [news]. *Sci Am* 1994 Dec;271(6):34-6.
- Horgan J. Were Four Corners victims biowar casualties? [news]. *Sci Am* 1993 Nov;269(5):16.
- Horling J, Lundkvist A, Huggins JW, Niklasson B. Antibodies to Puumala virus in humans determined by neutralization test. *J Virol Methods* 1992 Sep;39(1-2): 139-47.
- Horling J, Lundkvist A, Persson K, Mullaart M, Dzagurova T, Dekonenko A, Tkachenko E, Niklasson B. Detection and subsequent sequencing of Puumala virus from human specimens by PCR. *J Clin Microbiol* 1995 Feb;33(2): 277-82.
- Hornsleth A. [Hantaan virus infections]. *Ugeskr Laeger* 1990 Oct 1;152(40):2902-3. (Dan).
- Hou JC, Jiang ZY, He ZF. [Inhibitory effect of selenium on complement activation and its clinical significance]. *Chung Hua I Hsueh Tsa Chih* 1993 Nov;73(11):645-6, 699. (Chi).
- Huang C. [High level of tumor necrosis factor alpha activity of plasma and serum from acute phase hemorrhagic fever with renal syndrome]. *Chung Hua I Hsueh Tsa Chih (Taipei)* 1992 Mar;72(3):151-4, 190. (Chi).
- Huang C, Jin B, Wang M, Li E, Sun C. Hemorrhagic fever with renal syndrome: relationship between pathogenesis and cellular immunity. *J Infect Dis* 1994 Apr;169(4): 868-70.
- Huang YX, Dong J, Lu QY. [A study on gastric mucosa damage, antigen location, and virus dissociation in patients with epidemic hemorrhagic fever]. *Chung Hua Nei Ko Tsa Chih* 1993 Nov;32(11):726-8. (Chi).
- Huggins JW, Hsiang CM, Cosgriff TM, Guang MY, Smith JL, Wu ZO, LeDuc JW, Zheng ZM, Meegan JM, Wang QN, et al. Prospective, double-blind, concurrent, placebo-controlled clinical trial of intravenous ribavirin therapy of hemorrhagic fever with renal syndrome. *J Infect Dis* 1991 Dec;164(6):1119-27.
- Hughes JM, Peters CJ, Cohen ML, Mahy BW. Hantavirus pulmonary syndrome: an emerging infectious disease. *Science* 1993 Nov 5;262(5135):850-1. Comment in: *Science* 1993 Nov 5;262(5135):832-6.
- Hukic M, Kurt A, Torstensson S, Lundkvist A, Wiger D, Niklasson B. Haemorrhagic fever with renal syndrome in north-east Bosnia [letter]. *Lancet* 1996 Jan 6;347(8993): 56-7.
- Hung T, Zhou JY, Tang YM, Zhao TX, Baek LJ, Lee HW. Identification of Hantaan virus-related structures in kidneys of cadavers with haemorrhagic fever with renal syndrome. *Arch Virol* 1992;122(1-2):187-99.
- Isegawa Y, Fujiwara Y, Ohshima A, Fukunaga R, Murakami H, Yamanishi K, Sokawa Y. Nucleotide sequence of the M genome segment of hemorrhagic fever with renal syndrome virus strain B-1. *Nucleic Acids Res* 1990 Aug 25;18(16):4936.
- Isegawa Y, Ohshima A, Sokawa Y, Yamanishi K. Strand-specific detection of Hantaan virus RNA sequences by in vitro DNA amplification. *Microbiol Immunol* 1994;38(11):905-8.
- Isegawa Y, Sheng J, Sokawa Y, Yamanishi K, Nakagomi O, Ueda S. Selective amplification of cDNA sequence from total RNA by cassette-ligation mediated polymerase chain reaction (PCR): application to sequencing 6.5 kb genome segment of hantavirus strain B-1. *Mol Cell Probes* 1992 Dec;6(6):467-75.
- Isegawa Y, Tanishita O, Ueda S, Yamanishi K. Association of serine in position 1124 of Hantaan virus glycoprotein with virulence in mice. *J Gen Virol* 1994;75 (Pt 11): P3273-8.
- Ivanov KS, Kosil OI, Petrushko IuM, Kapustin VM. [The use of reaferon in the combined therapy of patients with hemorrhagic fever with renal syndrome]. *Voen Med Zh* 1992 Dec;(12):46-7. (Rus).
- Ivanov KS, Roshchupkin VI, Kosil OI, Morozov VG, Utkin VN. [Reaferon in the treatment of hemorrhagic fever with the renal syndrome]. *Antibiot Khimioter* 1994 Jan;39(1): 42-6. (Rus).
- Ivanov LI, Tkachenko EA, Zdanovskaya NI, Dzagurova TK, Kovalskii AG, Reznik VI. [Clinico-immunological characteristics of hemorrhagic fever with renal syndrome in Khabarovsk territory]. *Vopr Virusol* 1990 Jan-Feb; 35(1):74-6. (Rus).
- Iversson LB, da Rosa AP, Rosa MD, Lomar AV, Sasaki M da G, LeDuc JW. [Human infection by hantavirus in southern and southeastern Brazil]. *Rev Assoc Med Bras* 1994 Apr-Jun;40(2):85-92. (Por).
- Jenison S, Hjelle B, Koster F, Foucar K. Clinical and laboratory diagnosis of hantavirus pulmonary

- syndrome [abstract]. Program Abstr Intersci Conf Antimicrob Agents Chemother 1994;34:284. 34th Interscience Conference on Antimicrobial Agents and Chemotherapy; 1994 Oct 4-7; Orlando, FL.
- Jenison S, Yamada T, Morris C, Anderson B, Torrez-Martinez N, Keller N, Hjelle B. Characterization of human antibody responses to Four Corners hantavirus infections among patients with hantavirus pulmonary syndrome. *J Virol* 1994 May;68(5):3000-6.
- Jia F. [Studies on the effects of rhTNF-alpha anti-replication against EHFV and HAV in vitro]. Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao 1992 Apr;14(2):143-6. (Chi).
- Johnson KM. Ribavirin treatment of arenavirus, hantavirus, pneumo-virus and paramyxovirus disease topical and systemic therapy. In: Mills J, Corey L, editors. *Antiviral chemotherapy*. Proceedings of the 3rd Triennial Conference on Antiviral Chemotherapy; 1991 Nov; San Francisco. Englewood Cliffs (NJ): Prentice-Hall; 1993. p. 229-49.
- Johnson T. Rodent-borne virus is a killer, but control lags. *Pest Control* 1993;61(8):24-7.
- Jordans JG, Groen J, Clement J, Lefevre A, Haraldsdottir V, Osterhaus AD. [Hantaan virus infection in Twente]. *Ned Tijdschr Geneeskd* 1991 May 4;135(18):796-8. (Dut).
- Jordans JG, Groen J, Clement J, Lefevre A, Osterhaus AD. [Hantaan virus infection, a seldom recognized cause of acute kidney insufficiency]. *Ned Tijdschr Geneeskd* 1991 May 4;135(18):791-3. (Dut).
- Kallio-Kokko H, Vapalahti O, Hedman K, Brummer-Korvenkontio M, Vaheri A. Puumala virus antibody and immunoglobulin G avidity assays based on a recombinant nucleocapsid antigen. *J Clin Microbiol* 1993 Mar;31(3): 677-80.
- Kamrud KI, Schmaljohn CS. Expression strategy of the M genome segment of Hantaan virus. *Virus Res* 1994 Jan; 31(1):109-21.
- Kang ET, Kwak KC, Oh DJ, Lee JS, Chung SI, Choi CS, Yu SH. Transendothelial migration of mononuclear cells in hemorrhagic fever with renal syndrome (HFRS) [abstract]. *J Am Soc Nephrol* 1993;4(3):738. 26th Annual Meeting of the American Society of Nephrology; 1993 Nov 14-17; Boston.
- Kang SK, Ha CY, Cho KH, Park SK, Kim UH. Changes of lactate dehydrogenase and its isoenzyme activity in renal diseases. *Nephron* 1991;57(1):55-9.
- Kang Y, Wang WY, Zhao WQ. [Kinetic observation on BRC immune function of patients with epidemic hemorrhagic fever]. *Chung Hua Nei Ko Tsa Chih* 1991 Jun;30(6): 357-9, 383. (Chi).
- Kapetanovic B, Ridanovic Z, Petrovic O, Arslanagic A. [ECG in patients with hemorrhagic fever]. *Med Arh* 1992;46(3-4):63-5. (Scr).
- Kariwa H, Arikawa J, Takashima I, Hashimoto N. Development and application of protein G antibody assay for the detection of antibody to hantavirus. *J Virol Methods* 1992 Jun;37(3):345-54.
- Kariwa H, Arikawa J, Takashima I, Isegawa Y, Yamanishi K, Hashimoto N. Enhancement of infectivity of hantavirus in cell culture by centrifugation. *J Virol Methods* 1994 Sep;49(2):235-44.
- Kariwa H, Isegawa Y, Arikawa J, Takashima I, Ueda S, Yamanishi K, Hashimoto N. Comparison of nucleotide sequences of M genome segments among Seoul virus strains isolated from eastern Asia. *Virus Res* 1994 Jul; 33(1):27-38.
- Kariwa H, Kamimura M, Arikawa J, Yoshimatsu K, Takashima I, Hashimoto N. Characterization of the mode of Hantaan virus infection in adult mice using a nested reverse transcriptase polymerase chain reaction: transient virus replication in adult mice. *Microbiol Immunol* 1995; 39(1):35-41.
- Kauppila M, Kotilainen P, Lahdevirta J, Svartback CM, Kosunen O, Nurminen J, Sarkkinen H, Salonen EM, Brummer-Korvenkontio M. [First serologically confirmed deaths due to nephropathia epidemica]. *Duodecim* 1990; 106(15):1103-6. (Fin).
- Kawamura K, Zhang XK, Arikawa J, Takashima I, Dempo K, Hashimoto N. Susceptibility of laboratory and wild rodents to Rattus or Apodemus-type hantaviruses. *Acta Virol* 1991 Jan;35(1):54-63.
- Kerouani G, Binet P, Coudrier D, Lallement PY, Perez C, Rollin PE. [Seroprevalence of hemorrhagic fever with renal syndrome in foresters of Ile-de-France (letter)]. *Presse Med* 1992 Oct 17;21(34):1636. (Fre).
- Ketai LH, Williamson MR, Telepak RJ, Levy H, Koster FT, Nolte KB, Allen SE. Hantavirus pulmonary syndrome: radiographic findings in 16 patients. *Radiology* 1994 Jun; 191(3):665-8.
- Khabbaz RF, Ksiazek TG, Caiaffa WT, Rollin PE, Taylor E, Vlahov D. Seoul hantavirus seropositivity among injecting drug users in Baltimore [letter]. *J Infect Dis* 1994 Dec;170(6):1636-7.
- Khabbaz RF, The Task Force (USA). Epidemiology of hantavirus pulmonary syndrome [abstract]. Program Abstr Intersci Conf Antimicrob Agents Chemother 1994;34:284. 34th Interscience Conference on Antimicrobial Agents and Chemotherapy; 1994 Oct 4-6; Orlando, FL.
- Khan AS, Gaviri AM, Rollin PE, Hlady WG, Ksiazek TG, Armstrong LR, Greenman R, Raykov E, Kolber M, Anapol H, Sfakianaki ED, Nichol ST,

- Peters CJ, Khabbaz RF. Hantavirus pulmonary syndrome in Florida: association with the newly identified Black Creek Canal virus. *Am J Med* 1996 Jan;100(1):46-8.
- Khan AS, Ksiazek TG, Zaki SR, Nichol ST, Rollin PE, Peters CJ, Khabbaz RF, Cheek JE, Shireley LA, McDonough SL, et al. Fatal hantavirus pulmonary syndrome in an adolescent. *Pediatrics* 1995 Feb; 95(2):276-80.
- Khan AS, Spiropoulou CF, Morzunov S, Zaki SR, Kohn MA, Nawas SR, McFarland L, Nichol ST. Fatal illness associated with a new hantavirus in Louisiana. *J Med Virol* 1995;46(3):281-6.
- Kim EC, Kim IS, Choi Y, Kim SG, Lee JS. Rapid differentiation between Hantaan and Seoul viruses by polymerase chain reaction and restriction enzyme analysis. *J Med Virol* 1994 Jul;43(3):245-8.
- Kim GH, Kim Y, Ahn C, Han JS, Kim S, Lee JS. Renal tubular functions in the convalescent phase of Korean hemorrhagic fever HF [abstract]. *J Am Soc Nephrol* 1992;3(3):313. 25th Annual Meeting of the American Society of Nephrology; 1992 Mar 15-18.
- Kim GR, Lee YT, Park CH. A new natural reservoir of hantavirus: isolation of hantaviruses from lung tissues of bats. *Arch Virol* 1994;134(1-2):85-95.
- Kim S, Kang ET, Kim YG, Han JS, Lee JS, Kim YI, Hall WC, Dalrymple JM, Peters CJ. Localization of Hantaan viral envelope glycoproteins by monoclonal antibodies in renal tissues from patients with Korean hemorrhagic fever H. *Am J Clin Pathol* 1993 Oct;100(4):398-403.
- Kim SD, Kim GR. [Identification of serotype of hantavirus CUMC-88H isolated from patients with hemorrhagic fever with renal syndrome]. *J Cathol Med Coll* 1993; 46(2):487-97. (Kor).
- Kim SH, Kim S, Lee JS, Choi BI, Kim YG, Han JS, Park JH, Han MC, Kim CW. Hemorrhagic fever with renal syndrome: MR imaging of the kidney. *Radiology* 1990 Jun;175(3):823-5.
- Kim YS, Ahn C, Han JS, Kim S, Lee JS. Hemorrhagic fever with renal syndrome (HFRS) caused by the Seoul virus [abstract]. *J Am Soc Nephrol* 1994;5(3):397. 27th Annual Meeting of the American Society of Nephrology; 1994 Oct 26-29; Orlando, FL.
- Klebanov IuA. [Analysis of fatal outcome in hemorrhagic fever with renal syndrome]. *Klin Med (Mosk)* 1990 Dec; 68(12):64-7. (Rus).
- Kleinknecht D, Rollin PE. Hypertension after hemorrhagic fever with renal syndrome [letter]. *Nephron* 1992;61(1): 121.
- Ko KW. Haemorrhagic fever with renal syndrome: clinical aspects. *Pediatr Nephrol* 1992 Mar;6(2):197-200.
- Kobayashi K, Itakura C, Arikawa J, Hashimoto N. Renal lesions in rats infected with Rattus serotype hantavirus (SR-11 strain). *Zentralbl Veterinarmed [B]* 1991 Nov; 38(9):657-64.
- Kobzik J, Danes L. [Laboratory-confirmed cases of hemorrhagic fever with renal syndrome which occurred in Breclav 1989-1990]. *Cesk Epidemiol Mikrobiol Imunol* 1992 Jun;41(2):65-8. (Cze).
- Koneva OA, Shapiro IA. [Evaluation of cellular immunity in convalescents after hemorrhagic fever with renal syndrome]. *Sov Med* 1991; (11):77-80. (Rus).
- Kontkanen M, Puustjarvi T, Lahdevirta J. Myopic shift and its mechanism in nephropathia epidemica or Puumala virus infection. *Br J Ophthalmol* 1994 Dec;78(12):903-6.
- Koster F, Levy H, Mertz G, Young S, Foucar K, McLaughlin J, Bryt B, Merlin T, Zumwalt R, et al. Outbreak of acute illness Southwestern United States 1993. *MMWR Morb Mortal Wkly Rep* 1993;42(22): 421-4.
- Kovalskii GS, Voino-Iasenetskii AM, Kovalskaia TV, Petrichko MI. [Clinical aspects and treatment of emergency states in hemorrhagic fever with renal syndrome]. *Klin Med (Mosk)* 1990 Mar;68(3):138-44. (Rus).
- Kovalskii IuG, Makarevich NI, Piotrovich AK. [The pathogenesis of the renal syndrome in hemorrhagic fever]. *Urol Nefrol (Mosk)* 1992 Jan-Feb;(1-3):35-6. (Rus).
- Krakauer T, Leduc JW, Morrill JC, Anderson AO, Krakauer H. Serum levels of alpha and gamma interferons in hemorrhagic fever with renal syndrome. *Viral Immunol* 1994;7(2):97-101.
- Kravitz JD. Control of hantavirus in the west [letter]. *JAMA* 1995 Mar 22-29;273(12):919-20.
- Ksiazek TG, Peters CJ, Rollin PE, Zaki S, Nichol S, Spiropoulou C, Morzunov S, Feldmann H, Sanchez A, Khan AS, et al. Identification of a new North American hantavirus that causes acute pulmonary insufficiency. *Am J Trop Med Hyg* 1995 Feb;52(2):117-23.
- Kulzer P, Heidland A. [Acute kidney failure caused by hantaviruses]. *Ther Umsch* 1994 Dec;51(12):824-31. (Ger).
- Kulzer P, Schaefer RM, Heidbreder E, Heidland A. Haemorrhagic fever with renal syndrome, 1993: endemic or unrecognised pandemic? [letter]. Comment in: *Lancet* 1993 Jul 31; 342(8866):313; *Lancet* 1993 Aug 21; 342(8869):495; *Lancet* 1994 Jan 8;343(8889):114; *Lancet* 1994 Jan 8; 343(8889):114-5.
- Kulzer P, Schaefer RM, Heidbreder E, Heidland A. [Hantavirus infection with acute kidney failure].

- Dtsch Med Wochenschr 1992 Sep 18;117(38):1429-33. (Ger).
- Kulzer P, Schaefer RM, Heidbreder E, Heidland A. Retrospective diagnosis of small epidemic of haemorrhagic fever with renal syndrome [letter]. Lancet 1992 Apr 11;339(8798):940-1.
- Kulzer P, Schaefer RM, Heidland A. [Hantavirus infections 1993: endemic or unrecognized pandemic?]. Dtsch Med Wochenschr 1993 Oct 22;118(42):1546. (Ger).
- Kushnareva TV, Slonova RA, Astakhova TI. [Detection of hemagglutinins in hantavirus serotypes and some of their properties]. Vopr Virusol 1995 Mar-Apr;40(2):53-6. (Rus).
- Laboratory management of agents associated with hantavirus pulmonary syndrome: interim biosafety guidelines. Centers for Disease Control and Prevention. MMWR Morb Mortal Wkly Rep 1994 May 13;43(RR-7):1-7.
- Lahdevirta J. [Serious nephropathia epidemica as a therapeutic problem and as a cause of death (editorial)]. Duodecim 1990;106(15):1084-6. (Fin).
- Laine D. Hantavirus. J Am Acad Nurse Pract 1994 Apr; 6(4):184-5.
- Lautala P, Uhari M. Epidemic nephropathy in children. Am J Dis Child 1991 Oct;145(10):1181-3.
- Le Guenno B. Identifying a hantavirus associated with acute respiratory illness: a PCR victory? Lancet 1993 Dec 11; 342(8885):1438-9.
- Le Guenno B, Camprasse MA, Guilbaut JC, Lanoux P, Hoen B. Hantavirus epidemic in Europe, 1993 [letter]. Lancet 1994 Jan 8;343(8889):114-5. Comment on: Lancet 1993 Jul 31;342(8866):313; Lancet 1993 Aug 21;342(8869): 495; Lancet 1994 Apr 23;343(8904):1038.
- LeDuc JW, Childs JE, Glass GE. The hantaviruses, etiologic agents of hemorrhagic fever with renal syndrome: a possible cause of hypertension and chronic renal disease in the United States. Annu Rev Public Health 1992;13: 79-98.
- Leduc JW, Childs JE, Glass GE, Watson AJ. Hantaan (Korean hemorrhagic fever) and related rodent zoonoses. In: Morse SS, editor. Emerging viruses. Oxford: Oxford University Press; 1993. p. 149-58.
- LeDuc JW, Ksiazek TG, Rossi CA, Dalrymple JM. A retrospective analysis of sera collected by the Hemorrhagic Fever Commission during the Korean Conflict. J Infect Dis 1990 Nov;162(5):1182-4.
- Lee JH, Chung SI, Kang ET, Choi CS, Yang YT. [Growth of Hantaan virus strain 76-118 in suckling mouse kidney cell culture]. Chung Ang Ui Dai Chi 1992;17(1):63-72. (Kor).
- Lee JS. Clinical features of hemorrhagic fever with renal syndrome in Korea. Kidney Int Suppl 1991 Dec;35: S88-93.
- Lee MC, Lee DS, Chung JK, Lee JS, Koh CS. Scintigraphic measurement of the changes of pulmonary vasculature in Korean hemorrhagic fever [abstract]. Eur J Nucl Med 1991;18(8):631. European Association of Nuclear Medicine Congress; 1991 Sep 1-5; Vienna.
- Lee PW, Jeong DH, Song SW. [Detection and serotypic differentiation of hantaviruses using reverse transcriptase-polymerase chain reaction (RT-PCR)]. Taehan Misaengmul Hakhoe Chi 1994;29(1):79-88. (Kor).
- Ler Z, Gligic A, Celik S, Obradovic M. [Epidemiologic characteristics of hemorrhagic fever with renal syndrome in a disease reservoir near Foca]. Vojnosanit Pregl 1990 Sep-Oct;47(5):326-8. (Scr).
- Ler Z, Obradovic M, Gligic A. [Hemorrhagic fever with renal syndrome--etiology]. Med Arh 1991;45(1-2):55-8. (Scr).
- Leschinskaya EV, Tkachenko EA, Dzagurova TK, Drozdov SG. Acute haemorrhagic fever with renal syndrome (HFRS) in Austria [letter]. Acta Virol 1991 May;35(3): 303.
- Leshchinskaja EV, Tkachenko EA, Ryltseva EV, Petrov VA, Ianovskii SM, Gasanova TA, Bystrovskii VF, Mogila TV, Kovalskii GS, Priven VZ, et al. [Characteristics of endemic foci of hemorrhagic fever with renal syndrome in various regions of the USSR]. Vopr Virusol 1990 Jan-Feb;35(1):42-5. (Rus).
- Levins R, Epstein PR, Wilson ME, Morse SS, Slooff R, Eckardt I. Hantavirus disease emerging [news]. Lancet 1993 Nov 20;342(8882):1292.
- Levy H. Clinical course, management and pathology of hantavirus pulmonary syndrome [abstract]. Program Abstr Intersci Conf Antimicrob Agents Chemother 1994;34:285. 34th Interscience Conference on Antimicrobial Agents and Chemotherapy; 1994 Oct 4-7; Orlando, FL.
- Levy H, Simpson SQ. Hantavirus pulmonary syndrome. Am J Respir Crit Care Med 1994 Jun;149(6):1710-3.
- Lewis RM, Lee HW, See AF, Parrish DB, Moon JS, Kim DJ, Cosgriff TM. Changes in populations of immune effector cells during the course of haemorrhagic fever with renal syndrome. Trans R Soc Trop Med Hyg 1991 Mar-Apr;85(2):282-6.
- Li CJ, Lin Q, Wang ML. [Production of idiotypic antibody against EHFV and immunoreaction of anti-EHFV induced by the idiotypic antibody in mouse]. Virol Sin 1991;6(4): 309-14. (Chi).

- Li D, Schmaljohn AL, Anderson K, Schmaljohn CS. Complete nucleotide sequences of the M and S segments of two hantavirus isolates from California: evidence for reassortment in nature among viruses related to hantavirus pulmonary syndrome. *Virology* 1995 Feb 1; 206(2):973-83.
- Li DL, Sun CS, Li B, Ren YN, Li LS. [Case-control study on cat as a risk factor of hemorrhagic fever with renal syndrome]. *Ti 4 Chun I Ta Hsueh Hsueh Pao* 1990;11(5): 372-4. (Chi).
- Li G, Fang L, Ni DS, Wang GD, Yue JS. [Detection of HFRSV-AG and isolation of HFRSV from CSF of the patients with brain-type HFRS]. *Chung Hua Min Kuo Wei Sheng Wu Chi Mien I Hsueh Tsa Chih* 1990;10(4): 256-9, 270. (Chi).
- Li Y, Xu Z, Ye K. [Detection of epidemic hemorrhagic fever antibodies by indirect ELISA]. *Acta Acad Med Shanghai* 1992;19(3):196-200. (Chi).
- Li YL. [Cohort study of seroepidemiology on hemorrhagic fever with renal syndrome]. *Chung Hua Yu Fang I Hsueh Tsa Chih* 1991 Nov;25(6):329-31. (Chi).
- Li YL, Ruo SL, Tong Z, Ma QR, Liu ZL, Ye KL, Zhu ZY, McCormick JB, Fisher-Hoch SP, Xu ZY. A serotypic study of hemorrhagic fever with renal syndrome in rural China. *Am J Trop Med Hyg* 1995 Mar;52(3):247-51.
- Liang M, Chu YK, Schmaljohn C. Bacterial expression of neutralizing mouse monoclonal antibody Fab fragments to Hantaan virus. *Virology* 1996 Mar 1;217(1):262-71.
- Liang M, Li D, Xiao SY, Hang C, Rossi CA, Schmaljohn CS. Antigenic and molecular characterization of hantavirus isolates from China. *Virus Res* 1994 Feb; 31(2):219-33.
- Lim CS, Yang WS, Kim YS, Jung YC, Ahn C, Han JS, Kim S, Lee JS. Detection of Hantaan viral antigens in renal tissues from a patient with Korean hemorrhagic fever in convalescent phase. *Seoul J Med* 1993;34(3):229-35.
- Lin S. [Endothelin and acute renal failure: study on their relation and possible mechanisms]. *Chung Hua I Hsueh Tsa Chih (Taipei)* 1992 Apr;72(4):201-5, 253-4. (Chi).
- Linderholm M, Ahlm C, Settergren B, Waage A, Tarnvik A. Elevated plasma levels of tumor necrosis factor (TNF)-alpha, soluble TNF receptors, interleukin (IL)-6, and IL-10 in patients with hemorrhagic fever with renal syndrome. *J Infect Dis* 1996 Jan;173(1):38-43.
- Linderholm M, Billstrom A, Settergren B, Tarnvik A. Pulmonary involvement in nephropathia epidemica as demonstrated by computed tomography. *Infection* 1992 Sep-Oct;20(5):263-6.
- Linderholm M, Bjermer L, Juto P, Roos G, Sandstrom T, Settergren B, Tarnvik A. Local host response in the lower respiratory tract in nephropathia epidemica. *Scand J Infect Dis* 1993;25(5):639-46.
- Linderholm M, Settergren B, Ahlm C, Burman LA, Traff S, Backlund U, Juto P. A Swedish fatal case of nephropathia epidemica. *Scand J Infect Dis* 1991;23(4):501-2.
- Liu B, Dai J, Wang X, Wang X, Shen G. [Propagation of the HTV in primary human embryonic kidney and lung cell culture]. *Wei Sheng Wu Hsueh Pao* 1994 Aug;34(4): 328-31. (Chi).
- Liu JB. [Changes in hypothalamus-pituitary-adrenal (HPA) axis and the deficiency-excess syndrome differentiation on epidemic hemorrhagic fever patients]. *Chung Kuo Chung Hsi I Chieh Ho Tsa Chih* 1993 Apr;13(4):217-9, 197. (Chi).
- Liu JB, Liu JX, Jin SL. [Traditional Chinese medicine combined with Western medicine in the treatment of severe renal failure in patients with epidemic hemorrhagic fever]. *Chung Hsi I Chieh Ho Tsa Chih* 1991 Aug;11(8): 475-6, 453. (Chi).
- Liu YF. [Distribution of extracellular viral antigen of epidemic hemorrhagic fever in human autopsy cases]. *Chung Hua I Hsueh Tsa Chih* 1993 Jun;73(6):341-2, 380. (Chi).
- Liu YF, Li CX, Yan PS. Primary and secondary changes in the brains of suckling Balb/c mice with experimental hemorrhagic fever. *Chin Med J (Engl)* 1992 Nov; 105(11):909-12.
- Liu YF, Wang CJ, Yan PS. [Preparation of bio-cDNA probe of domestic type hemorrhagic fever virus and its use in hybridization in situ]. *Ti 4 Chun I Ta Hsueh Hsueh Pao* 1990;11(5):397. (Chi).
- Liu YF, Yang SJ, Yan PS, Liu YY. Characteristics of immunocomplex in autopsy tissues of hemorrhagic fever with renal syndrome. *Chin Med J (Engl)* 1994 Jun; 107(6):444-9.
- Liu YF, Yang SJ, Yan PS, Wang CJ. [Detection in-situ and partial diffusion of epidemic hemorrhagic fever viral antigen in cells]. *Virol Sin* 1991;6(2):107-12. (Chi).
- Liu Z, Li Y, Tong Z, Ma Q, Xu Z, Ye K, Tang Y. [Case control study on risk factors of epidemic hemorrhagic fever]. *Acta Acad Med Shanghai* 1992;19(5):370-4. (Chi).
- Liu Z, Zhang C, Li X, et al. [Sequential determinations of serum specific IGG antibodies of patients with epidemic hemorrhagic fever and their relationship to illness types]. *Hsi An I Ko Ta Hsueh Hsueh Pao* 1992;13(3):259-62. (Chi).
- Lloyd G. Aetiology of hantavirus infections. *Antivir Chem Chemother* 1990;1(4):227-31.

- Lombardi M, Dattolo P, Bartolozzi D, Leoncini F, Salvadori M, Nicoletti L. Outcome of the haemorrhagic fever with renal syndrome in four Italian cases with a mean follow up of 7 years [letter]. *Nephrol Dial Transplant* 1994;9(4): 458-9.
- Lu JY, Yu YX, Zhao ZK. [A study on virus localization and microcirculation in the liver in patients with epidemic hemorrhagic fever]. *Chung Hua Nei Ko Tsa Chih* 1992 Feb;31(2):95-7, 126. (Chi).
- Lu M, Liu S, Yang J, Zeng Q, Peng L, Zhu X. [Observation on the ultrastructure of leucocytes and platelets in a severe type of epidemic hemorrhagic fever EHF]. *Hunan Yike Daxue Xuebao* 1993;18(2):155-8. (Chi).
- Lukac V, Dokic M, Rakovic-Savcic L, Diglisic G, Gligic A, Drndarevic D, Obradovic M. [Epidemiologic characteristics of hemorrhagic fever with renal syndrome in a military population]. *Vojnosanit Pregl* 1992 May-Jun; 49(3):201-5. (Scr).
- Lukac V, Obradovic M, Gligic A, Stojanovic R, Rakovic-Savcic L, Diglisic G, Drndarevic D, Dordevic D. [Hemorrhagic fever with renal syndrome in Yugoslavia 1951-1988]. *Vojnosanit Pregl* 1990 Jul-Aug; 47(4):242-8. (Scr).
- Lukashevich IS, Tkachenko EA, Lemeshko NN, Rezapkin GV, Stelmakh TA, Pashkov Ala, Vladkyo AS, Dzagurova TK, Shkolina TV, Scheslenok EP. [Virus-specific proteins and RNA of the virus of hemorrhagic fever with renal syndrome]. *Vopr Virusol* 1990 Jan-Feb;35(1):38-42. (Rus).
- Lundkvist A, BJORSTEN S, Niklasson B. Immunoglobulin G subclass responses against the structural components of Puumala virus. *J Clin Microbiol* 1993 Feb;31(2):368-72.
- Lundkvist A, BJORSTEN S, Niklasson B, Ahlborg N. Mapping of B-cell determinants in the nucleocapsid protein of Puumala virus: definition of epitopes specific for acute immunoglobulin G recognition in humans. *Clin Diagn Lab Immunol* 1995 Jan;2(1):82-6.
- Lundkvist A, Fatouros A, Niklasson B. Antigenic variation of European haemorrhagic fever with renal syndrome virus strains characterized using bank vole monoclonal antibodies. *J Gen Virol* 1991 Sep;72(Pt 9):2097-103.
- Lundkvist A, Horling J, Athlin L, Rosen A, Niklasson B. Neutralizing human monoclonal antibodies against Puumala virus, causative agent of nephropathia epidemica: a novel method using antigen-coated magnetic beads for specific B cell isolation. *J Gen Virol* 1993 Jul;74(Pt 7):1303-10.
- Lundkvist A, Horling J, BJORSTEN S, Niklasson B. Sensitive detection of hantaviruses by biotin-streptavidin enhanced immunoassays based on bank vole monoclonal antibodies. *J Virol Methods* 1995 Mar;52(1-2):75-86.
- Lundkvist A, Kallio-Kokko H, Sjolander KB, Lankinen H, Niklasson B, Vaheri A, Vapalahti O. Characterization of Puumala virus nucleocapsid protein: identification of B-cell epitopes and domains involved in protective immunity. *Virology* 1996 Feb 15;216(2):397-406.
- Lundkvist A, Niklasson B. Bank vole monoclonal antibodies against Puumala virus envelope glycoproteins: identification of epitopes involved in neutralization. *Arch Virol* 1992;126(1-4):93-105.
- Lundkvist A, Scholander C, Niklasson B. Anti-idiotypic antibodies against Puumala virus glycoprotein-specific monoclonal antibodies inhibit virus infection in cell cultures. *Arch Virol* 1993;132(3-4):255-65.
- Luo DD, Zeng LL, Guo JS. [Study of cytopathogenic effect of epidemic hemorrhagic fever virus on normal human bone marrow cells]. *Chung Hua Nei Ko Tsa Chih* 1993 Jan;32(1):46-8. (Chi).
- Lyubsky S, Gavrilovskaya I, Luft B, Mackow E. Histopathology of *Peromyscus leucopus* naturally infected with pathogenic NY-1 hantaviruses: pathologic markers of HPS viral infection in mice. *Lab Invest* 1996 Mar; 74(3):627-33.
- Mackow ER, Luft BJ, Bosler E, Goldgaber D. More on hantavirus in New England and New York [letter]. *N Engl J Med* 1995 Feb 2;332(5):337-8.
- Malinina GA, Riabov VI, Malinin OV. [The functional activity of neutrophilic granulocytes in hemorrhagic fever with renal syndrome]. *Zh Mikrobiol Epidemiol Immunobiol* 1994 Jan-Feb; (1):100-3. (Rus).
- Markotic A, Sarcevic A, Hlaca D. [Early diagnosis of hemorrhagic fever with renal syndrome during war]. *Med Arh* 1994;48(3):109-11. (Scr).
- Markotic A, Sarcevic A, Hlaca D, IgM ELISA: Method of choice for rapid diagnostic of the hemorrhagic fever with renal syndrome (HFRS) [abstract]. *Period Biol* 1994; 96(3):269. 2nd Alps-Adria Immunology and Allergology Meeting: Mechanisms in Local Immunity; 1994 Sep 26-28; Opatija, Croatia.
- Marshall E. Hantavirus outbreak yields to PCR [news]. *Science* 1993 Nov 5;262(5135):832, 834-6. Comment on: *Science* 1993 Nov 5;262(5135):850-1; *Science* 1993 Nov 5;262(5135):914-7.
- Marshall E, Stone R. Race to grow hantavirus ends in tie [news]. *Science* 1993 Dec 3;262(5139):1509.
- Marshall RC, Rhodes CB. Korean hemorrhagic fever: environmental health and medical surveillance measures. *Mil Med* 1990

Dec;155(12):607-10.

Marunich NA, Gavrilovskaya IN, Gorbachkova EA, Apekina NS, Figurnov VA, Iakunin KF, Burlakova NG, Lopatin AI. [Cases of hemorrhagic fever with renal syndrome in Amur Province associated with the rat serotype of the virus]. Zh Mikrobiol Epidemiol Immunobiol 1990 Mar; (3):48-52. (Rus).

McClain DJ. Prospects for prevention and therapy [abstract]. Program Abstr Intersci Conf Antimicrob Agents Chemother 1994;34:285. 34th Interscience Conference on Antimicrobial Agents and Chemotherapy; 1994 Oct 4-7; Orlando, FL.

McKenna P, Clement J, Matthys P, Coyle PV, McCaughey C. Serological evidence of hantavirus disease in Northern Ireland. J Med Virol 1994 May;43(1):33-8.

McKenna P, van der Groen G, Hoofd G, Beelaert G, Leirs H, Verhagen R, Kints JP, Cormont F, Nisol F, Bazin H. Eradication of hantavirus infection among laboratory rats by application of caesarian section and a foster mother technique. J Infect 1992 Sep;25(2):181-90.

Meng X. [Study on the serological typing of patients with epidemic hemorrhagic fever (EHF) and host animals in Junan County, Shangdong Province]. Chung Hua Liu Hsing Ping Hsueh Tsa Chih 1992 Apr;13(2):72-5. (Chi).

Mettang T, Weber J, Kuhlmann U. [Acute kidney failure caused by hantavirus infection]. Dtsch Med Wochenschr 1991 Dec 13;116(50):1903-6. (Ger).

Mi L, et al. [Induction of neutralizing antibodies against HFRSV in animal by human monoclonal anti- idiotypic antibodies]. Chung Hua Wei Sheng Wu Hsueh Ho Mien I Hsueh Tsa Chih 1993;13(1):13-6. (Chi).

Mi L, Jin B, Cui Y, Gao L, Xu Z. Human monoclonal anti-idiotypic antibodies bearing the internal image of hemorrhagic fever with renal syndrome virus antigen. Hum Antib Hybrid 1994;5(3-4):187-90.

Miasnikov IuA. [Hemorrhagic fever with renal syndrome]. Feldsher Akush 1990 Jan;55(1):35-40. (Rus).

Miasnikov IuA, Apekina NS, Zuevskii AP, Khitrin AV, Bernshtein AD. [The disposition of natural foci of hemorrhagic fever with renal syndrome in different landscape areas of Tyumen Province]. Vopr Virusol 1992 May-Jun;37(3):161-5. (Rus).

