

# CURRICULUM VITAE

**Ann Margaret Arvin**

## **Education:**

1966 B.A., Philosophy, Brown University, Providence, Rhode Island  
1967 M.A., Philosophy, Brandeis University, Waltham, Massachusetts  
1972 M.D., University of Pennsylvania, Philadelphia, Pennsylvania

## **Post-Graduate Training:**

1972 - 73 Intern, Pediatrics: University of California, San Francisco, CA.  
1973 - 74 Resident, Pediatrics: University of California, San Francisco, CA.  
1974 - 75 Chief Resident, Pediatrics: Mt. Zion Hospital, San Francisco, CA.  
1975 - 78 Postdoctoral Training in Infectious Diseases:  
Research fellow with Dr. Thomas C. Merigan, Division of Infectious  
Diseases, Department of Medicine, Stanford University School of  
Medicine, Stanford, CA.  
Clinical fellow in pediatric infectious diseases with Dr. Moses Grossman,  
University of California, San Francisco, CA.

## **Certification:**

1973 National Board Examination (Parts I, II and III)  
1977 American Board of Pediatrics  
California Medical License G25956

## **Faculty Appointments:**

1978 - 84 Assistant Professor of Pediatrics, Infectious Diseases  
Stanford University School of Medicine, Stanford, CA.

1984 - 89 Associate Professor of Pediatrics, Infectious Diseases  
Stanford University School of Medicine, Stanford, CA.

Current Lucile Salter Packard Professor in Pediatrics, Infectious Diseases  
Stanford University School of Medicine, Stanford, CA.  
Professor of Microbiology and Immunology  
Stanford University School of Medicine, Stanford, CA.

Director, Stanford-LPCH Vaccine Program  
Faculty of the Program in Immunology

Associate Dean of Research, Stanford University

**Honors and Awards:**

Phi Beta Kappa, Elisha Benjamin Andrews Scholar, Magna Cum Laude, Brown University.  
National Institute of Allergy and Infectious Diseases: New Investigator Award, 1981-84.  
National Institute of Allergy and Infectious Diseases: Research Career Development Award  
1984-1989.

E. Mead Johnson Award for Outstanding Contributions to Research in Pediatrics, 1992.  
Association of American Physicians

Institute of Medicine of the National Academies

The Lucile Salter Packard Chair in Pediatrics, Stanford University School of Medicine  
The Albion Walter Hewlett Award for Discovery in the Biological Sciences and Application in  
Treatment of Human Disease, Stanford University School of Medicine, 2004

Hattie Alexander Lecture, College of Physicians and Surgeons, Columbia University, 1994.

Bradley Dean Dixon Lecture, University of Alabama School of Medicine, 1995.

Patricia Pearce Jones Award, Stanford University, 1996.

Goren Sterner Award, Karolinska Institute, 1998.

VZV Research Foundation Lecture, 24<sup>th</sup> International Herpes Virus Workshop, 1999.

Maurice Hilleman Lecture, America Society for Virology, 2000.

Ray A. Kroc Visiting Professor, University of Hong Kong, 2001.

Joseph B. Bilderback Visiting Professor, Oregon Health Sciences University, 2001.

Clinical Virology Award, Pan American Society for Clinical Virology, 2002.

John F. Enders Distinguished Lectureship in Medical Virology, Infectious Disease Society of  
America, 2002.

Sidney E. Grossberg Lecture, Medical College of Wisconsin, 2002.

Dorothy Horstmann Lecture, Yale University, 2003.

Joseph Cremona Jr. MD Memorial Lecture in Art and Medicine, Lawrence Memorial Hospital,  
2006.

Louis Weinstein MD Memorial Lecture, Tufts University School of Medicine, 2006.

