

## CURRICULUM VITAE

Peter J. Krause, MD  
Senior Research Scientist  
Department of Epidemiology and Public Health  
Yale School of Medicine  
New Haven, CT

### PERSONAL HISTORY

Date of Birth: March 17, 1945  
Place of Birth: Denver, Colorado  
Mailing address: Department of Epidemiology and Public Health  
Yale School of Medicine  
60 College Street, Room 600  
P.O. Box 208034  
New Haven, Connecticut  
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### EDUCATION

Undergraduate	1967	B.A. with Honors in Biology, Williams College Williamstown, Massachusetts
Medical	1971	M.D., Tufts University School of Medicine Boston, Massachusetts

### POSTGRADUATE TRAINING

Internship	1971-72	Pediatrics, Yale-New Haven Hospital, New Haven, Connecticut
Residency	1972-73	Pediatrics, Yale-New Haven Hospital, New Haven, Connecticut
	1973-74	Pediatrics, Stanford University Medical Center, Palo Alto, California
Fellowship	1976-79	Research Fellow in Pediatric Infectious Diseases, U.C.L.A. School of Medicine, Los Angeles, California

### ACADEMIC APPOINTMENTS

1979-84	Assistant Professor of Pediatrics University of Connecticut School of Medicine Farmington, Connecticut
1985-1991	Associate Professor of Pediatrics
1991-2008	Professor of Pediatrics
2008-2009	Associate Research Scientist Yale University School of Medicine
2009-present	Senior Research Scientist Department of Epidemiology and Public Health Yale School of Medicine New Haven, Connecticut

### PROFESSIONAL APPOINTMENTS

1974-76	Pediatrician, U.S. Army, Bad Kreuznach, West Germany Honorable Discharge
1979-81	Attending Physician Pediatric Infectious Diseases, Pediatric Ambulatory Services Department of Pediatrics, Hartford Hospital, Hartford, Connecticut
1982-1996	Director, Division Pediatric Infectious Diseases Department of Pediatrics, Hartford Hospital, Hartford, Connecticut
1996-1998	Director, Pediatric AIDS Program Connecticut Childrens Medical Center, Hartford, Connecticut
1998-2008	Director, Division of Infectious Diseases Director, Infection Control Program Department of Pediatrics, Connecticut Children's Medical Center University of Connecticut School of Medicine

2008- 2009           Hartford, Connecticut  
Associate Research Scientist  
Department of Epidemiology and Public Health  
Yale School of Medicine  
2009-                 Senior Research Scientist  
Department of Epidemiology and Public Health  
Yale School of Medicine  
New Haven, Connecticut

#### HONORS

1967                 B.A. with Honors in Biology, Williams College, Williamstown, Massachusetts  
1977-79             N.I.H. National Research Service Award for Individual Postdoctoral Fellows  
1991                 Camel Teaching Award, The University of Connecticut School of Medicine  
1991-1999          Editorial Board, Journal of Clinical Microbiology  
1991-1994          Member, Subcommittee on Quality Standards for Infectious Diseases,  
Infectious Disease Society of America  
1992-2008          Cited in American Men and Women of Science, 18-20th editions  
Cited in Who's Who in Science and Engineering, 1st-6th editions  
Cited in Who's Who in the East, 26th Edition  
Cited in Who's Who in Medicine and Health Care, 00-07  
Cited in Who's Who in America, 01-07  
Cited in Who's Who in the World, 01-02  
Cited in Guide to America's Top Physicians 04-05, Consumers' Research Council  
of America  
Cited in Best Doctors in America 2007-2008, Best Doctors in America, Inc.  
1994-1998          Member, Infectious Disease Society of America Practice Guidelines Committee  
1995, 1997, 1999   George F. Thornton Award- Connecticut Infectious Diseases Society  
(best presentation in clinical infectious diseases at annual meeting)  
1996-2008          Listed in The Best Doctors in America Database  
1996-1999          Member, Council of the Connecticut Infectious Diseases Society  
2000                 Guest Editor, Seminars in Pediatric Infectious Diseases  
2002-04             Cited in Guide to America's Top Pediatricians, Consumer Research Council of  
America  
2003                 University of Connecticut School of Medicine Pediatric Spot Award  
2004-2008          Listed in Best Doctors in Hartford, Hartford magazine  
2006                 Member, Infectious Diseases Society of America Practice Guidelines for the  
Treatment of Lyme Disease, Human Granulocytic Anaplasmosis, and Babesiosis  
2007                 Appointed to the Board of Directors of the American Lyme Disease Foundation  
2008                 Appointed to the Advisory Board of the University of Rhode Island Partnership in  
International Research and Education