Miasnikov IuA, Tkachenko EA, Stepanenko AG, Nurgaleeva RG, Kireev SG, Malkin AE. [The intensity of the immune response to the hemorrhagic fever with renal syndrome virus among different population groups of Bashkortostan]. Zh Mikrobiol Epidemiol

Immunobiol 1992 Feb;(2):47-50. (Rus).

Michel A, Grandjean P, Ruscher H. [A case of hemorrhagic fever with renal syndrome]. J Med Strasb 1992;23(6): 307-8. (Fre).

Mikhailenko AG, Tkachenko EA, Smirnov Ila, Malkin AE, Chebotar IF. [Results of serologic screening for hemorrhagic fever with kidney syndrome in Moldova]. Vopr Virusol 1994 Nov-Dec;39(6):260-2. (Rus).

Mills JN, Ksiazek TG, Childs JE, Rollin PE, Krebs JW, Nichol ST, Peters CJ. Rodents and hantaviruses: New findings from the Americas and their disease implications [abstract]. Program Abstr Intersci Conf Antimicrob Agents Chemother 1994;34:284. 34th Interscience Conference on Antimicrobial Agents and Chemotherapy; 1994 Oct 4-7; Orlando, FL.

Moll M. Recognizing hantavirus pulmonary syndrome. Pa Med 1994 Feb;97(2):40.

Monath TP. Ribavirin, interferon, and antibody approaches to prophylaxis and therapy for viral hemorrhagic fevers. Curr Opin Infect Dis 1990;3(6):824-33.

Moolenaar RL, Dalton C, Lipman HB, Gallaher MM, Rollin PE, Ksiazek TG, Nichol ST, Duchin JS, Peters CJ, Breiman RF. Clinical features distinctive of hantavirus pulmonary syndrome [abstract]. Program Abstr Intersci Conf Antimicrob Agents Chemother 1994;34:243. 34th Interscience Conference on Antimicrobial Agents and Chemotherapy; 1994 Oct 4-7; Orlando, FL.

Mori F, Kobayashi K, Itakura C, Arikawa J, Hashimoto N. Pathological studies on central nervous tissues of rats infected with Rattus serotype hantavirus (SR-11 strain). Zentralbl Veterinarmed [B] 1991 Nov;38(9):665-72.

Morita C, Inoue S, Ami Y, Sugiyama K, Kitamura T. Different transmissibility of 2 isolates of Seoul virus from the same wild brown rat (Rattus norvegicus). J Vet Med Sci 1994 Jun;56(3):549-50.

Morita C, Morikawa S, Sugiyama K, Komatsu T, Ueno H, Kitamura T. Inability of a strain of Seoul virus to transmit itself vertically in rats. Jpn J Med Sci Biol 1993 Oct-Dec; 46(5-6):215-9.

Morris W, Fainstat M, Robinson T, Hoo R. Hemorrhagic fever with renal syndrome in California. West J Med 1994 Oct;161(4):418-21.

Morrison YY, Rathbun RC. Hantavirus pulmonary syndrome: the Four Corners disease. Ann Pharmacother 1995 Jan;29(1):57-65.

Morrone A, Eschard JP, Pennaforte JL, Zeitoun P, Etienne JC. [Acute febrile backache revealing hemorrhagic fever with renal syndrome (letter)]. Rev Rhum Mal Osteoartic 1992 Mar;59(3):233-4. (Fre).

- Morse SS. Hantaviruses and the hantavirus outbreak in the United States. A case study in disease emergence. *Ann N Y Acad Sci* 1994 Dec 15;740:199-207.
- Morzunov SP, Feldmann H, Spiropoulou CF, Semenova VA, Rollin PE, Ksiazek TG, Peters CJ, Nichol ST. A newly recognized virus associated with a fatal case of hantavirus pulmonary syndrome in Louisiana. *J Virol* 1995 Mar; 69(3):1980-3.
- Moteiunas LI, Spurga SV, Tkachenko EA, Miasnikov IuA, Tatianchenko LA. [Hemorrhagic fever with renal syndrome in Lithuania]. *Vopr Virusol* 1990 Jan-Feb; 35(1):72-4. (Rus).
- Moulin B, Olmer M, Simonetti SD, Ferrero A, Paix MA, Rollin PE, Sureau P. [A case of imported hemorrhagic fever with renal syndrome (letter)]. *Presse Med* 1991 Dec 7;20(42):2162. (Fre).
- Muradov MK, Shamsiev DA, Muradov AM. [The efficacy of the use of surgical methods of detoxication in parturients with the hemorrhagic syndrome complicated by acute renal insufficiency]. *Anesteziol Reanimatol* 1993 Sep-Oct; (5):53-7. (Rus).
- Mustonen J, Brummer-Korvenkontio M, Hedman K, Pasternack A, Pietila K, Vaheri A. Nephropathia epidemica in Finland: a retrospective study of 126 cases. *Scand J Infect Dis* 1994;26(1):7-13.
- Mustonen J, Helin H, Pietila K, Brummer-Korvenkontio M, Hedman K, Vaheri A, Pasternack A. Renal biopsy findings and clinicopathologic correlations in nephropathia epidemica. *Clin Nephrol* 1994 Mar;41(3): 121-6.
- Mustonen J, Huttunen NP, Brummer-Korvenkontio M, Vaheri A. Clinical picture of nephropathia epidemica in children. *Acta Paediatr* 1994 May;83(5):526-9.
- Mustonen J, Pietila K, Pasternack A, Helin H, Brummer-Korvenkontio M, Hedman K, Vaheri A. Clinicopathological correlations in acute tubulointerstitial nephritis caused by nephropathia epidemica [abstract]. *Nephrol Dial Transplant* 1992;7(7):703-4. 29th Annual Congress of the European Dialysis and Transplant Association- European Renal Association; 1992 Jun 28- Jul 1; Paris.
- Mustonen J, Saha H, Pasternack A, Brummer-Korvenkontio M. Nephropathia epidemica in a patient with renal transplant [letter]. *Clin Nephrol* 1991 May;35(5):233. Comment on: *Clin Nephrol* 1990 Jun;33(6):264-8.
- Neild G. Mysterious respiratory disease in USA [letter]. *Lancet* 1993 Jul 3;342(8862):61. Comment on: *Lancet* 1993 Jun 12;341(8859):1526.
- Nelson H. USA: Mysterious respiratory illness [news]. *Lancet* 1993 Jun 12;341(8859):1526.
- Comment in: *Lancet* 1993 Jul 3;342(8862):61.
- Nerlinger R, Niklasson B. [Consider diagnosis of nephropathia epidemica even in southern Sweden]]. *Lakartidningen* 1992 Mar 11;89(11):870, 873. (Swe).
- Nerurkar VR, Song JW, Song KJ, Nagle JW, Hjelle B, Jenison S, Yanagihara R. Genetic evidence for a hantavirus enzootic in deer mice (*Peromyscus maniculatus*) captured a decade before the recognition of hantavirus pulmonary syndrome. *Virology* 1994 Nov 1; 204(2):563-8.
- Nerurkar VR, Song KJ, Gajdusek DC, Yanagihara R. Genetically distinct hantavirus in deer mice [letter]. *Lancet* 1993 Oct 23;342(8878):1058-9.
- Nevskii IM, Karmanova RI, Magaznov AM, Apekina NS, Gavrilovskaya IN, Belov VP, Pitkianen AA, Okrema AA. [An assessment of the epidemic and epizootic activity of natural foci of hemorrhagic fever with renal syndrome]. *Voen Med Zh* 1993 Oct;(10):41-4. (Rus).
- Newly identified hantavirus--Florida, 1994. *MMWR Morb Mortal Wkly Rep* 1994 Feb 18;43(6):99, 105.
- Nichol ST, Morzunov S, Chizhikov V, Spiropoulou CF, Feldmann H, Ravkov E, Bowen M, Sanchez A, Thayer W, Rollin PE, et al. Newly recognized hantaviruses [abstract]. *J Cell Biochem Suppl* 1995;19A:280. Keystone Symposium on Molecular Aspects of Viral Immunity; 1995 Jan 16-23; Keystone, CO.
- Nichol ST, Spiropoulou CF, Morzunov S, Rollin PE, Ksiazek TG, Feldmann H, Sanchez A, Childs J, Zaki S, Peters CJ. Genetic identification of a hantavirus associated with an outbreak of acute respiratory illness. *Science* 1993 Nov 5;262(5135):914-7. Comment in: *Science* 1993 Nov 5;262(5135):832-6.
- Nie ZL, et al. [Development of EHFV micro-CPE neutralization test and application for detection of NT antibody]. *Chung Hua Wei Sheng Wu Hsueh Ho Mieh I Hsueh Tsa Chih* 1991;11(4):263-6. (Chi).
- Nie ZL, Yu YX. [Cytopathic effect of 76-118 strain of HFRS virus on vero cells]. *Chung Hua Wei Sheng Wu Hsueh Ho Mieh I Hsueh Tsa Chih* 1990;10(2):109-12. (Chi).
- Niklasson B. Haemorrhagic fever with renal syndrome, virological and epidemiological aspects. *Pediatr Nephrol* 1992 Mar;6(2):201-4.
- Niklasson B, Hellsten G, LeDuc J. Hemorrhagic fever with renal syndrome: a study of sequelae following nephropathia epidemica. *Arch Virol* 1994;137(3-4): 241-7.
- Niklasson B, Hornfeldt B, Lundkvist A, BJORSTEN S, Leduc J. Temporal dynamics of Puumala virus antibody prevalence in voles and of nephropathia epidemica incidence in humans. *Am J Trop Med Hyg* 1995 Aug; 53(2):134-40.

- Niklasson B, Hornfeldt B, Mullaart M, Settergren B, Tkachenko E, Myasnikov YuA, Ryltceva EV, Leschinskaya E, Malkin A, Dzagurova T. An epidemiologic study of hemorrhagic fever with renal syndrome in Bashkortostan (Russia) and Sweden. *Am J Trop Med Hyg* 1993 May;48(5):670-5.
- Niklasson B, Jonsson M, Lundkvist A, Horling J, Tkachenko E. Comparison of European isolates of viruses causing hemorrhagic fever with renal syndrome by a neutralization test. *Am J Trop Med Hyg* 1991 Dec;45(6): 660-5.
- Niklasson B, Jonsson M, Widegren I, Persson K, LeDuc J. A study of nephropathia epidemica among military personnel in Sweden. *Res Virol* 1992 May-Jun;143(3): 211-4.
- Niklasson B, Lundkvist A. [Four Corners disease--a newly discovered virus in the USA. Is there a similar disease in Sweden?]. *Lakartidningen* 1994 Feb 16;91(7):581-2. (Swe).
- Niklasson B, Tkachenko E, Ivanov AP, van der Groen G, Wiger D, Andersen HK, LeDuc J, Kjelsson T, Nystrom K. Haemorrhagic fever with renal syndrome: evaluation of ELISA for detection of Puumala-virus- specific IgG and IgM. *Res Virol* 1990 Nov-Dec;141(6):637-48.
- Noji EK, Miller GL. Emergency department response to a disaster from an emerging pathogen [editorial]. *Ann Emerg Med* 1994 Sep;24(3):512-4. Comment on: *Ann Emerg Med* 1994 Sep;24(3):429-36; *Ann Emerg Med* 1994 Sep;24(3):530-6.
- Nolte KB, Feddersen RM, Foucar K, Zaki SR, Koster FT, Madar D, Merlin TL, McFeeley PJ, Umland ET, Zumwalt RE. Hantavirus pulmonary syndrome in the United States: a pathological description of a disease caused by a new agent. *Hum Pathol* 1995;26(1):110-20.
- Nowotny N. The domestic cat: a possible transmitter of viruses from rodents to man [letter]. *Lancet* 1994 Apr 9; 343(8902):921. Comment on: *Lancet* 1994 Jan 8; 343(8889):67; *Lancet* 1994 Jan 8;343(8889):114.
- Nowotny N, Weissenboeck H, Aberle S, Hinterdorfer F. Hantavirus infection in the domestic cat [letter]. *JAMA* 1994 Oct 12;272(14):1100-1.
- Nozic D, Dokic M, Mijuskovic P, Gligic A, Kapulica I. [Hemorrhagic fever with renal syndrome and the picture of obstructive icterus]. *Vojnosanit Pregl* 1991 Sep-Oct; 48(5):447-8. (Scr).
- Nuti M. Infections by hantaviruses, leptospires, rickettsiae and *B. burgdorferi* in Alpine mountain areas. *Ther Infect Dis* 1991;6(3-4):338-40.
- Nuti M, Agostini M, Albini E, Avsic-Zupanc T, Kraigher A. [Antibodies against the Hantaan virus in Italian ex-soldiers stationed in the Balkans during World War II]. *Ann Ig* 1992 Jan-Feb;4(1):23-8. (Ita).
- Nuti M, Agostini M, Albini E, Avsic-Zupanc T, Kraigher A. Hantaan antibody in Italian ex-soldiers who served in the Balkans [letter]. *Lancet* 1991 Nov 16;338(8777):1277. Comment on: *Lancet* 1991 Jul 6;338(8758):66.
- Nuti M, Amaddeo D, Autorino GL, Crovatto M, Crucil C, Ghionni A, Giommi M, Salvati F, Santini GF. Seroprevalence of antibodies to hantaviruses and leptospires in selected Italian population groups. *Eur J Epidemiol* 1992 Jan;8(1):98-102.
- Nuti M, Amaddeo D, Caprilli F, Crescimbeni E, Antoniazzi G, Lalli C, Prignano G, Franco E, Cristaldi M. [Tiber environment and infections: antibodies to hantaviruses, *Leptospira*, *Borrelia* and hepatitis A virus in subjects active on the river banks]. *Ann Ig* 1993 Jul-Aug;5(4): 259-65. (Ita).
- Nuti M, Amaddeo D, Crovatto M, Ghionni A, Polato D, Lillini E, Pitzus E, Santini GF. Infections in an Alpine environment: antibodies to hantaviruses, leptospira, rickettsiae, and *Borrelia burgdorferi* in defined Italian populations. *Am J Trop Med Hyg* 1993 Jan;48(1):20-5.
- Nuti M, Lee HW. Serological evidence of hantavirus infection in some tropical populations. *Trans R Soc Trop Med Hyg* 1991 Mar-Apr;85(2):297-8.
- Nuti M, Messa M, Mioni G, Zorzenon M, Pitzus E. Presumed first case of haemorrhagic fever with renal syndrome in north-eastern Italy. *Trans R Soc Trop Med Hyg* 1991 Nov-Dec;85(6):789.
- Nuutilinen HU, Vuoristo M, Valtonen V, Miettinen TA. Hemorrhagic gastritis in nephropathia epidemica [abstract]. *Scand J Gastroenterol Suppl* 1990;25(176):46. 23rd Scandinavian Conference of Gastroenterology and 14th Scandinavian Endoscopy Meeting; 1990 Jun 14-6; Reykjavik.
- Ohshima A, Isegawa Y. [Detection of HFRS Hantaan virus RNA sequences by PCR]. *Nippon Rinsho* 1992 Jul; 50 Suppl:305-9. (Jpn).
- [Outbreak of acute illness--southwestern United States, 1993]. *Can Commun Dis Rep* 1993 Jun 30;19(12):91-4. (Fre).
- Outbreak of acute illness--southwestern United States, 1993. *MMWR Morb Mortal Wkly Rep* 1993 Jun 11;42(22): 421-4.
- Pan Z, et al. [Plasma atrial natriuretic polypeptides in patients with epidemic hemorrhagic fever]. *Hunan Yike Daxue Xuebao* 1991;16(1):76. (Chi).
- Papadimitriou MG, Antoniadis A. Hantavirus nephropathy in Greece [letter]. *Lancet* 1994 Apr 23;343(8904):1038. Comment on: *Lancet*

- 1994 Jan 8;343(8889):114; Lancet 1994 Jan 8;343(8889):114-5; Lancet 1994 Jan 8;343(8889):115-6.
- Park HJ, Doh PJH, Ahn JS, Ha YJ, Kim SY, Park SY, Moon HM. Identification of B cell epitopes in the envelope protein of Hantaan virus [abstract]. In: 9th International Congress of Immunology. Berlin: Springer-Verlag; 1995. p. 157.
- Parrington MA, Kang CY. Nucleotide sequence analysis of the S genomic segment of Prospect Hill virus: comparison with the prototype hantavirus. *Virology* 1990;175(1): 167-75
- Parrington MA, Lee PW, Kang CY. Molecular characterization of the Prospect Hill virus M RNA segment: a comparison with the M RNA segments of other hantaviruses. *J Gen Virol* 1991;72(8):1845-54.
- Parssinen O, Klemetti A, Rossi-Rautiainen E, Forslund T. Ophthalmic manifestations of epidemic nephropathy. *Acta Ophthalmol (Copenh)* 1993 Feb;71(1):114-8.
- Partanen S, Kahanpaa K, Peltola J, Lahdevirta J. Infection with the Puumala virus in pregnancy. Case report. *Br J Obstet Gynaecol* 1990 Mar;97(3):274-5.
- Partanen S, Sariola A, Lahdevirta J. Lack of evidence of puumala virus infection in patients with spontaneous abortion [letter]. *Eur J Clin Microbiol Infect Dis* 1993 Feb;12(2):142-3.
- Patnaik M, Velosa JA, Peter JB. Hantaviruses: an association with acute renal disease in the U.S. [abstract]. *Clin Chem* 1995;41(S6 Pt 2):S90. 47th Annual Meeting of the American Association for Clinical Chemistry; 1995 Jul 16-20; Anaheim, CA.
- Paul G, Bourgeois A, Brasseur A, Novik V, Donckier J, Pochet JM, Buysschaert M. [Hantavirus nephropathy: A report of six cases]. *Louv Med* 1990;109(6):433-5. (Fre).
- Paul R, Kiilainen H, Tarssanen L, Vorne M. [99Tcm]MAG3 gamma camera nephrography in epidemic nephritis. *Nucl Med Commun* 1991 Jan;12(1):15-25.
- Paul R, Kiilainen H, Tarssanen L, Vorne M. [The use of nephrography in the differential diagnosis of epidemic nephritis (letter)]. *Duodecim* 1990;106(21):1488. (Fin).
- Paul R, Tarssanen L, Kiilainen H, Vorne M. Rapid diagnosis of epidemic nephritis caused by hantavirus [letter]. *Lancet* 1991 Apr 20;337(8747):986. Comment on: *Lancet* 1991 Mar 2;337(8740):549-50. Comment in: *Lancet* 1991 Jul 20;338(8760):183.
- Peco-Antic A, Popovic-Rolovic M, Gligic A, Popovic D, Jovanovic O, Kostic M. Clinical characteristics of haemorrhagic fever with renal syndrome in children. *Pediatr Nephrol* 1992 Jul;6(4):335-8.
- Peco-Antic A, Popovic-Rolovic M, Popovic D, Gligic A, Jovanovic O. [Hemorrhagic fever with renal syndrome in children]. *Srp Arh Celok Lek* 1991 Jan-Feb;119(1-2): 58-61. (Scc).
- Pejcoch M, Danes L, Unar J, Zahradkova S, Pekna E. [Prevalence of hantavirus infection in small mammals in the South Moravian Region]. *Cesk Epidemiol Mikrobiol Imunol* 1992 Jun;41(2):92-100. (Cze).
- Penalba C, Lanoux P, Halin P, Dion JJ, Reveil JC, Le Guenno B. [Epidemic outbreak of hemorrhagic fever with renal syndrome in the Ardennes region. 17 cases from September 1992 to March 1993 (letter)]. *Presse Med* 1993 Sep 4;22(25):1190. (Fre).
- Penalba C, Lanoux P, Halin P, Le Guenno B. [Hemorrhagic fever with renal syndrome (letter)]. *Rev Med Interne* 1995;16(3):229. (Fre).
- Penk L, et al. [Study on alterations of red blood cell white blood cell and platelet of epidemic hemorrhagic fever with ribavirin treatment]. *Acta Acad Med Hubei* 1991; 12(1):8-11. (Chi).
- Pensiero MN, Hay J. The Hantaan virus M-segment glycoproteins G1 and G2 can be expressed independently. *J Virol* 1992 Apr;66(4):1907-14.
- Pensiero MN, Sharefkin JB, Dieffenbach CW, Hay J. Hantaan virus infection of human endothelial cells. *J Virol* 1992 Oct;66(10):5929-36.
- Perez Molina JA, Escudero Nieto R, Settergren B, Guerrero Espejo A. [Should we look for Hantavirus infection in Spanish patients?]. *Enferm Infect Microbiol Clin* 1995 Feb;13(2):125-6. (Spa).
- Peter JB, Patnaik M, Gott P, Weins B, Souw PT. Antibodies to different strains of hantavirus in end-stage renal disease in USA and Japan [letter]. *Lancet* 1994 Jan 15;343(8890): 181.
- Peterson HC, Richardson L. Hantavirus pulmonary syndrome: Kansas, 1993 [news]. *Kans Med* 1994 Mar; 95(3):74-5.
- Pether JV. Hantavirus infection: pathogenesis and immunity. *Curr Opin Infect Dis* 1995;7(3):329-32.
- Pether JV, Jones N, Lloyd G. Acute hantavirus infection [letter]. *Lancet* 1991 Oct 19;338(8773):1025. Comment in: *Lancet* 1991 Dec 14;338(8781):1530-1.
- Pether JV, Lloyd G. The clinical spectrum of human hantavirus infection in Somerset, UK. *Epidemiol Infect* 1993 Aug;111(1):171-5.
- Pether JV, Thurlow J, Palferman TG, Lloyd G. Acute hantavirus infection presenting as hypersensitivity vasculitis with arthropathy. *J*

- Infect 1993 Jan;26(1):75-7.
- Phillips MJ, Johnson SA, Thomson RK, Pether JV. Further UK case of acute hantavirus infection [letter]. Lancet 1991 Dec 14;338(8781):1530-1. Comment on: Lancet 1991 Oct 19;338(8773):1025.
- Pilaski J, Ellerich C, Kreutzer T, Benik W, Lewandowski B, Lang A, Autenrieth IB, Vanek E. [Endemic occurrence of hemorrhagic fever with renal syndrome in the Federal Republic of Germany]. Z Arztl Fortbild (Jena) 1991 Sep 25;85(18):869-74. (Ger).
- Pilaski J, Ellerich C, Kreutzer T, Lang A, Benik W, Pohl-Koppe A, Bode L, Vanek E, Autenrieth IB, Bigos K, et al. Haemorrhagic fever with renal syndrome in Germany [letter]. Lancet 1991 Jan 12;337(8733):111.
- Pilaski J, Feldmann H, Morzunov S, Rollin PE, Ruo SL, Lauer B, Peters CJ, Nichol ST. Genetic identification of a new Puumala virus strain causing severe hemorrhagic fever with renal syndrome in Germany. J Infect Dis 1994 Dec;170(6):1456-62.
- Plyusnin A, Vapalahti O, Lankinen H, Lehtvaslaiho H, Apekina N, Myasnikov Y, Kallio-Kokko H, Henttonen H, Lundkvist A, Brummer-Korvenkontio M, et al. Tula virus: a newly detected hantavirus carried by European common voles. J Virol 1994 Dec;68(12):7833-9.
- Plyusnin A, Vapalahti O, Ulfves K, Lehtvaslaiho H, Apekina N, Gavrilovskaya I, Blinov V, Vaheri A. Sequences of wild Puumala virus genes show a correlation of genetic variation with geographic origin of the strains. J Gen Virol 1994 Feb;75(Pt 2):405-9.
- Polenakovic M, Grcevska L, Gerasimovska-Tanevska V, Oncevski A, Dzikova S, Cakalaroski K, Masin G. Hantaan virus infection with acute renal failure at Department of Nephrology, University of Skopje, Republic of Macedonia [abstract]. J Am Soc Nephrol 1994;5(3):403. 27th Annual Meeting of the American Society of Nephrology; 1994 Oct 26-29; Orlando, FL.
- Poljak M, Avsic Zupanc T. Immunohistochemical detection of Hantaan virus antigen in renal tissue from patient with hemorrhagic fever with renal syndrome [letter]. Nephron 1994;67(2):252.
- Poljak M, Ferluga D, Hvala A, Cizman B, Rott T, But-Cigler N. Renal vascular changes in haemorrhagic fever with renal syndrome HFRS [abstract]. Pathol Res Pract 1991;187(6):749. 13th European Congress of Pathology; 1991 Sep 1-6; Ljubljana, Yugoslavia.
- Pon E, McKee KT Jr, Diniega BM, Merrell B, Corwin A, Ksiazek TG. Outbreak of hemorrhagic fever with renal syndrome among U.S. Marines in Korea. Am J Trop Med Hyg 1990 Jun;42(6):612-9.
- Posson SC, Told TN, Hollar GF. Recognition of hantavirus infection in the rural setting: report of first Colorado resident to survive. J Am Osteopath Assoc 1993 Oct; 93(10):1061-4. Published erratum appears in J Am Osteopath Assoc 1993 Dec;93(12):1320.
- Prochoda K, Mostow SR, Greenberg K. Hantavirus-associated acute respiratory failure [letter]. N Engl J Med 1993 Dec 2;329(23):1744.
- Progress in the development of hantavirus diagnostic assays--United States. MMWR Morb Mortal Wkly Rep 1993 Oct 8;42(39):770-1.
- Puthavathana P, Dobbs M, Baek LJ, Chu YK, Lee HW, Kang CY. Comparison of nucleotide sequences among hantaviruses belonging to the same serotype: an analysis of amplified DNA by thermal cycle sequencing. Virus Res 1993 Nov;30(2):161-9.
- Puthavathana P, Lee HW, Kang CY. Typing of hantaviruses from five continents by polymerase chain reaction. Virus Res 1992 Oct;26(1):1-14.
- Qian B, Xi Y, Hu G. [Twelve cases of epidemic hemorrhagic fever transmitted from experimental animal]. Hunan Yike Daxue Xuebao 1993;18(3):323-4. (Chi).
- Qian DY, Ding YS, Chen GF, Ding JJ, Chen YX, Lu TF, Wang ZX, Smego RA Jr. A placebo-controlled clinical trial of prednisone in the treatment of early hemorrhagic fever [letter]. J Infect Dis 1990 Nov;162(5):1213-4.
- Qiu FX, Duan SX. The Fourth China National Congress on Medical Virology. Chin Med J (Engl) 1994 May;107(5): 391-4.
- Qiu FX, Duan SX. Second International Conference on Hemorrhagic Fever with Renal Syndrome. Chin Med J (Engl) 1993 Nov;106(11):864-6.
- Qu CF, Yang ZQ, Xiang JM. [Alternanthera philoxeroides (Mavt.) Griseb protection against fetal epidemic hemorrhagic fever virus infection in suckling mice]. Chung Kuo Chung Yao Tsa Chih 1993 May;18(5):304-5, 320. (Chi).
- Qu CF, Yang ZQ, Xiang JM. [Pathogenicity of epidemic hemorrhagic fever virus in suckling mice]. Virol Sin 1990;5(2):157-61. (Chi).
- Qu Y, et al. [Study of T cell subtypes in patients with epidemic hemorrhagic fever]. Chung Kuo Ko Ta Hsueh Hsueh Pao 1990;19(1):46-9. (Chi).
- Quarterly Communicable Disease Review July to September 1993. From the PHLS Communicable Disease Surveillance Centre. J Public Health Med 1994 Mar; 16(1):105-12.
- Rabaud C, May T, Hoen B, Maignan M, Gerard A, Canton P. Guillain-Barre syndrome associated with hantavirus infection [letter]. Clin Infect Dis 1995 Feb;20(2):477-8.

- Rand MS. Hantavirus: an overview and update. *Lab Anim Sci* 1994 Aug;44(4):301-4.
- Ravkov EV, Rollin PE, Ksiazek TG, Peters CJ, Nichol ST. Genetic and serologic analysis of Black Creek Canal virus and its association with human disease and *Sigmodon hispidus* infection. *Virology* 1995;210(2):482-9.
- Rice P, Kudesia G, Leach M. Acute hantavirus infection [letter]. *J Infect* 1993 Nov;27(3):342-4.
- Rodier G, Soliman AK, Bouloumié J, Kremer D. Presence of antibodies to hantavirus in rat and human populations of Djibouti. *Trans R Soc Trop Med Hyg* 1993 Mar-Apr; 87(2):160-1.
- Rodriguez JA, Vaque J. [Hantavirus disease: an emerging infection (editorial)]. *Enferm Infect Microbiol Clin* 1994 Dec;12(10):477-9. (Spa).
- Rodriguez Hernandez JA, Vaque Rafart J, Gurri Glass GE. [Hemorrhagic fever with renal syndrome caused by Hantavirus]. *Med Clin (Barc)* 1995 Jun 10;105(2):62-7.
- Rollin PE, Bowen MD, Kariwa H, Saluzzo JF, Guerard S, Flechaire A, Coudrier D, Sureau P, Peters CJ, Nichol ST. Short report: isolation and partial characterization of a puumala virus from a human case of nephropathia epidemica in France. *Am J Trop Med Hyg* 1995;52(6): 577-8.
- Rollin PE, Courdrier D, Saluzzo JF, Sureau P. Hemorrhagic fever with renal syndrome in France update [abstract]. Am J Trop Med Hyg 1991;45(3 Suppl):151-2. 40th Annual Meeting of the American Society of Tropical Medicine and Hygiene; 1991 Dec 1-5; Boston.
- Rollin PE, Coudrier D, Sureau P. Hantavirus epidemic in Europe, 1993 [letter]. *Lancet* 1994 Jan 8;343(8889): 115-6. Comment in: *Lancet* 1994 Apr 23;343(8904): 1038.
- Rollin PE, Ksiazek TG, Elliott LH, Ravkov EV, Martin ML, Morzunov S, Livingstone W, Monroe M, Glass G, et al. Isolation of black creek canal virus, a new hantavirus from *Sigmodon hispidus* in Florida. *J Med Virol* 1995; 46(1):35-9.
- Roshchupkin VI, Suzdaltsev AA, Novomintseva LN. [Reflex delay of urination in a patient with hemorrhagic fever with renal syndrome]. *Klin Med (Mosk)* 1992 Mar-Apr; 70(3-4):68-9. (Rus).
- Rumpf KW, Quentin E, Janning G, Krone B, Pfautsch C, Scheler F, Thomssen R. [Hantaan virus infection--also in Germany a cause of acute renal failure]. *Med Klin* 1990 Mar;85 Suppl 1:156-8. (Ger).
- Ruo SL, Li YL, Tong Z, Ma QR, Liu ZL, Tang YW, Ye KL, McCormick JB, Fisher-Hoch SP, Xu ZY. Retrospective and prospective studies of hemorrhagic fever with renal syndrome in rural China]. *J Infect Dis* 1994 Sep;170(3):527-34.
- Published erratum appears in *J Infect Dis* 1995 May;171(5):1386.
- Ruo SL, Sanchez A, Elliott LH, Brammer LS, McCormick JB, Fisher-Hoch SP. Monoclonal antibodies to three strains of hantaviruses: Hantaan, R22, and Puumala. *Arch Virol* 1991;119(1-2):1-11.
- Ruusala A, Persson R, Schmaljohn CS, Pettersson RF. Coexpression of the membrane glycoproteins G1 and G2 of Hantaan virus is required for targeting to the Golgi complex. *Virology* 1992 Jan;186(1):53-64.
- Saha H, Mustonen J, Pietila K, Pasternack A. Metabolism of calcium and vitamin D3 in patients with acute tubulointerstitial nephritis: a study of 41 patients with nephropathia epidemica. *Nephron* 1993;63(2):159-63.
- Saltevo J, Forslund T. [Epidemic nephritis followed by hypogonadism]. *Duodecim* 1992;108(5):494-6. (Fin).
- Samuel MC, Zeitz PS, Cheek JE, Butler J, Childs J, Voorhees R. Methodologic issues in assessing risk factors for hantavirus Pulmonary Syndrome (HPS) in the Southwestern United States [abstract]. Am J Epidemiol 1994;139(11 Suppl):S34. 27th Annual Meeting of the Society for Epidemiologic Research; 1994 Jun 15-18; Miami.
- Sands L, Kioski C, Komatsu K. Hantavirus in the southwestern United States: epidemiology of an emerging pathogen. *J Am Osteopath Assoc* 1993 Dec;93(12): 1279-85. Comment in: *J Am Osteopath Assoc* 1993 Dec; 93(12):1252, 1255.
- Schmaljohn AL, Li D, Negley DL, Bressler DS, Turell MJ, Korch GW, Ascher MS, Schmaljohn CS. Isolation and initial characterization of a newfound hantavirus from California. *Virology* 1995 Feb 1;206(2):963-72.
- Schmaljohn CS. Nucleotide sequence of the L genome segment of Hantaan virus. *Nucleic Acids Res* 1990 Nov 25;18(22):6728.
- Schmaljohn CS, Chu YK, Schmaljohn AL, Dalrymple JM. Antigenic subunits of Hantaan virus expressed by baculovirus and vaccinia virus recombinants. *J Virol* 1990 Jul;64(7):3162-70.
- Schmaljohn CS, Hasty SE, Dalrymple JM. Preparation of candidate vaccinia-vectored vaccines for haemorrhagic fever with renal syndrome. *Vaccine* 1992;10(1):10-3.
- Schmaljohn CS, McClain DJ. Prospects for immunization to hantaviruses [abstract]. *J Cell Biochem Suppl* 1995;19A: 280. Keystone Symposium on Molecular Aspects of Viral Immunity; 1995 Jan 16-23; Keystone, CO.
- Schreiber M, Laue T, Wolff C. Hantavirus pulmonary syndrome in Germany [letter].

- Lancet 1996 Feb 3; 347(8997):336-7.
- Schubert U, Metzler B, Braun B. [Hantavirus nephritis: endemic in the Reutlingen area]. Z Arztl Fortbild (Jena) 1991 Nov 25;85(22):1107-9. (Ger).
- Schuldt C, Zoller L, Bautz EK, Darai G. Baculovirus expression of the nucleocapsid protein of a Puumala serotype hantavirus. Virus Genes 1994 Mar;8(2):143-9.
- Schwarz TF, Zaki SR, Morzunov S, Peters CJ, Nichol ST. Detection and sequence confirmation of Sin Nombre virus RNA in paraffin-embedded human tissues using one-step RT-PCR. J Virol Methods 1995 Feb;51(2-3):349-56.
- Serikawa T, Yamada J. [Report on detection of rats and humans with HFRS antibody in the Faculty of Medicine, Kyoto University and on measures taken against the trouble]. Jikken Dobutsu 1993 Oct;42(4):665-71. (Jpn).
- Settergren B. Hantavirus infection and renal failure [letter]. Lancet 1991 Mar 2;337(8740):549-50. Comment on: Lancet 1990 Dec 8;336(8728):1441-2. Comment in: Lancet 1991 Apr 20;337(8747):986.
- Settergren B. Nephropathia epidemica (hemorrhagic fever with renal syndrome) in Scandinavia. Rev Infect Dis 1991 Jul-Aug;13(4):736-44.
- Settergren B. [Pulmonary syndrome caused by hantavirus--a new syndrome with high mortality]. Nord Med 1994; 109(3):84. (Swe).
- Settergren B, Ahlm C, Juto P, Niklasson B. Specific Puumala IgG virus half a century after haemorrhagic fever with renal syndrome [letter]. Lancet 1991 Jul 6;338(8758):66. Comment in: Lancet 1991 Nov 16;338(8777):1277.
- Settergren B, Boman J, Linderholm M, Wistrom J, Hagg E, Arvidsson PA. A case of nephropathia epidemica associated with panhypopituitarism and nephrotic syndrome [letter]. Nephron 1992;61(2):234-5.
- Settergren B, Juto P. [Vole fever. A European type of hemorrhagic fever with renal syndrome]. Lakartidningen 1993 Sep 1;90(35):2875-8. (Swe).
- Settergren B, Leschinskaya E, Zagidullin I, Fazlyeva R, Khunafina D, Niklasson B. Hemorrhagic fever with renal syndrome: comparison of clinical course in Sweden and in the Western Soviet Union. Scand J Infect Dis 1991; 23(5):549-52.
- Settergren B, Trollfors B, Fasth A, Hultberg B, Norrby SR. Glomerular filtration rate and tubular involvement during acute disease and convalescence in patients with nephropathia epidemica. J Infect Dis 1990 Apr;161(4): 716-20.
- Seyer-Hansen K. [Hantaan virus infections (letter)]. Ugeskr Laeger 1990 Nov 19;152(47):3545. (Dan).
- Shapiro IA. [Electrolyte excretion in patients with a history of hemorrhagic fever with renal syndrome]. Urol Nefrol (Mosk) 1990 Jan-Feb; (1):10-2. (Rus).
- Sharaev PN, Botnikova EA, Ivanov VM, Zubarev ON, Malinin OV, Zubkova SV. [The determination of free and bound oxyproline in urine]. Lab Delo 1990;(12):23-5. (Rus).
- Shefer AM, Tappero JW, Bresee JS, Peters CJ, Ascher MS, Zaki SR, Jackson RJ, Werner SB, Rollin PE, Ksiazek TG, et al. Hantavirus pulmonary syndrome in California: report of two cases and investigation. Clin Infect Dis 1994;19(6):1105-9.
- Shen KQ. [Detection of hemorrhagic fever virus-RNA in renal tissue and peripheral blood in patients with hemorrhagic fever with renal syndrome]. Chung Hua I Hsueh Tsa Chih 1993 Oct;73(10):609-11, 638. (Chi).
- Shi L, Hang C, Li D, Yuan J, Jin D, Song G. [Molecular cloning and sequencing of the M genome segment of epidemic hemorrhagic fever virus R22 strain]. Ping Tu Shueh Pao 1991;7(4):295-302. (Chi).
- Shrapova MS, Kozlov IV, Novikova AV, Eremin VI. [Clinico-morphological features of the stomach in subjects who had hemorrhagic fever with renal syndrome]. Ross Med Zh 1992;(3):31-2. (Rus).
- Siamopoulos KC. Virus-related acute renal failure. The clinical course and outcome of haemorrhagic fever with renal syndrome. Nephrol Dial Transplant 1994; 9 Suppl 4:111-5.
- Siamopoulos KC. Virus-related acute renal failure: the clinical course and outcome of hemorrhagic fever with renal syndrome. Ren Fail 1994;16(3):303-12.
- Siamopoulos KC, Elisaf M, Antoniades A, Moutsopoulos HM. Clinical picture and epidemiological survey of hemorrhagic fever with renal syndrome in Greece [abstract]. Microb Ecol Health Dis 1991;4(4):250-1.
- Siamopoulos KC, Elisaf M, Antoniades A, Moutsopoulos HM. Hemorrhagic fever with renal syndrome in an endemic area of Greece. Am J Nephrol 1992;12(3): 170-3.
- Sidelnikov IuN. [Hemorrhagic fever with renal syndrome in the structure of natural-focus morbidity in the southern Khabarovsk Territory and its social significance]. Zh Mikrobiol Epidemiol Immunobiol 1993 Sep-Oct;(5):43-6. (Rus).