**Boards:**

Executive Committee and Scientific Advisory Board of the Varicella-Zoster Virus Research  
Foundation, 1991-2004

Board of Trustees, American Herpes Foundation, 1998 - Present

Advisory Board, The Thrasher Foundation, 2000-2002

Scientific Advisory Group, Institute for Global Health, UCSF, 1998-2002

Scientific Advisory Board, Aviron, Inc., 1992-2002

Board of Directors, Axys Pharmaceuticals, Inc. 1997-2001

Scientific Advisory Board, MedImmune, 2002-Present

Board of Directors, Symphony Dynamo, 2006

**Elected memberships:**

Fellow, Infectious Disease Society of America  
Fellow, Pediatric Infectious Disease Society  
Fellow, American Academy of Pediatrics  
Senior Member, Society for Pediatric Research  
Member, American Pediatric Society

Memberships: American Society for Microbiology, American Society of Virology,  
Western Society for Pediatric Research

**National Committee Service:**

Microbiology and Infectious Disease Review Committee, National Institute of Allergy and Infectious Diseases: Member 1984 - 1988.  
Virology Study Section, National Institutes of Health: Member: 1993-1997.  
Virology Study Section, National Institutes of Health: Ad hoc member: June, 1989; February, 1990; June, 1990; June, 2001.  
Vaccines and Related Biological Products Advisory Committee, Federal Drug Administration: 1990-1994.  
Center for Biologics Evaluation and Research, FDA, Consultant: 1994-present.  
Basic Science Advisory Committee, March of Dimes Birth Defects Foundation: 1995-2000.  
Executive Committee, Collaborative Antiviral Study Group, National Institute of Allergy and Infectious Diseases: 1986-1999.  
Council of the Western Society for Pediatric Research: 1992-1995.  
Council of the Pediatric Infectious Diseases Society: 1992-1995.  
Council of the University-Wide Task Force on AIDS (State of California): 1992-1996.  
Council of the American Society for Virology: 1995-1998.  
E. Mead Johnson Award Selection Committee, Society for Pediatric Research: 1995-1997.  
National Foundation for Infectious Diseases, Astra Fellowship Selection Committee: 1994, 1995.  
Nominations Committee, Infectious Diseases Society of America: 1996-1998.  
Nominations Committee, American Society for Pediatrics: 1997.  
Institute of Medicine, Committee on the Assessment of Future Scientific Needs for Variola Virus: 1999.  
President, Western Society for Pediatric Research: 2000.  
National Institute of Allergy and Infectious Diseases Council, Ad Hoc: 2001.  
Journal of Infectious Diseases Editor Selection Committee, Infectious Diseases Society of America: 2001.  
NIH Center for Scientific Review, Infectious Diseases Microbiology Working Group: 2001.  
NIAID Collaborative Antiviral Study Group Review Committee: 2001.  
Howard Hughes Medical Institute Research Fellowships Review Committee: 2000-2002.  
Scientific Leadership Group, NIAID Herpes Vaccine Trial: 2002-present.  
NIAID Expert Panel on Immunity and Biodefense Research: 2002.  
National Vaccine Advisory Committee, Department of Health and Human Services: 2001-2004.  
Chair, Subcommittee on Future Vaccines  
Task Force on Women in Pediatrics, Federation of Pediatric Organizations: 2003-present.

American Committee on Immunization Practices, Varicella-MMR Working Group: 2004-present.  
Board on Life Sciences, National Academy of Science/Institute of Medicine: 2004-present.  
Nominations Committee, Infectious Diseases Society of America: 2004-present  
Planning Group on Pandemic Influenza Research Gaps, Institute of Medicine: 2005  
Program Committee, American Society of Virology, 2005-2008

**International Committee Service:**

WHO Steering Committee on Research Related to Measles Vaccines: 2002-present; Chair, 2003-2006

**Editorial Board Service:**

Journal of Clinical Microbiology, 1982-1985.  
Editor, Virology Section, Journal of Clinical Microbiology, 1985-1989.  
Pediatric Infectious Disease Journal, 1988-1994.  
Western Journal of Medicine, 1990-1992.  
The Report on Pediatric Infectious Diseases, 1995-1997.  
Reviews in Medical Virology, 1990-present.  
Infectious Agents and Disease, 1991-present.  
Herpes, 1993-present.  
Journal of Infectious Diseases, 1993-2001.  
Journal of Medical Virology, 1994-present.  
Viral Immunology, 1999-present.  
Current Opinion in Clinical and Experimental Research, 2000-present  
Faculty of 1000, Section Editor, Virology, 2000-present

Journal of Virology, 2004-present  
Virology, 2005-present

Associate Editor, Cover Art, Clinical Infectious Diseases, 2001-present.  
Associate Editor, Journal of Infectious Diseases, 2002-present

**Administrative Positions:**

**Stanford University**

Associate Dean of Research, 2001-Present

**Stanford University School of Medicine**

Associate Dean, Child Health Research, 1998 - 2000.  
Chief, Infectious Diseases Division, Department of Pediatrics, 1984-present.  
Associate Chair for Academic Affairs, Department of Pediatrics, 1993-2000.  
Program Director, NICHD Child Health Research Center, 1995-2000.