#### LICENSURE

1973-79             California  
1971-73             Connecticut  
1979-Present       Connecticut  
1995-Present       Rhode Island

#### SPECIALTY BOARDS

1974                 American Academy of Pediatrics Written Boards  
1977                 American Academy of Pediatrics Oral Boards  
1994-2001          American Board of Pediatrics Pediatric Infectious Diseases Boards  
2001-2008          American Board of Pediatrics Pediatric Infectious Diseases Boards (renewal)  
2008-2115          American Board of Pediatrics Pediatric Infectious Diseases Boards (renewal)

#### PROFESSIONAL SOCIETIES

1977                 American Academy of Pediatrics  
1977                 American Society of Microbiology

1978	Pediatric Infectious Diseases Society
1984	Infectious Diseases Society of America (Fellow, 1987)
1985	Infectious Diseases Society of Connecticut
1985	American Federation of Clinical Research
1986	Society for Pediatric Research
1986	SIGMA XI (The Scientific Research Society)
1987	American Association for the Advancement of Science
1990	Association of Clinical Scientists
1991	New York Academy of Sciences
1995	American Society of Tropical Medicine & Hygiene
2001	American Pediatric Society

#### PEER REVIEW ACTIVITIES

Member of the editorial board of the Journal of Clinical Microbiology 1991-1999

#### ***National Institutes of Health***

Member NIH site review team for review of Program Project Grant, "Role of Human Milk in Infant Nutrition and Health", Larry K. Pickering, MD, Principle investigator, Norfolk, VA 9-29-97

Member NIH Ad Hoc Review Committee on Impact of Microbial Interactions on Infectious Diseases, 2003/01 Council ZAI1 GPJ-M J1, 11/6-8/2002

Member NIH TMP Vector study section, ZRG1 TMP (99), 3/11-3/12/2004

#### ***Centers for Disease Control and Prevention***

Member of Special Emphasis Panel for the Centers for Disease Control and Prevention, Program announcement #04006 Cooperative Agreement for Research on the Laboratory Diagnosis, Immunology, and Pathogenesis of Lyme Disease in the United States 1/14/2004

#### ***Medical journals***

Past/present reviewer for:

ACTA Parasitologica, American Family Physician, American Journal of the Medical Sciences, American Journal of Tropical Medicine and Hygiene, Applied and Environmental Microbiology, Arthritis Care & Research, Blood, Clinical Infectious Diseases, Clinical Microbiology, Clinical Microbiology Reviews, Clinical Pediatrics, Connecticut Medicine, Cytokine, Emerging Infectious Diseases, European Journal of Microbiology and Infectious Diseases, Infection and Immunity, International Journal of Parasitology, Journal of the American Medical Association (JAMA), Journal of Clinical Microbiology, Journal of Diarrhoeal Diseases Research, Journal of Immunological Methods, Journal of Infectious Diseases, Journal of Pediatrics, Journal of Pediatric Infectious Diseases, Journal of Pediatric Gastroenterology and Nutrition, New England Journal of Medicine, Parasitology Research, Pediatrics, Pediatric Research, Pediatric Research Reviews, The Medical Letter on Drugs and Therapeutics, The Pediatric Infectious Diseases Journal, The Red Book (Report of the Committee on Infectious Diseases), Reviews of Infectious Diseases, Vector Borne and Zoonotic Diseases, Western Journal of Medicine, Vaccine

#### INSTITUTIONAL ACTIVITIES

*Connecticut Children's Hospital/University of Connecticut School of Medicine*

Chairman, Infection Control Committee

Chairman, Research Director Search Committee

Faculty Promotion Committee

Pediatrics Fellowship Committee

Medical Staff Council

*University of Connecticut School of Medicine*

General Clinical Research Center Scientific Advisory Committee

University of Connecticut School of Medicine Medical Council representative

## TEACHING ACTIVITIES

### ***Selected recent talks***

2008

"Human babesiosis." New York Medical College. Valhalla, New York.