- Sidelnikov IuN, Anisimova NI. [The mechanisms of the development of tissue hypoxia and the criteria for its assessment in patients with hemorrhagic fever with renal syndrome]. *Ter Arkh* 1991;63(11):68-70. (Rus).
- Sidelnikov IuN, Kovalskii GS, Sivoraksha GA. [Pulmonary edema in patients with hemorrhagic fever with renal syndrome]. *Klin Med (Mosk)* 1992 Feb;70(2):98-100. (Rus).
- Sidelnikov IuN, Obukhova GG. [Component of kinin system, blood histamine and serotonin in patients with hemorrhagic fever with renal syndrome]. *Vopr Med Khim* 1990 Jul-Aug;36(4):47-9. (Rus).
- Sidelnikov IuN, Obukhova GG. [Disruption of the balance of amino acids in patients with hemorrhagic fever with kidney syndrome]. *Vopr Med Khim* 1994 Jan-Feb;40(1): 44-7. (Rus).
- Sidelnikov IuN, Obukhova GG. [The role of biologically active substances in permeability changes in the blood vessels of patients with hemorrhagic fever with renal syndrome]. *Ter Arkh* 1990;62(6):66-8. (Rus).
- Sidelnikov IuN, Obukhova GG. [The urinary excretion of free amino acids in patients with hemorrhagic fever with renal syndrome]. *Urol Nefrol (Mosk)* 1994 May-Jun; (3):37-9. (Rus).
- Sidelnikov IuN, Sivoraksha GA. [The participation of histamine and serotonin in the genesis of acute kidney failure in patients with hemorrhagic fever with renal syndrome]. *Urol Nefrol (Mosk)* 1990 Jul-Aug;(4):46-8. (Rus).
- Silberberg L, Rollin PE, Kerouani G, Courdrier D. Haemorrhagic fever with renal syndrome and pregnancy: a case report. *Trans R Soc Trop Med Hyg* 1993 Jan-Feb; 87(1):65.
- Simonsen L, Dalton MJ, Breiman RF, Hennessy T, Umland ET, Sewell CM, Rollin PE, Ksiazek TG, Peters CJ. Evaluation of the magnitude of the 1993 hantavirus outbreak in the southwestern United States. *J Infect Dis* 1995 Sep;172(3):729-33.
- Simonsen L, Schmidt MJ, Hennessey T, Umland E, Sewell M, Rollin PE, Peters CJ, Ksiazek TG, Breiman R. Is there a mild course of hantaviral illness? [abstract]. *Am J Epidemiol* 1994;139(11 Suppl):S82. 27th Annual Meeting of the Society for Epidemiologic Research; 1994 Jun 15-18; Miami.
- Sinnott JT 4th, Greene JN, Kim E, Gompf S. Hantavirus: an old bug learns new tricks. *Infect Control Hosp Epidemiol* 1993 Nov;14(11):661-4.
- Sirotin BZ, Davidovich IM, Fedorchenko IuL, Uskin VN. [The dicynone treatment of hemorrhagic fever with renal syndrome]. *Voen Med Zh* 1994 Aug;(8):41-2. (Rus).
- Sirotin BZ, Davidovich IM, Fedorchenko IuL, Uskin VN. [Experience in the use of dicinon in the treatment of patients with hemorrhagic fever with renal syndrome]. *Klin Med (Mosk)* 1994;72(6):66. (Rus).
- Sirotin BZ, Zharskii SL, Shapiro IA. [The renal transport of sodium, potassium, calcium and phosphorus in patients with a history of hemorrhagic fever with renal syndrome]. *Ter Arkh* 1994;66(12):42-4. (Rus).
- Slama TG, Zon R. Fatal hantavirus pulmonary syndrome in Indiana [letter]. *N Engl J Med* 1994 Apr 7;330(14):1010. Comment in: *N Engl J Med* 1994 Aug 25;331(8):545; discussion 547-8.
- Slanova RA, Kushnarev EL, Kosoi ME, Astakhova TI, Kushnareva TV, Bondarenko AN. [The nature of the persistence of the causative agent of hemorrhagic fever with renal syndrome in the body of its natural host and its relationship to the epizootiologic and epidemic processes]. *Vopr Virusol* 1990 May-Jun;35(3):250-3. (Rus).
- Slanova RA, Tkachenko EA, Astakhova TI, Dzagurova TK. [Hantaan virus serotypes circulating in foci of the Far Eastern region of the USSR]. *Vopr Virusol* 1990 Sep-Oct; 35(5):391-3. (Rus).
- Slanova RA, Tkachenko EA, Kushnarev EL, Dzagurova TK, Astakova TI. Hantavirus isolation from birds [letter]. *Acta Virol* 1992 Oct;36(5):493.
- Smetana Z, Mendelson E, Soupaev Z, Smetana SS. Serological survey of hantavirus antibodies in chronic hemodialysis patients [letter]. *Clin Nephrol* 1994 Sep; 42(3):203-4.
- Song G, Hang CS, Huang YC, Hou FY. Preliminary trials of inactivated vaccine against haemorrhagic fever with renal syndrome [letter]. *Lancet* 1991 Mar 30;337(8744):801.
- Song G, Huang YC, Hang CS, Hao FY, Li DX, Zheng XL, Liu WM, Li SL, Huo ZW, Huei LJ, et al. Preliminary human trial of inactivated golden hamster kidney cell (GHKC) vaccine against haemorrhagic fever with renal syndrome (HFRS). *Vaccine* 1992;10(4):214-6.
- Song JW, Baek LJ, Gajdusek DC, Yanagihara R, Gavrillovskaya I, Luft BJ, Mackow ER, Hjelle B. Isolation of pathogenic hantavirus from white-footed mouse (*Peromyscus leucopus*) [letter]. *Lancet* 1994 Dec 10;344(8937):1637.
- Song X. [Effect of moxibustion on the immune and anti-virus functions of the rat infected with epidemic hemorrhagic fever virus]. *Chen Tzu Yen Chiu* 1992;17(4):267-9. (Chi).
- Song Y, Yang WS, Chen LB, Zhang WB. [Dynamic changes and significance of plasma fibronectin level in patients with epidemic hemorrhagic fever]. *Ti 4 Chun I Ta Hsueh Pao* 1990;11(3):176-8. (Chi).

- Spiropoulou CF, Morzunov S, Feldmann H, Sanchez A, Peters CJ, Nichol ST. Genome structure and variability of a virus causing hantavirus pulmonary syndrome. *Virology* 1994 May 1;200(2):715-23.
- Stallknecht DE, Blue JL, Rollor EA 3d, Nettles VF, Davidson WR, Pearson JE. Precipitating antibodies to epizootic hemorrhagic disease and bluetongue viruses in white-tailed deer in the southeastern United States. *J Wildl Dis* 1991 Apr;27(2):238-47.
- Stallknecht DE, Kellogg ML, Blue JL, Pearson JE. Antibodies to bluetongue and epizootic hemorrhagic disease viruses in a barrier island white-tailed deer population. *J Wildl Dis* 1991 Oct;27(4):668-74.
- Stanford CF, Connolly JH, Ellis WA, Smyth ET, Coyle PV, Montgomery WI, Simpson DL. Zoonotic infections in Northern Ireland farmers. *Epidemiol Infect* 1990 Dec; 105(3):565-70.
- Steier KJ, Clay R. Hantavirus pulmonary syndrome (HPS): report of first case in Louisiana. *J Am Osteopath Assoc* 1993 Dec;93(12):1286-9. Comment in: *J Am Osteopath Assoc* 1993 Dec;93(12):1252, 1255.
- Stephen C, Johnson M, Bell A. [First reported cases of hantavirus pulmonary syndrome in Canada]. *Can Commun Dis Rep* 1994 Aug 15;20(15):121-5. (Fre).
- Stohwasser R, Giebel LB, Raab K, Bautz EKF, Darai G. Polymerase chain reaction for detection of hantaviruses. In: Becker Y, Darai G, editors. *Diagnosis of human viruses by polymerase chain reaction technology*. Berlin: Springer-Verlag; 1992. p. 372-88. (Frontiers of virology; 1).
- Stohwasser R, Giebel LB, Zoller L, Bautz EK, Darai G. Molecular characterization of the RNA S segment of nephropathia epidemica virus strain Hallnas B1. *Virology* 1990 Jan;174(1):79-86.
- Stone R. The mouse-pinenut connection [news]. *Science* 1993 Nov 5;262(5135):833.
- Stone R. A rogues' gallery of hantaviruses [news]. *Science* 1993 Nov 5;262(5135):835.
- Strobel ES, Keller E, Schollmeyer P. [Acute nephritis caused by Hantaan virus infection (letter)]. *Med Klin* 1991 Jun 15;86(6):330. (Ger).
- Sugiyama K, Minaba K, Morita C, Kitamura H, Yamada T, Ogura K, Tanaka R, Tanikawa T, Shiga S, Komatsu T, et al. Epizootiological study of hantavirus infection among *Rattus norvegicus* in Tokyo Bay area, Japan. *Jpn J Med Sci Biol* 1993 Apr;46(2):75-86.
- Sugiyama K, Takagi K, Kinjo T, Nakata Y, Komatsu T, Kitamura T. Isolation and characterization of a hantavirus from *Rattus norvegicus* in a residential area of Nagoya City, Japan. *J Vet Med Sci* 1995 Feb;57(1):51-4.
- Suh DC, Park JS, Park SK, Lee HK, Chang KH. Pituitary hemorrhage as a complication of hantaviral disease. *AJNR Am J Neuroradiol* 1995 Jan;16(1):175-8; discussion 179-80.
- Sun KY. [Care of epidemic hemorrhagic fever complicated by bradycardia]. *Chung Hua Hu Li Tsa Chih* 1994 Feb 5; 29(2):82-3. (Chi).
- Sun ZJ, Huang XH, Wang MX. [Functional changes of hypothalamic-pituitary target gland axes and their clinical significance]. *Chung Hua Nei Ko Tsa Chih* 1993 Nov; 32(11):729-32. (Chi).
- Takeuchi T, Yamamoto T, Itoh M, Tsukada K, Yasue N, Lee HW. Clinical studies on hemorrhagic fever with renal syndrome found in Nagoya City University Medical School. *Kidney Int Suppl* 1991 Dec;35:S84-7.
- Taller AM, Xiao SY, Godec MS, Gligic A, Avsic-Zupanc T, Goldfarb LG, Yanagihara R, Asher DM. Belgrade virus, a cause of hemorrhagic fever with renal syndrome in the Balkans, is closely related to Dobrava virus of field mice. *J Infect Dis* 1993 Sep;168(3):750-3.
- Talwar GP, Rao KV, Chauhan VS, editors. *Recombinant and synthetic vaccines*. Berlin: Springer-Verlag; 1994. 512 p.
- Tamura M, Ogino S, Matsunaga T, Asada H, Kondo K, Kurata T, Yamanishi K. Experimental labyrinthitis in guinea pigs caused by a hantavirus. *ORL J Otorhinolaryngol Relat Spec* 1991;53(1):1-5.
- Tang YM, Yang WS, Zhang WB, Bai XF. Localization and changes of hemorrhagic fever with renal syndrome virus in lymphocyte subpopulation. *Chin Med J (Engl)* 1991 Aug;104(8):673-8.
- Tang YW, Li YL, Ye KL, Xu ZY, Ruo SL, Fisher-Hoch SP, McCormick JB. Distribution of hantavirus serotypes Hantaan and Seoul causing hemorrhagic fever with renal syndrome and identification by hemagglutination inhibition assay. *J Clin Microbiol* 1991 Sep;29(9):1924-7.
- Tang YW, Ruo SL, Xu X, Sanchez A, Fisher-Hoch SP, McCormick JB, Xu ZY. Hantavirus strains isolated from rodentia and insectivora in rural China differentiated by polymerase chain reaction assay. *Arch Virol* 1990; 115(1-2):37-46. Published erratum appears in *Arch Virol* 1991;117(3-4):316.
- Tang Z. [Effect of moxibustion on humoral factors in the rat infected with epidemic hemorrhagic fever virus]. *Chen Tzu Yen Chiu* 1992;17(4):276-80. (Chi).
- Tang Z, Song X, Liu B, Zhou M, Dong C, Ni D. [Experiment research on moxibustion treating infected EHFV rat]. *Chen Tzu Yen Chiu* 1990;15(4):302-5. (Chi).

- Tang Z, Song X, Zhou M, Zhang J, Dong C, Ni D. [Influence of moxibustion on TXA2 and PGI2 in plasma of rat infected epidemic hemorrhagic fever virus (EHFV)]. *Chen Tzu Yen Chiu* 1992;17(1):45-7, 44. (Chi).
- Tang ZJ. [A combined staining of immunohistochemistry and in situ hybridization for detecting epidemic hemorrhagic fever virus in tissue section]. *Chung Hua Ping Li Hsueh Tsa Chih* 1993 Jun;22(3):140-2. (Chi).
- Tantivanich S, Ayuthaya PI, Usawattanakul W, Imphand P. Hantaanvirus among urban rats from a slum area in Bangkok. *Southeast Asian J Trop Med Public Health* 1992 Sep;23(3):504-9.
- Temonen M, Lankinen H, Vapalahti O, Ronni T, Julkunen I, Vaheri A. Effect of interferon-alpha and cell differentiation on Puumala virus infection in human monocyte/macrophages. *Virology* 1995 Jan 10;206(1): 8-15.
- Temonen M, Mustonen J, Helin H, Pasternack A, Vaheri A, Holthofer H. Cytokines, adhesion molecules, and cellular infiltration in nephropathia epidemica kidneys: an immunohistochemical study. *Clin Immunol Immunopathol* 1996 Jan;78(1):47-55.
- Temonen M, Vapalahti O, Holthofer H, Brummer-Korvenkontio M, Vaheri A, Lankinen H. Susceptibility of human cells to Puumala virus infection. *J Gen Virol* 1993 Mar;74(Pt 3):515-8.
- Tennstedt C, Wunschmann S, Schmitz H, Schreiber M. [Pathological-anatomical findings after serologic and molecular biologic evidence of Hantaan virus infection]. *Zentralbl Pathol* 1994 Jul;140(2):173-80. (Ger).
- Thomas R. Hantavirus: quick and deadly. *RN* 1994 Aug; 57(8):44-7; quiz 48.
- Tkachenko EA, Lee HW. Etiology and epidemiology of hemorrhagic fever with renal syndrome. *Kidney Int Suppl* 1991 Dec;35:S54-61.
- Torrez-Martinez N, Song W, Hjelle B. Nucleotide sequence analysis of the M genomic segment of El Moro Canyon hantavirus: Antigenic distinction from Four Corners hantavirus. *Virology* 1995;211(1):336-8.
- Tsianos EV, Dalekos GN, Elisaf M, Zervou E, Siamopoulos KC. High frequency of antibodies to Hantaan virus and hepatitis C virus in chronic haemodialysis patients. Coincidence or cross-reaction? *J Intern Med* 1993 Dec; 234(6):607-10.
- Turell MJ, Korch GW, Rossi CA, Sesline D, Enge BA, Dondero DV, Jay M, Ludwig GV, Li D, Schmaljohn CS, et al. Short report: prevalence of hantavirus infection in rodents associated with two fatal human infections in California. *Am J Trop Med Hyg* 1995 Feb;52(2):180-2.
- Turkovic B, Svoboda-Bevsan I. [Lymphocyte population changes in haemorrhagic fever with renal syndrome]. *Vet Arh* 1991;61(1):25-31. (Scr).
- Unexplained respiratory distress syndrome in the south-west of the United States. *Commun Dis Rep CDR Wkly* 1993 Jun 18;3(25):111.
- Update: hantavirus disease--southwestern United States, 1993. *MMWR Morb Mortal Wkly Rep* 1993 Jul 30; 42(29):570-2.
- Update: hantavirus disease--United States, 1993. *MMWR Morb Mortal Wkly Rep* 1993 Aug 13;42(31):612-4.
- [Update: hantavirus disease--United States, 1993]. *Can Commun Dis Rep* 1993 Sep 30;19(18):157-8. (Fre).
- Update: hantavirus infection--United States, 1993. *MMWR Morb Mortal Wkly Rep* 1993 Jul 9;42(26):517-9.
- Update: hantavirus pulmonary syndrome--United States, 1993. *MMWR Morb Mortal Wkly Rep* 1993 Oct 29; 42(42):816-20.
- Update: hantavirus-associated illness--North Dakota, 1993. *MMWR Morb Mortal Wkly Rep* 1993 Sep 17; 42(36):707.
- Update: outbreak of hantavirus infection-- southwestern United States, 1993. *MMWR Morb Mortal Wkly Rep* 1993 Jun 18;42(23):441-3.
- Update: outbreak of hantavirus infection-- southwestern United States, 1993. *MMWR Morb Mortal Wkly Rep* 1993 Jun 25;42(24):477-9.
- Update: outbreak of hantavirus infection-- southwestern United States, 1993. *MMWR Morb Mortal Wkly Rep* 1993 Jul 2;42(25):495-6.
- Ushijima H, Dairaku M, Honma H, Sato K, Sugiyama K, Kitamura T, Inaba N. Incidence of antibodies against human immunodeficiency virus, human T-cell lymphotropic virus type 1, hepatitis B virus, hemorrhagic fever with renal syndrome virus and Chlamydia in Tonga and western Samoa. *Jpn J Med Sci Biol* 1990 Aug;43(4): 101-9.
- Vaheri A, Hedman K, Vapalahti O, Kallio-Kokko H, Piiparinens H, Temonen M, Brummer-Korvenkontio M. Rapid diagnosis of hantavirus infections. *Biotechnol Appl* 1992;9(1):16-21.
- Valiakhmetov RZ, Gafarov AI, Memkhes VS, Galimzianov VZ. [Spontaneous rupture of the kidneys in hemorrhagic fever with renal syndrome]. *Urol Nefrol (Mosk)* 1990 Nov-Dec; (6):50-3. (Rus).
- Van Der Groen G. Hantavirus variation and disease distribution. In: Kurstak E et al., editors. *Virus variability, epidemiology, and control*. New York: Plenum Publishing; 1990. p.

- 317-34. (Applied virology research; vol. 2.)
- van Ypersele de Strihou C. Clinical features of hemorrhagic fever with renal syndrome in Europe. *Kidney Int Suppl* 1991 Dec;35:S80-3.
- Vapalahti O, Kallio-Kokko H, Narvanen A, Julkunen I, Lundkvist A, Plyusnin A, Lehvaslaiho H, Brummer-Korvenkontio M, Vaheri A, Lankinen H. Human B-cell epitopes of puumala virus nucleocapsid protein, the major antigen in early serological response. *J Med Virol* 1995;46(4):293-303.
- Vapalahti O, Kallio-Kokko H, Salonen EM, Brummer-Korvenkontio M, Vaheri A. Cloning and sequencing of Puumala virus Sotkamo strain S and M RNA segments: evidence for strain variation in hantaviruses and expression of the nucleocapsid protein. *J Gen Virol* 1992 Apr;73(Pt 4):829-38.
- Vapalahti O, Plyusnin A, Vaheri A, Henttonen H. Hantavirus antibodies in European mammalogists [letter]. *Lancet* 1995 Jun 17;345(8964):1569.
- Vasconcelos PFC, Rosa ESTD, Rosa APATD, Rosa JFSTD. [Evidence of circulating hantaviruses in Brazilian Amazonia through high prevalence of antibodies in residents of Manaus Brazil]. *Cienc Cult* 1992;44(2-3): 162-3. (Por).
- Vereta LA, Elisova TD, Voronkova GM. [The detection of antibodies to the hantaa virus in the urine of patients with hemorrhagic fever with renal syndrome]. *Vopr Virusol* 1993 Jan-Feb;38(1):18-21. (Rus).
- Virus-Related Renal Diseases. *Kidney Int Suppl* Dec 1991; (35):S1-93. Satellite symposium to the 11th International Congress of Nephrology; 1990 Jul 22-24; Kyongju, Korea.
- Vitarana T. Hantavirus disease. *Ceylon Med J* 1994 Jun; 39(2):63-6.
- Wan H, Yang S, Hu J. [The alteration of plasma total protein and albumin in epidemic hemorrhagic fever]. *Acta Acad Med Hubei* 1992;13(2):113-5. (Chi).
- Wang G. [Role of thromboxane A2 and prostacyclin in the pathophysiology of epidemic hemorrhagic fever]. *Chung Hua I Hsueh Tsa Chih* (Taipei) 1990 Jul;70(7):398-400. (Chi).
- Wang GQ. [A study on transmission of epidemic hemorrhagic fever virus through skin wounds among rodents in natural conditions]. *Chung Hua Yu Fang I Hsueh Tsa Chih* 1992 May;26(3):151-3. (Chi).
- Wang GQ, Zou ZZ, Yu DP. [A study of the role of plasma thromboxane B2 and 6-keto-prostaglandin F1 alpha in epidemic hemorrhagic fever]. *Chung Hua Nei Ko Tsa Chih* 1990 Mar;29(3):138-40, 188. (Chi).
- Wang HT, Xu ZK, Wei YB, Li WH, Tu XL, Wang MX. [Comparison of a capture-ELISA and a ELISA indirect sandwich method in detection of IgM antibody in HFRS patient's sera]. *Ti 4 Chun I Ta Hsueh Hsueh Pao* 1990; 3(11):115-7. (Chi).
- Wang M, Pennock DG, Spik KW, Schmaljohn CS. Epitope mapping studies with neutralizing and non-neutralizing monoclonal antibodies to the G1 and G2 envelope glycoproteins of Hantaan virus. *Virology* 1993 Dec; 197(2):757-66.
- Wang M, Rossi C, Schmaljohn CS. Expression of non-conserved regions of the S genome segments of three hantaviruses: evaluation of the expressed polypeptides for diagnosis of haemorrhagic fever with renal syndrome. *J Gen Virol* 1993 Jun;74(Pt 6):1115-24.
- Wang SQ, Feng M, Yang L. [Electron microscopic study on the petechial hemorrhagic spots in patients with epidemic hemorrhage fever (EHF)]. *Chung-hua Ping Li Hsueh Tsa Chih* 1994 Dec;23(6):361-3. (Chi).
- Wang X, Dong C, Xiang J. [Studies on the anion gap of epidemic hemorrhagic fever V. Effects of intravenous ribavirin therapy on the changes of anion gap of patients with epidemic hemorrhagic fever]. *Acta Acad Med Hubei* 1994;15(3):247-9. (Chi).
- Wang X, et al., [Studies on anion gap of epidemic hemorrhagic fever I. The kinetic alterations of anion gap of EHF]. *Acta Acad Med Hubei* 1990;11(4):285-9. (Chi).
- Wang X, et al. [Studies on anion gap of epidemic hemorrhagic fever I. The mechanism and clinical value of the decrease of anion gap in EHF]. *Acta Acad Med Hubei* 1991;12(1):1-4. (Chi).
- Wang Z, Xing S, Li P. [A light-microscopic and immunohistochemical study in testis tissue from hemorrhagic fever with renal syndrome autopsies]. *Chung Hua I Hsueh Tsa Chih* 1995 Mar;75(3):147-8, 189-90. (Chi).
- Wangel AG, Temonen M, Brummer-Korvenkontio M, Väheri A. Anti-endothelial cell antibodies in nephropathia epidemica and other viral diseases. *Clin Exp Immunol* 1992 Oct;90(1):13-7.
- Warner GS. Hantavirus illness in humans: review and update. *South Med J* 1996 Mar;89(3):264-71.
- Weigler BJ. Zoonotic hantaviruses; new concerns for the United States. *J Am Vet Med Assoc* 1995 Apr 1; 206(7): 979-86.
- Weissenbacher MC, Merani MS, Hodara VL, de Villafane G, Gajdusek DC, Chu YK, Lee HW. Hantavirus infection in laboratory and wild rodents in Argentina. *Medicina (B Aires)* 1990;50(1):43-6.
- Wenzel RP. A new hantavirus infection in North

- America [editorial]. *N Engl J Med* 1994 Apr 7;330(14):1004-5. Comment on: *N Engl J Med* 1994 Apr 7;330(14):949-55.
- Wiecek A, Zeier M, Ritz E. Role of infection in the genesis of acute renal failure. *Nephrol Dial Transplant* 1994; 9 Suppl 4:40-4.
- Wiger D, Borsting IE, Mehl R, Niklasson B, Berdal BP. [Early serological diagnosis of nephropathia epidemica]. *Tidsskr Nor Laegeforen* 1991 Nov 10;111(27):3279-82. (Nor).
- Wilson C, Hjelle B, Jenison S. Probable hantavirus pulmonary syndrome that occurred in New Mexico in 1975 [letter]. *Ann Intern Med* 1994 May 1;120(9):813.
- Wilson ML, Tesh RB, Fish D, Gerber MA, Magnarelli LA, Feder HM Jr, Shapiro ED. Evidence of hantavirus infection in rodents and human beings from Connecticut and New York, USA [letter]. *Lancet* 1995 Mar 18; 345(8951):738.
- Wolf C, Michel N, Ottavioli JN, Dion JJ, Favriel JM. [Epidemiology of hemorrhagic fever with renal syndrome in the Ardennes region (letter)]. *Presse Med* 1990 Sep 15; 19(29):1369. (Fre).
- World Health Organization, Regional Office for the Western Pacific, Working Group on the Development of a Rapid Diagnostic Method and Vaccine for Haemorrhagic Fever with Renal Syndrome. Report; 1991 Sep 26-8; Seoul. Manila: The Regional Office; 1992. 18 p.
- Wu G. [Leptotrombiculum scutellare in transmission of epidemic hemorrhagic fever virus]. *Chung Hua I Hsueh Tsa Chih (Taipei)* 1992 Aug;72(8):481-3, 510. (Chi).
- Wu G, Li F, Li P, Li J, Ruan C. Detection of activated platelets using activation-dependent monoclonal antibody (SZ-51) in clinical disorders. *Nouv Rev Fr Hematol* 1992; 34(1):31-5.
- Wu GH. [Progress in the study on the transmission routes of epidemic hemorrhagic fever]. *Chung Hua Liu Hsing Ping Hsueh Tsa Chih* 1995 Apr;16(3):171-4. (Chi).
- Wu TN, Chin C, Shen CY, Chang PY. Hantavirus infection in Taiwan [letter]. *Lancet* 1996 Mar 16; 347(9003):770-1.
- Xiang LB, Zhang ZY, Chen JM, Xiang JM, Cosgriff TM. Epidemic hemorrhagic fever. The mechanism of coagulation and fibrinolysis. *Chin Med J (Engl)* 1990 May;103(5):391-5.
- Xiao S, Qi T, Li C, et al. [Direct ELISA for the early diagnosis of HFRS]. *Hsi An I Ko Ta Huseh Hsueh Pao* 1992;13(3):237-40. (Chi).
- Xiao SY, Chu YK, Knauert FK, Loftis R, Dalrymple JM, LeDuc JW. Comparison of hantavirus isolates using a genus-reactive primer pair polymerase chain reaction. *J Gen Virol* 1992 Mar;73(Pt 3):567-73. Published erratum appears in *J Gen Virol* 1992 Jun;73(Pt 6):1601.
- Xiao SY, Diglisic G, Avsic-Zupanc T, LeDuc JW. Dobrava virus as a new hantavirus: evidenced by comparative sequence analysis. *J Med Virol* 1993 Feb;39(2):152-5.
- Xiao SY, Leduc JW. Direct amplification of hantaviruses from human serum by polymerase chain reaction [abstract]. *Am J Trop Med Hyg* 1991;64(3 Suppl):174. 40th Annual Meeting of the American Society of Tropical Medicine and Hygiene; 1991 Dec 1-5; Boston.
- Xiao SY, Leduc JW, Chu Yong Kyu, Schmaljohn CS. Phylogenetic analyses of virus isolates in the genus Hantavirus, family Bunyaviridae. *Virology* 1994; 198(1):205-17.
- Xiao SY, Liang M, Schmaljohn CS. Molecular and antigenic characterization of HV114, a hantavirus isolated from a patient with haemorrhagic fever with renal syndrome in China. *J Gen Virol* 1993 Aug;74(Pt 8):1657-9.
- Xiao SY, Spik KW, Li D, Schmaljohn CS. Nucleotide and deduced amino acid sequences of the M and S genome segments of two Puumala virus isolates from Russia. *Virus Res* 1993 Oct;30(1):97-103.
- Xiao SY, Yanagihara R, Godec MS, Eldadah ZA, Johnson BK, Gajdusek DC, Asher DM. Detection of hantavirus RNA in tissues of experimentally infected mice using reverse transcriptase-directed polymerase chain reaction. *J Med Virol* 1991 Apr;33(4):277-82.
- Xing R, Yi X, Guang-Min L, Yuan-Wen W. Naloxone for haemorrhagic fever shock? [letter]. *Trop Doct* 1990 Apr; 20(2):72-3.
- Xiong HB. [The cohort study on HFRSV antibody variation in normal population of an epidemic area]. *Chung Hua Liu Hsing Ping Hsueh Tsa Chih* 1990 Aug;11(4):209-11. (Chi).
- Xiong JG. [A ten-year retrospective investigation of serum against EHF antibodies in Nanchong District, Sichuan]. *Chung Hua Yu Fang I Hsueh Tsa Chih* 1990 Nov;24(6): 354-5. (Chi).
- Xu H. [Preliminary establishment of hybridoma secreting monoclonal anti-idiotypic antibodies to hemorrhagic fever with renal syndrome virus]. *Chung Hua I Hsueh Tsa Chih (Taipei)* 1990 Apr;70(4):214-7. (Chi).
- Xu H, Liu JB, Wang MX, Xue CF, An XL. [Detection of specific antigen receptors on peripheral blood lymphocytes from HFRS patients by monoclonal anti-idiotypic antibodies]. *Ti 4 Chun I Ta Hsueh Hsueh Pao* 1990;3(11):157. (Chi).
- Xu H, Wang MX, Xue CF, An XL. [Detection of antibodies to HFRS virus by enzyme-labelled

- monoclonal antibodies against immunoglobulin]. *Ti 4 Chun I Ta Hsueh Hsueh Pao* 1990;3(11):156. (Chi).
- Xu H, Yang W, Cui L. [The study on ELISA methods for detection of specific antibodies against hemorrhagic fever with renal syndrome virus in rat sera]. *Chung Hua Liu Hsing Ping Hsueh Tsa Chih* 1994 Aug;15(4):227-30. (Chi).
- Xu HF, Yang WS, Liang Z. [Preparation and antigenic characterization of rat monoclonal antibodies against hemorrhagic fever with renal syndrome virus]. *Chung Hua I Hsueh Tsa Chih* 1994 Apr;74(4):231-4, 255-6. (Chi).
- Xu X, Ruo SL, McCormick JB, Fisher-Hoch SP. Immunity to hantavirus challenge in *Meriones unguiculatus* induced by vaccinia-vectored viral proteins. *Am J Trop Med Hyg* 1992 Oct;47(4):397-404.
- Xu XA, Ruo SL, Tang YW, Fisher-Hoch SP, McCormick JB. Molecular characterization and expression of glycoprotein gene of hantavirus R22 strain isolated from *Rattus norvegicus* in China. *Virus Res* 1991 Sep;21(1): 35-52.
- Xu XT, Jing PT, Wang CL. [Clinical study and immunological observation on potenlini treatment of epidemic hemorrhage fever]. *Chung Hua Nei Ko Tsa Chih* 1990 Dec;29(12):739-41, 766. (Chi).
- Yamada T, Hjelle B, Lanzi R, Morris C, Anderson B, Jenison S. Antibody responses to Four Corners hantavirus infections in the deer mouse (*Peromyscus maniculatus*): identification of an immunodominant region of the viral nucleocapsid protein. *J Virol* 1995 Mar;69(3): 1939-43.
- Yanagihara R. Hantavirus infection in the United States: epizootiology and epidemiology. *Rev Infect Dis* 1990 May-Jun;12(3):449-57.
- Yanagihara R, Silverman DJ. Experimental infection of human vascular endothelial cells by pathogenic and nonpathogenic hantaviruses. *Arch Virol* 1990;111(3-4): 281-6.
- Yang CW, Bang BK. [Changes of serum levels of tumor necrosis factor-alpha in patients with hemorrhagic fever with renal syndrome]. *Katollik Taehak Uihakpu Nonmunjip* 1992;45(3):819-30. (Kor).
- Yang DL, et al. [Specific IGE type and IGD type circulating immune complexes in sera of patients with epidemic hemorrhagic fever]. *Chung Hua Wei Sheng Wu Hsueh Ho Mieh I Hsueh Tsa Chih* 1993;13(3):137-9. (Chi).
- Yang S, et al. [The alteration and clinical significance of determination on SGOT in epidemic hemorrhagic fever]. *Acta Acad Med Hubei* 1991;12(3):238-40. (Chi).
- Yang S, Liu Y, Zhang J, Shang G, Yan P, Hu M. [In situ hybridization detection of hantavirus M and S RNA in autopsy tissues of the patients with hemorrhagic fever with renal syndrome]. *Virol Sin* 1995;10(1):48-55. (Chi).
- Yang SJ, Lin YF, Han YP, Xiu ZK. [Viral inclusion bodies in the autopsy tissues of patients with epidemic hemorrhagic fever]. *Virol Sin* 1992;7(3):246-52. (Chi).
- Yang WS, Yao ZQ, Zhang WB, Bai XF. [Localization of epidemic hemorrhagic fever virus in central nervous system of epidemic hemorrhagic fever patients]. *Ti 4 Chun I Ta Hsueh Hsueh Pao* 1990;3(11):112-4. (Chi).
- Yang Z. [Serotyping of patients with epidemic hemorrhagic fever (EHF) and serotyping and antigen typing of main hosts of EHF in Shandong province]. *Chung Hua Liu Hsing Ping Hsueh Tsa Chih* 1993 Feb;14(1):41-4. (Chi).
- Yang Z, et al. [Report of the oliguria phase laboratory results and manifestation of 15 cases with EHF]. *Acta Acad Med Hubei* 1990;11(1):48-51. (Chi).
- Yang Z, Huggins JW, Smith JL. [Characteristics of the propagation of epidemic hemorrhagic fever virus Hantaan virus in vero-E-6 cells]. *Acta Acad Med Hubei* 1991; 12(4):308-11. (Chi).
- Yang Z, Li Z, Yang P, Liu W, Zhao W, Li D, Hang C. [Detection of the epidemic hemorrhagic fever virus (hantavirus) RNA genome with a biotin-labeled probe by dot hybridization]. *Bingduxue Zazhi* 1991;6(4):320-3. (Chi).
- Yang ZQ, Zhang TM, Zhang MV, Zheng ZM, Hu ZJ, Qu CF, Xiang JM, Huggins JW, Cosgriff TM, Smith JL. Interruption study of viremia of patients with hemorrhagic fever with renal syndrome in the febrile phase. *Chin Med J (Engl)* 1991 Feb;104(2):149-53.
- Yao JS, Arikawa J, Kariwa H, Yoshimatsu K, Takashima I, Hashimoto N. Effect of neutralizing monoclonal antibodies on Hantaan virus infection of the macrophage P388D1 cell line. *Jpn J Vet Res* 1992 Sep;40(2-3):87-97.
- Yao JS, Kariwa H, Takashima I, Yoshimatsu K, Arikawa J, Hashimoto N. Antibody-dependent enhancement of hantavirus infection in macrophage cell lines. *Arch Virol* 1992;122(1-2):107-18.
- Yao XJ, et al. [Antibody-dependent enhancement of EHF virus infection in cultured lymphocytes and macrophages]. *Chung Hua Wei Sheng Wu Hsueh Ho Mieh I Hsueh Tsa Chih* 1992;12(4):210-3. (Chi).
- Yao Z, Yu Y, Zhao H, et al. [Characterization of a virus strain isolated from HFRS patient's liver biopsy]. *Chung Hua Wei Sheng Wu Hsueh Ho Mieh I Hsueh Tsa Chih* 1995;15(2):110-2. (Chi).
- Yi JD. [Study of the cultured human endothelial cells infected by epidemic hemorrhagic fever virus]. *Chung Hua Ping Li Hsueh Tsa Chih* 1992

