

REFERENCES

1. Lee H, Lee P, Johnson K. Isolation of the etiologic agent of Korean hemorrhagic fever. *Journal of Infectious Diseases* 1978; 137:298–308.
2. Duc JW, Smith GA, Childs JE, et al. Global survey of antibody to Hantaan-related viruses among peridomestic rodents. *Bulletin of the World Health Organization* 1986;64:139–144.
3. Yanagihara R. Hantavirus infection in the United States: Epidemiology and epidemiology. *Review of Infectious Disease* 1990;12:449–457.
4. Nichol ST, Ksiazek TG, Rollin PE, Peters CJ. Hantavirus pulmonary syndrome and newly described hantaviruses in the United States. In: Elliott RM, ed. *The Bunyaviridae*. New York: Plenum Press; 1996:269–280.
5. Schmaljohn C, Hjelle B. Hantaviruses: A global disease problem. *Emerging Infectious Diseases* 1997;3(2):95–104.
6. Spiropoulou CF, Morzunov S, Feldmann H, Sánchez A, Peters CJ, Nichol ST. Genome structure and variability of a virus causing hantavirus pulmonary syndrome. *Virology* 1994;200:715–723.
7. Henderson WW, Monroe MC, Jeor SCS, et al. Naturally occurring Sin Nombre virus genetic reassortants. *Virology* 1995; 214:602–610.
8. Nowak RM. *Walker's Mammals of the World*. 5th ed. Baltimore: The Johns Hopkins University Press; 1991.
9. Nuzum EO, Rossi CA, Stephenson EH, LeDuc JW. Aerosol transmission of Hantaan and related viruses to laboratory rats. *American Journal of Tropical Medicine and Hygiene* 1988;38:636–640.
10. Lee HW, Lee PW, Baek LJ, Song CK, Seong IW. Intraspecific transmission of Hantaan virus, etiologic agent of Korean hemorrhagic fever, in the rodent *Apodemus agrarius*. *American Journal of Tropical Medicine and Hygiene* 1981;30:1106–1112.
11. Glass GE, Childs JE, Korch GW, LeDuc JW. Association of intraspecific wounding with hantaviral infection in wild rats (*Rattus norvegicus*). *Epidemiology and Infection* 1988;101:459–472.
12. Peters CJ. Hantavirus pulmonary syndrome in the Americas. In: Scheld WM, Craig WA, Hughes JB, eds. *Emerging Infections* 2. Washington, DC: ASM Press; 1998.
13. Childs JE, Bryan RT. Hantavirus pulmonary syndrome. In: Schmaljohn C, Calisher C, Lee HW, eds. *Manual of hemorrhagic fever with renal syndrome and hantavirus pulmonary syndrome*. Seoul: Ui-Sul Munwhasa; in press.
14. Mills JN, Ksiazek TG, Ellis BA, et al. Patterns of association with host and habitat: Antibody reactive with Sin Nombre virus in small mammals in the major biotic communities of the southwestern United States. *American Journal of Tropical Medicine and Hygiene* 1997;56:273–284.
15. Nichol S, Spiropoulou C, Morzunov S, Rollin P, Ksiazek G, Feldmann H, et al. Genetic identification of a hantavirus associated with an outbreak of acute respiratory illness. *Science* 1993;262:914–917.
16. Hjelle B, Krolkowski J, Torrez-Martínez N, Chavez-Giles F, Vanner C, Laposata E. Phylogenetically distinct hantavirus implicated in a case of hantavirus pulmonary syndrome in the northeastern United States. *Journal of Medical Virology* 1995;46:21–27.
17. Morzunov SP, Feldmann H, Spiropoulou CF, et al. A newly recognized virus associated with a fatal case of hantavirus pulmonary syndrome in Louisiana. *Journal of Virology* 1995;69:1980–1983.
18. 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;210:482–489.
19. Childs JE, Ksiazek TG, Spiropoulou CF, et al. Serologic and genetic identification of *Peromyscus maniculatus* as the primary rodent reservoir for a new hantavirus in the southwestern United States. *Journal of Infectious Diseases* 1994;169:1271–1280.
20. Hjelle B, Lee SW, Song W, et al. Molecular linkage of hantavirus pulmonary syndrome to the white-footed mouse, *Peromyscus leucopus*: Genetic characterization of the M genome of New York virus. *Journal of Virology* 1995;69:8137–8141.
21. Ksiazek TG, Nichol ST, Mills JN, Groves MG, Wozniak A, McAdams S, et al. Isolation, genetic diversity, and geographic distribution of Bayou virus (Bunyaviridae: Hantavirus). *American Journal of Tropical Medicine and Hygiene* 1997;57:445–448.