"Human babesiosis, an emerging infection." Danbury Hospital, Danbury, Connecticut.

2007

"Development of a novel vaccine for prevention of tick-borne infections." Featured talk, Eastern Society of Pediatric Research. Philadelphia, Pennsylvania.

"Tick-borne Infections." Infectious Disease Association of California. Palm Springs, California.

"Tick immunity and tick-borne infection." Tufts University School of Medicine. Boston, Massachusetts.

"Absence of serologic cross reactivity between *Borrelia burgdorferi* and *Babesia microti*."

National Institutes of Health and Centers for Disease Control and Prevention sponsored conference: The Laboratory Diagnosis of Lyme disease II. Banbury Center, Cold Spring Harbor Laboratory, New York.

2006

"Emerging tick-borne zoonoses: Lyme disease, babesiosis, human granulocytic ehrlichiosis." American Society for Microbiology, 41<sup>st</sup> Annual Regional Meeting, Albany, New York.

"The human immune response to *Ixodes scapularis* salivary protein." NIH-University of Connecticut working group. University of Connecticut School of Medicine, Farmington, Connecticut.

"Lyme disease, babesiosis, human granulocytic ehrlichiosis." McGill University, Montreal, Canada.

2005

"Emerging tick-borne zoonoses: Lyme disease, babesiosis, human granulocytic ehrlichiosis."  
Rhode Island Hospital, Providence, Rhode Island

"Tick-borne Zoonoses: Lyme disease, Babesiosis, HGE." University of California Health Center, Los Angeles, California

"Human babesiosis." Harvard School of Public Health. Boston, Massachusetts.

### ***Teaching awards from the University of Connecticut School of Medicine***

Camel Teaching Award, The University of Connecticut School of Medicine 1991

Presented to the Infectious Diseases Division, University of Connecticut for the best teaching Division at the Medical School

University of Connecticut Pediatric Housestaff Spot Award for teaching 2003

Presented once a month to the best teacher, University of Connecticut School of Medicine, Department of Pediatrics

### ***Teaching activities 1990-2008***

<b>Course title</b>	<b>Topic</b>	<b>Students</b>	<b>Avg annual hours</b>
Immunology for Epidemiologists	Immunology	Yale MPH students	42
Infectious diseases elective Connecticut Children's Medical Center	Epidemiology, pathogenesis, immunology, clinical presentation, diagnosis, and treatment of	Adult ID fellows Pediatric housestaff Medical students: 3-4 <sup>th</sup> yr	174

	infections		
Infectious diseases course University of Connecticut School of Medicine	Epidemiology, pathogenesis, immunology, clinical presentation, diagnosis, and treatment of babesiosis and malaria	Medical students: 2 <sup>nd</sup> yr	2
Grand rounds	Epidemiology, pathogenesis, immunology, clinical presentation, diagnosis, and treatment of tick- borne diseases	University and Community hospitals	8
Teaching seminars	Epidemiology, pathogenesis, immunology, clinical presentation, diagnosis, and treatment of tick- borne diseases	University hospitals and Academic organizations	8
Molecular and medical parasitology 2004-2005	Epidemiology, pathogenesis, immunology, clinical presentation of babesiosis and malaria	Postdoctoral fellows Adult ID fellows	
EMD512 Immunology for Epidemiologists 2008	Immunology	MPH students at the Yale School of Public Health	48
Total annual instructional hours			282