**Lucile Packard Children's Hospital at Stanford**

Director, Integrated Infectious Diseases Program, 1995-present.  
Director, Infection Control Program 1984-present.

Associate Director, Clinical Laboratory Microbiology Section, 1984-2000.  
Associate Director, Diagnostic Virology Laboratory (Stanford Hospital), 1986-1990.

**Committee Service:**

**Lucile Packard Children's Hospital Committees**

Medical Board, 1991-1999.  
Clinical Laboratory Committee, 1984-2002  
Quality Management Committee, 1988-1999.  
Infection Control Committee, Chair, 1984-present.

**Stanford University School of Medicine Committees**

McCormick Bequest Committee, 1985-1991; Chair: 1992-1998.  
Program for Molecular and Genetic Medicine, Advisory Board, 1995-2000.  
General Clinical Research Center Advisory Committee, 1996.  
Council on Diversity, Co-Chair: 1996-1998.  
Program Advisory Committee, Center for Clinical Sciences Research, 1996-1997  
Committee on Stanford/UCSF Academic Priorities and Strategies for Collaboration: 1997  
Faculty Advisory Committee, Administrative Process Redesign Program: 1997  
Research Program Management Advisory Committee, 1998-present.  
Dean's Steering Committee of the School of Medicine, 1995-1998.  
Research Council of the School of Medicine, 1997-2000.  
Dean's Faculty Campaign Planning Committee, 1999-2000.  
Microbiology and Immunology Department, Graduate Student Steering Committee, 2001-2002, 2006-2007.  
Distinguished Awards and Honorary Society Committee, 2003-present.

**Stanford University Committees**

Senate of the Academic Council, 1988-1990.  
Committee on Committees, 1988-1989.  
Committee on Faculty and Staff Benefits, 1987-1990.  
Steering Committee, Faculty Women's Caucus, 1988-1990.  
Senate of the Academic Council, 1993-1994.  
Committee on Committees, 1993-1994.  
Institute for Research on Women and Gender, Advisory Board, 1993-2000.  
University Fellows Program, 1994-1996.  
University Planning and Policy Board, 1996-1999.  
Senate of the Academic Council, 1997-1999.  
Search Committee, Dean of the School of Medicine, 2000.  
Steering Committee, Research Administration Management Process, 2001.  
Compliance Coordinating Committee, 2001-present.  
Committee on Research, 2001- present  
Senate of the Academic Council, 2003-2005.  
Advisory Board, 2005.