22. Rollin PE, Ksiazek TG, Elliott LH, et al. Isolation of Black Creek Canal virus, a new hantavirus from *Sigmodon hispidus* in Florida. *Journal of Medical Virology* 1995;46:35–39.
23. Bryan RT, Doyle TJ, Moolenaar RL, et al. Hantavirus pulmonary syndrome. *Seminars in Pediatric Infectious Diseases* 1997;8:44–49.
24. United States of America, Department of Health and Human Services, Centers for Disease Control and Prevention. Hantavirus infection—southwestern United States: Interim recommendations for risk reduction. *Morbidity and Mortality Weekly Report* 1993; 42:ii–13.
25. Zeitz PS, Butler JC, Cheek JE, Samuel MC, Childs JE, Shands LA, et al. A case-control study of hantavirus pulmonary syndrome during an outbreak in the southwestern United States. *Journal of Infectious Diseases* 1995;171:864–870.
26. Armstrong LR, Zaki SR, Goldoft MJ, Todd RL, Khan AS, Khabbaz RF, et al. Hantavirus pulmonary syndrome associated with entering or cleaning rarely used, rodent-infested structures. *Journal of Infectious Diseases* 1995;172:1166.
27. Vitek CR, Breiman RF, Ksiazek TG, et al. Evidence against person-to-person transmission of hantavirus to health care workers. *Clinical Infectious Diseases* 1996; 22:824–826.
28. Wells RM, Young J, Williams RJ, et al. Hantavirus transmission in the United States. *Emerging Infectious Diseases* 1997;3:361–365.
29. United States of America, Department of Health and Human Services, Centers for Disease Control and Prevention. Case definitions for infectious conditions under public health surveillance. *Morbidity and Mortality Weekly Report* 1997;46(RR-10):16.
30. Werker DH, Artsob H. Of mice and mostly men—hantavirus pulmonary syndrome. *Canadian Medical Association Journal* 1998;158:912–913.

31. Langlois J. Landscape structure and the distribution of Sin Nombre hantavirus in deer mouse, *Peromyscus maniculatus*, populations. [Master's thesis.] Carleton University: Ottawa; 1996.
32. Hjelle B, Chavez-Giles F, Torrez-Martínez N, et al. Genetic identification of a novel hantavirus of the harvest mouse *Reithrodontomys megalotis*. *Journal of Virology* 1994;68:6751-6754.
33. LeDuc JW, Smith GA, Pinheiro FP, Vasconcelos PFC, Rosa EST, Maiztegui JI. Isolation of a Hantaan-related virus from Brazilian rats and serological evidence of its widespread distribution in South America. *American Journal of Tropical Medicine and Hygiene* 1985;34:810-815.
34. Weissenbacher M, Merani MS, Hodara VL, et al. Hantavirus infection in laboratory and wild rodents in Argentina. *Medicina (Buenos Aires)* 1990;50:43-46.
35. Weissenbacher MC, Cura E, Segura EL, et al. Serological evidence of human hantavirus infection in Argentina, Bolivia, and Uruguay. *Medicina (Buenos Aires)* 1996;56:17-22.
36. Iversson LB, Rosa APD, Rosa MD. Human infection by hantavirus in southern and southeastern Brazil. *Revista da Associação Médica Brasileira* 1994;40:85-92.
37. Zaparoli MA, Iversson LB, Rosa MD, et al. Investigation on case-contacts of human disease caused by hantavirus in Juquitiba, state of São Paulo, Brazil [abstract]. *American Journal of Tropical Medicine and Hygiene* 1995;53:232-233.
38. Parisi MN, Enría DA, Pini NC, Sabattini MS. Detección retrospectiva de infecciones por hantavirus en la Argentina. *Medicina (Buenos Aires)* 1996;56:1-13.
39. Enría DA. Emergencia de los hantavirus en las Américas y en la Argentina. *Medicina (Buenos Aires)* 1998;(1)58:15-18.
40. Pini N, Resa A, Laime G, Lecot G, Ksiazek T, Levis S, et al. Hantavirus infection in children in Argentina. *Emerging Infectious Diseases* 1998;4(1):85-87.
41. López N, Padula P, Rossi C, Lázaro ME, Franze-Fernández MT. Genetic identification of a new hantavirus causing severe pulmonary syndrome in Argentina. *Virology* 1996;220:223-226.
42. Levis S, Morzunov S, Rowe J, Enría D, Pini N, et al. Genetic diversity and epidemiology of hantaviruses in Argentina. *Journal of Infectious Diseases* 1998;177:529-538.