#### PUBLICATIONS

1. Boyer KM, Cherry JD, Welliver RC, Deseda-Tous J, Zahradnik JM, Dudley JP, **Krause PJ**, Bryson YJ, Spencer MJ: Clinical trials with inactivated monovalent (A/New Jersey/76) and bivalent (A/New Jersey/76-A/Victoria/75) influenza vaccines in Los Angeles children. J Inf Dis Suppl 136:S661-S664, 1977.
2. Boyer KM, Cherry JD, Spencer MJ, Welliver RC, Dudley JP, Deseda-Tous J, Zahradnik JM, **Krause PJ**, Bryson YJ, Garakian AJ: IgM and IgG antibody responses following immunization of children with inactivated monovalent (A/New Jersey/76-A/Victoria/75) influenza vaccines. J Inf Dis Suppl 136:S665-S671, 1977.
3. Deseda-Tous J, Cherry JD, Spencer MJ, Welliver RD, Boyer KM, Dudley JP, Zahradnik JM, **Krause PJ**, Walbergh EW: Measles revaccination: The persistence and degree of antibody response analyzed by type of immune response. Am J Dis Child 132:287-290, 1978.
4. **Krause PJ**, Cherry JD, Naiditch MJ, Deseda-Tous J, Walbergh EW: Revaccination of previous recipients of killed measles vaccine; clinical and immunologic studies. J Pediatr 93:565-573, 1978.
5. **Krause PJ**, Cherry JD, Deseda-Tous J, Champion JG, Strassburg M, Sullivan C, Spencer MJ, Bryson YJ, Welliver RC, Boyer KM: Epidemic measles in young adults; clinical, epidemiologic, and serologic studies. Ann Intern Med 90:873-876, 1979.
6. **Krause PJ**, Young LS, Cherry JD, Osher AB, Spencer MJ, Bryson YJ: The treatment of exacerbations of pulmonary disease in cystic fibrosis: Netilmicin compared with Netilmicin and Carbenicillin. Curr Ther Res 25:609-617, 1979.
7. Welliver RC, Cherry JD, Boyer KM, Deseda-Tous JE, **Krause PJ**, Dudley JP, Murray RA, Wingert W, Champion JG, Freeman G: Sales of non-prescription code remedies: A unique method of influenzae surveillance. Pediatr Res 13:1015-1017, 1979.
8. **Krause PJ**, Cherry JD, Carney JM, Naiditch MJ, O'Connor K: Measles specific lymphocyte reactivity and serum antibody in subjects with different measles histories. Am J Dis Child 134:567-571, 1980.

9. Singh N, Cole S, **Krause PJ**, Conway M, Garcia L: Necrotizing sarcoidal angitis with extrapulmonary involvement: Clinical, pathologic, ultrastructural and immunologic features. *Am Rev Resp Dis* 124:189-192, 1981.
10. Hyams JS, **Krause PJ**, Gleason PA: Lactose malabsorption following rotavirus infection in young children. *J Pediatr* 99:916-918, 1981.
11. **Krause PJ**, Maderazo EG, Scroggs M: Abnormalities of neutrophil adherence in newborns. *Pediatr* 69:184-189, 1982.
12. **Krause PJ**, Owens NJ, Nightingale CH, Klimek JJ, Lehmann WB, Quintiliani RA: Penetration characteristics of Amoxicillin, Cefaclor, Erythromycin-Sulfasoxazole and Trimethoprim-Sulfamethoxazole in middle ear fluid of patients with chronic serous otitis media. *J Inf Dis* 145:815-821, 1982.
13. Giesker DW, Pastuszak WT, Forouhar FA, **Krause PJ**, Hine P: Lymph node biopsy for early diagnosis in Kawasaki disease. *Am J Surg Pathol* 6:493-501, 1982.
14. **Krause PJ**: Measles, an update. *Hosp Med* 66W-66LL, January, 1983.
15. **Krause PJ**, Hyams JS, Middleton PJ, Herson VC, Flores J: Unreliability of the Rotazyme ELISA test in neonates. *J Pediatr* 103:259-262, 1983.
16. **Krause PJ**, Pock RM, Woronick CL, Maderazo EG: Simplified micropore filter assay of neutrophil migration using whole blood. *J Inf Dis* 148:881-885, 1983.
17. **Krause PJ**, Hyams JS, Andiman WA, Ascuitto R, Ludwig M, Bechtold T, Harada S, Saemundsen A, Purtilo DT: Fatal Epstein-Barr virus induced lymphoproliferative disease in a Laotian refugee. *Ped Inf Dis* 3:50-54, 1984.
18. Hyams JS, Feder H, **Krause PJ**, Frick J, McLaughlin JC, Furth T, Hine P: Occurrence of diarrhea and *Clostridium difficile* toxin following antibiotic therapy in young children. *Ped Inf Dis* 3:433-436, 1984.
19. Herrmann JE, Blacklow NR, Perron D, Cukor G, **Krause PJ**, Hyams JS, Barrett H, Ogra PL: Enzyme immunoassay with monoclonal antibodies for detection of rotavirus in stool specimens. *J Inf Dis* 152:830-832, 1985.
20. Davis BM, Bronsiegel N, **Krause PJ**, Clark DA: Chemotactic factor induced neutrophil shape changes in whole blood: a comparison of adults and neonates. *Ann Clin Lab Sci* 15:495-503, 1985.
21. **Krause PJ**, Herson VC, Boutin-Lebowitz J, Eisenfeld L, Block C, LoBello T, Maderazo EG: Polymorphonuclear leukocyte adherence and chemotaxis in stressed and healthy neonates. *Pediatr Res* 20:296-300, 1986.
22. **Krause PJ**, Hight DW, Schwartz AN, Mueller RD, Kleinman L, Leopold H, Iseman MD: Successful management of *Mycobacterium intracellulare* pneumonia in a child. *Ped Inf Dis* 5:269-271, 1986.
23. **Krause PJ**, Malech HL, Kristie J, Kosciol K, Herson VC, Eisenfeld L, Pastuszak W, Seligmann B: Polymorphonuclear leukocyte heterogeneity in neonates and adults. *Blood* 68:200-204, 1986.
24. Fuenfer MM, Herson VC, Raye JR, Woronick CL, Eisenfeld L, Ingardia CJ, Block CF, **Krause PJ**: The effect of betamethasone on neonatal neutrophil chemotaxis. *Pediatr Res* 22:150-153, 1987.
25. Cates LK, **Krause PJ**, Murphy TV, Stutman HR, Granoff DM: Second episodes of *Haemophilus influenzae* type b disease following rifampin prophylaxis of the index patients. *Pediatr Inf Dis J* 6:512-515, 1987.