## BIBLIOGRAPHY

### Journal Articles: Peer Reviewed

1. Arvin, A.M., Yeager, A.S., Merigan, T.C. The effect of leukocyte interferon on urinary excretion of cytomegalovirus in infants. Journal of Infectious Diseases, 133:A205-210, 1976.
2. Rand, K.H., Rasmussen, L.E., Pollard, R.B., Arvin, A.M., Merigan, T.C. Cellular immunity and herpesvirus infections in cardiac transplant patients. New England Journal of Medicine, 296:1372-1377, 1977.
3. Arvin, A.M., Rasmussen, L.E., Pollard, R.B., Merigan, T.C. Selective impairment in lymphocyte reactivity to varicella-zoster antigen of untreated lymphoma patients. Journal of Infectious Diseases, 137:531-540, 1978.
4. Pollard, R.B., Rand, K.H., Arvin, A.M., Merigan, T.C. Cell-mediated immunity for cytomegalovirus infections in normal subjects and cardiac transplant recipients. Journal of Infectious Diseases, 137:541-549, 1978.
5. Arvin, A.M., Feldman, S., Merigan, T.C. Human leukocyte interferon treatment of varicella in children with cancer: a preliminary controlled trial. Antimicrobial Agents and Chemotherapy, 13:605-607, 1978.
6. Arvin, A.M., Pollard, R.B., Rasmussen, L.E., Merigan, T.C. Cellular and humoral immunity in the pathogenesis of recurrent herpes viral infections in patients with lymphoma. Journal of Clinical Investigation, 65:869-878, 1980.
7. Yeager, A.S., Arvin, A.M., Urbani, L.J., Kemp, J.A. The relationship of antibody to outcome in neonatal herpes simplex infection. Infection and Immunity, 29:532-538, 1980.
8. Arvin, A.M. and Koropchak, C.M. Immunoglobulins M and G to varicella-zoster virus measured by solid phase radioimmunoassay: Antibody responses with varicella and herpes zoster infections. Journal of Clinical Microbiology, 12:367-374, 1980.
9. Yeager, A.S., Grumet, F.C., Hafleigh, E.B., Arvin, A.M., Bradley, J.S., Prober, C.G. Prevention of transfusion-acquired cytomegalovirus infections in newborn infants. Journal of Pediatrics, 98:281-287, 1980.
10. Whitley, R.J., Nahmias, A.J., Visintine, A.M., Fleming, C.L., Alford, C.A., and the NIAID Collaborative Antiviral Study Group, Yeager, A.S., Arvin, A.M., Haynes, R., Hilty, M., Luby, J. The natural history of herpes simplex virus infection of mother and newborn. Pediatrics, 66:489-494, 1980.
11. Neu, J., Arvin, A.M., Ariagno, R.L. Hydrops of the gallbladder in a neonate associated with group B streptococcus sepsis and pneumonia. American Journal of Diseases of Children, 134:891, 1980.

12. Merigan, T.C., Gallagher, J.G., Pollard, R.P., Arvin, A.M. Short course interferon therapy in treatment of herpes zoster in cancer patients. Antimicrobial Agents and Chemotherapy, 19:193-195, 1981.
13. Prober, C.G., Yeager, A.S., Arvin, A.M. The effect of chronologic age on the serum concentration of amikacin in sick term and premature infants. Journal of Pediatrics, 98:606-609, 1981.
14. Arvin, A.M., Yeager, A.S., Bruhn, F., Grossman, M. Neonatal herpes simplex infection in the absence of mucocutaneous lesions. Journal of Pediatrics, 100:715-721, 1982.
15. Yeager, A.S., Arvin, A.M., Hensleigh, P.A. The validity of reporting results of cultures for herpes simplex virus after four days. Journal of Reproductive Medicine, 27:447-448, 1982.
16. Arvin, A.M., Schmidt, N.J., Cantell, K., Merigan, T.C. Interferon administration to infants with congenital rubella. Antimicrobial Agents and Chemotherapy, 21:259-261, 1982.
17. Arvin, A.M., Kushner, J.H., Feldman, S., Baehner, R.L., Hammond, D., Merigan, T.C. Human leukocyte interferon for the treatment of varicella in children with cancer. New England Journal of Medicine, 306:761-765, 1982.
18. Pazin, G.J., Ho, M., Haverkos, H.W., Armstrong, J.A., Breinig, M.C., Wechsler, H.L., Arvin, A.M., Merigan, T.C.: Effects of interferon-a on human warts. Journal of Interferon Research, 2:235-243, 1982.
19. Pollard, R.B., Arvin, A.M., Gamberg, P., Rand, K.H., Gallagher, J.G., Merigan, T.C. Specific cell-mediated immunity and infections with herpes viruses in cardiac transplant recipients. American Journal of Medicine, 73:679-689, 1982.
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21. Arvin, A.M., Koropchak, C.M., Yeager, A.S., Pereira, L. The detection of type-specific antibody to herpes simplex virus type 1 by radioimmunoassay using HSV-1 glycoprotein C purified with monoclonal antibody. Infection and Immunity, 40:184-189, 1983.
22. Wang, E.L., Prober, C.G., Arvin, A.M. Varicella-zoster virus antibody titers before and after the administration of zoster immune globulin to neonates in an intensive care nursery. Journal of Pediatrics, 103:113-114, 1983.
23. Arvin, A.M., Koropchak, C.M., Wittek, A.E. Immunologic evidence of reinfection with varicella-zoster virus. Journal of Infectious Diseases, 148:200-205, 1983.
24. Schmidt, N.J., Arvin, A.M., Martin, D.P., Gard, E.A. Serologic investigation of an outbreak of simian varicella in Erythrocebus patas monkeys. Journal of Clinical Microbiology, 18:901-904, 1983.