- Jun;21(3):177-9. (Chi).
- Yi X, Xing S. [Distribution of HFRSV antigen in old paraffin sections from autopsy specimens by immunohistochemical methods]. *Acta Acad Med Hubei* 1991;12(2):126-9. (Chi).
- Yi XP, Xing SF. [The distribution of epidemic hemorrhagic fever (EHF) viral antigen in tissues from EHF autopsies]. *Chung Hua Ping Li Hsueh Tsa Chih* 1991 Jun;20(2): 110-2. (Chi).
- Yoo KH, Choi Y. Haemorrhagic fever with renal syndrome in Korean children. *Korean Society of Pediatric Nephrology. Pediatr Nephrol* 1994 Oct;8(5):540-4.
- Yoo YC, Yoshimatsu K, Yoshida R, Tamura M, Azuma I, Arikawa J. Comparison of virulence between Seoul virus strain SR-11 and Hantaan virus strain 76-118 of hantaviruses in newborn mice. *Microbiol Immunol* 1993; 37(7):557-62.
- Yoshimatsu K, Arikawa J, Kariwa H. Application of a recombinant baculovirus expressing hantavirus nucleocapsid protein as a diagnostic antigen in IFA test: cross reactivities among 3 serotypes of hantavirus which causes hemorrhagic fever with renal syndrome (HFRS). *J Vet Med Sci* 1993 Dec;55(6):1047-50.
- Yoshimatsu K, Yoo YC, Yoshida R, Ishihara C, Azuma I, Arikawa J. Protective immunity of Hantaan virus nucleocapsid and envelope protein studied using baculovirus-expressed proteins. *Arch Virol* 1993; 130(3-4):365-76.
- Yu DP. [Therapy of epidemic hemorrhagic fever (editorial)]. *Chung Hua Nei Ko Tsa Chih* 1993 Nov;32(11):723. (Chi).
- Yu DP, Wang GQ, Liu MC. [A study on pathogenesis and therapy of hemorrhagic fever with renal syndrome]. *Chung Hua Nei Ko Tsa Chih* 1992 Mar;31(3):163-6, 189. (Chi).
- Yu YX, Liu WX, Nei ZL. [Neutralizing antibody responses in human immunized with M. gerbil kidney tissue culture inactivated HFRS vaccine assessed by two methods]. *Virol Sin* 1992;7(2):176-80. (Chi).
- Yuan J, Huggins WS, Guan MY. [The study of rapid calculation on clearance creatinine rate in normal and epidemic hemorrhagic fever]. *Chung Hua Nei Ko Tsa Chih* 1992 Nov;31(11):701-4, 731. (Chi).
- Yue JS, et al. [Preliminary study on the clinical classification of epidemic hemorrhagic fever in renal failure]. *Hsi An I Ko Ta Hsueh Hsueh Pao* 1990;11(1):59-62. (Chi).
- Zaki SR, Albers RC, Greer PW, Coffield LM, Armstrong LR, Khan AS, Khabbaz R, Peters CJ. Retrospective diagnosis of a 1983 case of fatal hantavirus pulmonary syndrome [letter]. *Lancet* 1994 Apr 23;343(8904):1037-8.
- Zaki SR, Greer PW, Coffield LM, Goldsmith CS, Nolte KB, Foucar K, Feddersen RM, Zumwalt RE, Miller GL, Khan AS, et al. Hantavirus pulmonary syndrome. Pathogenesis of an emerging infectious disease. *Am J Pathol* 1995 Mar; 146(3):552-79.
- Zeier M, Andrassy K, Zoller L, Ritz E. Hantavirus infection presenting as acute renal failure [letter]. *Lancet* 1990 Dec 8;336(8728):1441-2. Comment in: *Lancet* 1991 Mar 2;337(8740):549-50.
- Zeier M, Clement J, LeFevre A, Dengler K, Andrassy K, Ritz E. Hantavirus and hemorrhagic fever with renal syndrome: epidemiological studies in southwest Germany [abstract]. *Kidney Int* 1990;37(4):1169. 20th Congress of the Society for Nephrology; 1989 Sep 17-20; Berne, Switzerland.
- Zeier M, Zoller L, Haussmann W, Andrassy K, Ritz E. [The clinical picture and therapy of Hantaan virus infection]. *Dtsch Med Wochenschr* 1990 Nov 2;115(44):1678-81. (Ger).
- Zeier M, Zoller L, Weinreich T, Padberg-Wolf E, Andrassy K, Ritz E. Severe hemorrhagic complications from infection with nephropathia epidemica strain of hantavirus. *Clin Nephrol* 1992 Oct;38(4):190-2.
- Zeitz PS. Research defines the hantavirus pulmonary syndrome [editorial]. *J Am Osteopath Assoc* 1993 Dec;93(12):1252, 1255. Comment on: *J Am Osteopath Assoc* 1993 Dec;93(12):1286-9; *J Am Osteopath Assoc* 1993 Dec;93(12):1279-85.
- Zeitz PS, Butler JC, Cheek JE, Samuel MC, Childs JE, Shands LA, Turner RE, Voorhees RE, Sarisky J, Rollin P, et al. Risk factors for hantavirus pulmonary syndrome (HPS) during an outbreak in the southwestern United States [abstract]. *Program Abstr Intersci Conf Antimicrob Agents Chemother* 1994;34:243. 34th Interscience Conference on Antimicrobial Agents and Chemotherapy; 1994 Oct 4-7; Orlando, FL.
- Zeitz PS, Butler JC, Cheek JE, Samuel MC, Childs JE, Shands LA, Turner RE, Voorhees RE, Sarisky J, Rollin PE, Ksiazek TG, et al. A case-control study of hantavirus pulmonary syndrome during an outbreak in the southwestern United States. *J Infect Dis* 1995;171(4): 864-70.
- Zhang G. [The cohort study on inapparent infection of HFRS in population of Apodemus-type endemic area and in that of Rattus-type endemic area]. *Chung Hua Liu Hsing Ping Hsueh Tsa Chih* 1993 Feb;14(1):30-3. (Chi).
- Zhang G. [Comparison study on distribution of two types of hemorrhagic fever with renal syndrome (HFRS)]. *Chung Hua Liu Hsing Ping Hsueh Tsa Chih* 1992 Oct;13(5): 268-70. (Chi).
- Zhang T, Huggins JW, Smith JI, et al. [Detection of epidemic hemorrhagic fever virus antigen using ELISA amplification system]. *Acta Acad Med Hubei* 1991;12(3): 236-8. (Chi).

- Zhang TM, Yang ZQ, Zhang MY, Hu ZJ, Xiang JM, Huggins JW, Cosgriff TM, Smith JI. Early analysis of viremia and clinical tests in patients with epidemic hemorrhagic fever. Chin Med J (Engl) 1993 Aug;106(8): 608-10.
- Zhang XF. [Epidemiological survey of epidemic haemorrhagic fever in Xianning County]. Chung Hua Yu Fang I Hsueh Tsa Chih 1990 Nov;24(6):351-3. (Chi).
- Zhang XJ. [Effects of epidemic hemorrhagic fever virus on the chemiluminescence of human mononuclear leukocytes and polymorphonuclear leukocytes]. Chung Hua Wei Sheng Wu Hsueh Ho Mieh I Hsueh Tsa Chih 1992;12(1): 16-9. (Chi).
- Zhang Y. [Study on natural infection, biting and transovarial transmission of epidemic haemorrhagic fever virus in Leptotrombicidium (L.) scutellare]. Chung Hua Liu Hsing Ping Hsueh Tsa Chih 1992 Feb;13(1):16-8. (Chi).
- Zhang Y. [Study on natural infection of epidemic haemorrhagic fever virus in Leptotrombicidium scutellare]. Chung Hua Yu Fang I Hsueh Tsa Chih 1990 Sep;24(5): 261-4. (Chi).
- Zhang Y, Tao KH, Zhao XZ. [Experimental studies on transmission of EHF in rodents]. Chung Hua Yu Fang I Hsueh Tsa Chih 1994 May;28(3):132-5. (Chi).
- Zhao HL, Wang MX, Jiang SZ. [Detection of hantavirus RNA with in situ hybridisation]. Ti 4 Chun I Ta Hsueh Hsueh Pao 1990;11(3):233-4. (Chi).
- Zhao HL, Wang MX, Jiang SZ. [Photobiotin - labelled hantaviruses cDNA probes made from M segment recombinant of R22 strain]. Ti 4 Chun I Ta Hsueh Hsueh Pao 1990;11(3):233. (Chi).
- Zhao HL, Wang MX, Jiang SZ, Liu JB, An JZ, Lu H, Liu JL. [Experimental diagnosis of HFRS with photobiotin- labelled CDNA probe]. Virol Sin 1991;6(3):214-8. (Chi).
- Zharskii SL. [The level of ionized calcium in the blood and parathyroid function in acute kidney failure in patients with hemorrhagic fever with renal syndrome]. Urol Nefrol (Mosk) 1993 Nov-Dec;(6):40-2. (Rus).
- Zheng X, Tang X, Su X. [Experimental study of inhibitory effect of the four traditional Chinese herb medicines on epidemic hemorrhagic fever virus]. Hu Nan I Ko Ta Hsueh Hsueh Pao 1993;18(2):165-7. (Chi).
- Zhihui Y, Hongkui Z, Guanmu D. [Study on hantavirus infected human embryonic liver cells in vitro]. Chung Hua Shih Yen Ho Lin Chuang Ping Tu Hsueh Tsa Chih 1995;9(1):19-21. (Chi).
- Zhou N, Ni DS, He H, Li YZ. [Study of EHFV directly activating complement C3 in-vitro]. Virol Sin 1991; 6(2):121-4. (Chi).
- Zhu P. [Viral antigen localization and morphologic observation of the blood vessels in the skin of patients with hemorrhagic fever with early stage renal syndrome]. Chung Hua I Hsueh Tsa Chih (Taipei) 1990 Jan;70(1): 41-3. (Chi).
- Zhu P, Yang WS. Effects of Hantaan virus on human endothelial cells and their significance in pathogenesis of hemorrhagic fever with renal syndrome. Chin Med J (Engl) 1991 Nov;104(11):924-9.
- Zhu ZY, Tang HY, Li YJ, Weng JQ, Yu YX, Zeng RF. Investigation on inactivated epidemic hemorrhagic fever tissue culture vaccine in humans. Chin Med J (Engl) 1994 Mar;107(3):167-70.
- Zhu ZY, Tang HY, Li YQ, Weng JQ, Fu GM, Yu YX, Yao XJ, Dong GM, An Q, et al. [Reactive observation of inactivated epidemic hemorrhagic fever vaccine in human test]. Virol Sin 1990;5(1):7-12. (Chi).
- Zhu ZY, Tang HY, Li YQ, Weng JQ, Luo QY, Li MH, Yu YX, Liu WX, Zeng RF, Shu HQ. [Observation on effect of secondary immunization with inactivated EHF vaccine]. Virol Sin 1992;7(4):404-7. (Chi).
- Zhu ZY, Zeng RF, Yu YX. [Efficacy of inactivated EHF vaccine used in clinical trial]. Virol Sin 1991;6(4):315-9. (Chi).
- Zoller L, Faulde M, Meisel H, Ruh B, Kimmig P, Schelling U, Zeier M, Kulzer P, Becker C, Roggendorf M, et al. Seroprevalence of hantavirus antibodies in Germany as determined by a new recombinant enzyme immunoassay. Eur J Clin Microbiol Infect Dis 1995 Apr; 14(4):305-13.
- Zoller L, Yang S, Gott P, Bautz EK, Darai G. Use of recombinant nucleocapsid proteins of the Hantaan and nephropathia epidemica serotypes of Hantaviruses as immunodiagnostic antigens. J Med Virol 1993 Mar;39(3): 200-7.
- Zoller L, Yang S, Zeyer M. Rapid diagnosis of haemorrhagic fever with renal syndrome due to hantavirus [letter]. Lancet 1991 Jul 20;338(8760):183. Comment on: Lancet 1991 Apr 20;337(8747):986.
- Zoller L, Zeier M. [The serological diagnosis of Hantaan virus infections]. Dtsch Med Wochenschr 1990 Nov 2;115(44):1674-7. (Ger).
- Zoller LG, Yang S, Gott P, Bautz EK, Darai G. A novel mu-capture enzyme-linked immunosorbent assay based on recombinant proteins for sensitive and specific diagnosis of hemorrhagic fever with renal syndrome. J Clin Microbiol 1993 May;31(5):1194-9.

NAIROVIRUS

Zon RT, Slama TG. Hantavirus pulmonary syndrome in Indiana. Indiana Med 1994 May-Jun;87(3):216-8.

Coates DM, Sweet C. Studies on the pathogenicity of a nairovirus, Dugbe virus, in normal and immuno-suppressed mice. J Gen Virol 1990 Feb;71(Pt 2):325-32.

Eley SM, Bruce LG , Delic JI, Henstridge RM, Moore NF. Nairoviruses characteristics and disease distribution. In: Kurstak E, et al., editors. Virus variability, epidemiology, and control. New York: Plenum; 1990. p. 335-54. (Applied virology research, vol. 2).

Feb;143(1):23-8.

- CRIMEAN-CONGO HEMORRHAGIC FEVER**
- Burt FJ, Leman PA, Abbott JC, Swanepoel R. Serodiagnosis of Crimean-Congo haemorrhagic fever. *Epidemiol Infect* 1994 Dec;113(3):551-62.
- Burt FJ, Swanepoel R, Braack LE. Enzyme-linked immunosorbent assays for the detection of antibody to Crimean-Congo haemorrhagic fever virus in the sera of livestock and wild vertebrates. *Epidemiol Infect* 1993 Dec;111(3):547-57.
- Butenko AM, Chumakov MP. Isolation of Crimean-Congo hemorrhagic fever virus from patients and from autopsy specimens. *Arch Virol Suppl* 1991;1:295-301.
- Camicas JL, Cornet JP, Gonzalez JP, Wilson ML, Adam F, Zeller HG. [Crimean-Congo hemorrhagic fever in Senegal. Latest data on the ecology of the CCHF virus]. *Bull Soc Pathol Exot* 1994;87(1):11-6. (Fre).
- Camicas JL, Wilson ML, Cornet JP, Digoutte JP, Calvo MA, Adam F, Gonzalez JP. Ecology of ticks as potential vectors of Crimean-Congo hemorrhagic fever virus in Senegal: epidemiological implications. *Arch Virol Suppl* 1991;1:303-22.
- Chapman LE, Wilson ML, Hall DB, LeGuenno B, Dykstra EA, Ba K, Fisher-Hoch SP. Risk factors for Crimean-Congo hemorrhagic fever in rural northern Senegal. *J Infect Dis* 1991 Oct;164(4):686-92.
- Dickson DL, Turell MJ. Replication and tissue tropisms of Crimean-Congo hemorrhagic fever virus in experimentally infected adult *Hyalomma truncatum* (Acar: Ixodidae). *J Med Entomol* 1992 Sep;29(5): 767-73.
- Durden LA, Logan TM, Wilson ML, Linthicum KJ. Experimental vector incompetence of a soft tick, *Ornithodoros sonrai* (Acari: Argasidae), for Crimean- Congo hemorrhagic fever virus. *J Med Entomol* 1993 Mar;30(2):493-6.
- Fisher-Hoch SP, Khan JA, Rehman S, Mirza S, Khurshid M, McCormick JB. Crimean Congo-haemorrhagic fever treated with oral ribavirin. *Lancet* 1995 Aug 19; 346(8973):472-5.
- Fisher-Hoch SP, McCormick JB, Swanepoel R, Van Middlekoop A, Harvey S, Kustner HG. Risk of human infections with Crimean-Congo hemorrhagic fever virus in a South African rural community. *Am J Trop Med Hyg* 1992 Sep;47(3):337-45.
- Fivaz B, Petney T, Horak I, editors. *Tick vector biology: medical and veterinary aspects*. Berlin: Springer-Verlag; 1992. 193 p.
- Gonzalez JP, Camicas JL, Cornet JP, Faye O, Wilson ML. Sexual and transovarian transmission of Crimean-Congo haemorrhagic fever virus in *Hyalomma truncatum* ticks. *Res Virol* 1992 Jan;143(1):152. 40th annual meeting of the American Society of Tropical Medicine and Hygiene; 1991 Dec 1-5; Boston.
- Gonzalez JP, Camicas JL, Zeller HG, Cornet JP, Some J, Wilson ML. Replication and persistence of Crimean- Congo hemorrhagic fever virus in two species of West African ticks [abstract]. *Am J Trop Med Hyg* 1991; 45(3 Suppl):152. 40th annual meeting of the American Society of Tropical Medicine and Hygiene; 1991 Dec 1-5; Boston.
- Gonzalez JP, Cornet JP, Wilson ML, Camicas JL. Crimean-Congo haemorrhagic fever virus replication in adult *Hyalomma truncatum* and *Amblyomma variegatum* ticks. *Res Virol* 1991 Nov-Dec;142(6):483-8.
- Gonzalez JP, LeGuenno B, Guillaud M, Wilson ML. A fatal case of Crimean-Congo haemorrhagic fever in Mauritania: virological and serological evidence suggesting epidemic transmission. *Trans R Soc Trop Med Hyg* 1990 Jul-Aug;84(4):573-6.
- Gonzalez JP, Wilson ML, Cornet JP, Camicas JL. Host-passage-induced phenotypic changes in Crimean- Congo hemorrhagic fever virus. *Res Virol* 1995;146(2): 131-40.
- Gordeyeva ZYe, Kostyukov MA, Vyshemirskiy OI, Volkova TV. [Isolation of Crimean hemorrhagic fever virus from blood of farm animals]. *Zdravookhr Tadzh* 1990;(3):75-7. (Rus).
- Gordon SW, Linthicum KJ, Moulton JR. Transmission of Crimean-Congo hemorrhagic fever virus in two species of *Hyalomma* ticks from infected adults to cofeeding immature forms. *Am J Trop Med Hyg* 1993 Apr;48(4): 576-80.
- Kaul HN, Shetty PS, Ghalsasi GR, Dhanda V. Survey of ticks (Acarina: Ixodidae) for Crimean haemorrhagic fever virus activity in Jammu & Kashmir state, India. *Indian J Med Res* 1990 Jan;91:5-8.
- Linthicum KJ, Logan TM. Feeding nymphs of *Hyalomma truncatum* (Acar: Ixodidae) on guinea pigs previously exposed to nymphs. *J Med Entomol* 1993;30(6):1064-7.
- Lofts RS, Hodgson LA, Ksiazek TG, Smith JF. Comparative sequence analysis of the S segment RNA from seven strains of CCHF virus and development of a PCR-based diagnostic system [abstract]. *Am J Trop Med Hyg* 1991; 64(3 Suppl):173. 40th annual meeting of the American Society of Tropical Medicine and Hygiene; 1991 Dec 1-5; Boston.
- Logan TM, Linthicum KJ, Bailey CL, Watts DM, Dohm DJ, Moulton JR. Replication of Crimean-Congo hemorrhagic fever virus in four species of ixodid ticks (Acar) infected experimentally. *J Med Entomol* 1990 Jul;27(4):537-42.
- Logan TM, Linthicum KJ, Moulton JR, Ksiazek TG. Antigen-capture enzyme-linked immunosorbent assay for detection and quantification of

- Crimean-Congo hemorrhagic fever virus in the tick, *Hyalomma truncatum*. *J Virol Methods* 1993 Apr;42(1):33-44.
- Markeshin Sla, Smirnova SE, Evstafev IL. [An assessment of the status of natural foci of Crimean-Congo hemorrhagic fever in the Crimea]. *Zh Mikrobiol Epidemiol Immunobiol* 1992 Apr;(4):28-31. (Rus).
- Markeshin Sla, Smirnova SE, Evstafev IL. [An evaluation of the status of natural foci of Crimean-Congo hemorrhagic fever in the Crimea]. *Zh Mikrobiol Epidemiol Immunobiol* 1991 Sep;(9):47-50. (Rus).
- Marriott AC, Nuttall PA. Comparison of the S RNA segments and nucleoprotein sequences of Crimean-Congo hemorrhagic fever, Hazara, and Dugbe viruses. *Virology* 1992 Aug;189(2):795-9.
- Marriott AC, Polyzoni T, Antoniadis A, Nuttall PA. Detection of human antibodies to Crimean-Congo hemorrhagic fever virus using expressed viral nucleocapsid protein. *J Gen Virol* 1994 Sep;75(Pt 9): 2157-61.
- Marriott AC, Ward VK, Higgs S, Nuttall PA. RNA probes detect nucleotide sequence homology between members of two different nairovirus serogroups. *Virus Res* 1990 Apr;16(1):77-81.
- Morrill JC, Soliman AK, Imam IZ, Botros BA, Moussa MI, Watts DM. Serological evidence of Crimean-Congo haemorrhagic fever viral infection among camels imported into Egypt. *J Trop Med Hyg* 1990 Jun; 93(3):201-4.
- Okorie TG. Comparative studies on the vector capacity of the different stages of *Amblyomma variegatum* Fabricius and *Hyalomma rufipes* Koch for Congo virus, after intracoelemic inoculation. *Vet Parasitol* 1991 Mar; 38(2-3):215-23.
- Oldfield EC 3d, Wallace MR, Hyams KC, Yousif AA, Lewis DE, Bourgeois AL. Endemic infectious diseases of the Middle East. *Rev Infect Dis* 1991 Jan-Feb;13 Suppl 3: S199-217. Comment in: *Rev Infect Dis* 1991 Sep-Oct; 13(5):1028-9. Published erratum appears in *Rev Infect Dis* 1991 May-Jun;13(3):533.
- Rechau Y. Ecology of the vectors of Crimean-Congo haemorrhagic fever in southern Africa. In: Dusbarek F, Bukva V, editors. *Modern acarology*. Vol. 2. 8th International Congress of Acarology; 1990 Aug 6-11; Ceske Budejovice, Czechoslovakia. The Hague: SPB Academic Publishing BV; 1991. p. 93-9.
- Scrimgeour EM. Crimean-Congo haemorrhagic fever in Oman [letter]. *Lancet* 1996 Mar 9;347(9002):692.
- Shepherd AJ, Swanepoel R, Shepherd SP, Leman PA, Mathee O. Viraemic transmission of Crimean-Congo haemorrhagic fever virus to ticks. *Epidemiol Infect* 1991 Apr;106(2):373-82.
- Smirnova SE, Karavanov AS, Zimina IuV, Sedova AG. [The virus carriage of ticks, vectors of the causative agent of Crimean hemorrhagic fever]. *Med Parazitol (Mosk)* 1991 Jan-Feb; (1):32-4. (Rus).
- Smirnova SE, Sedova AG, Zimina IuV, Karavanov AS. [Cases of Crimean-Congo hemorrhagic fever in Astrakhan Province]. *Vopr Virusol* 1990 May-Jun; 35(3):228-31. (Rus).
- Smith JF, Hodgson LA, Lofts RS. Sequence and genetic organization of the RNA segment of Crimean Congo hemorrhagic fever CCHF virus [abstract]. *Am J Trop Med Hyg* 1991;64(3 Suppl):177. 40th annual meeting of the American Society of Tropical Medicine and Hygiene; 1991 Dec 1-5; Boston.
- Tignor GH, Hanham CA. Ribavirin efficacy in an in vivo model of Crimean-Congo hemorrhagic fever virus (CCHF) infection. *Antiviral Res* 1993 Dec;22(4):309-25.
- Vassilenko SM, Vassilev TL, Bozadjiev LG, Bineva IL, Kazarov GZ. Specific intravenous immunoglobulin for Crimean-Congo haemorrhagic fever [letter]. *Lancet* 1990 Mar 31;335(8692):791-2.
- Vassilev T, Valchev V, Kazarov G, Razsukanova L, Vitanov T. A reference preparation for human immunoglobulin against Crimean/Congo hemorrhagic fever. *Biologics* 1991 Jan;19(1):57.
- Wilson ML, Gonzalez JP, Cornet JP, Camicas JL. Transmission of Crimean-Congo haemorrhagic fever virus from experimentally infected sheep to *Hyalomma truncatum* ticks. *Res Virol* 1991 Sep-Oct;142(5):395-404.
- Wilson ML, Gonzalez JP, LeGuenno B, Cornet JP, Guillaud M, Calvo MA, Digoutte JP, Camicas JL. Epidemiology of Crimean-Congo hemorrhagic fever in Senegal: temporal and spatial patterns. *Arch Virol Suppl* 1991;1: 323-40.
- Wilson ML, LeGuenno B, Guillaud M, Desoutter D, Gonzalez JP, Camicas JL. Distribution of Crimean-Congo hemorrhagic fever viral antibody in Senegal: environmental and vectorial correlates. *Am J Trop Med Hyg* 1990 Nov;43(5):557-66.
- Zeller HG, Cornet JP, Camicas JL. Crimean-Congo haemorrhagic fever virus infection in birds: field investigations in Senegal. *Res Virol* 1994 Mar-Apr; 145(2):105-9.
- Zeller HG, Cornet JP, Camicas JL. Experimental transmission of Crimean-Congo haemorrhagic fever virus by west African wild ground-feeding birds to *Hyalomma marginatum rufipes* ticks. *Am J Trop Med Hyg* 1994 Jun; 50(6):676-81.

RIFT VALLEY FEVER

- Adam F, Jouan A, Philippe B, Riou O, Digoutte JP. [Biological parameters of patients infected by the Rift Valley fever virus in Rosso (Mauritania) (letter)]. *Presse Med* 1992 Oct 31;21(36):1731. (Fre).
- Anderson GW Jr, Rosebrock JA, Johnson AJ, Jennings GB, Peters CJ. Infection of inbred rat strains with Rift Valley fever virus: development of a congenic resistant strain and observations on age-dependence of resistance. *Am J Trop Med Hyg* 1991 May;44(5):475-80.
- Anderson GW Jr, Slayter MV, Hall W, Peters CJ. Pathogenesis of a phleboviral infection (Punta Toro virus) in golden Syrian hamsters. *Arch Virol* 1990;114(3-4): 203-12.
- Arthur RR, el-Sharkawy MS, Cope SE, Botros BA, Oun S, Morrill JC, Shope RE, Hibbs RG, Darwish MA, Imam IZ. Recurrence of Rift Valley fever in Egypt. *Lancet* 1993 Nov 6;342(8880):1149-50.
- Davies FG. Rift Valley fever in the Sudan. *Trans R Soc Trop Med Hyg* 1990 Jan-Feb;84(1):141.
- Davies FG, Kilelu E, Linticum KJ, Pegram RG. Patterns of Rift Valley fever activity in Zambia. *Epidemiol Infect* 1992 Feb;108(1):185-91.
- Davies FG, Logan TM, Binepal Y, Jessen P. Rift Valley fever virus activity in East Africa in 1989. *Vet Rec* 1992 Mar 21;130(12):247-9.
- [Does Rift Valley fever threaten encroachment into the southern regions of the USSR? (editorial)]. *Vopr Virusol* 1991 Jan-Feb;36(1):82-3. (Rus).
- Freier JE, Logan TM, Linticum KJ. A geographic information system developed with global positioning and remote sensing techniques to analyze Rift Valley fever vector habitats in Kenya. *Am J Trop Med Hyg* 1992; 47(4 Suppl):138.
- House JA, Turell MJ, Mebus CA. Rift Valley fever: present status and risk to the Western Hemisphere. *Ann N Y Acad Sci* 1992 Jun 16;653:233-42.
- Jouan A, Adam F, Coulibaly I, Riou O, Philippe B, Ledru E, Lejan C, Merzoug NO, Ksiazek T, Leguenno B, et al. [Epidemic of Rift Valley fever in the Islamic republic of Mauritania. Geographic and ecological data]. *Bull Soc Pathol Exot* 1990;83(5):611-20. (Fre).
- Jouan A, Adam F, Riou O, Philippe B, Merzoug NO, Ksiazek T, Leguenno B, Digoutte JP. [Evaluation of indicators of health in the area of Trarza during the epidemic of Rift Valley fever in 1987]. *Bull Soc Pathol Exot* 1990;83(5):621-7. (Fre).
- Jouan A, Philippe B. [Rift Valley fever epidemiology and prophylactic measures]. *Trav Sci Cherch Serv Sante Armees* 1991;(12):295-6. (Fre).
- Jouan A, Philippe B, Riou O. [Clinical courses of Rift Valley fever during an epidemic in Mauritania]. *Trav Sci Cherch Serv Sante Armees* 1990; (11):301-2. (Fre).
- Jouan A, Riou O, Philippe B. [Rift Valley fever neurological forms]. *Trav Sci Cherch Serv Sante Armees* 1991;(12): 297-8. (Fre).
- Logan TM, Davies FG, Linticum KJ, Ksiazek TG. Rift Valley fever antibody in human sera collected after an outbreak in domestic animals in Kenya. *Trans R Soc Trop Med Hyg* 1992 Mar-Apr;86(2):202-3.
- Lomachenkova OA. [The clinico-epidemiological aspects of a study of Rift Valley fever]. *Zh Mikrobiol Epidemiol Immunobiol* 1992;(7-8):64-8. (Rus).
- Morrill JC, Czarnecki CW, Peters CJ. Recombinant human interferon-gamma modulates Rift Valley fever virus infection in the rhesus monkey. *J Interferon Res* 1991 Oct;11(5):297-304.
- Morrill JC, Jennings GB, Johnson AJ, Cosgriff TM, Gibbs PH, Peters CJ. Pathogenesis of Rift Valley fever in rhesus monkeys: role of interferon response. *Arch Virol* 1990; 110(3-4):195-212.
- Morvan J, Fontenille D, Saluzzo JF, Coulanges P. Possible Rift Valley fever outbreak in man and cattle in Madagascar. *Trans R Soc Trop Med Hyg* 1991 Jan-Feb; 85(1):108.
- Morvan J, Lesbordes JL, Rollin PE, Mouden JC, Roux J. First fatal human case of Rift Valley fever in Madagascar. *Trans R Soc Trop Med Hyg* 1992 May-Jun;86(3):320. Published erratum appears in *Trans R Soc Trop Med Hyg* 1992 Sep-Oct;86(5):466.
- Olaeye OD, Baigent CL, Mueller G, Tomori O, Schmitz H. Electron microscopic identification of Zinga virus as a strain of Rift Valley fever virus. *Res Virol* 1992 May-Jun; 143(3):215-8.
- Philippe B, Jouan A, Riou O, Coulibaly I. [Rift Valley fever control and management of an epidemic]. *Med Armees* 1990;18(8):527-30. (Fre).
- [Rift Valley fever]. *Wkly Epidemiol Rec* 1993 Oct 8; 68(41):300-1. (Fre).
- [Rift Valley fever]. *Wkly Epidemiol Rec* 1994 Mar 11; 69(10):74-6. (Fre).
- [Rift Valley fever]. *Wkly Epidemiol Rec* 1994 Aug 26; 69(34):258. (Fre).
- Rift Valley fever--Egypt, 1993. *MMWR Morb Mortal Wkly Rep* 1994 Sep 30;43(38):693, 699-700.
- Rippy MK, Topper MJ, Mebus CA, Morrill JC. Rift Valley fever virus-induced encephalomyelitis and hepatitis in calves. *Vet Pathol* 1992

Nov;29(6):495-502.

Wilson ML. Rift Valley fever virus ecology and the epidemiology of disease emergence. Ann N Y Acad Sci 1994 Dec 15;740:169-80.

Wilson ML, Chapman LE, Hall DB, Dykstra EA, Ba K, Zeller HG, Traore-Lamizana M, Hervy JP, Linthicum KJ. Rift Valley fever virus transmission in rural northern Senegal: human risk factors and potential vectors [abstract]. Am J Trop Med Hyg 1991;45(3 Suppl):257. 40th annual meeting of the American Society of Tropical Medicine and Hygiene; 1991 Dec 1-5; Boston.

Wilson ML, Chapman LE, Hall DB, Dykstra EA, Ba K, Zeller HG, Traore-Lamizana M, Hervy JP, Linthicum KJ, Peters CJ. Rift Valley fever in rural northern Senegal: human risk factors and potential vectors. Am J Trop Med Hyg 1994 Jun;50(6):663-75.

World Health Organization Collaborating Centre for Research and Training in Veterinary Epidemiology and Management. WHO/IZSTE consultation on recent developments in Rift Valley fever: with the participation of FAO and OIE; 1993 Sep 14-5; Civitella del Tronto, Italy. Geneva: The Organization; 1993. 23 p.

Zeller HG, Wilson ML, Schmidt EA, Thiongane Y, Cornet JP, Camicas JL, Gonzalez JP, Bessin R, Teou K, et al. Rift Valley fever virus activity in West Africa 1989-1991. Am J Trop Med Hyg 1991;45(3 Suppl):256-7.

FLAVIVIRUS INFECTIONS

Barrett ADT. Vaccines against flaviviruses. Curr Opin Infect Dis 1990;(3):374-9.

Coimbra TL, Nassar ES, Nagamori AH, Ferreira IB, Pereira LE, Rocco IM, Ueda-Ito M, Romano NS. Iguape: a newly recognized flavivirus from Sao Paulo State, Brazil. Intervirology 1993;36(3):144-52.

Gabrielsen B, Monath TP, Huggins JW, Kefauver DF, Pettit GR, Groszek G, Hollingshead M, Kirsi JJ, Shannon WM, Schubert EM, et al. Antiviral (RNA) activity of selected Amaryllidaceae isoquinoline constituents and synthesis of related substances. J Nat Prod 1992;55(11):1569-81.

Gabrielsen B, Phelan MJ, Barthel-Rosa L, See C, Huggins JW, Kefauver DF, Monath TP, Ussery MA, Chmurny GN, Schubert EM, et al. Synthesis and antiviral evaluation of N-carboxamidine-substituted analogues of 1-beta-D-ribofuranosyl-1,2,4-triazole-3-carboxamidine hydrochloride. J Med Chem 1992 Aug 21;35(17):3231-8.

Gritsun TS, Holmes EC, Gould EA. Analysis of flavivirus envelope proteins reveals variable domains that reflect their antigenicity and may determine their pathogenesis. Virus Res 1995 Mar;35(3):307-21.

Igarashi A. [Flavivirus infections in tropical areas]. Uirusu 1993 Jun;43(1):67-76. (Jpn).

Kles V, Michault A, Rodhain F, Mevel F, Chastel C. [A serological survey regarding Flaviviridae infections on the island of Reunion (1971-1989)]. Bull Soc Pathol Exot 1994;87(2):71-6. (Fre).

Monath TP. Flavivirus (yellow fever, dengue, and St. Louis encephalitis). In: Mandell GL, Douglas RG Jr, Bennett JE, editors. Principles and practice of infectious diseases. 3rd ed. New York: Churchill Livingstone Inc.; 1990. p. 1248-51.

Monath TP. Yellow fever and dengue--the interactions of virus, vector and host in the emergence of epidemic disease. Sem Virol 1994;5(2):133-45.

Pshenichnov VA, Krasnyanskii VP, Mikhailov VV. [Immunoglobulins in virological studies and in the prevention of some infections]. Vopr Virusol 1992; 37(4):178-80. (Rus).

Reiter P, Amador MA, Anderson RA, Clark GG. Short report: dispersal of Aedes aegypti in an urban area after blood feeding as demonstrated by rubidium-marked eggs. Am J Trop Med Hyg 1995;52(2):177-9.

Rey M. [Exotic arboviruses: what risks are there for the traveller?]. Gaz Med 1990;97(28):49-53. (Fre).