43. Wells RM, Estani SS, Yadón ZE, et al. An unusual hantavirus outbreak in southern Argentina: Person-to-person transmission? *Emerging Infectious Diseases* 1997;3:171-174.
44. Enría D, Padula P, Segura EL, et al. Hantavirus pulmonary syndrome in Argentina: Possibility of person-to-person transmission. *Medicina (Buenos Aires)* 1996;58:709-711.
45. Hjelle B, Torrez-Martínez N, Koster FT. Hantavirus pulmonary syndrome-related virus from Bolivia [letter]. *Lancet* 1996;347:57.
46. Toro J, Vega J, Mills J, et al. An outbreak of hantavirus pulmonary syndrome, Chile 1997: An evolving paradigm [abstract]. The Fourth International Conference on HFRS and Hantaviruses, 5-7 March 1998, Atlanta, Georgia, 1998;153.
47. López N, Padula P, Rossi C, et al. Genetic characterization and phylogeny of Andes virus and variants from Argentina and Chile. *Virus Research* 1997;50:77-84.
48. Padula P, Edelstein A, Miguel SD, López NM, Rossi CM, Rubinovitch RD. Hantavirus pulmonary syndrome (HPS) outbreak in Argentina: Molecular evidence of person-to-person transmission of Andes virus. *Virology* 1998;241(2):323-330.
49. Chaparro JJ, Vega J, Terry W, et al. Assessment of person-to-person transmission of hantavirus pulmonary syndrome in a hospital setting. *Journal of Hospital Infections* 1998;40(4):281-285.
50. Valderrama R, Vega J, Terry W. Community serological survey of infection by hantavirus in the XI Region, Aysén, Chile. The Fourth International Conference on HFRS and Hantaviruses, 5-7 March 1998, Atlanta, Georgia, 1998;155.
51. Pavletic C, Ellis B, Murua R, et al. An outbreak of infection by hantavirus pulmonary syndrome related to a rodent eruption in southern Chile. The Fourth International Conference on HFRS and Hantaviruses, 5-7 March 1998, Atlanta, Georgia, 1998;115.
52. Williams RJ, Bryan RT, Mills JN, et al. An outbreak of hantavirus pulmonary syndrome in western Paraguay. *American Journal of Tropical Medicine and Hygiene* 1997;57:274-282.
53. Johnson AM, Bowen MD, Ksiazek TG, et al. Laguna Negra virus associated with HPS in western Paraguay and Bolivia. *Virology* 1997;238(1):115-127.
54. Fulhorst CF, Monroe MC, Salas RA, Duno G, Utrera A, Ksiazek TG, et al. Isolation, characterization and geographic distribution of Caño Delgadito virus, a newly discovered South American hantavirus (family *Bunyviridae*). *Virus Research* 1997;51:159-171.
55. Schmaljohn C, Calisher C, Lee HW, eds. *Manual of hemorrhagic fever with renal syndrome and hantavirus pulmonary syndrome*. Seoul: Ui-Sul Munwhasa; in press.
56. Mills JN, Childs JE, Ksiazek TG, Peters CJ, Vallecorta WM. *Methods for trapping and sampling small mammals for virologic testing*. Atlanta: United States of America, Department of Health and Human Services, Centers for Disease Control and Prevention; 1995.
57. Jay M, Ascher MS, Chomel BB, Madon M, Sesline D, Enge BA, et al. Seroprevalence studies of hantavirus infection among wild rodents in California. *Emerging Infectious Diseases* 1997;3(2):183-190.
58. Mills JN, Johnson JM, Ksiazek TG, Ellis BA, Rollin PE, Yates TL, et al. A survey of hantavirus antibody in small-mammal populations in selected U.S. national parks. *American Journal of Tropical Medicine and Hygiene* 1998;58(4):525-532.
59. Niklasson B, Hornfeldt B, Lundkvist A, Björsten S, LeDuc J. Temporal dynamics of puumala virus antibody prevalence in voles and of nephropathia epidemica incidence in humans. *American Journal of Tropical Medicine and Hygiene* 1995;53(2):134-140.
60. Yates TL, Jones C, Cook JA. Preservation of voucher specimens. In: Wilson, DE, Cole FR, Nichols JD, Rudran R, Foster MS, eds. *Measuring and monitoring biological diversity: Standard methods for mammals*. Washington, DC: Smithsonian Institution Press, 1996:265-274.