26. **Krause PJ**, Ingardia CJ, Pontius LT, Malech HL, LoBello TM, Maderazo EG: Host defense during pregnancy: neutrophil chemotaxis and adherence. *Am J Obstet Gyn* 157:274-280, 1987.
27. **Krause PJ**, Kristie J, Wang WP, Eisenfeld L, Herson VC, Maderazo EG, Josaki K, Kreutzer DL: Pentoxifylline enhancement of defective neutrophil function and host defense in neonatal mice. *Am J Pathol* 129:217-222, 1987.
28. **Krause PJ**, Kristie J, Wang WG, Eisenfeld L, Herson VC, Maderazo EG, Josaki K, Kreutzer DL: Pentoxifylline enhancement of defective neutrophil function and host defense in neonatal mice. *In Pentoxifylline and Leukocyte Function*. Mandell GC and Novick WJ, Jr, (eds) Somerville, NJ, Hoechst-Roussel Pharmaceuticals, Inc., pp 245-253, 1988.
29. Maderazo EG, Maderazo AB, Mercier E, Kripas CJ, **Krause PJ**, Kreutzer DL, Quintiliani R: Effects of pentoxifylline on neutrophil function in trauma and protective effects on chemotactic factor-induced transcutaneous hypoxia. *In Pentoxifylline and Leukocyte function*. Mandell GC and Novick WJ, Jr, (eds) Somerville NJ: Hoechst-Roussel Pharmaceuticals, Inc. pp 575-582, 1988.
30. Herson VC, **Krause PJ**, Pontius LT, Eisenfeld L, Maderazo EG: Indomethacin associated sepsis in very low birth weight infants, *Am J Dis Child*, 142:555-558, 1988.
31. **Krause PJ**, Maderazo EG, Bannon P, Kosciol K, Malech HM: Neutrophil heterogeneity in patients with blunt trauma. *J Lab Clin Med*, 112:208-215, 1988.
32. **Krause PJ**, Kreutzer DL, Eisenfeld L, Herson VC, Weisman S, Bannon P, Greca N. Characterization of non-motile neutrophil subpopulations in neonates and adults, *Pediatr Res*, 25:519-524, 1989.
33. **Krause PJ**, Herson VC, Eisenfeld L, Johnson GM. Enhancement of neutrophil function for treatment of neonatal infections. *Pediatr Inf Dis J*, 8:382-389, 1989.
34. **Krause PJ**: Augmentation of impaired host defense in the neonate. *Inf in Med*, 6:139-146, July/August 1989.
35. Herson VC, Block C, Eisenfeld L, Maderazo EG, **Krause PJ**: The effect of intravenous fat infusion on neonatal neutrophil and platelet function. *J Parenteral Enteral Nutr*, 13:620-622, 1989.
36. Maderazo EG, Breux S, Woronick CL, **Krause PJ**: Efficacy, toxicity and pharmacokinetics of pentoxifylline and its analogues in experimental *Staphylococcus aureus* infections. *Antimicrob Agents Chemother*, 34:1100-1106, 1990.
37. Josaki K, Contrino J, Kristie J, **Krause PJ**, Kreutzer DL: Pentoxifylline-induced modulation of human leukocyte function in vitro. *Am J Pathol*, 136:623-630, 1990.
38. **Krause PJ**, Todd M, Hancock W, Pastuszak W, Maderazo EG, Hild D, Kosciol K: The role of cellular maturation in neutrophil heterogeneity, *Blood*, 76:1639-1646, 1990.
39. Eisenfeld L, **Krause PJ**, Herson V, Savidakis J, Bannon P, Maderazo EG, Woronick CL, Giulano C, Banco L: Longitudinal study of neutrophil adherence and motility. *J Pediatr*, 117:926-929, 1990.
40. **Krause PJ**, Maderazo EG, Contrino J, Eisenfeld L, Herson VC, Greca N, Bannon P, Kreutzer DL: Modulation of neutrophil function by pentoxifylline. *Pediatr Res*, 29:123-127, 1991.
41. **Krause PJ**, Telford SR, Ryan R, Hurta AB, Kwasnik I, Luger S, Niederman J, Gerber M, Spielman A: Geographical and temporal distribution of Babesiosis in Connecticut. *J Clin Micro*, 29:1-4, 1991.
42. Eisenfeld L, **Krause PJ**, Herson VC, Block C, Schick JB, Maderazo EG: Enhancement of neonatal neutrophil motility (chemotaxis) with adult fresh frozen plasma. *Am J Perinatol*, 9 5-8, 1992.