DENGUE

- Rice CM. Overview of flavivirus molecular biology and future vaccine development via recombinant DNA. *Southeast Asian J Trop Med Public Health* 1990 Dec; 21(4):670-7.
- Schlesinger JJ, Putnak JR, Eckels KH. New approaches to flavivirus vaccine development. *Biotechnology* 1992;20: 289-307.
- Seay AR. Alphavirus and flavivirus diseases. In: McKendall RR, Stroop WG, editors. *Handbook of neurovirology*. New York: Marcel Dekker, Inc.; 1994. p. 391-411. (Neurological disease and therapy, vol. 27).
- Slosek J. Aedes aegypti mosquitoes in the Americas: a review of their interactions with the human population. *Soc Sci Med* 1986;23(3):249-57.
- Tolou H, Pisano MR, Deubel V, Nicoli J. [Problems and perspectives in flavivirus vaccinology]. *Bull Inst Pasteur* 1992;90(1):11-29. (Fre).
- Akiyama J. Review of multicentre project to control DHF vectors by community participation in WHO, SEARO. *Trop Med* 1993;35(4):277-83.
- Balachandra K, Chimabutra K, Supromajakr P, Wasi C, Yamamoto T, Mukai T, Okuno T, Yamanishi K. High rate of reactivation of human herpesvirus 6 in children with dengue hemorrhagic fever [letter]. *J Infect Dis* 1994 Sep;170(3):746-8.
- Banik GB, Pal TK, Mandal A, Chakraborty MS, Chakravarti SK. Dengue hemorrhagic fever in Calcutta. *Indian Pediatr* 1994 Jun;31(6):685-7.
- Barrios NJ, Santiago PJ, Martin M, Fernandez A, Baez E, Varcarcel M. Management of dengue hemorrhagic fever (DHF) [abstract]. *Pediatr Res* 1995;37(4 Pt 2):156A. 105th Annual Meeting of the American Pediatric Society and the 64th Annual Meeting of the Society for Pediatric Research; 1995 May 7-11; San Diego.
- Bartholomeusz A, Tomlinson E, Wright PJ, Birch C, Locarnini S, Weigold H, Marcuccio S, Holan G. Use of a flavivirus RNA-dependent RNA polymerase assay to investigate the antiviral activity of selected compounds. *Antiviral Res* 1994 Aug;24(4):341-50.
- Bhakdi S, Kazatchkine MD. Pathogenesis of dengue: an alternative hypothesis. *Southeast Asian J Trop Med Public Health* 1990 Dec;21(4):652-7.
- Bhamarapravati N. International symposium on dengue and dengue hemorrhagic fever. Introduction. *Southeast Asian J Trop Med Public Health* 1990 Dec;21(4):634-5.
- Bhamarapravati N, Yoksan S. The clinical trial of trivalent dengue vaccine [abstract]. *Southeast Asian J Trop Med Public Health* 1990;21(4):709.
- Bhattacharjee N, Mukherjee KK, Chakravarti SK, Mukherjee MK, De PN, Sengupta M, Banik GB, Bhowmick P, Sinha SK, Chakraborty MS. Dengue haemorrhagic fever (DHF) outbreak in Calcutta-- 1990. *J Commun Dis* 1993 Mar; 25(1):10-4.
- Blok J, McWilliam SM, Butler HC, Gibbs AJ, Weiller G, Herring BL, Hemsley AC, Aaskov JG, Yoksan S, Bhamarapravati N. Comparison of a dengue-2 virus and its candidate vaccine derivative: sequence relationships with the flaviviruses and other viruses. *Virology* 1992 Apr;187(2):573-90.
- Branding-Bennett AD, Pinheiro F. Infectious diseases in Latin America and the Caribbean: Are they really emerging and increasing? *Emerg Infect Dis* [serial online] 1996 Jan-Mar [cited 1996 Jun 5];2(1):[7 screens]. Available from: National Center for Infectious Diseases, Centers for Disease Control and Prevention, Atlanta, GA. URL: <http://www.cdc.gov/ncidod/EID/eid.htm>

- Brandt WE. From the World Health Organization. Development of dengue and Japanese encephalitis vaccines. *J Infect Dis* 1990 Sep;162(3):577-83.
- Bray M, Lai CJ. Construction of intertypic chimeric dengue viruses by substitution of structural protein genes. *Proc Natl Acad Sci U S A* 1991 Nov 15;88(22):10342-6.
- Bray M, Lai CJ. Dengue virus premembrane and membrane proteins elicit a protective immune response. *Virology* 1991 Nov;185(1):505-8.
- Butthep P, Bunyaratvej A, Bhamaraprasat N. Dengue virus and endothelial cell: a related phenomenon to thrombocytopenia and granulocytopenia in dengue hemorrhagic fever. *Southeast Asian J Trop Med Public Health* 1993;24 Suppl 1:246-9.
- Cardosa MJ, Tio PH, Nimmannitya S, Nisalak A, Innis B. IgM capture ELISA for detection of IgM antibodies to dengue virus: comparison of 2 formats using hemagglutinins and cell culture derived antigens. *Southeast Asian J Trop Med Public Health* 1992 Dec;23(4):726-9.
- Cardosa MJ, Zuraini I. Comparison of an IgM capture ELISA with a dot enzyme immunoassay for laboratory diagnosis of dengue virus infections. *Southeast Asian J Trop Med Public Health* 1991 Sep;22(3):337-40.
- Caumes E, Santi C, Felix H, Bricaire F, Danis M, Gentilini M. [Cutaneous signs of dengue. Apropos of 3 cases]. *Bull Soc Pathol Exot* 1993;86(1):7-11. (Fre).
- Chainuvati T. Dengue haemorrhagic fever: a fascinating disease of Asia [editorial]. *J Gastroenterol Hepatol* 1990 Nov-Dec;5(6):700-1. Comment on: *J Gastroenterol Hepatol* 1990 Nov-Dec;5(6):664-8.
- Chan YC, Goh KT, Tan BT, Heng BH. Health system for dengue control in Singapore. *Trop Med* 1993; 35(4): 309-14.
- Chang CS, Harn MR, Nimmannitya S. [Clinical observation of 15 Thai children with dengue hemorrhagic fever]. *Kao Hsiung I Hsueh Ko Hsueh Tsa Chih* 1990 Mar;6(3): 131-6. (Chi).
- Chang DM, Shaio MF. Production of interleukin-1 (IL-1) and IL-1 inhibitor by human monocytes exposed to dengue virus. *J Infect Dis* 1994 Oct;170(4):811-7.
- Chang YC, Goh KT, Heng BH, Tan BT. Epidemiology of dengue in Singapore: current situation. *Trop Med* 1993;35(4):189-94.
- Chantharaksri U, Laoharoengpanya N, Malasit P, Innis BL. Time-dependent effects of dengue virus on platelets: a cyclooxygenase dependent mechanism [abstract]. *Southeast Asian J Trop Med Public Health* 1990;21(4): 706.
- Chaturvedi UC, Dhawan R, Khanna M, Mathur A. Breakdown of the blood-brain barrier during dengue virus infection of mice. *J Gen Virol* 1991 Apr;72(Pt 4):859-66.
- Chaturvedi UC, Mukerjee R, Dhawan R. Active immunization by a dengue virus-induced cytokine. *Clin Exp Immunol* 1994 May;96(2):202-7.
- Chen WJ, Chen SL, Fang AH. Phenotypic characteristics of dengue 2 virus persistently infected in a C6/36 clone of *Aedes albopictus* cells. *Intervirology* 1994;37(1):25-30.
- Cherian T, Ponnuraj E, Kuruvilla T, Kirubakaran C, John TJ, Raghupathy P. An epidemic of dengue haemorrhagic fever & dengue shock syndrome in & around Vellore. *Indian J Med Res* 1994 Aug;100:51-6.
- Chimelli L, Hahn MD, Netto MB, Ramos RG, Dias M, Gray F. Dengue: neuropathological findings in 5 fatal cases from Brazil. *Clin Neuropathol* 1990 May-Jun;9(3): 157-62.
- Chin CK. Outpatient management of dengue infection in the University Hospital, Kuala Lumpur. *Malays J Pathol* 1993 Jun;15(1):21-3.
- Chin CK, Kang BH, Liew BK, Cheah PC, Nair R, Lam SK. Protocol for out-patient management of dengue illness in young adults. *J Trop Med Hyg* 1993 Aug; 96(4):259-63.
- Chouhan GS, Rodrigues FM, Shaikh BH, Ilkal MA, Khangaro SS, Mathur KN, Joshi KR, Vaidhy NK. Clinical & virological study of dengue fever outbreak in Jalore city, Rajasthan 1985. *Indian J Med Res* 1990 Nov; 91:414-8.
- Chua MN, Molanida R, de Guzman M, Laberiza F. Prothrombin time and partial thromboplastin time as a predictor of bleeding in patients with dengue hemorrhagic fever. *Southeast Asian J Trop Med Public Health* 1993;24 Suppl 1:141-3.
- Chungue E, Laudon F, Glaziou P. Dengue and dengue haemorrhagic fever in French Polynesia: Current situation. *Trop Med* 1993;35(4):209-15.
- Chungue E, Poli L, Roche C, Gestas P, Glaziou P, Markoff LJ. Correlation between detection of plasminogen cross-reactive antibodies and hemorrhage in dengue virus infection. *J Infect Dis* 1994 Nov;170(5):1304-7.
- Chunsuttiwat S. Epidemiology and control of dengue hemorrhagic fever in Thailand [abstract]. *Southeast Asian J Trop Med Public Health* 1990;21(4):684-5.
- Cunningham R, Mutton K. Dengue haemorrhagic fever [letter]. *BMJ* 1991 May 4;302(6784):1083-4.
- De Pina JJ, Raphenon G, Morillon M, Fourcade L,

- Martet G, Touze JE. [Pathogenic approach of thrombopenia in dengue and its hemorrhagic complications]. Bull Soc Pathol Exot 1995;88(1):3-6. (Fre).
- Dengue. Wkly Epidemiol Rec 1990;65(6):43.
- Dengue. Wkly Epidemiol Rec 1990;65(10):74.
- [Dengue. Trinidad and Tobago]. Wkly Epidemiol Rec 1991;66(5):31. (Fre).
- Dengue and dengue haemorrhagic fever. Wkly Epidemiol Rec 1995 Aug 18;70(33):237-8.
- [Dengue fever (DF) and dengue haemorrhagic fever (DHF)]. Wkly Epidemiol Rec 1992;67(32):242. (Fre).
- Dengue haemorrhagic fever. Wkly Epidemiol Rec 1990; 65(2):11.
- [Dengue haemorrhagic fever (DHF). Increase in number of cases in the Americas 1980-1987]. Wkly Epidemiol Rec 1990 Jan 19;65(3):13-5. (Fre).
- Dengue hemorrhagic fever in Venezuela. Epidemiol Bull 1990;11(2):7-9.
- [Dengue type 3 infection. Nicaragua and Panama, October-November 1994]. Wkly Epidemiol Rec 1995 Feb 10;70(6):41-3. (Fre).
- Dengue type 3 infection--Nicaragua and Panama, October-November 1994. MMWR Morb Mortal Wkly Rep 1995 Jan 20;44(2):21-4.
- Dhawan R, Khanna M, Chaturvedi UC, Mathur A. Effect of dengue virus-induced cytotoxin on capillary permeability. J Exp Pathol (Oxford) 1990 Feb;71(1):83-8.
- Do QH, Vu TQH, Huynh TKL, Dinh QT, Duebel V. Dengue haemorrhagic fever in the South of Vietnam during 1975-1992 and its control strategy. Trop Med 1995;36(4):187-201.
- Duangchanda S, Tanaka M, Morita K, Rojanasuphot S, Igarashi A. Comparative nucleotide and deduced amino acid sequence of the envelope glycoprotein gene among three dengue virus type 2 strains isolated from patients with different disease severities in Maha Sarakham, northeast Thailand. Southeast Asian J Trop Med Public Health 1994 Jun;25(2):243-51.
- Ebrahim GJ. Dengue and dengue haemorrhagic fever [editorial]. J Trop Pediatr 1993 Oct;39(5):262-3.
- Eckels KH. Dengue virus infections vaccines and immunization strategies. In: Kurstak E, editor. Control of virus diseases. 2nd ed. New York: Marcel Dekker; 1993. p. 343-9.
- Eckels KH, Dubois DR, Summers PL, Schlesinger JJ, Shelly M, Cohen S, Zhang YM, Lai CJ, Kurane I, Rothman A, et al. Immunization of monkeys with baculovirus-dengue type-4 recombinants containing envelope and nonstructural proteins: evidence of priming and partial protection. Am J Trop Med Hyg 1994 Apr;50(4):472-8.
- Eckels KH, Hoke CH, Henchal EA, Dubois DR, Vaughn DW, Innis BL, Rice R, Kraselburd EG, French GH, Marchette NJ. Dengue virus live-attenuated vaccine strategy identification of acceptable candidate monotypic vaccines [abstract]. Am J Trop Med Hyg 1992;47(4 Suppl):99. 41st Annual Meeting of the American Society of Tropical Medicine and Hygiene; 1992 Nov 15-9; Seattle, WA.
- Edelman R, Tacket CO, Vaughn DW, Eckels KH, Dubois DR, Summers PL, Rice RM, Hoke CH. Phase I trial of dengue-1 live-attenuated vaccines strain 45AZ5 [abstract]. Am J Trop Med Hyg 1992;47(4 Suppl):99. 41st Annual Meeting of the American Society of Tropical Medicine and Hygiene; 1992 Nov 15-9; Seattle, WA.
- Edelman R, Tacket CO, Wasserman SS, Vaughn DW, Eckels KH, Dubois DR, Summers PL, Hoke CH. A live attenuated dengue-1 vaccine candidate (45AZ5) passaged in primary dog kidney cell culture is attenuated and immunogenic for humans. J Infect Dis 1994 Dec;170(6): 1448-55.
- Enderlin S, Hess C. [Fever, headache, diarrhea (clinical conference)]. Schweiz Rundsch Med Prax 1992 Feb 25;81(9):266-9. (Ger).
- [Epidemiology of dengue fever/dengue haemorrhagic fever]. Wkly Epidemiol Rec 1990 Apr 6;65(14):104-6. (Fre).
- Fagbami AH, Mataika JU, Shrestha M, Gubler DJ. Dengue type 1 epidemic with haemorrhagic manifestations in Fiji, 1989-90. Bull World Health Organ 1995;73(3):291-7.
- Figueiredo LT, Cavalcante SM, Simoes MC. Dengue serologic survey of schoolchildren in Rio de Janeiro, Brazil, in 1986 and 1987. Bull Pan Am Health Organ 1990;24(2):217-25.
- Figueiredo LTM. [Aspects of dengue virology, history, physiopathology and control]. Medicina (Sao Paulo) 1991;24(2):111-21. (Por).
- Figueiredo LTM, Owa MA, Carlucci RH, Fabbri ALD, Mello NVD, Capuano DM, Santilli MB. [Dengue serological survey in Ribeirao Preto, Sao Paulo, Brazil]. Bol Oficina Sanit Panam 1995;118(6):499-509. (Spa).
- Figueiredo LTM, Owa MA, Carlucci RH, dal Fabbro AL, de Mello NV, Capuano DM, Santilli MB. Dengue serologic survey in Ribeirao Preto, Sao Paulo, Brazil. Bull Pan Am Health Organ 1995 Mar;29(1):59-69.
- Fong MY, Koh CL, Samuel S, Pang T, Lam SK.

- Nucleotide sequences of the nonstructural protein NS1 gene of three dengue-2 viruses, M1, M2 and M3, isolated in Malaysia from patients with dengue haemorrhagic fever, dengue shock syndrome and dengue fever, respectively. *Nucleic Acids Res* 1990 Mar 25;18(6):1642.
- Fouque F, Reynes JM, Moreau JP. Dengue in French Guiana, 1965-1993. *Bull Pan Am Health Organ* 1995;29(2):147-55.
- From the Centers for Disease Control and Prevention. Imported dengue--United States, 1993-1994. *JAMA* 1995 Jul 12;274(2):113.
- Funahara Y, Harun SR, Nathin MA, Tamela LA, Setiabudy-Dharma R, Sumarmo PS. One of the causes of recurrent shock in dengue hemorrhagic fever [abstract]. *Southeast Asian J Trop Med Public Health* 1990;21(4): 697.
- Funahara Y, Shirahata A, Sumarmo PS, Setiabudy-Dharma R, Setiabudy R, Harun SR, Nathin MA, Karjomanggolo TW, Tamela LA. Activation of coagulation-fibrinolytic system and some clinical symptoms of dengue hemorrhagic fever (DHF) [abstract]. *Southeast Asian J Trop Med Public Health* 1990;21(4):704.
- Garcia S, Morales R, Hunter RF. Dengue fever with thrombocytopenia: studies towards defining vulnerability of bleeding. *Bol Asoc Med P R* 1995 Jan-Feb;87(1-2): 2-7.
- George R, Lam SK. Clinical manifestations of DHF seen in University Hospital, Kuala Lumpur. *Virus Inf Exch News South East Asia West Pac* 1992;9(2):53.
- Glaziou P, Chungue E, Gestas P, Soulignac O, Couter JP, Plichart R, Roux JF, Poli L. Dengue fever and dengue shock syndrome in French Polynesia. *Southeast Asian J Trop Med Public Health* 1992 Sep;23(3):531-2.
- Gomez Dantes H. [Dengue in the Americas. A problem of regional health]. *Salud Publica Mex* 1991 Jul-Aug; 33(4):347-55. (Spa).
- Gratz NG. Lessons of Aedes aegypti control in Thailand. *Med Vet Entomol* 1993 Jan;7(1):1-10.
- Gratz NG. What must we do to effectively control Aedes aegypti. *Trop Med* 1993;35(4):243-51.
- Green S, Kurane I, Edelman R, Tacket CO, Eckels KH, Vaughn DW, Hoke CH Jr, Ennis FA. Dengue virus-specific human CD4+ T-lymphocyte responses in a recipient of an experimental live-attenuated dengue virus type 1 vaccine: bulk culture proliferation, clonal analysis, and precursor frequency determination. *J Virol* 1993 Oct;67(10):5962-7.
- Grist NR. Aedes albopictus: the tyre-travelling tiger [editorial]. *J Infect* 1993 Jul;27(1):1-4. Published erratum appears in *J Infect* 1994 May;28(3):336.
- Gubler DJ. Community-based prevention and control of dengue-dengue hemorrhagic fever [abstract]. *Am J Trop Med Hyg* 1991;45(3 Suppl):290-1. 40th Annual Meeting of the American Society of Tropical Medicine and Hygiene; 1991 Dec 1-5; Boston, MA.
- Gubler DJ. Dengue haemorrhagic fever: a global update. *Virus Inf Exch News South East Asia West Pac* 1991;8(1):2-3.
- Gubler DJ. Perspectives on the prevention and control of dengue hemorrhagic fever. *Kao Hsiung I Hsueh Ko Hsueh Tsa Chih* 1994 Dec;10 Suppl:S15-8.
- Gubler DJ, Casta-Valez A. [A program for prevention and control of epidemic dengue and dengue hemorrhagic fever in Puerto Rico and the US Virgin Islands]. *Bol Oficina Sanit Panam* 1992;113(2):109-20. (Spa).
- Gubler DJ, Casta-Valez A. A program for prevention and control of epidemic dengue and dengue hemorrhagic fever in Puerto Rico and the U.S. Virgin Islands. *Bull Pan Am Health Organ* 1991;25(3):237-47.
- Gubler DJ, Clark GG. Community-based integrated control of Aedes aegypti: a brief overview of current programs. *Am J Trop Med Hyg* 1994;50(6 Suppl):50-60.
- Gubler DJ, Clark GG. Dengue/dengue hemorrhagic fever: the emergence of a global health problem. *Emerg Infect Dis* [serial online] 1995 Apr-Jun [cited 1996 Jun 5];1(2):[10 screens]. Available from: National Center for Infectious Diseases, Centers for Disease Control and Prevention, Atlanta, GA.
URL: <http://www.cdc.gov/ncidod/EID/eid.htm>
- Gubler DJ, Trent DW. Emergence of epidemic dengue/dengue hemorrhagic fever as a public health problem in the Americas. *Infect Agents Dis* 1993 Dec;2(6):383-93.
- Guzman MG, Kouri G, Bravo J, Soler M, Martinez E. Sequential infection as risk factor for dengue hemorrhagic fever/dengue shock syndrome (DHF/DSS) during the 1981 dengue hemorrhagic Cuban epidemic. *Mem Inst Oswaldo Cruz* 1991 Jul-Sep;86(3):367.
- Guzman MG, Kouri GP, Bravo J, Soler M, Vazquez S, Morier L. Dengue hemorrhagic fever in Cuba, 1981: a retrospective seroepidemiologic study. *Am J Trop Med Hyg* 1990 Feb;42(2):179-84.
- Guzman MG, Kouri GP, Soler M, Bravo J, Rodriguez de La Vega A, Vazquez S, Mune M. Dengue 2 virus enhancement in asthmatic and non asthmatic individual. *Mem Inst Oswaldo Cruz* 1992 Oct-Dec;87(4):559-64.
- Guzman MG, Triana C, Bravo J, Kouri G. [An estimation of the cost of the 1981 epidemic of dengue haemorrhagic fever in Cuba]. *Rev Cubana Med Trop* 1992;44(1):13-7. (Spa).

- Hadinegoro SR, Nathin MA. The changing patterns of clinical manifestations in dengue hemorrhagic fever: ten years observations [abstract]. *Southeast Asian J Trop Med Public Health* 1990;21(4):694.
- Halstead SB. Dengue and dengue hemorrhagic fever. *Curr Opin Infect Dis* 1990;3(3):434-8.
- Halstead SB. Dengue, yellow fever, and rabies. *Curr Opin Infect Dis* 1994;7(5):559-63.
- Halstead SB. Global epidemiology of dengue: health systems in disarray. *Trop Med* 1993;35(4):137-46.
- Halstead SB. Global epidemiology of dengue hemorrhagic fever. *Southeast Asian J Trop Med Public Health* 1990 Dec;21(4):636-41.
- Halstead SB. The XXth century dengue pandemic: need for surveillance and research. *World Health Stat Q* 1992;45(2-3):292-8.
- Hasler C, Schnorf H, Enderlin N, Gyr K. [Imported dengue fever following a stay in the tropics]. *Schweiz Med Wochenschr* 1993 Jan 30;123(4):120-4. (Ger).
- Hathirat P, Isarangkura P, Srichaikul T, Suvatte V, Mitrakul C. Abnormal hemostasis in dengue hemorrhagic fever. *Southeast Asian J Trop Med Public Health* 1993;24 Suppl 1:80-5.
- Hayes EB, Gubler DJ. Dengue and dengue hemorrhagic fever. *Pediatr Infect Dis J* 1992 Apr;11(4):311-7.
- Henchal EA, Putnak JR. The dengue viruses. *Clin Microbiol Rev* 1990 Oct;3(4):376-96.
- Hendarto SK, Hadinegoro SR. Dengue encephalopathy. *Acta Paediatr Jpn* 1992 Jun;34(3):350-7.
- Hoke CH Jr, Malinoski FJ, Eckels KH, Scott RM, Dubois DR, Summers PL, Simms T, Burrous J, Hasty SE, Bancroft WH. Preparation of an attenuated dengue 4 (341750 Carib) virus vaccine. II. Safety and immunogenicity in humans. *Am J Trop Med Hyg* 1990 Aug;43(2):219-26.
- Hokenberg I, Vene S. [Dengue fever. Important differential diagnosis from malaria and typhoid fever]. *Lakartidningen* 1994 Oct 12;91(41):3692-4. (Swe).
- Hotta H, Homma M. Lectin-mediated enhancement of dengue virus infection in a mouse macrophage cell line Mk1. *Arch Virol* 1994;134(1-2):51-9.
- Hotta S. [Histopathology of liver in dengue infections: a facet of the pathogenesis of dengue hemorrhagic fever/shock syndrome (DHF/DSS) (abstract)]. *Nippon Nettai Igakkai Zasshi* 1992;20(1):56-7. (Jpn).
- Imported dengue--United States, 1993-1994. *MMWR Morb Mortal Wkly Rep* 1995 May 12;44(18):353-6.
- Innis BL, Khin SAM, Nisalak A, Ishak KG, Nimmannitya S, Laohapand T, Tanprasertsuk S, Pongritsakda V, Thisyakorn U. Acute liver failure is one important cause of fatal dengue infection [abstract]. *Southeast Asian J Trop Med Public Health* 1990;21(4):695-6.
- Isarangkura P, Tuchinda S. The behavior of transfused platelets in dengue hemorrhagic fever. *Southeast Asian J Trop Med Public Health* 1993;24 Suppl 1:222-4.
- Iyngkaran N, Yadav M, Sinniah M. Augmented inflammatory cytokines in primary dengue infection progressing to shock. *Singapore Med J* 1995 Apr;36(2): 218-21.
- Jacobs MG, Brook MG, Weir WR, Bannister BA. Dengue haemorrhagic fever: a risk of returning home. *BMJ* 1991 Apr 6;302(6780):828-9.
- Kabra SK, Verma IC, Arora NK, Jain Y, Kalra V. Dengue haemorrhagic fever in children in Delhi. *Bull World Health Organ* 1992;70(1):105-8.
- Kasim YA, Anky Tri Rini KE, Sumarmo SP. Hyperventilation in children with dengue hemorrhagic fever (DHF). *Paediatr Indones* 1991 Sep-Oct;31(9-10): 245-52.
- Kawano H, Rostapshov V, Rosen L, Lai CJ. Genetic determinants of dengue type 4 virus neurovirulence for mice. *J Virol* 1993 Nov;67(11):6567-75.
- Khanna M, Chaturvedi UC, Sharma MC, Pandey VC, Mathur A. Increased capillary permeability mediated by a dengue virus-induced lymphokine. *Immunology* 1990 Mar;69(3):449-53.
- Khin MM, Jirakanjanakit N, Yoksan S, Bhamarapravati N. Infection, dissemination, transmission, and biological attributes of dengue-2 PDK53 candidate vaccine virus after oral infection in Aedes aegypti. *Am J Trop Med Hyg* 1994 Dec;51(6):864-9.
- King CC, Ku CC. Enhancing viral yields of human bone marrow cell infected with dengue hemorrhagic fever virus strain [abstract]. *J Cell Biochem Suppl* 1995;(19A):317. Keystone Symposium on Molecular Aspects of Viral Immunity; 1995 Jan 16-23; Keystone, CO.
- Kliks S. Antibody-enhanced infection of monocytes as the pathogenetic mechanism for severe dengue illness. *AIDS Res Hum Retrovirus* 1990;6(8):993-8.
- Kollmann M, Klauss V, Loscher T, Mueller A. Haemorrhagic retinitis and optic neuritis in dengue [abstract]. *Trop Med Parasitol*

- 1991;42(4):447.
- Krippner R, Hanisch G, Kretschmer H. [Dengue fever with hemorrhagic manifestations after a stay in Thailand]. Dtsch Med Wochenschr 1990 Jun 1;115(22):858-62. (Ger).
- Ku CC, Chien LJ, King CC. Dengue virus virulence and its interactions with macrophages and lymphocytes [abstract]. Keystone Symposium on Molecular Aspects of Viral Immunity; 1995 Jan 16-23; Keystone, CO. J Cell Biochem Suppl 1995;(19A): 299.
- Kuno G. Computer literature searches on dengue. Bull World Health Organ. 1993;71(2):165-72.
- Kuno G, Bailey RE. Cytokine responses to dengue infection among Puerto Rican patients. Mem Inst Oswaldo Cruz 1994 Apr-Jun;89(2):179-82.
- Kuno G, Gubler DJ, Oliver A. Use of 'original antigenic sin' theory to determine the serotypes of previous dengue infections. Trans R Soc Trop Med Hyg 1993 Jan-Feb; 87(1):103-5.
- Kuno G, Vorndam AV, Gubler DJ, Gomez I. Study of anti-dengue NS1 antibody by western blot. J Med Virol 1990 Oct;32(2):102-8.
- Kurane I, Ennis FA. Cytokines in dengue virus infections: role of cytokines in the pathogenesis of dengue hemorrhagic fever. Semin Virol 1994;5(6):443-8.
- Kurane I, Ennis FE. Immunity and immunopathology in dengue virus infections. Semin Immunol 1992 Apr; 4(2):121-7.
- Kurane I, Innis BL, Nimmannitya S, Nisalak A, Meager A, Ennis FA. High levels of interferon alpha in the sera of children with dengue virus infection. Am J Trop Med Hyg 1993 Feb;48(2):222-9.
- Kurane I, Innis BL, Nimmannitya S, Nisalak A, Meager A, Janus J, Ennis FA. Activation of T lymphocytes in dengue virus infections. High levels of soluble interleukin 2 receptor, soluble CD4, soluble CD8, interleukin 2, and interferon-gamma in sera of children with dengue. J Clin Invest 1991 Nov;88(5):1473-80.
- Kurane I, Innis BL, Nimmannitya S, Nisalak A, Rothman AL, Livingston PG, Janus J, Ennis FA. Human immune responses to dengue viruses. Southeast Asian J Trop Med Public Health 1990 Dec;21(4):658-62.
- Kurane I, Rothman AL, Bukowski JF, Kontny U, Janus J, Innis BL, Nisalak A, et al. T-lymphocyte responses to dengue viruses. In: Brinton MA, Heinz FX, editors. New aspects of positive-strand RNA viruses. 2nd International Symposium on Positive Strand RNA Viruses; 1989 Jun; Vienna, Austria. Washington: American Society for Microbiology; 1990.
- Kurane I, Rothman AL, Livingston PG, Green S,
- Gagnon SJ, Janus J, Innis BL, Nimmannitya S, Nisalak A, Ennis FA. Immunopathologic mechanisms of dengue hemorrhagic fever and dengue shock syndrome. Arch Virol Suppl 1994;9:59-64.
- Ia Russa VF, Innis BL. Mechanisms of dengue virus-induced bone marrow suppression. Baillieres Clin Haematol 1995 Mar;8(1):249-70.
- Lam SK. Dengue and dengue hemorrhagic fever [editorial]. Southeast Asian J Trop Med Public Health 1990 Dec; 21(4):520-1.
- Lam SK. Two decades of dengue in Malaysia. Trop Med 1993;35(4):195-200.
- Laohapand T, Panchatikanond P, Malasit P, Khin Saw Myint, Innis B, Suvatte V. Histopathology and localization of dengue virus antigen in tissues of dengue hemorrhagic fever patients [abstract]. Southeast Asian J Trop Med Public Health 1990;21(4):707.
- Leblois H, Young PR. Sequence of the dengue virus type 2 (strain PR-159) NS1 gene and comparison with its vaccine derivative. Nucleic Acids Res 1993 Apr 11; 21(7):1668.
- Leclerc C, Deriaud E, Megret F, Briand JP, Van Regenmortel MH, Deubel V. Identification of helper T cell epitopes of dengue virus E-protein. Mol Immunol 1993 May;30(7):613-25.
- Lee E, Gubler DJ, Weir RC, Dalgarno L. Genetic and biological differentiation of dengue 3 isolates obtained from clinical cases in Java, Indonesia, 1976-1978. Arch Virol 1993;133(1-2):113-25.
- Leong KW, Srinivas P. Corticosteroid-responsive prolonged thrombocytopenia following dengue haemorrhagic fever. Med J Malaysia 1993 Sep;48(3):369-72.
- Lewin S, Pandit N, Yeshwanth M. Acute infectious thrombocytopenic purpura and circulatory failure--is it dengue shock syndrome? Indian Pediatr 1992 Dec; 29(12):1553-6.
- Liam CK, Yap BH, Lam SK. Dengue fever complicated by pulmonary haemorrhage manifesting as haemoptysis. J Trop Med Hyg 1993 Jun;96(3):197-200.
- Ligtenberg JJ, Hospers GA, Sprenger HG, Weits J. [Hemorrhagic fever caused by dengue in 2 tourists]. Ned Tijdschr Geneeskd 1991 Dec 14;135(50):2394-7. (Dut).
- Littaua R, Kurane I, Ennis FA. Human IgG Fc receptor II mediates antibody-dependent enhancement of dengue virus infection. J Immunol 1990 Apr 15;144(8):3183-6.
- Lorono Pino MA, Farfan Ale JA, Rosado Paredes EP, Kuno G, Gubler DJ. Epidemic dengue 4 in the Yucatan, Mexico, 1984. Rev Inst Med Trop Sao Paulo 1993 Sep-Oct;35(5):449-55.

- Lum LC. Management of dengue haemorrhagic fever/dengue shock syndrome. *Malays J Pathol* 1993 Jun;15(1):29-33.
- Lum LC, Lam SK, Choy YS, George R, Harun F. Dengue encephalitis: a true entity? *Am J Trop Med Hyg* 1996 Mar;54(3):256-9.
- Lum LC, Lam SK, George R, Devi S. Fulminant hepatitis in dengue infection. *Southeast Asian J Trop Med Public Health* 1993 Sep;24(3):467-71.
- MacDonald MB. Dengue hemorrhagic fever in camps for displaced persons along the Thai Cambodian border [abstract]. *Southeast Asian J Trop Med Public Health* 1990;21(4):679.
- Mackowiak PA, Wasserman SS, Tacket CO, Vaughn DW, Eckels KH, Dubois DR, Hoke CH, Edelman R. Quantitative relationship between oral temperature and severity of illness following inoculation with candidate attenuated dengue virus vaccines. *Clin Infect Dis* 1994 Nov;19(5):948-50.
- Mady BJ, Erbe DV, Kurane I, Fanger MW, Ennis FA. Antibody-dependent enhancement of dengue virus infection mediated by bispecific antibodies against cell surface molecules other than Fc gamma receptors. *J Immunol* 1991 Nov 1;147(9):3139-44.
- Mady BJ, Kurane I, Erbe DV, Fanger MW, Ennis FA. Neuraminidase augments Fc gamma receptor II-mediated antibody-dependent enhancement of dengue virus infection. *J Gen Virol* 1993 May;74(Pt 5):839-44.
- Mallet EC, Gestas P, Pilorget H, Bataille H. [Hemorrhagic dengue with shock in children in French Polynesia]. *Bull Soc Pathol Exot* 1993;86(5 Pt 2):450-4. (Fre).
- Marchette NJ, Dubois DR, Larsen LK, Summers PL, Kraiselburd EG, Gubler DJ, Eckels KH. Preparation of an attenuated dengue 4 (341750 Carib) virus vaccine. I. Pre-clinical studies. *Am J Trop Med Hyg* 1990 Aug; 43(2):212-8.
- Markoff LJ, Innis BL, Houghten R, Henchal LS. Development of cross-reactive antibodies to plasminogen during the immune response to dengue virus infection. *J Infect Dis* 1991 Aug;164(2):294-301.
- Martinez E, Guzman MG, Valdes M, Soler M, Kouri G. [Dengue fever and hemorrhagic dengue in infants with a primary infection]. *Rev Cubana Med Trop* 1993;45(2): 97-101. (Spa).
- Marzochi KB. Dengue in Brazil--situation, transmission and control--a proposal for ecological control. *Mem Inst Oswaldo Cruz* 1994 Apr-Jun;89(2):235-45.
- Marzochi KBF. [Dengue - clinical classification]. *Cad Saude Publica* 1991;7(3):409-15. (Por).
- McSherry J. Dengue. In: Kiple KF, editor. The Cambridge world history of human disease. Cambridge: Cambridge University Press; 1993. p. 660-4.
- Monath TP. Dengue: the risk to developed and developing countries. *Proc Natl Acad Sci U S A* 1994 Mar 29; 91(7):2395-400.
- Morens DM. Antibody-dependent enhancement of infection and the pathogenesis of viral disease. *Clin Infect Dis* 1994 Sep;19(3):500-12.
- Morens DM, Halstead SB. Measurement of antibody-dependent infection enhancement of four dengue virus serotypes by monoclonal and polyclonal antibodies. *J Gen Virol* 1990 Dec;71(Pt 12):2909-14.
- Morens DM, Marchette NJ, Chu MC, Halstead SB. Growth of dengue type 2 virus isolates in human peripheral blood leukocytes correlates with severe and mild dengue disease. *Am J Trop Med Hyg* 1991 Nov;45(5):644-51.
- Nguyen DT, Pham NG. Epidemiology and clinical features of dengue hemorrhagic fever in Ho Chi Minh City and the Centre for Tropical Diseases: Viet Nam. *Trop Med* 1994;36(4):177-86.
- Nguyen HT, Tien TV, Nam VS, Tam NH, Ninh TU. Dengue/dengue hemorrhagic fever situation in Vietnam. *Kao Hsiung I Hsueh Ko Hsueh Tsa Chih* 1994 Dec;10 Suppl:S124-30.
- Nguyen TH. Country report on dengue fever-dengue haemorrhagic fever and Japanese encephalitis in Vietnam. *Trop Med* 1994;36(4):170-6.
- Nimmanitya S, Kalayanaroo S, Nisalak A, Innis BL. Second attack of dengue hemorrhagic fever [abstract]. *Southeast Asian J Trop Med Public Health* 1990;21(4):699.
- Nisalak A, Nimmanitya S, Innis B. Severe dengue infections among children in metropolitan Bangkok, 1973-1989: description of epidemics and characterization of virus serotypes associated with them [abstract]. *Southeast Asian J Trop Med Public Health* 1990;21(4):678-9.
- Nogueira RM, Miagostovich MP, Lampe E, Souza RW, Zagne SM, Schatzmayr HG. Dengue epidemic in the state of Rio de Janeiro, Brazil, 1990-1: co-circulation of dengue 1 and dengue 2 serotypes. *Epidemiol Infect* 1993 Aug;111(1):163-70.
- Nogueira RM, Zagner SM, Martins IS, Lampe E, Miagostovich MP, Schatzmayr HG. Dengue hemorrhagic fever/dengue shock syndrome (DHF/DSS) caused by serotype 2 in Brazil. *Mem Inst Oswaldo Cruz* 1991 Apr-Jun;86(2):269.
- O'Sullivan MA, Killen HM. The differentiation state of monocytic cells affects their susceptibility to infection and the effects of infection by dengue virus. *J Gen Virol* 1994 Sep;75(Pt 9):2387-92.