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26. Wittek, A.E., Cohen, P.S., Arvin, A.M., Smith, S.D., Koropchak, C.M., De Clercq, E. The effect of E-5-(2-bromovinyl)-2'-deoxyuridine on human fibroblasts, peripheral blood mononuclear cells and bone marrow cells in vitro. Antimicrobial Agents and Chemotherapy, 24:803-806, 1983.
27. Steinberg, G.K., Britt, R.H., Enzmann, D.R., Finlay, J.L., Arvin, A.M. Fusarium brain abscess. Journal of Neurosurgery, 56:598-601, 1983.
28. Yeager, A.S. and Arvin, A.M. Reasons for the absence of a history of recurrent genital infections in mothers of neonates infected with herpes simplex virus. Pediatrics, 73:188-193, 1984.
29. Arvin, A.M. and Miller J.J., III. Acid labile a-interferon in sera and synovial fluids from patients with juvenile arthritis. Arthritis and Rheumatism, 27:582-585, 1984.
30. Paryani, S.G., Arvin, A.M., Koropchak, C.M., Wittek, A.E., Amylon, M., Dobkin, M.B., Budinger, M.D. A comparison of varicella-zoster antibody titers in patients given intravenous immune serum globulin or varicella-zoster immune globulin. Journal of Pediatrics, 105:201-205, 1984.
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33. Fong, S.K.H., Perkins, S., Koropchak, C.M., Fishwild, D.M., Wittek, A.E., Engleman, E.G., Grumet, C.F., Arvin, A.M. Human monoclonal antibodies neutralizing varicella-zoster virus. Journal of Infectious Diseases, 152:280-285, 1985.
34. Schmidt, N.J. and Arvin, A.M. Sensitivity of different assay systems for immunoglobulin M responses to varicella-zoster virus in reactivated infections (zoster). Journal of Clinical Microbiology, 23:978-979, 1986.
35. Paryani, S.G. and Arvin, A.M. Intrauterine infection with varicella-zoster virus after maternal varicella. New England Journal of Medicine, 314:1542-1546, 1986.
36. Arvin, A.M., Koropchak, C.M., Williams, B.R.G., Grumet, F.C., Fong, S.K.H. Early immune response in healthy and immunocompromised subjects with primary varicella-zoster virus infection. Journal of Infectious Diseases, 154:422-429, 1986.