43. Eisenfeld L, McLaughlin J, Mayo D, Klevjer-Anderson P, Silver H, **Krause PJ**, Andersen J, Herson V, Savidakis J, Lazar AM, Rosencrantz T, Ryan R, and the collaborative study group: Cytomegalovirus antibody detection in blood donors and mothers of very low birthweight neonates using three serologic methods. *Diagnostic Microbiol Infect Dis*, 15:125-128, 1992.
44. Eisenfeld L, Silver H, McLaughlin J, Klevjer-Anderson P, Mayo D, Andersen J, Herson V, **Krause PJ**, Savidakis J, Lazar AM, Rosencrantz T, Pisciotto P: Prevention of transfusion associated cytomegalovirus infection in neonates by removal of leukocytes from blood. *Transfusion*, 32:205-209, 1992.
45. Woronick CL, Maderazo EG, Anthony AN, **Krause PJ**, Shaafi R: Characterization of a direct effect of phorbol myristate acetate on human neutrophil cell membrane using 31D8 monoclonal antibody. *J Leuk Biol*, 51:289-295, 1992.
46. **Krause PJ**, Telford SR, Pollack RJ, Ryan R, Brassard P, Zemel L, Spielman A: Babesiosis: An underdiagnosed disease of children. *Pediatrics*, 89: 1045-1048, 1992.
47. Herson VC, Block C, Eisenfeld L, Maderazo EG, **Krause PJ**: The effect of labor and delivery on neonatal PMN leukocyte number and function: *Am J Perinatol*, 9: 285-288, 1992.
48. **Krause PJ**: Babesiosis. *The Report on Pediatric Infectious Diseases*, 2: 11-12, 1992.
49. Feder HM Jr, Gerber MA, **Krause PJ**, Ryan R, Shapiro ED: Early Lyme disease presenting as a flu-like illness without erythema migrans. *Pediatrics*, 91: 456-459, 1993.
50. Contrino J, **Krause PJ**, Greca N, Kreutzer D. TNF stimulation of IL-1 beta production in neonatal and adult neutrophils. *Pediatr Res*, 34: 249-252, 1993.
51. **Krause PJ** and Feder HM, Jr: Lyme disease and babesiosis. *Adv Pediatr Infect Dis*, 9: 183-209, 1994.
52. Eisenfeld L, Rosencrantz TS, Block C, Burke G, Phillips F, Herson V, **Krause PJ**: The effect of corticosteroids on the maturation of neutrophil motility in very low birthweight neonates. *Am J Perinatol*, 11: 163-166, 1994.
53. **Krause PJ**, Telford S, Ryan R, Conrad PA, Conrad M, Wilson M, Thomford JW, Spielman A: Diagnosis of Babesiosis: Evaluation of a serologic test for the detection of *Babesia microti* antibody. *J Inf Dis*, 169: 923-926, 1994.
54. **Krause PJ**. Babesiosis. *Seminars in Pediatric Infectious Diseases*, 5: 127-130, 1994.
55. **Krause PJ**, Gross PA, Barrett TL, Dellinger EP, Martone WJ, McGowan JE, Sweet RL, Wenzel RP. Quality standard for assurance of measles immunity among health care workers. *Clin Inf Dis*, 18: 431-436, 1994.
56. **Krause PJ**, Gross PA, Barrett TL, Dellinger EP, Martone WJ, McGowan JE, Sweet RL, Wenzel RP. Quality standard for assurance of measles immunity among health care workers. *Inf Control Hosp Epidem*, 15: 193-199, 1994.
57. Gross PA, Barrett TL, Dellinger EP, **Krause PJ**, Martone WJ, McGowan JE, Sweet RL, Wenzel RP. Quality standard for the treatment of bacteremia. *Clin Inf Dis*, 18: 428-430, 1994.
58. Gross PA, Barrett TL, Dellinger EP, **Krause PJ**, Martone WJ, McGowan JE, Sweet RL, Wenzel RP. Quality standard for the treatment of bacteremia. *Inf Control Hosp Epidem*, 15: 189-192, 1994.
59. Dellinger EP, Gross PA, Barrett TL, **Krause PJ**, Martone WJ, McGowan JE, Sweet RL, Wenzel RP. Quality standard for prophylactic antimicrobial use in surgical procedures. *Clin Inf Dis*, 18: 431-436, 1994.