- Okabe N. Situation of dengue fever and dengue haemorrhagic fever and Japanese encephalitis in the Western Pacific Region. *Trop Med* 1994;36(4):122-30.
- Okabe N. Situation on dengue fever and dengue haemorrhagic fever in the Western Pacific Region. *Trop Med* 1993;35(4):147-60.
- Okamoto Y, Gagnon SJ, Kurane I, Leporati AM, Ennis FA. Preferential usage of T-cell receptor V beta 17 by dengue virus-specific human T lymphocytes in a donor with immunity to dengue virus type 4. *J Virol* 1994 Nov; 68(11):7614-9.
- Patey O, Ollivaud L, Breuil J, Lafaix C. Unusual neurologic manifestations occurring during dengue fever infection. *Am J Trop Med Hyg* 1993 Jun;48(6):793-802.
- Paul SR. Arbitration of clinical diagnosis and management of dengue hemorrhagic fever [abstract]. *Southeast Asian J Trop Med Public Health* 1990;21(4):700.
- Phan DT, Ha NT, Thuc LT, Diet NH, Phu LV, Ninh LY, An VT. Some changes in immunity and blood in relation to clinical states of dengue hemorrhagic fever patients in Vietnam. *Haematologia (Budap)* 1991;24(1):13-21.
- Pina JJ de, Raphenon G, Morillon M, Fourcade L, Martet G, Touze JE. [Pathophysiology of thrombopaenia in haemorrhagic dengue fever]. *Bull Soc Pathol Exot* 1995;88(1):3-6. (Fre).
- Poli L, Chungue E, Soulignac O, Gestas P, Kuo P, Papouin Rauzy M. [Materno-fetal dengue. Apropos of 5 cases observed during the epidemic in Tahiti (1989)]. *Bull Soc Pathol Exot* 1991;84(5 Pt 5):513-21. (Fre).
- Pontes RJ, Ruffino-Netto A. [Dengue in a urban locality of southeastern Brazil: epidemiological aspects]. *Rev Saude Publica* 1994 Jun;28(3):218-27. (Por).
- Pramuljo HS, Harun SR. Ultrasound findings in dengue haemorrhagic fever. *Pediatr Radiol* 1991;21(2):100-2.
- Preeyasombat C, Bunnag P, Sirinavin S, Mahachoklertwattana P, Sriprapradang A. Plasma prostacyclin (PGI₂) in dengue hemorrhagic fever. *Southeast Asian J Trop Med Public Health* 1990 Sep; 21(3):383-7.
- Putnak R, Feighny R, Burrous J, Cochran M, Hackett C, Smith G, Hoke C. Dengue-1 virus envelope glycoprotein gene expressed in recombinant baculovirus elicits virus-neutralizing antibody in mice and protects them from virus challenge. *Am J Trop Med Hyg* 1991 Aug;45(2):159-67.
- Qiu FX, Chen QQ, Ho QY, Chen WZ, Zhao ZG, Zhao BW. The first epidemic of dengue hemorrhagic fever in the People's Republic of China. *Am J Trop Med Hyg* 1991 Apr;44(4):364-70.
- Qiu FX, Gubler DJ, Chen QQ, Ho QY, Chen WZ, Zhao ZG, Zhao BW. A report on the first epidemic of dengue haemorrhagic fever in the People's Republic of China. *Virus Inf Exch News South East Asia West Pac* 1990;7(4):133.
- Qiu FX, Gubler DJ, Liu JC, Chen QQ. Dengue in China: a clinical review. *Bull World Health Organ* 1993;71(3-4): 349-59.
- Rajajee S, Mukundan D. Neurological manifestations in dengue hemorrhagic fever. *Indian Pediatr* 1994 Jun; 31(6):688-90.
- Ramanathan M, Duraisamy G. Haemophagocytosis in dengue haemorrhagic fever: a case report. *Ann Acad Med Singapore* 1991 Nov;20(6):803-4.
- Ramirez-Ronda CH, Garcia CD. Dengue in the Western Hemisphere. *Infect Dis Clin North Am* 1994 Mar; 8(1):107-28.
- Ramos C, Garcia H, Villaseca JM. [Hemorrhagic fever and the dengue shock syndrome]. *Salud Publica Mex* 1993 Jan-Feb;35(1):39-55. (Spa).
- Report. Workshop on the epidemiology and laboratory diagnosis of dengue fever: dengue haemorrhagic fever and Japanese encephalitis; 1994 Aug 9-15; Nagasaki, Japan. Manila: World Health Organization, Regional Office for the Western Pacific; 1994. 40 p. (Report series; no. RS/94/GE/22(JPN)/N).
- Reynes JM, Laurent A, Deubel V, Telliam E, Moreau JP. The first epidemic of dengue hemorrhagic fever in French Guiana. *Am J Trop Med Hyg* 1994 Nov;51(5):545-53.
- Rigau-Perez JG. Hospitalizations for dengue hemorrhagic fever (DHF) in Puerto Rico (PR), 1990-1991 [abstract]. *Program Abstr Intersci Conf Antimicrob Agents Chemother* 1993;33:361. 33rd Interscience Conference on Antimicrobial Agents and Chemotherapy; 1993 Oct 17-20; New Orleans, LA.
- Rigau-Perez JG, Ayuso-Lamadrid A, Wolff DR, Reiter P, Kuno G. Dengue severity throughout seasonal changes in incidence in Puerto Rico, 1989-1992. The Puerto Rico Association of Epidemiologists. *Am J Trop Med Hyg* 1994 Oct;51(4):408-15.
- Rigau-Perez JG, Gubler DJ, Vorndam AV, Clark GG. Dengue surveillance--United States, 1986-1992. *MMWR CDC Surveill Summ* 1994 Jul 22;43(2):7-19.
- Rodriguez-Figueroa L, Rigau-Perez JG, Suarez EL, Reiter P. Risk factors for dengue infection during an outbreak in Yanes, Puerto Rico in 1991. *Am J Trop Med Hyg* 1995 Jun;52(6):496-502.

- Rosenfeld SJ, Hibbs JR, Young NS. Dengue virus and hematopoiesis. In: Young NS, editors. *Viruses and bone marrow: basic research and clinical practice*. New York: Marcel Dekker, Inc.; 1993. p. 211-24. (Hematology, vol. 16).
- Rosenfeld SJ, Young NS. Viruses and bone marrow failure. *Blood Rev* 1991 Jun;5(2):71-7.
- Row D, Pearce M, Hapgood G, Sheridan J. Dengue and dengue haemorrhagic fever in Charters Towers, Queensland. *Commun Dis Intell* 1993;17(9):182-3.
- Samsi TK, Wulur H, Sugianto D, Bartz CR, Tan R, Sie A. Some clinical and epidemiological observations on virologically confirmed dengue hemorrhagic fever. *Paediatr Indones* 1990 Nov-Dec;30(11-12):293-303.
- Sanyal S, Sinha S, Halder KK. Pathogenesis of dengue haemorrhagic fever [editorial]. *J Indian Med Assoc* 1991 Jun;89(6):152-3.
- Sarasombath S, Khoncharoen P, Suvatte V, Webster HK, Homchampa P. Evidence for immune cell activation in dengue hemorrhagic fever/dengue shock syndrome [abstract]. *Southeast Asian J Trop Med Public Health* 1990;21(4):706-7.
- Setiawan MW, Samsi TK, Pool TN, Sugianto D, Wulur H. Gallbladder wall thickening in dengue hemorrhagic fever: An ultrasonographic study. *J Clin Ultrasound* 1995;23(6): 357-62.
- Sharp TW, Wallace MR, Hayes CG, Sanchez JL, Defraites RF, Arthur RR, Thornton SA, Batchelor RA, Rozmajzl PJ, Hanson RK, Wu SJ, Iriye C, Burans JP. Dengue fever in U.S. troops during Operation Restore Hope, Somalia, 1992-1993. *Am J Trop Med Hyg* 1995;53(1): 89-94.
- Shekhar KC, Huat OL. Epidemiology of dengue/dengue hemorrhagic fever in Malaysia--a retrospective epidemiological study 1973-1987. Part I: Dengue hemorrhagic fever (DHF). *Asia Pac J Public Health* 1992-93;6(2):15-25.
- Shekhar KC, Senan P. Epidemiology of dengue and dengue haemorrhagic fever in Malaysia. III. A comparative study of clinical features seen in virologically confirmed cases for periods between 1963-1987--a review. *J Singapore Paediatr Soc* 1992;34(1-2):67-82.
- Sirinavin S, Hathirat P. Problems in severity grading of dengue hemorrhagic fever [abstract]. *Southeast Asian J Trop Med Public Health* 1990;21(4):696.
- Soedarmo SP. The epidemiology, control and prevention of dengue hemorrhagic fever (DHF) in Indonesia. *Trop Med* 1993;35(4):161-72.
- Soedarmo SP. Community participation in the control and prevention of DHF in Indonesia. *Trop Med* 1993; 35(4):315-24.
- Soedarmo SP. The epidemiology, prevention and control of dengue hemorrhagic fever in Indonesia. *Kao Hsiung I Hsueh Ko Hsueh Tsa Chih* 1994 Dec;10 Suppl:S109-12.
- Soeroso S. Hemorrhagic shock and encephalopathy syndrome [letter]. *Am J Dis Child* 1992 Aug;146(8): 894-5. Comment on: *Am J Dis Child* 1991 Jul; 145(7):720-1.
- Sorensen E. [Dengue hemorrhagic fever. Experiences from Thailand]. *Tidsskr Nor Laegeforen* 1992 Jun 30;112(17): 2194-5. (Nor).
- Srivastava VK, Suri S, Bhasin A, Srivastava L, Bharadwaj M. An epidemic of dengue haemorrhagic fever and dengue shock syndrome in Delhi: a clinical study. *Ann Trop Paediatr* 1990;10(4):329-34.
- Steinberg HN, Zeldis JB. Effect of dengue virus on hematopoietic progenitors [letter]. *Blood* 1990 Feb 1; 75(3):811-2. Comment on: *Blood* 1989 Sep;74(4): 1235-40.
- Streatfield R, Bielby G, Sinclair D. A primary dengue 2 epidemic with spontaneous haemorrhagic manifestations [letter]. *Lancet* 1993 Aug 28;342(8870):560-1.
- Sucharit S, editor. *Annotated bibliography on mosquito borne diseases in Southeast Asia and Sri Lanka - 1989*. Bangkok: Mahidol University, Faculty of Tropical Medicine, SEAMEO-TROPMED National Centre of Thailand, Museum and Reference Centre; 1992. 112 p.
- Sucharit S, editor. *Annotated bibliography on mosquito borne diseases in Southeast Asia - 1987*. Bangkok: Mahidol University, Faculty of Tropical Medicine, SEAMEO-TROPMED National Centre of Thailand, Museum and Reference Centre; 1990. 74 p.
- Suvatte V, Vajaraadul C, Laohapand T. Liver failure and hepatic encephalopathy in dengue hemorrhagic fever/dengue shock syndrome: a correlation study with acetaminophen usage [abstract]. *Southeast Asian J Trop Med Public Health* 1990;21(4):694-5.
- Swaddiwudhipong W, Chaovakiratipong C, Nguntra P, Koonchote S, Khumklam P, Lerdlukanavonge P. Effect of health education on community participation in control of dengue hemorrhagic fever in an urban area of Thailand. *Southeast Asian J Trop Med Public Health* 1992 Jun;23(2):200-6.
- Swaddiwudhipong W, Lerdlukanavonge P, Khumklam P, Koonchote S, Nguntra P, Chaovakiratipong C. A survey of knowledge, attitude and practice of the prevention of dengue hemorrhagic fever in an urban community of Thailand. *Southeast Asian J Trop Med Public Health* 1992 Jun;23(2):207-11.
- Tan CH, Yap EH, Singh M, Deubel V, Chan YC.

- Passive protection studies in mice with monoclonal antibodies directed against the non-structural protein NS3 of dengue 1 virus. *J Gen Virol* 1990 Mar;71(Pt 3):745-9.
- Tan PS. Clinical correlates with immunopathogenesis in dengue haemorrhagic fever/dengue shock syndrome. *Malays J Pathol* 1993 Jun;15(1):41-7.
- Tang S. [Epidemiologic trends in dengue fever and dengue hemorrhagic fever]. *Chung Hua Liu Hsing Ping Hsueh Tsa Chih* 1990 Apr;11(2):113-5. (Chi).
- Tassniyom S, Chirawatkul A, Rojanasuphot S. Failure of high dose steroids in averting death in severe dengue shock syndrome: a double-blind randomized controlled trial [abstract]. *Southeast Asian J Trop Med Public Health* 1990;21(4):698.
- Tassniyom S, Vasanawathana S, Chirawatkul A, Rojanasuphot S. Failure of high-dose methylprednisolone in established dengue shock syndrome: a placebo-controlled, double-blind study. *Pediatrics* 1993 Jul;92(1):111-5.
- Teeraratkul A, Limpakarnjanaral K. Three decades of dengue hemorrhagic fever surveillance in Thailand 1958-1987 [abstract]. *Southeast Asian J Trop Med Public Health* 1990;21(4):684.
- Teeraratkul A, Limpakarnjanaral K, Nisalak A, Nimmannitya S. Predictive value of clinical and laboratory findings for early diagnosis of dengue and dengue hemorrhagic fever [abstract]. *Southeast Asian J Trop Med Public Health* 1990;21(4):696-7.
- Teruel-Lopez E. [Dengue. A review]. *Invest Clin* 1991; 32(4):201-17. (Spa).
- Thaithumyanon P, Thisyakorn U, Deerojnwong J, Innis BL. Dengue infection complicated by severe hemorrhage and vertical transmission in a parturient woman. *Clin Infect Dis* 1994 Feb;18(2):248-9.
- Thein S, Aaskov J, Myint TT, Shwe TN, Saw TT, Zaw A. Changes in levels of anti-dengue virus IgG subclasses in patients with disease of varying severity. *J Med Virol* 1993 Jun;40(2):102-6.
- Thisyakorn U, Nimmannitya S. Nutritional status of children with dengue hemorrhagic fever. *Clin Infect Dis* 1993 Feb;16(2):295-7.
- Thisyakorn U, Thisyakorn C. Diseases caused by arboviruses--dengue haemorrhagic fever and Japanese B encephalitis. *Med J Aust* 1994 Jan 3;160(1):22-6.
- Tjandra H. Management of dengue shock syndrome. A prospective study. *Paediatr Indones* 1991 Nov-Dec; 31(11-12):289-93.
- Tsai CJ, Kuo CH, Chen PC, Changcheng CS. Upper gastrointestinal bleeding in dengue fever. *Am J Gastroenterol* 1991 Jan;86(1):33-5.
- Vaccine prospects for dengue haemorrhagic fever [news]. *World Health Forum* 1993;14(2):203.
- Vaughn DW, Hoke CH, Yoksan S, Rice R, Dubois DR, Summers PL, Burrous MJ, Innis BL, Myint KS, Bhamaraprabhat N. Phase I testing of a dengue-2 live-attenuated vaccine strain 16681 PDK 53 in American volunteers [abstract]. *Am J Trop Med Hyg* 1992;47(4 Suppl):99-100. 41st Annual Meeting of the American Society of Tropical Medicine and Hygiene; 1992 Nov 15-9; Seattle, WA.
- Vitarana T. Dengue haemorrhagic fever. *Ceylon Med J* 1990 Sep;35(3):83-7.
- Vitarana T, de Silva H, Withana N, Gunasekera C. Elevated tumour necrosis factor in dengue fever and dengue haemorrhagic fever. *Ceylon Med J* 1991 Jun;36(2):63-5.
- Vitarana T, Jayasekera N. Dengue hemorrhagic fever (DHF) outbreak in Sri Lanka [abstract]. *Southeast Asian J Trop Med Public Health* 1990;21(4):682.
- World Health Organization. International travel and health: vaccination requirements and health advice: situation as on 1 January 1995. Geneva: The Organization; 1995. 104 p.
- Yadav M, Kamath KR, Iyngkar N, Sinniah M. Dengue haemorrhagic fever and dengue shock syndrome: are they tumour necrosis factor-mediated disorders? *FEMS Microbiol Immunol* 1991 Dec;4(1):45-9.
- Yadava RL, Narasimham MVVL. Epidemiology and control of dengue and dengue hemorrhagic fever in India [abstract]. *Southeast Asian J Trop Med Public Health* 1990;21(4):683.
- Yamshchikov VF, Compans RW. Generation of long flavivirus expression cassettes by in vivo recombination and transient dominant selection. *Gene* 1994 Nov 18; 149(2):193-201.
- Yang KD, Lee CS, Hwang KP, Chu ML, Shaio MF. A model to study cytokine profiles in primary and heterologously secondary dengue-2 virus infections. *Acta Virol* 1995;39(1):19-21.
- Yang KD, Wang CL, Shaio MF. Production of cytokines and platelet activation factor in secondary dengue virus infections [letter]. *J Infect Dis* 1995;172(2):604-5.
- Yasui K. Strategies of dengue vaccine development by W.H.O. using new biotechnology. *Trop Med* 1993; 35(4):233-41.
- Yong BH. Critical care aspects of dengue haemorrhagic fever/dengue shock syndrome. *Malays J Pathol* 1993 Jun; 15(1):35-9.
- Zagne SM, Alves VG, Nogueira RM, Miagostovich MP, Lampe E, Tavares W. Dengue haemorrhagic

fever in the state of Rio de Janeiro, Brazil: a study of 56 confirmed cases. *Trans R Soc Trop Med Hyg* 1994 Nov-Dec;88(6): 677-9.

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Aedes albopictus introduction into continental Africa, 1991. *MMWR Morb Mortal Wkly Rep* 1991 Dec 6;40(48): 836-8.

Adu FD, Adeniji JA, Tomori O, Adelasoye A. Yellow fever outbreak in Ipetu-Ijesa: response after mass vaccination. *Rev Roum Virol* 1993 Jan-Jun;44(1-2):3-7.

Adu FD, Esan J, Baba SS. Seroepidemiological survey for yellow fever antibodies in domestic animals. *Rev Roum Virol* 1990 Jul-Dec;41(3-4):147-50.

Alves MC, Gurgel S de M, de Almeida M do C. [Sampling study for larval density quantification of Aedes aegypti and Aedes albopictus in the state of São Paulo, Brazil]. *Rev Saude Publica* 1991 Aug;25(4):251-6. (Por).

Amberg SM, Nestorowicz A, McCourt DW, Rice CM. NS2B-3 proteinase-mediated processing in the yellow fever virus structural region: in vitro and in vivo studies. *J Virol* 1994 Jun;68(6):3794-802.

Ambrosch F, Fritzell B, Gregor J, Jonas S, Kollaritsch H, Teulieres L, Wiedermann G. Combined vaccination against yellow fever and typhoid fever: a comparative trial. *Vaccine* 1994 May;12(7):625-8.

Amstey MS. Probable congenital infection? [letter]. *J Infect Dis* 1994 Jul;170(1):251. Comment on: *J Infect Dis* 1993 Dec;168(6):1520-3.

Ballinger-Crabtree ME, Miller BR. Partial nucleotide sequence of South American yellow fever virus strain 1899/81: structural proteins and NS1. *J Gen Virol* 1990 Sep;71(Pt 9):2115-21.

Barrett AD, Mathews JH, Miller BR, Medlen AR, Ledger TN, Roehrig JT. Identification of monoclonal antibodies that distinguish between 17D-204 and other strains of yellow fever virus. *J Gen Virol* 1990 Jan;71(Pt 1):13-8.

Barrett AD, Monath TP, Cropp CB, Adkins JA, Ledger TN, Gould EA, Schlesinger JJ, Kinney RM, Trent DW. Attenuation of wild-type yellow fever virus by passage in HeLa cells. *J Gen Virol* 1990 Oct;71(Pt 10):2301-6.

Barros VL, Moraes MA, Bensabath G, Silva MA. [An unusual histological aspect in a case of yellow fever that occurred in an indigenous group of Yanomami]. *Rev Soc Bras Med Trop* 1992 Oct-Dec;25(4):279-80. (Por).

Barry M, Patterson JE, Tirrell S, Cullen MR, Shope RE. The effect of chloroquine prophylaxis on yellow fever vaccine antibody response: comparison of plaque reduction neutralization test and enzyme-linked immunosorbent assay. *Am J Trop Med Hyg* 1991 Jan;44(1):79-82.

Baudon D. [Ebola virus and yellow fever: lessons to learn from the epidemics (editorial)]. *Med*

- Trop (Mars) 1995; 55(2):133-4.
- Beale AJ. Hazards of vaccine production. FEMS Microbiol Lett 1992 Dec 15;79(1-3):469-73.
- Bentivoglio M, Storti PV. [Appearance of the tiger mosquito in Mantova]. Ig Mod 1995;103(2):125-31. (Ita).
- Bonnevie-Nielsen V, Heron I, Monath TP, Calisher CH. Lymphocytic 2',5'-oligoadenylate synthetase activity increases prior to the appearance of neutralizing antibodies and immunoglobulin M and immunoglobulin G antibodies after primary and secondary immunization with yellow fever vaccine. Clin Diagn Lab Immunol 1995 May;2(3):302-6.
- Brandriss MW, Schlesinger JJ, Walsh EE. Immunogenicity of a purified fragment of 17D yellow fever envelope protein. J Infect Dis 1990 Jun;161(6):1134-9.
- Buckley A, Gaidamovich S, Turchinskaya A, Gould EA. Monoclonal antibodies identify the NS5 yellow fever virus non-structural protein in the nuclei of infected cells. J Gen Virol 1992 May;73(Pt 5):1125-30.
- Chadee DD. Seasonal abundance and diel landing periodicity of *Sabettus chloropterus* (Diptera: Culicidae) in Trinidad, West Indies. J Med Entomol 1990 Nov;27(6):1041-4.
- Chadee DD, Tikasingh ES, Ganesh R. Seasonality, biting cycle and parity of the yellow fever vector mosquito *Haemagogus janthinomys* in Trinidad. Med Vet Entomol 1992 Apr;6(2):143-8.
- Chambers TJ, Grakoui A, Rice CM. Processing of the yellow fever virus nonstructural polyprotein: a catalytically active NS3 proteinase domain and NS2B are required for cleavages at dibasic sites. J Virol 1991 Nov;65(11): 6042-50.
- Chambers TJ, McCourt DW, Rice CM. Production of yellow fever virus proteins in infected cells: identification of discrete polyprotein species and analysis of cleavage kinetics using region-specific polyclonal antisera. Virology 1990 Jul;177(1):159-74.
- Chambers TJ, Nestorowicz A, Amberg SM, Rice CM. Mutagenesis of the yellow fever virus NS2B protein: effects on proteolytic processing, NS2B-NS3 complex formation, and viral replication. J Virol 1993 Nov;67(11): 6797-807.
- Chambers TJ, Nestorowicz A, Rice CM. Mutagenesis of the yellow fever virus NS2B/3 cleavage site: determinants of cleavage site specificity and effects on polyprotein processing and viral replication. J Virol 1995 Mar;69(3): 1600-5.
- Chambers TJ, Weir RC, Grakoui A, McCourt DW, Bazan JF, Fletterick RJ, Rice CM. Evidence that the N-terminal domain of nonstructural protein NS3 from yellow fever virus is a serine protease responsible for site-specific cleavages in the viral polyprotein. Proc Natl Acad Sci U S A 1990 Nov;87(22):8898-902.
- Chang GJ, Cropp BC, Kinney RM, Trent DW, Gubler DJ. Nucleotide sequence variation of the envelope protein gene identifies two distinct genotypes of yellow fever virus. J Virol 1995 Sep;69(9):5773-80.
- Chippaux A, Deubel V, Moreau JP, Reynes JM. [Current situation of yellow fever in Latin America]. Bull Soc Pathol Exot 1993;86(5 Pt 2):460-4. (Fre).
- Cordellier R. [The epidemiology of yellow fever in Western Africa]. Bull World Health Organ 1991;69(1):73-84. (Fre).
- Cordellier R. [Yellow fever in Western Africa, 1973-1987. Observed facts--studies realized, campaign, prevention and forecast]. World Health Stat Q 1990;43(2):52-67. (Fre).
- Coursaget P, Fritzell B, Blondeau C, Saliou P, Diop-Mar I. Simultaneous injection of plasma-derived or recombinant hepatitis B vaccines with yellow fever and killed polio vaccines. Vaccine 1995 Jan;13(1):109-11.
- De Brito T, Siqueira SA, Santos RT, Nassar ES, Coimbra TL, Alves VA. Human fatal yellow fever. Immunohistochemical detection of viral antigens in the liver, kidney and heart. Pathol Res Pract 1992 Feb; 188(1-2):177-81.
- Degallier N, Travassos da Rosa AP, Vasconcelos PF, Guerreiro SC, Travassos da Rosa JF, Herve JP. [Estimation of the survival rate, the relative density and the infection rate of a population of *Haemagogus janthinomys* Dyar (Diptera, Culicidae) from which strains of yellow fever were isolated in Brazilian Amazon]. Bull Soc Pathol Exot 1991;84(4):386-97. (Fre).
- Despres P, Dietrich J, Girard M, Bouloy M. Recombinant baculoviruses expressing yellow fever virus E and NS1 proteins elicit protective immunity in mice. J Gen Virol 1991 Nov;72(Pt 11):2811-6.
- Despres P, Ruiz-Linares A, Cahour A, Girard M, Wychowski C, Bouloy M. The 15 amino acid residues preceding the amino terminus of the envelope protein in the yellow fever virus polyprotein precursor act as a signal peptide. Virus Res 1990 Apr;16(1):59-75.
- dos Santos CN, Post PR, Carvalho R, Ferreira II, Rice CM, Galler R. Complete nucleotide sequence of yellow fever virus vaccine strains 17DD and 17D-213. Virus Res 1995 Jan;35(1):35-41.
- Drouet A, Chagnon A, Valance J, Carli P, Muzellec Y, Paris J F. [Meningoencephalitis after vaccination against yellow fever with the 17 D strain: 2 cases]. Rev Med Interne 1993 Apr;14(4):257-9.

- Gapochko KG, Titova TS, Savelev AP, Misnikov OP, Evstigneev VI, Gamleshko KhP, Popova VD, Samoilova LV. [Combined (associated) vaccination against quarantinable infections]. *Zh Mikrobiol Epidemiol Immunobiol* 1994 Sep-Oct;(5):49-53. (Rus).
- Gibson CA, Wills MR, Gould EA, Sanders PG, Barrett AD. Effect of administration of sodium aurothiomalate on the virulence of yellow fever viruses in adult mice. *Vaccine* 1990 Dec;8(6):590-4.
- Gillett JD. The monkey myth [letter]. *Lancet* 1994 Jan 8; 343(8889):126.
- Gluckman SJ. Immunization of adults [letter]. *N Engl J Med* 1993 Sep 30;329(14):1047; discussion 1047-8. Comment on: *N Engl J Med* 1993 Apr 29;328(17):1252-8.
- Grabenstein JD. Immunizations for international travel: Part I. *Hosp Pharm* 1991 Jul;26(7):636-7, 640-1, 657.
- Gratz NG. Emergency control of Aedes aegypti as a disease vector in urban areas. *J Am Mosq Control Assoc* 1991 Sep;7(3):353-65.
- Hahn YS, Lanches EM, Galler R, Rice CM, Dalrymple J, Strauss JH. Expression of the structural proteins of dengue 2 virus and yellow fever virus by recombinant vaccinia viruses. *Arch Virol* 1990;115(3-4):251-65.
- Hall WC, Crowell TP, Watts DM, Barros VL, Kruger H, Pinheiro F, Peters CJ. Demonstration of yellow fever and dengue antigens in formalin-fixed paraffin-embedded human liver by immunohistochemical analysis. *Am J Trop Med Hyg* 1991 Oct;45(4):408-17.
- Hill DR. Immunizations for foreign travel. *Yale J Biol Med* 1992 Jul-Aug;65(4):293-315.
- Husson van Vliet J. Assessment of an end-point microassay for yellow fever vaccine. *Biologicals* 1990 Jan;18(1): 25-7.
- Ishak R, Howard CR. The thermal stability of yellow fever vaccines. *Mem Inst Oswaldo Cruz* 1990 Jul-Sep;85(3): 339-45.
- Isturiz RE, Stamboulian D, Lepetic A, Mondolfi A. Health advice for travelers to Latin America. *Infect Dis Clin North Am* 1994 Mar;8(1):155-81. Published erratum appears in *Infect Dis Clin North Am* 1994 Jun;8(2):xii.
- Jeanes CW. Tropical health and quarantine notes. *Can Commun Dis Rep* 1992 Jan 31;18(2):15-6.
- Jennings AD, Gibson CA, Miller BR, Mathews JH, Mitchell CJ, Roehrig JT, Wood DJ, Taffs F, Sil BK, Whitby SN, et al. Analysis of a yellow fever virus isolated from a fatal case of vaccine-associated human encephalitis. *J Infect Dis* 1994 Mar;169(3):512-8.
- Jennings AD, Whitby JE, Minor PD, Barrett AD. Comparison of the nucleotide and deduced amino acid sequences of the envelope protein genes of the wild-type French viscerotropic strain of yellow fever virus and the live vaccine strain, French neurotropic vaccine, derived from it. *Virology* 1993 Feb;192(2):692-5.
- Jennings AD, Whitby JE, Minor PD, Barrett AD. Comparison of the nucleotide and deduced amino acid sequences of the structural protein genes of the yellow fever 17DD vaccine strain from Senegal with those of other yellow fever vaccine viruses. *Vaccine* 1993;11(6): 679-81.
- Kles V, Michault A, Rodhain F, Mevel F, Chastel C. [A serological survey regarding Flaviviridae infections on the island of Reunion (1971-1989)]. *Bull Soc Pathol Exot* 1994;87(2):71-6.
- Ledger TN, Sil BK, Dunster LM, Stephenson JR, Minor PD, Barrett AD. Yellow fever 17DD vaccine virus is temperature sensitive when grown in mosquito C6-36 cells. *Vaccine* 1992;10(10):652-4.
- Ledger TN, Sil BK, Wills MR, Lewis G, Kinney RM, Jennings AD, Stephenson JR, Barrett AD. Variation in the biological function of envelope protein epitopes of yellow fever vaccine viruses detected with monoclonal antibodies. *Biologicals* 1992 Jun;20(2):117-28.
- Lepiniec L, Dalgarno L, Huong VT, Monath TP, Digoutte JP, Deubel V. Geographic distribution and evolution of yellow fever viruses based on direct sequencing of genomic cDNA fragments. *J Gen Virol* 1994 Feb; 75(Pt 2):417-23.
- Loutan L, Robert CF, Raeber PA. Outbreak of yellow fever in Kenya: how doctors got the news [letter]. *Lancet* 1993 Apr 17;341(8851):1030.
- Makino Y, Tadano M, Saito M, Maneekarn N, Sittisombut N, Sirisanthana V, Poneprasert B, Fukunaga T. Studies on serological cross-reaction in sequential flavivirus infections. *Microbiol Immunol* 1994;38(12):951-5.
- Marchevsky RS, Mariano J, Ferreira VS, Almeida E, Cerqueira MJ, Carvalho R, Pissurno JW, da Rosa AP, Simoes MC, Santos CN, et al. Phenotypic analysis of yellow fever virus derived from complementary DNA. *Am J Trop Med Hyg* 1995 Jan;52(1):75-80.
- Marsden PD. Letter from Brasilia. Yellow fever. *BMJ* 1990 Dec 15;301(6765):1382-3.
- Merlo C, Steffen R, Landis T, Tsai T, Karabatsos N. Possible association of encephalitis and 17D yellow fever vaccination in a 29-year-old traveller [letter]. *Vaccine* 1993;11(6):691.
- Mili N. [An epidemic of yellow fever in Peru]. *Rev Med Suisse Romande* 1990 May;110(5):413-5. (Fre).

- Miller BR, Mitchell CJ. Genetic selection of a flavivirus- refractory strain of the yellow fever mosquito Aedes aegypti. *Am J Trop Med Hyg* 1991 Oct;45(4):399-407.
- Monath TP. Yellow fever: Victor, Victoria? Conqueror, conquest? Epidemics and research in the last forty years and prospects for the future. *Am J Trop Med Hyg* 1991 Jul;45(1):1-43.
- Monath TP, Nasidi A. Should yellow fever vaccine be included in the expanded program of immunization in Africa? A cost-effectiveness analysis for Nigeria. *Am J Trop Med Hyg* 1993 Feb;48(2):274-99.
- Mosimann B, Stoll B, Francillon C, Pecoud A. Yellow fever vaccine and egg allergy [letter]. *J Allergy Clin Immunol* 1995 May;95(5 Pt 1):1064.
- Mouchon D, Pignon D, Vicens R, Tu-Ha-Thanh, Tekia F, Teulieres L, Garrigue G. [The combined measles-yellow fever vaccination in African infants aged 6 to 10 months]. *Bull Soc Pathol Exot* 1990;83(4):537-51. (Fre).
- Nasidi A, Monath TP, Vandenberg J, Tomori O, Calisher CH, Hurtgen X, Munube GR, Sorungbe AO, Okafor GC, Wali S. Yellow fever vaccination and pregnancy: a four-year prospective study. *Trans R Soc Trop Med Hyg* 1993 May-Jun;87(3):337-9.
- Nestorowicz A, Chambers TJ, Rice CM. Mutagenesis of the yellow fever virus NS2A/2B cleavage site: effects on proteolytic processing, viral replication, and evidence for alternative processing of the NS2A protein. *Virology* 1994 Feb 15;199(1):114-23.
- Nogueira RM, Schatzmayr HG, Miagostovich MP, Cavalcanti SM, de Carvalho R. Use of MAC-ELISA for evaluation of yellow fever vaccination. *Rev Inst Med Trop Sao Paulo* 1992 Sep-Oct;34(5):447-50.
- Okello GB, Agata N, Ouma J, Cherogony SC, Tukei PM, Ochieng W, den Boer JW, Sanders EJ. Outbreak of yellow fever in Kenya [letter]. *Lancet* 1993 Feb 20; 341(8843):489.
- Omilabu SA, Adejumo JO, Olaleye OD, Fagbami AH, Baba SS. Yellow fever haemagglutination-inhibiting, neutralising and IgM antibodies in vaccinated and unvaccinated residents of Ibadan, Nigeria. *Comp Immunol Microbiol Infect Dis* 1990;13(2):95-100.
- Osinusi K, Akinkugbe FM, Akinwolere OA, Fabiyi A. Safety and efficacy of yellow fever vaccine in children less than one-year-old. *West Afr J Med* 1990 Jul-Sep;9(3):200-3.
- Oyelami SA, Olaleye OD, Oyejide CO, Omilabu SA, Fatunla BA. Severe post-vaccination reaction to 17D yellow fever vaccine in Nigeria. *Rev Roum Virol* 1994 Jan-Jun; 45(1-2):25-30.
- PAHO advisory: Aedes albopictus in the Caribbean. *Epidemiol Bull* 1993 Oct;14(3):15.
- Pincus S, Mason PW, Konishi E, Fonseca BA, Shope RE, Rice CM, Paoletti E. Recombinant vaccinia virus producing the prM and E proteins of yellow fever virus protects mice from lethal yellow fever encephalitis. *Virology* 1992 Mar;187(1):290-7.
- Post PR, Carvalho R, Galler R. Glycosylation and secretion of yellow fever virus nonstructural protein NS1. *Virus Res* 1991 Mar;18(2-3):291-302.
- Post PR, Santos CN, Carvalho R, Cruz AC, Rice CM, Galler R. Heterogeneity in envelope protein sequence and N-linked glycosylation among yellow fever virus vaccine strains. *Virology* 1992 May;188(1):160-7.
- Post PR, Santos CN, Carvalho R, Lopes OS, Galler R. Molecular analysis of yellow fever virus 17DD vaccine strain. *Mem Inst Oswaldo Cruz* 1991 Apr-Jun;86(2): 239-46.
- Poveda JD, Raccourt CP, Le Fur R, Bailara L, Malvy JM, Le Bras M, Saliou P, Fleury HJ. [The inhibiting effect of anticholera vaccination carried out simultaneously or at short intervals on yellow fever immunization. Is it real or assumed? Results of a retrospective study]. *Bull Soc Pathol Exot* 1990;83(4):529-35; discussion 535-6. (Fre).
- Putnak JR, Schlesinger JJ. Protection of mice against yellow fever virus encephalitis by immunization with a vaccinia virus recombinant encoding the yellow fever virus non-structural proteins, NS1, NS2a and NS2b. *J Gen Virol* 1990 Aug;71(Pt 8):1697-702.
- Rao LV, Polasa H. Chromosomal aberrations in germ cells of male mice immunised with attenuated viral vaccines (human). *J Med Microbiol* 1990 Feb;31(2):115-8.
- Rasshchepkina MN, Levina VD, Vorobeva MS, Kozlov VG. [The quality standardization of a national vaccine against yellow fever]. *Zh Mikrobiol Epidemiol Immunobiol* 1990 Jul; (7):47-50. (Rus).
- Rawlins SC, Hull B, Chadee DD, Martinez R, LeMaitre A, James F, Webb L. Sylvatic yellow fever activity in Trinidad, 1988-1989. *Trans R Soc Trop Med Hyg* 1990 Jan-Feb;84(1):142-3.
- Receveur MC, Quiniou JM, Delprat P, Monlun E, Lehner V, Le Bras M. [Simultaneous vaccination against hepatitis A and yellow fever]. *Bull Soc Pathol Exot* 1993;86(5 Pt 2): 406-9. (Fre).
- Resurgence of yellow fever [news]. *World Health Forum* 1993;14(1):91-2.
- Robert V, Lhuillier M, Meunier D, Sarthou J L, Monteny N, Digoutte J P, Cornet M, Germain M, Cordellier R. [Yellow fever virus, dengue 2 and other arboviruses isolated from mosquitos, in Burkina Faso, from 1983 to 1986. Entomological and epidemiological

- considerations]. Bull Soc Pathol Exot 1993;86(2):90-100.
- Rodhain F. The role of monkeys in the biology of dengue and yellow fever. Comp Immunol Microbiol Infect Dis 1991;14(1):9-19.
- Roers A, Hochkeppel HK, Horisberger MA, Hovanessian A, Haller O. MxA gene expression after live virus vaccination: a sensitive marker for endogenous type I interferon. J Infect Dis 1994 Apr;169(4):807-13.
- Roisin A. [Yellow fever, a disease always present in Africa]. Sante 1994 May-Jun;4(3):201-2. (Fre).
- Sangster MY, Heliamos DB, MacKenzie JS, Shellam GR. Genetic studies of flavivirus resistance in inbred strains derived from wild mice: evidence for a new resistance allele at the flavivirus resistance locus (Flv). J Virol 1993 Jan;67(1):340-7.
- Schlesinger JJ, Chapman S. Neutralizing F(ab')² fragments of protective monoclonal antibodies to yellow fever virus (YF) envelope protein fail to protect mice against lethal YF encephalitis. J Gen Virol 1995 Jan;76(Pt 1):217-20.
- Schlesinger JJ, Brandriss MW, Putnak JR, Walsh EE. Cell surface expression of yellow fever virus non-structural glycoprotein NS1: consequences of interaction with antibody. J Gen Virol 1990 Mar;71(Pt 3):593-9.
- Schlesinger JJ, Foltzer M, Chapman S. The Fc portion of antibody to yellow fever virus NS1 is a determinant of protection against YF encephalitis in mice. Virology 1993 Jan;192(1):132-41.
- Schoub BD, Dommann CJ, Johnson S, Downie C, Patel PL. Encephalitis in a 13-year-old boy following 17D yellow fever vaccine. J Infect 1990 Jul;21(1):105-6.
- Shiu SY, Morikawa S, Buckley A, Higgs S, Karunakaranair V, Blachere C, Gould EA. 17D yellow fever vaccine virus envelope protein expressed by recombinant baculovirus is antigenically indistinguishable from authentic viral protein. J Gen Virol 1991 Jun;72(Pt 6): 1451-4.
- Shope R. Global climate change and infectious diseases. Environ Health Perspect 1991 Dec;96:171-4.
- Sil BK, Dunster LM, Ledger TN, Wills MR, Minor PD, Barrett AD. Identification of envelope protein epitopes that are important in the attenuation process of wild-type yellow fever virus. J Virol 1992 Jul;66(7):4265-70.
- Sinha MK, Majumder NM. Will the present health check-up system invite yellow fever in India? Indian J Public Health 1990 Apr-Jun;34(2):119-21.
- Sood DK, Aggarwal RK, Kumar S, Sokhey J. A rapid test for measuring the infectivity of Yellow Fever vaccine. Vaccine 1995 Apr;13(5):427-8.
- Sood DK, Aggarwal RK, Sharma SB, Sokhey J, Singh H. Study on the stability of 17D-204 yellow fever vaccine before and after stabilization. Vaccine 1993;11(11): 1124-8.
- Soula G, Sylla A, Pichard E, Kadio B, Bentejac MC, Teulieres L, Saliou P. [A new combined vaccine against yellow fever and measles in infants aged 6 to 24 months in Mali]. Bull Soc Pathol Exot 1991;84(5 Pt 5):885-97. (Fre).
- Tabachnick WJ. Evolutionary genetics and arthropod-borne disease the yellow fever mosquito. Am Entomol 1991; 37(1):14-24.
- Takacs M, Berencsi G, Mezey I, Brojnas J, Barcsay E, Garamvolgyi E, Hutter E, Ferenczi E, Pipirasz E, Hollos I, et al. Detection of transfusion-associated hepatitis caused by non-A, non-B, non-C flavivirus. Acta Microbiol Immunol Hung 1994;41(1):83-9.
- Thonnon J, Chauvancy G. [Evaluation of the immunological and entomological indices of yellow fever in the subprefecture of Tai, Ivory Coast]. Bull Soc Pathol Exot 1994;87(1):7-10. (Fre).
- Tignor GH, Casals J, Shope RE. The yellow fever epidemic in Ethiopia, 1961-1962: retrospective serological evidence for concomitant Ebola or Ebola-like virus infection. Trans R Soc Trop Med Hyg 1993 Mar-Apr;87(2):162.
- Tsai TF, Paul R, Lynberg MC, Letson GW. Congenital yellow fever virus infection after immunization in pregnancy. J Infect Dis 1993 Dec;168(6):1520-3. Comment in: J Infect Dis 1994 Jul;170(1):251.
- [Update: International Task Force for Disease Eradication. 1990 and 1991]. Wkly Epidemiol Rec 1992 Mar 27; 67(13):89-91. (Fre).
- Vicens R, Robert V, Pignon D, Zeller H, Ghippone PM, Digoutte JP. [Yellow fever epidemic in the extreme North of Cameroon in 1990: first yellow fever virus isolation in Cameroon]. Bull World Health Organ 1993;71(2):173-6. (Fre).
- Wang E, Ryman KD, Jennings AD, Wood DJ, Taffs F, Minor PD, Sanders PG, Barrett AD. Comparison of the genomes of the wild-type French viscerotropic strain of yellow fever virus with its vaccine derivative French neurotropic vaccine. J Gen Virol 1995 Nov;76(Pt 11): 2749-55.
- Warren P, Tamura JK, Collett MS. RNA-stimulated NTPase activity associated with yellow fever virus NS3 protein expressed in bacteria. J Virol 1993 Feb;67(2): 989-96.
- Weijers RN, Mulder J, Lawson C, Leunissen J. Induction of autoantibodies to human enzymes following viral infection: a biologically relevant hypothesis. Eur J Clin Chem Clin Biochem 1992

Aug;30(8):449-54.