37. Arvin, A.M., Kinney-Thomas, E., Shriver, K., Grose, C., Koropchak, C.M., Scranton, E., Wittek, A.E., Diaz, P.S. Immunity to varicella-zoster viral glycoproteins, gp I (90/58) and gp III (gp 118) and to a nonglycosylated protein, p170. Journal of Immunology, 137:1346-1351, 1986.
38. Arvin, A.M., Hensleigh, P.A., Au, D.S., Yasukawa, L.L., Wittek, A.E., Palumbo, P.E., Paryani, S.G., Prober, C.G., Yeager, A.S. Failure of antepartum maternal cultures to predict the infant's risk of exposure to herpes simplex virus at delivery. New England Journal of Medicine, 315:796-800, 1986.
39. Finlay, J., Luft, B., Yousem, S., Wood, G.S., Link, M., Arvin, A.M., Glader, B., Lennette, E., Shatsky, M., Olds, L., Borcharding, W., Hong, R., Putilo, D. Chronic infectious mononucleosis syndrome, pancytopenia and poly-clonal B-lymphoproliferation terminating in acute lymphoblastic leukemia. American Journal of Pediatric Hematology and Oncology, 8:18-27, 1986.
40. Rhine, W.D., Arvin, A.M., Stevenson, D.K. Neonatal aspergillosis: Case report of a survivor and review of literature. Clinical Pediatrics, 25:400-403, 1986.
41. Sullender, W.M., Miller, J.L., Yasukawa, L.L., Bradley, J.S., Black, S.B., Yeager, A.S., Arvin, A.M. Humoral and cellular immunity in neonates with herpes simplex virus infection. Journal of Infectious Diseases, 155:28-37, 1987.
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44. Weintrub, P.S., Sullender, W.M., Lombard, C., Link, M.P., Arvin, A.M. Giant cell pneumonia caused by parainfluenza type 3 in a patient with acute myelomonocytic leukemia. Archives of Pathology and Laboratory Medicine, 111:569-70, 1987.
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46. Sullender, W.M., Arvin, A.M., Diaz, P.S., Connor, J., Straube, R., Dankner, W., et al. Pharmacokinetics of acyclovir suspension in infants and children. Antimicrobial Agents and Chemotherapy, 31:1722-1726, 1987.
47. Arvin, A.M., Solem, S.M., Koropchak, C.M., Kinney-Thomas, E., Paryani, S.G. Humoral and cellular immunity to varicella-zoster virus glycoprotein, gp I, and to a non-glycosylated protein, p 170, in the strain 2 guinea pig. Journal of General Virology, 68:2449-2454, 1987.
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49. Arvin, A.M.: Oral therapy with acyclovir in infants and children. Pediatric Infectious Diseases, 6:56-58, 1987.
50. Prober, C.G. and Arvin, A. M. Perinatal viral infections. European Journal of Clinical Microbiology, 6:245-261, 1987.
51. Arvin, A.M. Antiviral treatment of herpes simplex infection in neonates and pregnant women. Journal of the American Academy of Dermatology, 18: 200-203, 1988.
52. Sullender, W.M., Yasukawa, L.L., Schwartz, M., Pereira, L., Hensleigh, P.A., Prober, C.G., Arvin, A.M. Type-specific antibodies to herpes simplex virus type 2 (HSV-2) glycoprotein G in pregnant women, infants exposed to maternal HSV-2 infection at delivery and infants with neonatal herpes. Journal of Infectious Diseases, 157:164-171, 1988.
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54. Whitley, R.J., Corey, L., Arvin, A.M., Lakeman, F.D., Sumaya, C.V., Wright, P.F., Dunkle, L.M., Soong, S.J., Nahmias, A.J. et al. Changing presentation of herpes simplex virus infection in neonates. Journal of Infectious Diseases, 158:109-116, 1988.
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57. Wilson, C.W., Stevenson, D.K., Arvin, A.M. A concurrent epidemic of respiratory syncytial virus and Echovirus 7 infections in an intensive care nursery. Pediatric Infectious Disease Journal, 8:24-29, 1989.
58. Koropchak, C.M., Solem, S., Diaz, P.S., Arvin, A.M.: Investigation of varicella-zoster virus infection of lymphocytes by *in situ* hybridization. Journal of Virology, 63:2392-2395, 1989.
59. Rabalais, G.P., Nusinoff-Lehrman, S., Arvin, A.M., Levin, M.J. Antiviral susceptibilities of herpes simplex virus isolates from infants with recurrent mucocutaneous lesions after neonatal infection. Pediatric Infectious Disease Journal, 8:221-223, 1989.
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62. Arvin, A.M.: Serologic misdiagnosis of congenital infections [letter]. Pediatric Infectious Disease Journal. 8:542, 1989.
63. Boucher, F.D., Yasukawa, L.L., Bronzan, R.N., Hensleigh, P.A., Arvin, A.M., Prober, C.G. A prospective evaluation of primary genital herpes simplex virus type 2 infections acquired during pregnancy. Pediatric Infectious Disease Journal, 9:499-504, 1990.
64. Englund, J.A., Arvin, A.M., Balfour, H.H., Jr. Acyclovir treatment for varicella does not lower gpI and IE-62 (p170) antibody responses to varicella-zoster virus in normal children. Journal of Clinical Microbiology, 28:2327-2330, 1990.
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67. Arvin, A.M. and Prober, C.G. Herpes simplex virus infections in pregnancy. The Pediatric Infectious Disease Journal. 9:765-67, 1990.
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69. Whitley, R., Arvin, A.M., Prober, C.G., Corey, L., Burchett, S., Plotkin, S., et al. Predictors of morbidity and mortality in neonates with herpes simplex virus infections. New England Journal of Medicine, 324:450-454, 1991.
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72. Arvin, A.M. Relationships between maternal immunity to herpes simplex virus and the risk of neonatal herpesvirus infection. Reviews of Infectious Diseases, 13 Suppl 11:S953-6, 1991.
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74. Koropchak, C.M., Graham, G., Palmer, J., Winsberg, M., Ting, S.F., Wallace, M., Prober, C.G., Arvin, A.M. Investigation of varicella-zoster virus infection by polymerase chain reaction

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