61. Koster F, Levy H. Clinical manifestations and treatment of HPS. In: Schmaljohn C, Calisher C, Lee HW, eds. *Manual of hemorrhagic fever with renal syndrome and hantavirus pulmonary syndrome*. Seoul: Ui-Sul Munwhasa; in press.
62. Duchin JS, Koster FT, Peters CJ, Simpson B, Tempest SR, Zaki T, et al. Hantavirus pulmonary syndrome: A clinical description of 17 patients with a newly recognized disease. *New England Journal of Medicine* 1994;330:949-955.
63. Moolenaar RL, Dalton C, Lipman HB, et al. Clinical features that differentiate hantavirus pulmonary syndrome from three other acute respiratory illnesses. *Clinical Infectious Diseases* 1995;21:643-649.
64. Ketani LH, Williamson MR, Telepak RJ, Levy H, Koster FT, Nolte KB, et al. Hantavirus pulmonary syndrome: Radiographic findings in 16 patients. *Radiology* 1994;191:665-668.
65. Hallin G, Simpson S, Cromwell R, James D, Koster F, Mertz G, et al. Cardiopulmonary manifestations of hantavirus pulmonary syndrome. *Critical Care Medicine* 1996;24:252-258.
66. Levy H, Simpson SQ. Hantavirus pulmonary syndrome. *American Journal of Respiratory and Critical Care Medicine* 1994;149(6):1710-1713.
67. Nolte KB, Feddersen RM, Foucar K, Zaki SR, Koster FT, Madar D, et al. Hantavirus pulmonary syndrome in the United States: A pathological description of a disease caused by a new agent. *Human Pathology* 1995;26:110-120.
68. Khan AS, Gaviria M, Rollin RE, Hlady WG, Ksiazek TG, Armstrong LR, et al. Hantavirus pulmonary syndrome in

- Florida: Association with the newly identified Black Creek Canal virus. *American Journal of Medicine* 1996;100:46–48.
69. Niklasson B, Lundkvist A, Rossi C, Ksiazek T. Virus detection and identification with serological tests. In: Schmaljohn C, Calisher C, Lee HW, eds. *Manual of hemorrhagic fever with renal syndrome and hantavirus pulmonary syndrome*, Seoul: Ui-Sul Munwhasa; in press.
70. Feldmann H, Sánchez A, Morzunov S, Spiropoulou CF, Rollin PE, Ksiazek TG, et al. Utilization of autopsy RNA for the synthesis of the nucleocapsid antigen of a newly recognized virus associated with hantavirus pulmonary syndrome. *Virus Research* 1993;30:351–367.
71. Lee HW. Virus isolation. In: Schmaljohn C, Calisher C, Lee HW, eds. *Manual of hemorrhagic fever with renal syndrome and hantavirus pulmonary syndrome*. Seoul: Ui-Sul Munwhasa; in press.
72. Zaki SR, Greer PW, Coffield LM, Goldsmith CS, Nolte KB, et al. Hantavirus pulmonary syndrome: pathogenesis of an emerging infectious disease. *American Journal of Pathology* 1995;146:552–579.
73. Ksiazek TG, Peters CJ, Rollin PE, et al. Identification of a new North American hantavirus that causes acute pulmonary insufficiency. *American Journal of Tropical Medicine and Hygiene* 1995;52:117–123.
74. Peters CJ. Viral hemorrhagic fevers. In: Nathanson N, Ahmed R, González-Scarano F, et al., eds. *Viral pathogenesis*. Philadelphia: Lippincott-Raven Publishers, 1997;779–799.
75. Huggins JW, Hsiang CM, Cosgriff TM, Guang MY, Smith JI, Wu ZU, et al. Prospective, double-blind, concurrent, placebo-controlled clinical trial on intravenous ribavirin therapy of hemorrhagic fever with renal syndrome. *Journal of Infectious Diseases* 1991;164:1119–1127.
76. Zeitz PS, Graber JM, Voorhees RA, Kioski C, Shands LA, Ksiazek TG, et al. Assessment of occupational risk for hantavirus infection in Arizona and New Mexico. *Journal of Occupational & Environmental Medicine* 1997;39(5):463–467.
77. Yadón ZE. Epidemiología del síndrome pulmonar por hantavirus en la Argentina (1991–1997). *Medicina (Buenos Aires)* 1998;58(Supp. 1):25–26.
78. United States of America, Department of Health and Human Services, Centers for Disease Control and Prevention. Laboratory management of agents associated with hantavirus pulmonary syndrome: Interim biosafety guidelines. *Morbidity Mortality Weekly Report* 1994;43:1–7.
79. World Health Organization. *Laboratory biosafety manual*. 2nd ed. Geneva: WHO; 1993.