Wilder MH. Counseling the international traveler. Update '93. J Fla Med Assoc 1993 May;80(5):334-40.

[Yellow fever]. Wkly Epidemiol Rec 1993 May 28;68(22): 159-60. (Fre).

Yellow fever. Wkly Epidemiol Rec 1995 Jun 9;70(23):163-4.

Yellow fever. Wkly Epidemiol Rec 1995 Jun 16;70(24): 175-6.

[Yellow fever. Epidemic in Cameroon, 1990]. Wkly Epidemiol Rec 1991 Mar 15;66(11):76-7. (Fre).

[Yellow fever. Investigation of an epidemic in Imo State]. Wkly Epidemiol Rec 1995 Apr 14;70(15):107-10. (Fre).

[Yellow fever in 1988]. Wkly Epidemiol Rec 1990 Jul 13; 65(28):213-9. (Fre).

[Yellow fever in 1989 and 1990]. Wkly Epidemiol Rec 1992 Aug 14;67(33):245-51. (Fre).

[Yellow fever in 1991]. Wkly Epidemiol Rec 1993 Jul 16; 68(29):209-15. (Fre).

[Yellow fever in 1992 and 1993]. Wkly Epidemiol Rec 1995 Mar 10;70(10):65-70. (Fre).

Yellow fever in Kenya. Commun Dis Rep CDR Wkly 1993 Feb 19;3(8):33.

Yellow fever vaccine. Recommendations of the Immunization Practices Advisory Committee (ACIP). MMWR Morb Mortal Wkly Rep 1990 May 4;39(RR-6):1-6.

[Yellow fever virus surveillance in Western Africa]. Wkly Epidemiol Rec 1994 Apr 1;69(13):93-5. (Fre).

[Yellow-fever vaccinating centres for international travel. Amendments to 1991 publication]. Wkly Epidemiol Rec 1991 Nov 22;66(47):348-51. (Fre).

Yoshida CF, Rouzere CD, Nogueira RM, Lampe E, Travassos-da-Rosa MA, Vanderborgh BO, Schatzmayr HG. Human antibodies to dengue and yellow fever do not react in diagnostic assays for hepatitis C virus. Braz J Med Biol Res 1992;25(11):1131-5.

Zeze DG, Koffi AA. [Stegomyian indices and epidemiological status of yellow fever in a rural area of the Ivory Coast]. Med Trop (Mars) 1994;54(4):324-30. (Fre).

KYASANUR FOREST DISEASE

Adhikari Prabha MR, Prabhu MG, Raghuvir CV, Bai M, Mala MA. Clinical study of 100 cases of Kyasanur Forest disease with clinicopathological correlation. Indian J Med Sci 1993 May;47(5):124-30.

Venugopal K, Gritsun T, Lashkevich VA, Gould EA. Analysis of the structural protein gene sequence shows Kyasanur Forest disease virus as a distinct member in the tick-borne encephalitis virus serocomplex. J Gen Virol 1994;75(1):227-32.

OMSK HEMORRHAGIC FEVER

Foberg U, Fryden A, Isaksson B, Jahrling P, Johnson A, McKee K, Niklasson B, Normann B, Peters C, Bengtsson M. Viral haemorrhagic fever in Sweden: experiences from management of a case. *Scand J Infect Dis* 1991; 23(2):143-51.

Gritsun TS, Lashkevich VA, Gould EA. Nucleotide and deduced amino acid sequence of the envelope glycoprotein of Omsk haemorrhagic fever virus; comparison with other flaviviruses. *J Gen Virol* 1993 Feb;74(Pt 2):287-91.

FILOVIRUS INFECTIONS

Barr J, Chambers P, Pringle CR, Easton AJ. Sequence of the major nucleocapsid protein gene of pneumonia virus of mice: sequence comparisons suggest structural homology between nucleocapsid proteins of pneumoviruses, paramyxoviruses, rhabdoviruses and filoviruses. *J Gen Virol* 1991 Mar;72(Pt 3):677-85.

Becker S, Feldmann H, Will C, Slenczka W. Evidence for occurrence of filovirus antibodies in humans and imported monkeys: do subclinical filovirus infections occur worldwide? *Med Microbiol Immunol (Berl)* 1992;181(1): 43-55.

Bukreyev AA, Volchkov VE, Blinov VM, Netesov SV. The VP35 and VP40 proteins of filoviruses. Homology between Marburg and Ebola viruses. *FEBS Lett* 1993 May 3;322(1):41-6.

Corey L. Rabies rhabdoviruses and Marburg-like agents. In: Wilson JD, et al., editors. *Harrison's principles of internal medicine*. 12th ed. New York: McGraw-Hill; 1991. p. 720-5.

Elliott LH, Bauer SP, Perez-Oronoz G, Lloyd ES. Improved specificity of testing methods for filovirus antibodies. *J Virol Methods* 1993 Jun;43(1):85-9.

Feldmann H, Klenk HD, Sanchez A. Molecular biology and evolution of filoviruses. *Arch Virol Suppl* 1993;7:81-100.

Feldmann H, Nichol ST, Klenk HD, Peters CJ, Sanchez A. Characterization of filoviruses based on differences in structure and antigenicity of the virion glycoprotein. *Virology* 1994 Mar;199(2):469-73.

Fisher-Hoch SP, Brammer TL, Trappier SG, Hutwagner LC, Farrar BB, Ruo SL, Brown BG, Hermann LM, Perez-Oronoz GI, Goldsmith CS, et al. Pathogenic potential of filoviruses: role of geographic origin of primate host and virus strain. *J Infect Dis* 1992 Oct; 166(4):753-63.

Fisher-Hoch SP, Perez-Oronoz GI, Jackson EL, Hermann LM, Brown BG. Filovirus clearance in non-human primates. *Lancet* 1992 Aug 22;340(8817):451-3.

Jahrling PB. Marburg virus, Ebola virus, and the arenaviruses. In: Rose NR, et al., editors. *Manual of clinical laboratory immunology*. 4th ed. Washington: American Society for Microbiology; 1992. p. 619-30.

Johnson ED, Gonzalez JP, Georges A. Filovirus activity among selected ethnic groups inhabiting the tropical forest of equatorial Africa. *Trans R Soc Trop Med Hyg* 1993 Sep-Oct;87(5):536-8.

Johnson ED, Gonzalez JP, Georges A. Haemorrhagic fever virus activity in equatorial Africa: distribution and prevalence of filovirus

- reactive antibody in the Central African Republic. *Trans R Soc Trop Med Hyg* 1993 Sep-Oct;87(5):530-5.
- Johnson KM. Marburg and Ebola viruses. In: Mandell GL, Douglas RG Jr, Bennet JE, editors. *Principles and practice of infectious diseases*. 3rd ed. New York: Churchill Livingston; 1990. p. 1303-6.
- Lecatsas G, Neethling FA, De Klerk WA, Gridelli B. Filovirus seropositivity in prospective organ donor baboons. *Transplant Proc* 1992 Apr;24(2):617-8.
- Niklasson B, Tegnell A, Eriksson H. [Filovirus--a cause of hemorrhagic fever]. *Lakartidningen* 1995 Jul 12; 92(28-29):2729-31. (Swe).
- Peters CJ, Jahrling PB, Ksiazek TG, Johnson ED, Lupton HW. Filovirus contamination of cell cultures. *Dev Biol Stand* 1992;76:267-74.
- Peters CJ, Johnson ED, Jahrling PB, Ksiazek TG, Rollin PE, White J, Hall W, Trotter R, Jaax N. Filoviruses. In: Morse SS, editor. *Emerging viruses*. Oxford: Oxford University Press; 1993. p. 159-75.
- Peters CJ, Sanchez A, Feldmann H, Rollin PE, Nichol S, Ksiazek TG. Filoviruses as emerging pathogens. *Sem Virol* 1994;5(2):147-54.
- Pshenichnov VA, Makhlai AA, Mikhailov VV. [Research with the Marburg, Lassa and Ebola viruses]. *Vopr Virusol* 1993 Mar-Apr;38(2):54-8. (Rus).
- Rollin PE, Ksiazek TG, Jahrling PB, Haines M, Peters CJ. Detection of Ebola-like viruses by immunofluorescence [letter]. *Lancet* 1990 Dec 22;336(8730):1591.
- Sanchez A, Kiley MP, Holloway BP, Auperin DD. Sequence analysis of the Ebola virus genome: organization, genetic elements, and comparison with the genome of Marburg virus. *Virus Res* 1993 Sep;29(3):215-40.
- Sanchez A, Kiley MP, Klenk HD, Feldmann H. Sequence analysis of the Marburg virus nucleoprotein gene: comparison to Ebola virus and other non-segmented negative-strand RNA viruses. *J Gen Virol* 1992 Feb; 73(Pt 2):347-57.
- Simpson DI. The filovirus enigma. *Lancet* 1995 May 20; 345(8960):1252-3. Comment on: *Lancet* 1995 May 20; 345(8960):1271-4.
- EBOLA**
- Anderson GC. Monkey imports may be curtailed in US [news]. *Nature* 1990 Mar 22;344(6264):280.
- Anderson GC. US shuts down monkey trade [news]. *Nature* 1990 Mar 29;344(6265):369.
- Bennett D, Brown D. Ebola virus [editorial]. *BMJ* 1995 May 27;310(6991):1344-5.
- Burkhardt U, Blessing J. [Ebola virus and hemorrhagic fever--still a mysterious disease. Pathogens are endemic in tropical Africa-- humans and monkeys are apparently only secondary hosts]. *Fortschr Med* 1995 Jun 10; 113(16):43-5.
- Camprasse MA. [Ebola 1995: history repeats itself (editorial)]. *Sante* 1995 May-Jun;5(3):143-4. (Fre).
- Chepurnov AA, Chuev IuP, Piankov OV, Efimova IV. [The effect of some physical and chemical factors on inactivation of the Ebola virus]. *Vopr Virusol* 1995 Mar-Apr;40(2):74-6. (Rus).
- Chepurnov AA, Merzlikin NV, Chepurnova TS, Vorobeva MS. [Preparation of rabbit antiserum to Ebola virus]. *Vopr Virusol* 1994 Nov-Dec;39(6):286-8. (Rus).
- Chepurnov AA, Merzlikin NV, Rabchikova EI, Chepurnova TS, Volchkov VE, Istomina NN, Kuzmin VA, Vorobeva MS. [Isolation of purified Ebola virus]. *Vopr Virusol* 1994 Nov-Dec;39(6):254-7. (Rus).
- Clegg JCS, Lloyd G. Ebola haemorrhagic fever in Zaire, 1995: A perspective. *Curr Opin Infect Dis* 1995;8(4): 225-8.
- Dalgard DW, Hardy RJ, Pearson SL, Pucak GJ, Quander RV, Zack PM, Peters CJ, Jahrling PB. Combined simian hemorrhagic fever and Ebola virus infection in cynomolgus monkeys. *Lab Anim Sci* 1992 Apr;42(2): 152-7.
- Dedkova LM, Kudoiarova NM, Chepurcov AA, Ofitserov VI. [Composition and immunochemical properties of goat immunoglobulins against the Ebola virus]. *Vopr Virusol* 1994 Sep-Oct;39(5):229-32. (Rus).
- Downs WG. Ebola virus disease. In: Kiple KF, editor. *The Cambridge world history of human disease*. Cambridge: Cambridge University Press; 1993. p. 699-702.
- Dyer O. Ebola threat eases [news]. *BMJ* 1995 May 27; 310(6991):1353.
- Ebola again [news]. *Am J Infect Control* 1995 Jun;23(3): 214.
- [Ebola haemorrhagic fever]. *Wkly Epidemiol Rec* 1995 May 19;70(20):147-8. (Fre).

- Ebola haemorrhagic fever. *Wkly Epidemiol Rec* 1995 May 26;70(21):149-51.
- Ebola haemorrhagic fever. *Wkly Epidemiol Rec* 1995 Jun 2;70(22):158.
- Ebola hemorrhagic fever. A brief description. *Can Commun Dis Rep* 1995 Jun 15;21(11):103-4.
- Ebola-Reston virus infection among quarantined nonhuman primates--Texas, 1996. *MMWR Morb Mortal Wkly Rep* 1996 Apr 19;45(15):314-6.
- [Ebola virus]. *Wkly Epidemiol Rec* 1990 Feb 16;65(7):45-7. (Fre).
- [Ebola virus infection in imported primates--United States]. *Can Dis Wkly Rep* 1990 Jan 27;16(4):17-8. (Fre).
- Elliott LH, Sanchez A, Holloway BP, Kiley MP, McCormick JB. Ebola protein analyses for the determination of genetic organization. *Arch Virol* 1993;133(3-4):423-36.
- From the Centers for Disease Control and Prevention. Outbreak of Ebola viral hemorrhagic fever-Zaire, 1995. *JAMA* 1995 Jun 14;273(22):1747-8.
- From the Centers for Disease Control and Prevention. Update: outbreak of Ebola viral hemorrhagic fever-- Zaire, 1995. *JAMA* 1995 Jun 14;273(22):1748.
- From the Centers for Disease Control and Prevention. Update: outbreak of Ebola viral hemorrhagic fever-- Zaire, 1995. *JAMA* 1995 Aug 2;274(5):373-4.
- Geisbert TW, Jahrling PB. Use of immunoelectron microscopy to show Ebola virus during the 1989 United States epizootic. *J Clin Pathol* 1990 Oct;43(10):813-6.
- Geisbert TW, Jahrling PB, Hanes MA, Zack PM. Association of Ebola-related Reston virus particles and antigen with tissue lesions of monkeys imported to the United States. *J Comp Pathol* 1992 Feb;106(2):137-52.
- Geisbert TW, Rhoderick JB, Jahrling PB. Rapid identification of Ebola virus and related filoviruses in fluid specimens using indirect immunoelectron microscopy. *J Clin Pathol* 1991 Jun;44(6):521-2.
- Gonzalez JP. [Ebola, a tranquil river in the heart of Africa (editorial)]. *Sante* 1995 May-Jun;5(3):145-6. (Fre).
- Hayes CG, Burans JP, Ksiazek TG, Del Rosario RA, Miranda ME, Manaloto CR, Barrientos AB, Robles CG, Dayrit MM, Peters CJ. Outbreak of fatal illness among captive macaques in the Philippines caused by an Ebola-related filovirus.
- Am J Trop Med Hyg 1992 Jun; 46(6):664-71.
- Heymann DL, Piot P. The laboratory, epidemiology, nosocomial infection and HIV [editorial]. *AIDS* 1994 May;8(5):705-6.
- Jahrling PB, Geisbert TW, Dalgard DW, Johnson ED, Ksiazek TG, Hall WC, Peters CJ. Preliminary report: isolation of Ebola virus from monkeys imported to USA. *Lancet* 1990 Mar 3;335(8688):502-5.
- Kelly MJ. Research on Ebola virus [letter]. *Lancet* 1996 Mar 9;347(9002):691.
- Kita J. [Continuation of infectious diseases: Epidemics- epizootics]. *Med Wet* 1994;50(11):529-33. (Pol).
- Krasnianskii BP, Mikhailov VV, Borisevich IV, Gradoboev VN, Evseev AA, Pshenichnov VA. [Preparation of hyperimmune horse serum against Ebola virus]. *Vopr Virusol* 1995 May-Jun;40(3):138-40. (Rus).
- Krasnianskii VP, Mikhailov VV, Borisevich IV, Gradoboev VN, Evseev AA, Pshenichnov VA. [The isolation of hyperimmune horse serum to the Ebola virus]. *Vopr Virusol* 1994 Mar-Apr;39(2):91-2. (Rus).
- Ksiazek TG, Rollin PE, Jahrling PB, Johnson E, Dalgard DW, Peters CJ. Enzyme immunoassay for Ebola virus antigens in tissues of infected primates. *J Clin Microbiol* 1992 Apr;30(4):947-50.
- Ksiazek TG, Rollin PE, Jahrling PB, Peters CJ. Enzyme immunoassay assays for Ebola virus IGG and IGM antibodies [abstract]. *Am J Trop Med Hyg* 1991; 64(3 Suppl):173. 40th Annual Meeting of the American Society of Tropical Medicine and Hygiene; 1991 Dec 1-5; Boston.
- Le Guenno B, Formentry P, Wyers M, Gounon P, Walker F, Boesch C. Isolation and partial characterisation of a new strain of Ebola virus. *Lancet* 1995 May 20;345(8960): 1271-4. Comment in: *Lancet* 1995 May 20;345(8960): 1252-3.
- Lee F. Infectious terror [news]. *Nurs Times* 1995 May 31-Jun 6;91(22):18.
- Leutwyler K. Hide-and-seek. Ebola--and the funds to study it--eludes researchers [news]. *Sci Am* 1995 Sep; 273(3):34-6.
- Merzlikin NV, Chepurnov AA, Istomina NN, Ofitserov VI, Vorobeva MS. [Development and application of an immunoenzyme test system for diagnosing Ebola fever]. *Vopr Virusol* 1995 Jan-Feb;40(1):31-5. (Rus).
- Mikhailov VV, Borisevich IV, Chernikova NK, Potryvaeva NV, Krasnianskii VP. [The evaluation in hamadryas baboons of the possibility for the

- specific prevention of Ebola fever]. Vopr Virusol 1994 Mar-Apr;39(2):82-4. (Rus).
- Miranda ME, White ME, Dayrit MM, Hayes CG, Ksiazek TG, Burans JP. Seroepidemiological study of filovirus related to Ebola in the Philippines [letter]. Lancet 1991 Feb 16;337(8738):425-6.
- Morell V. Chimpanzee outbreak heats up search for Ebola origin [news]. Science 1995 May 19;268(5213):974-5.
- Morosetti G, Nardo P de. [Update on cases of Ebola virus infection with special reference to the examination of non-human primates]. Nuovo Prog Vet 1990;45(11): 415-8, 420. (Ita).
- Muyembe T, Kipasa M. Ebola haemorrhagic fever in Kikwit, Zaire. International Scientific and Technical Committee and WHO Collaborating Centre for Haemorrhagic Fevers [letter]. Lancet 1995 Jun 3;345(8962):1448.
- Outbreak of Ebola hemorrhagic fever--Zaire, 1995. Epidemiol Bull 1995 Jul;16(2):16.
- Outbreak of Ebola viral hemorrhagic fever--Zaire, 1995. MMWR Morb Mortal Wkly Rep 1995 May 19;44(19): 381-2.
- Palca J. Import rules threaten research on primates [news]. Science 1990 Jun 1;248(4959):1071-3. Comment in: Science 1990 Oct 26;250(4980):492.
- Palca J. Not enough monkey business [news]. Science 1990 Oct 26;250(4980):502.
- Pereboeva LA, Tkachev VK, Kolesnikova LV, Krendeleva Lla, Riabchikova EI, Smolina MP. [The ultrastructural changes in guinea pig organs during the serial passage of the Ebola virus]. Vopr Virusol 1993 Jul-Aug;38(4): 179-82. (Rus).
- Piankov OV, Sergeev AN, Piankova OG, Chepurnov AA. [Experimental Ebola fever in Macaca mulatta]. Vopr Virusol 1995 May-Jun;40(3):113-5. (Rus).
- Pierard GE. [Ebola virus disease, a tropical hemorrhagic fever]. Rev Med Liege 1995 Jun;50(6):241-3. (Fre).
- Preston R. The hot zone. 1st ed. New York: Random House; 1994. 300 p.
- Riabchikova EI, Baranova SG, Tkachev VK, Grazhdantseva AA. [The morphological changes in Ebola infection in guinea pigs]. Vopr Virusol 1993 Jul-Aug;38(4):176-9. (Rus).
- Roper WL. Filovirus infection in newly imported monkeys [letter]. Science 1990 Oct 26;250(4980):492. Comment on: Science 1990 Jun 1;248(4959):1071-3.
- Sanchez A, Ksiazek TG, Rollin PE, Peters CJ, Nichol ST, Khan AS, Mahy BWJ. Reemergence of Ebola virus in Africa. Emerg Infect Dis [serial online] 1995 Jul-Sep [cited 1996 Jun 5];1(3):[6 screens]. Available from: National Center for Infectious Diseases, Centers for Disease Control and Prevention, Atlanta, GA. URL: <http://www.cdc.gov/ncidod/EID/eid.htm>
- Sun M. Imported monkey puzzle [news]. Science 1990 Mar 30;247(4950):1538. Comment in: Science 1990 Jun 22;248(4962):1473.
- Tignor GH, Casals J, Shope RE. The yellow fever epidemic in Ethiopia 1961-1962 retrospective serologic evidence for concomitant Ebola or Ebola-like virus infection [abstract]. Am J Trop Med Hyg 1992;47(4 Suppl): 241. 41st Annual Meeting of the American Society of Tropical Medicine and Hygiene; 1992 Nov 15-19; Seattle.
- Tignor GH, Casals J, Shope RE. The yellow fever epidemic in Ethiopia, 1961-1962: retrospective serological evidence for concomitant Ebola or Ebola-like virus infection. Trans R Soc Trop Med Hyg 1993 Mar-Apr;87(2):162.
- Titenko AM. [Ebola hemorrhagic fever]. Zh Mikrobiol Epidemiol Immunobiol 1993 May-Jun; (3):99-105. (Rus).
- Titenko AM, Novozhilov SS, Andaev EI, Borisova TI, Kulikova EV. [Ebola virus reproduction in cell cultures]. Vopr Virusol 1992 Mar-Apr;37(2):110-3. (Rus).
- Update: Ebola-related filovirus infection in nonhuman primates and interim guidelines for handling nonhuman primates during transit and quarantine. MMWR Morb Mortal Wkly Rep 1990 Jan 19;39(2):22-4, 29-30.
- Update: evidence of filovirus infection in an animal caretaker in a research/service facility. MMWR Morb Mortal Wkly Rep 1990 May 4;39(17):296-7.
- Update: filovirus infection associated with contact with nonhuman primates or their tissues. MMWR Morb Mortal Wkly Rep 1990 Jun 22;39(24):404-5.
- Update: filovirus infection in animal handlers. MMWR Morb Mortal Wkly Rep 1990 Apr 6;39(13):221.
- Update: filovirus infections among persons with occupational exposure to nonhuman primates. MMWR Morb Mortal Wkly Rep 1990 Apr 27;39(16):266-7, 273.
- Update: outbreak of Ebola viral hemorrhagic fever--Zaire, 1995. MMWR Morb Mortal Wkly Rep 1995 May 26; 44(20):399.
- Update: outbreak of Ebola viral hemorrhagic fever--Zaire, 1995. MMWR Morb Mortal Wkly Rep 1995 Jun 30; 44(25):468-9, 475.

Viral haemorrhagic fever in Zaire: update.
Commun Dis Rep CDR Wkly 1995 May
19;5(20):93.

Viral haemorrhagic fever: outbreak in Zaire.
Commun Dis Rep CDR Wkly 1995 May
12;5(19):89.

Volchkov VE, Blinov VM, Netesov SV. The envelope glycoprotein of Ebola virus contains an immunosuppressive-like domain similar to oncogenic retroviruses. FEBS Lett 1992 Jul 6;305(3):181-4.

MARBURG

- Agafonov AP, Ignatev GM, Kuzmin VA, Akimenko ZL, Kosareva TV, Kashentseva EA. [The immunogenic properties of Marburg virus proteins]. Vopr Virusol 1992 Jan-Feb;37(1):58-61. (Rus).
- Bazhutin NB, Belanov EF, Spiridonov VA, Voitenko AV, Krivenchuk NA, Krotov SA, Omelchenko NI, Tereshchenko Alu, Khomichev VV. [The effect of the methods for producing an experimental Marburg virus infection on the characteristics of the course of the disease in green monkeys]. Vopr Virusol 1992 May-Jun;37(3): 153-6. (Rus).
- Becker S, Huppertz S, Klenk HD, Feldmann H. The nucleoprotein of Marburg virus is phosphorylated. J Gen Virol 1994 Apr;75(Pt 4):809-18.
- Becker S, Spiess M, Klenk HD. The asialoglycoprotein receptor is a potential liver-specific receptor for Marburg virus. J Gen Virol 1995 Feb;76(Pt 2):393-9.
- Bukreyev AA, Belanov EF, Blinov VM, Netesov SV. Complete nucleotide sequences of Marburg virus genes 5 and 6 encoding VP30 and VP24 proteins. Biochem Mol Biol Int 1995 Mar;35(3):605-13.
- Bukreyev AA, Kolykhalov AA, Volchkov VE, Blinov VM, Netesov SV, Sandakhchiev LS. [Marburg virus: the first determined nucleotide sequence of two genes]. Mol Gen Mikrobiol Virusol 1991 Mar;(3):24-30. (Rus).
- Bukreyev AA, Volchkov VE, Blinov VM, Netesov SV. The GP-protein of Marburg virus contains the region similar to the 'immunosuppressive domain' of oncogenic retrovirus P15E proteins. FEBS Lett 1993 May 24; 323(1-2):183-7.
- Downs WG. Marburg virus disease. In: Kiple KF, editor. The Cambridge world history of human disease. Cambridge: Cambridge University Press; 1993. p. 862-5.
- Feldmann H, Bugany H, Mahner F, Klenk HD, Drenckhahn D, Schnittler HJ. Virus-induced endothelial leakage triggered by infected macrophages [abstract]. FASEB J 1994;8(4-5):A756. Experimental Biology 94, Parts I and II; 1994 Apr 24-28; Anaheim, CA.
- Feldmann H, Muhlberger E, Randolph A, Will C, Kiley MP, Sanchez A, Klenk HD. Marburg virus, a filovirus: messenger RNAs, gene order, and regulatory elements of the replication cycle. Virus Res 1992 Jun;24(1):1-19.
- Feldmann H, Will C, Schikore M, Slenczka W, Klenk HD. Glycosylation and oligomerization of the spike protein of Marburg virus. Virology 1991 May;182(1):353-6.
- Geyer H, Will C, Feldmann H, Klenk HD, Geyer R. Carbohydrate structure of Marburg virus glycoprotein. Glycobiology 1992 Aug;2(4):299-312.
- Gonchar NI, Pshenichnov VA, Pokhodjaev VA, Lopatov KL, Firsova IV. [The sensitivity of different experimental animals to the Marburg virus]. Vopr Virusol 1991 Sep-Oct;36(5):435-7. (Rus).
- Ignatev GM, Streltsova MA, Agafonov AP, Kashentseva EA. [Mechanisms of protective immune response in models of Marburg fever in monkeys]. Vopr Virusol 1995 May-Jun; 40(3):109-13. (Rus)
- Ignatev GM, Agafonov AP, Streltsova MA, Kuzmin VA, Mainagashova GI, Spirin GV, Chernyi NB. [A comparative study of the immunological indices in guinea pigs administered an inactivated Marburg virus]. Vopr Virusol 1991 Sep-Oct;36(5):421-3. (Rus).
- Ignatev GM, Streltsova MA, Agafonov AP, Prozorovskii NS, Zhukova NA, Kashentseva EA, Vorobeva MS. [The immunological indices of guinea pigs modelling Marburg hemorrhagic fever]. Vopr Virusol 1994 Jul-Aug;39(4): 169-71. (Rus).
- Ignatev GM, Streltsova MA, Agafonov AP, Zhukova NA, Kashentseva EA, Vorobeva MS. [The immunity indices of animals immunized with the inactivated Marburg virus after infection with homologous virus]. Vopr Virusol 1994 Jan-Feb;39(1):13-7. (Rus).
- Kenyon RH, Niklasson B, Jahrling PB, Geisbert T, Svensson L, Fryden A, Bengtsson M, Foberg U, Peters CJ. Virologic investigation of a case of suspected haemorrhagic fever. Res Virol 1994 Nov-Dec; 145(6):397-406.
- Kutuzov VA, Mikhailov VV, Kruglova SE, Kutuzov VV, Kirillov AP, Krasnianskii VP, Pshenichnov VA, Lebedinskaiia EV. [A comparative evaluation of an immunoenzyme analytical method using a fluorogenic or chromogenic substrate in determining the Marburg virus antigen]. Vopr Virusol 1993 Jan-Feb;38(1):17-8. (Rus).
- Lub MI, Sergeev AN, Piankova OG, Piankov OV, Petrishchenko VA, Kotliarov LA. [Clinical-virological characteristics of disease in guinea pigs, infected by the Marburg virus aerogenically]. Vopr Virusol 1995 May-Jun;40(3):119-21. (Rus).
- Mariankova RF, Glushakova SE, Pyzhik EV, Lukashevich IS. [The penetration of the Marburg virus into eukaryotic cells]. Vopr Virusol 1993 Mar-Apr;38(2):74-6. (Rus).
- Muhlberger E, Sanchez A, Randolph A, Will C, Kiley MP, Klenk HD, Feldmann H. The nucleotide sequence of the L gene of Marburg virus, a filovirus: homologies with paramyxoviruses and rhabdoviruses. Virology 1992 Apr; 187(2):534-47.
- Nikiforov VV, Turovskii IuI, Kalinin PP, Akinfeeva LA, Katkova LR, Barmin VS, Riabchikova EI,

- Popkova NI, Shestopalov AM, Nazarov VP, et al. [A case of a laboratory infection with Marburg fever]. Zh Mikrobiol Epidemiol Immunobiol 1994 May-Jun;(3):104-6. (Rus).
- Pokhodjaev VA, Gonchar NI, Pshenichnov VA. [An experimental study of the contact transmission of the Marburg virus]. Vopr Virusol 1991 Nov-Dec;36(6): 506-8. (Rus).
- Schnittler HJ, Mahner F, Drenckhahn D, Klenk HD, Feldmann H. Replication of Marburg virus in human endothelial cells. A possible mechanism for the development of viral hemorrhagic disease. J Clin Invest 1993 Apr;91(4):1301-9.
- Skripchenko AA, Riabchikova EI, Vorontsova LA, Shestopalov AM, Viazunov SA. [Marburg virus and mononuclear phagocytes: study of interactions]. Vopr Virusol 1994 Sep-Oct;39(5):214-8. (Rus).
- Skripchenko AA, Shestopalov AM, Iaroslavtseva OI. [A comparative study of the in-vitro interaction of the Marburg virus with macrophages from different animal species]. Vopr Virusol 1991 Nov-Dec;36(6):503-6. (Rus).
- Spiridonov VA, Bazhutin NB, Belanov EF, Voitenko AV, Zolin VV, Krivenchuk NA, Omelchenko NI, Polikanov VP, Tereshchenko AI, Khomichev VV. [Changes in the blood serum aminotransferase activity in the experimental infection of Cercopithecus aethiops monkeys with the Marburg virus]. Vopr Virusol 1992 May-Jun;37(3): 156-7. (Rus).
- Streltsova MA, Agafonov AP, Ignatev GM. [The sensitivity of different cell culture lines to the Marburg virus]. Vopr Virusol 1991 Sep-Oct;36(5):437-8. (Rus).
- Titenko AM. [Marburg hemorrhagic fever]. Zh Mikrobiol Epidemiol Immunobiol 1991 May; (5):67-71. (Rus).
- Vladyko AS, Chepurnov AA, Bystrova SI, Lemeshko NN, Lukashevich IS. [The detection of the Marburg virus antigen by solid-phase immunoenzyme analysis]. Vopr Virusol 1991 Sep-Oct;36(5):419-21. (Rus).
- Vladyko AS, Chepurnov AA, Mariankova RF, Bystrova SI, Egoricheva IN, Kuzmin VA, Lukashevich IS. [A comparison of the methods of fluorescent antibodies and solid-phase immunoenzyme analysis in the detection of Marburg virus antibodies]. Vopr Virusol 1991 Jul-Aug; 36(4):326-8. (Rus).
- Will C, Muhlberger E, Linder D, Slenczka W, Klenk HD, Feldmann H. Marburg virus gene 4 encodes the virion membrane protein, a type I transmembrane glycoprotein. J Virol 1993 Mar;67(3):1203-10.
- Arenavirus infection acquired in the laboratory. Commun Dis Rep CDR Wkly 1994 Sep 9;4(36):169.
- Baker DA. Arenaviruses. In: Gleicher N, editor. Principles and practice of medical therapy in pregnancy. 2nd ed. Norwalk (CT): Appleton & Lange; 1992. p. 79-80.
- Bishop DHL. Arenaviruses. In: McKendall RR, Stroop WG, editors. Handbook of neurovirology. New York: Marcel Dekker, Inc.; 1994. p. 613-9. (Neurological disease and therapy; 27).
- Bolanis P. [Arenaviruses]. Acta Microbiol Hell 1991;36(4); 409-15. (Gre).
- Chen JP, Marsh LC, Schroeder EC. Haemostatic derangements associated with arenavirus infection in the guinea-pig: radioimmunoassay of fibrinopeptide A to assess thrombin action in infected animals. Blood Coagul Fibrinolysis 1993 Feb;4(1):165-72.
- Clegg JC. Current progress towards vaccines for arenavirus- caused diseases. Vaccine 1992;10(2):89-95.
- Cummins D. Arenaviral haemorrhagic fevers. Blood Rev 1991 Sep;5(3):129-37.
- From the Centers for Disease Control and Prevention. Arenavirus infection--Connecticut, 1994. JAMA 1994; 272(13):998-9.
- Glushakova SE, Iakuba AI, Vasiuchkov AD, Mariankova RF, Kukareko TM, Stelmakh TA, Kurash TP, Lukashevich IS. [Lysosomotropic agents inhibit the penetration of arenaviruses into a culture of BHK-21 and Vero cells]. Vopr Virusol 1990 Mar-Apr;35(2):146-50. (Rus).
- Glushakova SE, Pyzhik EV, Vasiuchkov AD, Erokhina IR, Mariankova RF. [pH-dependent fusion of eukaryotic cells, caused by arenaviruses, pathogenic and non-pathogenic for humans]. Mol Gen Mikrobiol Virusol 1992 Jul-Aug;(7-8):27-31. (Rus).
- Guo ZM, Liu CT. Pulmonary responses of conscious strain 13 guinea pigs to Pichinde viral infection. Lab Anim Sci 1991 Dec;41(6):581-4.
- Guo ZM, Liu CT, Peters CJ. Possible involvement of endogenous beta-endorphin in the pathophysiological mechanisms of Pichinde virus-infected guinea pigs. Proc Soc Exp Biol Med 1992 Jul;200(3):343-8.
- Guo ZM, Qian C, Peters CJ, Liu CT. Changes in platelet- activating factor, catecholamine, and serotonin concentrations in brain, cerebrospinal fluid, and plasma of pichinde virus-infected guinea pigs. Lab Anim Sci 1993 Dec;43(6):569-74.
- Peters CJ. Arenavirus infections. In: McKendall RR,

- Stroop WG, editors. *Handbook of neurovirology*. New York: Marcel Dekker, Inc.; 1994. p. 621-37. (Neurological disease and therapy; 27).
- Qian C, Liu CT, Peters CJ. Increased platelet-activating factor (PAF) concentrations in hearts and lungs of Pichinde virus-infected guinea pigs. *J Lipid Mediat* 1992 Sep;5(3):261-70.
- Qian C, Liu CT, Peters CJ. Metabolism of platelet-activating factor in neutrophils isolated from Pichinde virus-infected guinea pigs. *J Leukoc Biol* 1992 Mar;51(3):210-3.
- Salvato MS, editor. *Arenaviridae*. New York: Plenum Press; 1993. 401 p.
- Vargas-Cortes M, O'Donnell CL, Maciaszek JW, Welsh RM. Generation of natural killer cell-escape variants of Pichinde virus during acute and persistent infections. *J Virol* 1992 Apr;66(4):2532-5.
- Vasconcelos PF, Travassos da Rosa AP, Rodrigues SG, Tesh R, Travassos da Rosa JF, Travassos da Rosa ES. [Laboratory-acquired human infection with SP H 114202 virus (Arenavirus: Arenaviridae family): clinical and laboratory aspects]. *Rev Inst Med Trop Sao Paulo* 1993 Nov-Dec;35(6):521-5. (Por).
- Bannister B. Lassa fever [letter]. *BMJ* 1991 Jan 12; 302(6768):114.
- Barber GN, Clegg JC, Lloyd G. Expression of the Lassa virus nucleocapsid protein in insect cells infected with a recombinant baculovirus: application to diagnostic assays for Lassa virus infection. *J Gen Virol* 1990 Jan;71(Pt 1): 19-28.
- Best JM, Banatvala JE. Congenital virus infections. *BMJ* 1990 May 5;300(6733):1151-2.
- Burkhardt U, Eggers HJ. [Viral infections--clinical pictures and laboratory diagnosis. Part 5: Human immunodeficiency virus (HIV 1, HIV 2) to measles virus]. *Fortschr Med* 1993 Dec 20;111(35-36):559-61. (Ger).
- Bystrova SI, Lemeshko NN, Shkolina TV, Vladko AS. [The immunogenic activity of the Lassa virus structural proteins]. *Vopr Virusol* 1992 Jan-Feb;37(1):56-8. (Rus).
- Cahill KM. Common interests and shared objectives. *N Y State J Med* 1992 Jun;92(6):234-5.
- Clegg JC, Wilson SM, Oram JD. Nucleotide sequence of the S RNA of Lassa virus (Nigerian strain) and comparative analysis of arenavirus gene products. *Virus Res* 1991 Mar;18(2-3):151-64.
- Cummins D. Lassa fever. *Br J Hosp Med* 1990 Mar;43(3): 186-8, 190, 192.
- Cummins D. Rats, fever and sudden deafness in Sierra Leone [letter]. *Trop Doct* 1992 Apr;22(2):83-4.
- Cummins D, Bennett D, Fisher-Hoch SP, Farrar B, Machin SJ, McCormick JB. Lassa fever encephalopathy: clinical and laboratory findings. *J Trop Med Hyg* 1992 Jun;95(3): 197-201.
- Cummins D, Bennett D, Machin SJ. Exchange transfusion of a patient with fulminant Lassa fever. *Postgrad Med J* 1991 Feb;67(784):193-4.
- Cummins D, McCormick JB, Bennett D, Samba JA, Farrar B, Machin SJ, Fisher-Hoch SP. Acute sensorineural deafness in Lassa fever. *JAMA* 1990 Oct 24-31;264(16): 2093-6. Comment in: *JAMA* 1990 Oct 24-31;264(16): 2119.
- Demby AH, Chamberlain J, Brown DW, Clegg CS. Early diagnosis of Lassa fever by reverse transcription-PCR. *J Clin Microbiol* 1994 Dec;32(12):2898-903.
- Downs WG. Lassa fever. In: Kiple KF, editor. *The Cambridge world history of human disease*. Cambridge: Cambridge University Press; 1993. p. 817-20.
- Dvoretskaia VI, Bogatikov GV, Pshenichnov VA,

- Evseev AA. [The therapeutic efficacy of ribamidil and virazole in experimental Lassa fever in monkeys]. Vopr Virusol 1991 Jan-Feb;36(1):55-7. (Rus).
- Dvoretskaia VI, Evseev AA, Bogatikov GV, Pshenichnov VA. [Comparative evaluation of the antiviral efficacy of virazole and ribamidil in experimental Lassa fever in monkeys]. Vopr Virusol 1990 Mar-Apr;35(2):151-2. (Rus).
- Evseev AA, Dvoretskaia VI, Bogatikov GV, Pshenichnov VA, Mustafin RM. [Experimental Lassa fever in hamadryas baboons]. Vopr Virusol 1991 Mar-Apr;36(2): 150-2. (Rus).
- Fidarov FM, Sabynin VM, Petkevich AS, Surikova LE, Vladyko AS, Lukashevich IS. [Experimental Lassa infection in monkeys and its treatment with ribamidil]. Vopr Virusol 1990 Nov-Dec;35(6):504-6. (Rus).
- Fidarov FM, Surikova LE, Erofeeva NI, Klimashevskaya LM, Petkevich AS, Lukashevich IS. [The cultivation and physicochemical properties of the Josiah strain of the Lassa virus]. Vopr Virusol 1990 Jul-Aug;35(4):326-9. (Rus).
- Fisher-Hoch SP, Gborie S, Parker L, Huggins J. Unexpected adverse reactions during a clinical trial in rural West Africa. Antiviral Res 1992 Aug;19(2):139-47.
- Frame JD. The story of Lassa fever. Part I: Discovering the disease. N Y State J Med 1992 May;92(5):199-202.
- Frame JD. The story of Lassa fever. Part II: Learning more about the disease. N Y State J Med 1992 Jun;92(6):264-7.
- Frame JD. The story of Lassa fever. Part III: The disease in the community. N Y State J Med 1992 Oct;92(10):440-4.
- Frame JD. The story of Lassa fever. Part IV: The politics of research. N Y State J Med 1993 Jan;93(1):35-40.
- Glover SC. Dangerous pathogens: implications for staff and patients. J Sterile Serv Manag 1983 Oct;1(3):2-3.
- Glushakova SE, Lukashevich IS, Baratova LA. Prediction of arenavirus fusion peptides on the basis of computer analysis of envelope protein sequences. FEBS Lett 1990 Aug 20;269(1):145-7.
- Glushakova SE, Omelianenko VG, Lukashevich IS, Bogdanov AA, Moshnikova AB, Kozhich AT, Torchilin VP. [Fusion of artificial lipid membranes induced by synthetic fusion peptide of arenaviruses]. Biokhimiia 1991 Apr;56(4):579-88. (Rus).
- Glushakova SE, Omelianenko VG, Lukashevitch IS, Bogdanov AA Jr, Moshnikova AB, Kozytch AT, Torchilin VP. The fusion of artificial lipid membranes induced by the synthetic arenavirus 'fusion peptide.' Biochim Biophys Acta 1992 Oct 5;1110(2):202-8.
- Holmes GP, McCormick JB, Trock SC, Chase RA, Lewis SM, Mason CA, Hall PA, Brammer LS, Perez-Oronoz GI, McDonnell MK, et al. Lassa fever in the United States. Investigation of a case and new guidelines for management. N Engl J Med 1990 Oct 18;323(16):1120-3. Comment in: N Engl J Med 1990 Oct 18;323(16): 1139-41.
- Hotton JM, Bousquet M, Barry B, Lamour O. Aeromedical evacuation of patients with Lassa fever [letter]. Aviat Space Environ Med 1991 Sep;62(9 Pt 1):909-10.
- Hummel KB, Martin ML, Auperin DD. Baculovirus expression of the glycoprotein gene of Lassa virus and characterization of the recombinant protein. Virus Res 1992 Sep 1;25(1-2):79-90.
- Ignatev GM, Kaliberov SA, Pereboeva LA, Tverdokhlebov AB, Krasko AG, Godneva AT. [Study of certain indicators of immunity upon infecting CBA/Calac line mice with Lassa virus]. Vopr Virusol 1994 Nov-Dec; 39(6):257-60. (Rus).
- Johnson KM. Lymphocytic choriomeningitis virus, lassa virus, lassa fever, and other arenaviruses. In: Mandell GL, Douglas RG Jr, Bennett JE, editors. Principles and practice of infectious diseases. 3rd ed. New York: Churchill Livingstone Inc.; 1990. p. 1329-35.
- Johnson KM, Monath TP. Imported Lassa fever--reexamining the algorithms [editorial]. N Engl J Med 1990 Oct 18;323(16):1139-41. Comment on: N Engl J Med 1990 Oct 18;323(16):1120-3.
- Krasnianskii VP, Potryvaeva NV, Borisevich IV, Gradoboev VN, Pashanina TP, Pshenichnov VA. [An evaluation of the possibility of obtaining an inactivated vaccine against Lassa fever]. Zh Mikrobiol Epidemiol Immunobiol 1994 Nov-Dec; (6):74-5. (Rus).
- Krasnianskii VP, Potryvaeva NV, Borisevich IV, Gradoboev VN, Pashanina TP, Pshenichnov VA. [A trial to produce an inactivated Lassa fever vaccine]. Vopr Virusol 1993 Nov-Dec;38(6):276-9. (Rus).
- Kunitskaia Lla, Bystrova SI, Cherednichenko clA, Zaitseva VN, Vladyko AS. [The production of antibody-producing hybridomas to the Lassa virus]. Zh Mikrobiol Epidemiol Immunobiol 1991 Mar;(3):67-70. (Rus).
- La Posta VJ, Auperin DD, Kamin-Lewis R, Cole GA. Cross-protection against lymphocytic choriomeningitis virus mediated by a CD4+ T-cell clone specific for an envelope glycoprotein epitope of Lassa virus. J Virol 1993 Jun;67(6):3497-506.
- Liao BS, Byl FM, Adour KK. Audiometric

- comparison of Lassa fever hearing loss and idiopathic sudden hearing loss: evidence for viral cause. *Otolaryngol Head Neck Surg* 1992 Mar;106(3):226-9. Comment in: *Otolaryngol Head Neck Surg* 1993 Sep;109(3 Pt 1):559.
- Lucia HL, Coppenhaver DH, Harrison RL, Baron S. The effect of an arenavirus infection on liver morphology and function. *Am J Trop Med Hyg* 1990 Jul;43(1):93-8.
- Lukashevich IS. Generation of reassortants between African arenaviruses. *Virology* 1992 Jun;188(2):600-5.
- Lukashevich IS, Lukashevich VD, Vladyko AS, Diallo MS, Ba MA, Silla A. [Serological evidence of Lassa virus circulation in the Republic of Guinea]. *Vopr Virusol* 1993 Jan-Feb;38(1):24-8. (Rus).
- Lukashevich IS, Vasiuchkov AD, Stelmakh TA, Scheslenok EP, Shabanov AG. [The isolation and characteristics of reassortants between the Lassa and Mopeia arenaviruses]. *Vopr Virusol* 1991 Mar-Apr;36(2):146-50. (Rus).
- Lukashevich LS, Clegg JC, Sidibe K. Lassa virus activity in Guinea: distribution of human antiviral antibody defined using enzyme-linked immunosorbent assay with recombinant antigen. *J Med Virol* 1993 Jul;40(3):210-7.
- Lunkenheimer K, Hufert FT, Schmitz H. Detection of Lassa virus RNA in specimens from patients with Lassa fever by using the polymerase chain reaction. *J Clin Microbiol* 1990 Dec;28(12):2689-92.
- McCormick JB, Mitchell SW, Kiley MP, Ruo S, Fisher-Hoch SP. Inactivated Lassa virus elicits a non protective immune response in rhesus monkeys. *J Med Virol* 1992 May;37(1):1-7.
- Morris DJ. Clinical trials of antiviral agents. *J Antimicrob Chemother* 1992;29(2):97-103.
- Morrison HG, Goldsmith CS, Regnery HL, Auperin DD. Simultaneous expression of the Lassa virus N and GPC genes from a single recombinant vaccinia virus. *Virus Res* 1991 Mar;18(2-3):231-41.
- Moshnikova AB, Kozhich AT, Krasko AG, Chikin LD, Barkar ND, Ivanov VT. [Identification of a protective epitope--a fragment of Lassa virus nucleoprotein]. *Bioorg Khim* 1991 Apr;17(4):572-3. (Rus).
- Nzerue MC. Lassa fever: review of virology, immunopatho-genesis, and algorithms for control and therapy. *Cent Afr J Med* 1992 Jun;38(6):247-52.
- Orlova SV, Godneva AT, Ignatev GM, Bystrova SI. [Immunization of rabbits with Lassa virus]. *Vopr Virusol* 1990 Jan-Feb;35(1):59-61. (Rus).
- Qian C, Jahrling PB, Peters CJ, Liu CT.
- Ruo SL, Mitchell SW, Kiley MP, Roumillat LF, Fisher-Hoch SP, McCormick JB. Antigenic relatedness between arenaviruses defined at the epitope level by monoclonal antibodies. *J Gen Virol* 1991 Mar;72(Pt 3):549-55.
- Ryan H. Infectious diseases. Moving an infectious patient by air. *Nursing (Lond)* 1990 Oct 11-24;4(20):24-6.
- Rybak LP. Deafness associated with Lassa fever [editorial]. *JAMA* 1990 Oct 24-31;264(16):2119. Comment on: *JAMA* 1990 Oct 24-31;264(16):2093-6.
- Schaeffer RC Jr, Bitrick MS Jr, Connolly B, Jenson AB, Gong F. Pichinde virus-induced respiratory failure due to obstruction of the small airways: structure and function. *Exp Lung Res* 1993 Nov-Dec;19(6):715-29.
- Simmons FB. Lassa fever and sudden hearing loss [letter]. *Otolaryngol Head Neck Surg* 1993 Sep;109(3 Pt 1):559. Comment on: *Otolaryngol Head Neck Surg* 1992 Mar; 106(3):226-9.
- Trappier SG, Conaty AL, Farrar BB, Auperin DD, McCormick JB, Fisher-Hoch SP. Evaluation of the polymerase chain reaction for diagnosis of Lassa virus infection. *Am J Trop Med Hyg* 1993 Aug;49(2):214-21.
- Van Der Sijs IH, Wiltink EH. Antiviral drugs: present status and future prospects. *Int J Biochem* 1994;26(5):621-30.
- Vladyko AS, Bystrova SI, Malakhova IV, Kunitskaia Lla, Lemeshko NN, Krasko AG, Kozhich AT, Lukashevich IS. [The localization and preliminary characteristics of antigenic sites (B epitopes) in the nucleocapsid protein of the Lassa virus]. *Vopr Virusol* 1993 Jan-Feb;38(1):30-4. (Rus).
- Vladyko AS, Kunitskaia Lla, Bystrova SI, Krasko AG, Lemeshko NN, Lukashevich IS. [The isolation and characteristics of recombinant monoclonal antibodies to the Lassa virus]. *Vopr Virusol* 1990 Sep-Oct;35(5):396-8. (Rus).
- Vladyko AS, Kunitskaia Lla, Krasko AG, Bystrova SI, Pyzhova NS, Lukashevich IS. [Recombinant monoclonal antibodies to the Lassa virus: the formation of reactive paratopes]. *Vopr Virusol* 1990 Nov-Dec;35(6):488-92. (Rus).
- Wilson SM, Clegg JC. Sequence analysis of the S RNA of the African arenavirus Mopeia: an unusual secondary structure feature in the intergenic region. *Virology* 1991 Feb;180(2):543-52.
- Zudin BI, Rozdialovskii AN, Petkevich AS. [The interferon-inducing activity of the Lassa virus in the body of inbred mice]. *Vopr Virusol* 1990 May-Jun;35(3): 231-3. (Rus).

TACARIBE COMPLEX VIRUSES

- Alche LE, Coto CE. In vitro selection of Junin virus antigenic variants. *Arch Virol* 1993;128(3-4):389-94.
- Allison LM, Salter MW, Kiguwa S, Howard CR. Analysis of the glycoprotein gene of Tacaribe virus and neutralization-resistant variants. *J Gen Virol* 1991 Aug; 72(Pt 8):2025-9.
- Ambrosio AM, Gamboa GS, Feuillade MR, Briggiler AM, Rimoldi MT. Peripheral blood leukocytes of patients with Argentine hemorrhagic fever as effectors of antibody-dependent cell-cytotoxicity. *J Med Virol* 1992 Jul;37(3): 232-6.
- Ambrosio M, Vallejos A, Saavedra C, Maiztegui JI. Junin virus replication in peripheral blood mononuclear cells of patients with Argentine haemorrhagic fever. *Acta Virol* 1990 Feb;34(1):58-63.
- Andrei G, Couto AS, De Lederkremer RM, Coto CE. Purification and partial characterization of an antiviral active peptide from Melia azedarach L. *Antiviral Chem Chemother* 1994;5(2):105-10.
- Andrei G, De Clercq E. Inhibitory effect of selected antiviral compounds on arenavirus replication in vitro. *Antiviral Res* 1990 Oct-Nov;14(4-5):287-99.
- Arenavirus infection--Connecticut, 1994. *MMWR Morb Mortal Wkly Rep* 1994 Sep 2;43(34):635-6. Published erratum appears in *MMWR Morb Mortal Wkly Rep* 1994 Sep 9;43(35):659.
- Barrera OJG, McKee KT Jr. [Toward a vaccine against Argentine hemorrhagic fever]. *Bol Oficina Sanit Panam* 1992;112(4):296-305. (Spa).
- Barrera OJG, McKee KT Jr. Toward a vaccine against Argentine hemorrhagic fever. *Bull Pan Am Health Organ* 1991;25(2):118-26.
- Barrera OJG, McKee KT Jr, Spisso J, Mahlandt BG, Maiztegui JI. A refined complement-enhanced neutralization test for detecting antibodies to Junin virus. *J Virol Methods* 1990 Jul;29(1):71-80.
- Barry M, Russi M, Armstrong L, Geller D, Tesh R, Dembry L, Gonzalez JP, Khan AS, Peters CJ. Brief report: treatment of a laboratory-acquired Sabia virus infection. *N Engl J Med* 1995;333(5):294-6.
- Berria MI, Caccuri RL, Blejer JL, Iacono RF. Neural spread of Junin virus in intraperitoneally inoculated rats. *Medicina (B Aires)* 1994;54(4):331-9.
- Bockstahler LE, Carney PG, Bushar G, Sagripanti JL. Detection of Junin virus by the polymerase chain reaction. *J Virol Methods* 1992 Sep;39(1-2):231-5.
- Bolivian hemorrhagic fever-El Beni Department, Bolivia, 1994. *MMWR Morb Mortal Wkly Rep* 1994;43(50): 943-6.
- Bolivian hemorrhagic fever reappears [news]. *Bull Pan Am Health Organ* 1995 Jun;29(2):185-6.
- Bushar G, Sagripanti JL. Method for improving accuracy of virus titration: standardization of plaque assay for Junin virus. *J Virol Methods* 1990 Oct;30(1):99-107.
- Bushar G, Sagripanti JL. Replication and physical parameters important for preparing purified Junin virus. *J Virol Methods* 1993 Feb;41(2):147-56.
- Campetella OE, Galassi NV, Barrios HA. Contrasuppressor cells induced by Junin virus. *Immunology* 1990 Apr; 69(4):629-31.
- Campetella OE, Galassi NV, Barrios HA. Correlation between cyclophosphamide-induced viral susceptibility and depletion of Junin virus-induced suppressor populations. *J Med Virol* 1992 Jan;36(1):32-8.
- Campetella OE, Galassi NV, Barrios HA. Junin virus- induced non-specific suppressor cells interact with unrelated antigen-specific suppressor cells. *Immunology* 1991 Sep;74(1):14-9.
- Campetella OE, Galassi NV, Barrios HA. Junin virus-induced suppressor cells are effective only on the efferent limb of the delayed-type hypersensitivity response. *J Med Virol* 1990 Mar;30(3):187-91.
- Candurra NA, Scolaro LA, Mersich SE, Damonte EB, Coto CE. A comparison of Junin virus strains: growth characteristics, cytopathogenicity and viral polypeptides. *Res Virol* 1990 Sep-Oct;141(5):505-15.
- Castilla V, Mersich SE, Candurra NA, Damonte EB. The entry of Junin virus into Vero cells. *Arch Virol* 1994; 136(3-4):363-74.
- Castilla V, Mersich SE, Damonte EB. [Lysosomotropic compounds inhibiting the multiplication of Junin virus]. *Rev Argent Microbiol* 1991 Apr-Jun;23(2):86-9. (Spa).
- Chastel C. [Present status of zoonotic hemorrhagic fevers of South America]. *Bull Soc Pathol Exot* 1993;86(5 Pt 2): 455-9. (Fre).
- Contigliani M, Medeot S, Diaz G. Heterogeneity and stability characteristics of Candid 1 attenuated strain of Junin virus. *Acta Virol* 1993 Feb;37(1):41-6.
- Contigliani MS, Medeot SI, Diaz GE, Sabattini MS. Rapid vascular clearance of two strains of Junin virus in Calomys musculinus: selective macrophage clearance. *Acta Virol* 1991 Apr;35(2):144-51.

- Cummins D, Molinas FC, Lerer G, Maiztegui JI, Faint R, Machin SJ. A plasma inhibitor of platelet aggregation in patients with Argentine hemorrhagic fever. *Am J Trop Med Hyg* 1990 May;42(5):470-5.
- Cushman M, Golebiewski W M, Pommier Y, Mazumder A, Reymen D, De Clercq E, Graham L, Rice W G. Cosalane analogues with enhanced potencies as inhibitors of HIV-1 protease and integrase. *J Med Chem* 1995; 38(3):443-52.
- Damonte E, Neyts J, Pujol CA, Snoeck R, Andrei G, Ikeda S, Witvrouw M, Reymen D, Haines H, Matulewicz MC, et al. Antiviral activity of a sulphated polysaccharide from the red seaweed *Nothogenia fastigiata*. *Biochem Pharmacol* 1994;47(12):2187-92.
- Damonte EB, Mersich SE, Candurra NA. Intracellular processing and transport of Junin virus glycoproteins influences virion infectivity. *Virus Res* 1994 Dec;34(3): 317-26.
- Enria DA, Maiztegui JI. Antiviral treatment of Argentine hemorrhagic fever. *Antiviral Res* 1994 Jan;23(1):23-31.
- From the Centers for Disease Control and Prevention. Bolivian hemorrhagic fever--El Beni Department, Bolivia, 1994. *JAMA* 1995 Jan 18;273(3):194-6.
- Garcia BA, Gardenal CN, Blanco A. Microgeographic distribution of allele frequencies in populations of *Calomys laucha* (Rodentia, Cricetidae). *Heredity* 1991;66(3):411-7.
- Ghiringhelli PD, Rivera-Pomar RV, Lozano ME, Grau O, Romanowski V. Molecular organization of Junin virus S RNA: complete nucleotide sequence, relationship with other members of the Arenaviridae and unusual secondary structures. *J Gen Virol* 1991 Sep;72(Pt 9): 2129-41.
- Glushakova SE, Vasiuchkova AD, Erokhina IR, Pyzhik EV, Kurash TP. [The Mopeia virus induces pH-dependent fusion from within in a BHK-21 cell culture]. *Vopr Virusol* 1991 May-Jun;36(3):231-5. (Rus).
- Gonzalez JP, Sanchez A, Rico-Hesse R. Molecular phylogeny of Guanarito virus, an emerging arenavirus affecting humans. *Am J Trop Med Hyg* 1995 Jul;53(1): 1-6.
- Griffiths CM, Wilson SM, Clegg JC. Sequence of the nucleocapsid protein gene of Machupo virus: close relationship with another South American pathogenic arenavirus, Junin. *Arch Virol* 1992;124(3-4):371-7.
- Groen J, Gerdink M, Koeman JP, Roholl PJ, van Amerongen G, Jordans HG, Niesters HG, Osterhaus AD. A macaque model for hantavirus infection. *J Infect Dis* 1995 Jul; 172(1):38-44.
- Heller MV, Marta RF, Sturk A, Maiztegui JI, Hack CE, Cate JW, Molinas FC. Early markers of blood coagulation and fibrinolysis activation in Argentine hemorrhagic fever. *Thromb Haemost* 1995 Mar;73(3): 368-73.
- Heller MV, Saavedra MC, Falcoff R, Maiztegui JI, Molinas FC. Increased tumor necrosis factor-alpha levels in Argentine hemorrhagic fever [letter]. *J Infect Dis* 1992 Nov;166(5):1203-4.
- Iacono RF, Berria MI, Lascano EF. A triple staining procedure to evaluate phagocytic role of differentiated astrocytes. *J Neurosci Methods* 1991 Oct;39(3):225-30.
- Ignatev GM, Tverdokhlebov AV, Kaliberov SA, Patrusheva IV, Kashentseva EA, Vorobeva MS. [The immunity indices of BALB/c mice immunized with an inactivated antigen of the Machupo virus]. *Vopr Virusol* 1993 Sep-Dec;38(5):227-30. (Rus).
- Ignatev GM, Tverdokhlebov AV, Kaliberov SA, Pereboeva LA, Patrusheva IV, Kashentseva EA. [The immunity indices in the infection of mice of different strains with the Machupo virus]. *Vopr Virusol* 1993 Jul-Aug;38(4): 167-70. (Rus).
- Katz MA, Starr JF. Influence of volume expansion on capillary transport in the gut of Pichinde virus infected strain 13 guinea pigs. *J Med Virol* 1991 Sep;35(1):60-4.
- Katz MA, Starr JF. Pichinde virus infection in strain 13 guniea pigs reduces intestinal protein reflection coefficient with compensation. *J Infect Dis* 1990 Dec;162(6):1304-8.
- Kenyon RH, Condie RM, Jahrling PB, Peters CJ. Protection of guinea pigs against experimental Argentine hemorrhagic fever by purified human IgG: importance of elimination of infected cells. *Microb Pathog* 1990 Oct; 9(4):219-26.
- Kenyon RH, McKee KT Jr, Zack PM, Rippy MK, Vogel AP, York C, Meegan J, Crabbs C, Peters CJ. Aerosol infection of rhesus macaques with Junin virus. *Intervirology* 1992;33(1):23-31.
- Kilgore PE, Peters CJ, Mills JN, Rollin PE, Armstrong L, Khan AS, Ksiazek TG. Prospects for the control of Bolivian hemorrhagic fever. *Emerg Infect Dis* [serial online] 1995 Jul-Sep [cited 1996 Jun 5];1(3):[8 screens]. Available from: National Center for Infectious Diseases, Centers for Disease Control and Prevention, Atlanta, GA. URL: <http://www.cdc.gov/ncidod/EID/eid.htm>
- Lascano EF, Lerman GD, Blejer JL, Caccuri RL, Berria MI. Immunoperoxidase tracing of Junin virus neural route after footpad inoculation. *Arch Virol* 1992;122(1-2): 13-22.
- Lerer GD, Saavedra MC, Falcoff R, Maiztegui JI, Molinas FC. Activity of a platelet protein kinase that phosphorylates fibrinogen and histone in Argentine hemorrhagic fever. *Acta Physiol Pharmacol Ther Latinoam* 1991;41(4):377-86.

- Lisieux T, Coimbra M, Nassar ES, Burattini MN, de Souza LT, Ferreira I, Rocco IM, da Rosa AP, Vasconcelos PF, Pinheiro FP, et al. New arenavirus isolated in Brazil. Lancet 1994 Feb 12;343(8894):391-2.
- Lozano ME, Enria D, Maiztegui JI, Grau O, Romanowski V. Rapid diagnosis of Argentine hemorrhagic fever by reverse transcriptase PCR-based assay. J Clin Microbiol 1995;33(5):1327-32.
- Lozano ME, Ghiringhelli PD, Romanowski V, Grau O. A simple nucleic acid amplification assay for the rapid detection of Junin virus in whole blood samples. Virus Res 1993 Jan;27(1):37-53.
- Malakhova IV, Kunitskaia Lla, Surikova LE, Bystrova SI, Shkolina TV, Vladyko AS. [Monoclonal antibodies to the Machupo virus: their isolation and preliminary characteristics]. Vopr Virusol 1991 Nov-Dec;36(6): 508-11. (Rus).
- Marta RF, Heller MV, Maiztegui JI, Molinas FC. Further studies on the plasma inhibitor of platelet activation in Argentine hemorrhagic fever [letter]. Thromb Haemost 1993 May 3;69(5):526-7.
- McKee KT Jr, Oro JG, Kuehne AI, Spisso JA, Mahlandt BG. Candid No. 1 Argentine hemorrhagic fever vaccine protects against lethal Junin virus challenge in rhesus macaques. Intervirology 1992;34(3):154-63.
- McKee KT Jr, Oro JG, Kuehne AI, Spisso JA, Mahlandt BG. Safety and immunogenicity of a live-attenuated Junin (Argentine hemorrhagic fever) vaccine in rhesus macaques. Am J Trop Med Hyg 1993 Mar;48(3):403-11.
- Medeot SI, Contigiani MS, Brandan ER, Sabattini MS. Neurovirulence of wild and laboratory Junin virus strains in animal hosts. J Med Virol 1990 Nov;32(3):171-82.
- Medeot SI, Contigiani MS, Sabattini MS, Diaz G. Experimental neuroinvasiveness of wild and laboratory Junin virus strains. Res Virol 1992 Jul-Aug;143(4): 259-67.
- Medeot SI, Contigiani MS, Sabattini MS, Diaz G, Vega V. Persistence of different Junin virus strains in Calomys musculinus. Comun Biol 1993;11(1):67-77.
- Mills JN, Ellis BA, Calderon GE, Maiztegui JI, Ksiazek TG, McKee KT, Peters CJ, Childs JE. A longitudinal study of Junin virus activity in rodents from the epidemic area of Argentine hemorrhagic fever. Am J Trop Med Hyg 1991; 45(3 Suppl):298.
- Mills JN, Ellis BA, Childs JE, McKee KT Jr, Maiztegui JI, Peters CJ, Ksiazek TG, Jahrling PB. Prevalence of infection with Junin virus in rodent populations in the epidemic area of Argentine hemorrhagic fever. Am J Trop Med Hyg 1994 Nov;51(5):554-62.
- Mills JN, Ellis BA, McKee KT Jr, Calderon GE, Maiztegui JI, Nelson GO, Ksiazek TG, Peters CJ, Childs JE. A longitudinal study of Junin virus activity in the rodent reservoir of Argentine hemorrhagic fever. Am J Trop Med Hyg 1992 Dec;47(6):749-63.
- Mills JN, Ellis BA, McKee KT Jr, Ksiazek TG, Oro JG, Maiztegui JI, Calderon GE, Peters CJ, Childs JE. Junin virus activity in rodents from endemic and nonendemic loci in central Argentina. Am J Trop Med Hyg 1991 Jun; 44(6):589-97.
- Mills JN, Ellis BE, Childs JE, Jahrling PB. Ecological factors limiting the spread of Junin virus among sympathetic rodent species in an Argentine agroecosystem [abstract]. Am J Trop Med Hyg 1992;47(4 Suppl): 259-60.
- Murphy FA, Johnson KM. An exotic viral disease acquired in a laboratory [editorial]. N Engl J Med 1995 Aug 3; 333(5):317-8. Comment on: N Engl J Med 1995 Aug 3; 333(5):294-6. Comment in: N Engl J Med 1995 Dec 21; 333(25):1716
- Peters CJ, Kenyon RH, Barrera-Oro JG, McKee KT, MacDonald C. Assays of cell-mediated immunity in recipients of a live attenuated Junin virus vaccine [abstract]. Am J Trop Med Hyg 1991;45(3 Suppl):165.
- Portiansky EL, Gonzalez PH, Laguens RP. Cytotoxicity and cytoadherence of human and murine polymorphonuclear leukocytes against Junin virus infected targets in the absence of anti-viral antibody and complement. J Med Virol 1991 Apr;33(4):253-6.
- Re-emergence of Bolivian hemorrhagic fever. Epidemiol Bull 1994 Dec;15(4):4-5.
- [Re-emergence of Bolivian haemorrhagic fever]. Wkly Epidemiol Rec 1995 Jan 20;70(3):16-7. (Fre).
- Remesar MC, Blejer JL, Nejamkis MR. [Immunopathology induced in the rat by Junin virus]. Rev Argent Microbiol 1990 Oct-Dec;22(4):208-11. (Spa).
- Rivera Pomar RV, Manzella EM, Ghiringhelli PD, Grau O, Romanowski V. Patterns of transient expression of the arenavirus nucleocapsid protein gene in transfected cells. Microsc Electron Biol Celular 1991 Jun;15(1):41-55.
- Romanowski V. Genetic organization of Junin virus, the etiological agent of Argentine hemorrhagic fever. In: Salvato MS, editor. Arenaviridae. New York: Plenum Press; 1993. p. 51-83.
- Salas RA, Manzione N, Tesh RE, Rico-Hesse R, Pacheco ME, Ramos B, Taibo ME, Lorenzo B, Brzuual R, Shope R. Venezuelan hemorrhagic fever a severe multisystem hemorrhagic illness caused by a newly recognized arenavirus [abstract]. Am J Trop Med Hyg 1991;45(3

Suppl):297.

Salas RA, Manzione N, Tesh RB, Rico-Hesse R, Shope RE, Betancourt A, Godoy O, Bruzual R, Pacheco ME, Ramos B, et al. Venezuelan haemorrhagic fever. Lancet 1991 Oct 26;338(8774):1033-6.

Schols D, De Clercq E, Balzarini, Baba M, Witvrouw M, Hosoya M, Andrei G, Snoeck R, Neyts J, Pauwels R, et al. Sulphated polymers are potent and selective inhibitors of various enveloped viruses, including herpes simplex virus, cytomegalovirus, vesicular stomatitis virus, respiratory syncytial virus, and toga-, arena-and retroviruses. Antiviral Chem Chemother 1990;1(4): 233-40.

Scolaro LA, Damonte EB. Calomys musculinus, the natural reservoir of Argentine haemorrhagic fever, is a semipermissive host for a mouse-attenuated mutant of Junin virus. Res Virol 1994 Sep-Oct;145(5):331-6.

Scolaro LA, Mersich SE, Damonte EB. Experimental infection of suckling mice with a host range mutant of Junin virus. J Med Virol 1991 Aug;34(4):237-40.

Scolaro LA, Mersich SE, Damonte EB. A mouse attenuated mutant of Junin virus with an altered envelope glycoprotein. Arch Virol 1990;111(3-4):257-62.

Silber AM, Candurra NA, Damonte EB. The effects of oligosaccharide trimming inhibitors on glycoprotein expression and infectivity of Junin virus. FEMS Microbiol Lett 1993 May 1;109(1):39-43.

Steyerthal NL, Lampuri JS, Coto CE. [Blood parameters variation in Calomys musculinus infected with Junin virus, strain XJCI3]. Medicina (B Aires) 1990;50(4): 335-42. (Spa).

Tesh RB. The emerging epidemiology of Venezuelan hemorrhagic fever and Oropouche fever in tropical South America. Ann N Y Acad Sci 1994 Dec 15;740:129-37.

Tesh RB, Jahrling PB, Salas R, Shope RE. Description of Guanarito virus (Arenaviridae: Arenavirus), the etiologic agent of Venezuelan hemorrhagic fever. Am J Trop Med Hyg 1994 Apr;50(4):452-9.

Tesh RB, Wilson ML, Salas R, De Manzione NM, Tovar D, Ksiazek TG, Peters CJ. Field studies on the epidemiology of Venezuelan hemorrhagic fever: implication of the cotton rat *Sigmodon alstoni* as the probable rodent reservoir. Am J Trop Med Hyg 1993 Aug;49(2):227-35.

Tverdokhlebov AV, Kaliberov SA, Zaitseva VN, Kuzmin VA, Krasko AG, Ignatev GM. [The isolation of concentrated preparations of the Machupo virus]. Vopr Virusol 1992 Jan-Feb;37(1):72-3. (Rus).

[Vaccination against Argentine haemorrhagic

fever]. Wkly Epidemiol Rec 1993 Aug 6;68(32):233-4. (Fre).

Vainrub B, Salas R. Latin American hemorrhagic fever. *Infect Dis Clin North Am* 1994 Mar;8(1):47-59.

Vitullo AD, Merani MS. Vertical transmission of Junin virus in experimentally infected adult *Calomys musculinus*. *Intervirology* 1990;31(6):339-44.

Wang FS, Cosgriff TM, Bunner DL, Mereish KA. Effects of an attenuated strain of junin virus on production of coagulant and anticoagulant proteins by hep G-2 cells [abstract]. *Blood* 1993;82(10 Suppl 1):600A. 35th Annual Meeting of the American Society of Hematology; 1993 Dec 3-7; St. Louis, MO.

Winocur DH, Videla C, Laguens R, Carballal G. [Intracerebral infection of athymic mice with an attenuated strain of Junin virus]. *Rev Argent Microbiol* 1990 Jul-Sep;22(3):150-4. (Spa).

Witvrouw M, Schols D, Andrei G, Snoeck R, Ikeda S, Pauwels R, Van Schepdael A, Arnout J, Claes P, et al. New polyacetal polysulphate active against human immunodeficiency virus and other enveloped viruses. *Antiviral Chem Chemother* 1992;3(6):351-60.