60. Dellinger EP, Gross PA, Barrett TL, **Krause PJ**, Martone WJ, McGowan JE, Sweet RL, Wenzel RP. Quality standard for prophylactic antimicrobial use in surgical procedures. *Inf Control Hosp Epidem*, 15: 182-188, 1994.
61. Gross PA, Barrett TL, Dellinger P, **Krause PJ**, Martone WJ, McGowan JE, Sweet RL, Wenzel RP. Consensus development of quality standards. *Inf Control Hosp Epidem*, 15: 180-182, 1994.
62. Gross PA, Barrett TL, Dellinger P, **Krause PJ**, Martone WJ, McGowan JE, Sweet RL, Wenzel RP. Purpose of quality standards. *Clin Inf Dis*, 18: 421, 1994.
63. **Krause PJ**, Woronick CL, Burke G, Slover N, Kosciol C, Kelly T, Spivak B, Maderazo EG. Depressed neutrophil chemotaxis in children suffering blunt trauma. *Pediatrics*, 93: 807-809, 1994.
64. Gerber MA, Shapiro E, **Krause PJ**, Cable R, Badon SJ, Ryan R. The risk of acquiring Lyme disease or babesiosis from a blood transfusion. *J Infect Dis*, 170: 231-234, 1994.
65. Jaskiewicz JA, McCarthy CA, Richardson AC, White KC, Fisher DJ, Dagan R, Powell KR, Korones DN, Bracikowski A, Deveikis A, Stutman H, Lohr JA, Carlson DW, Kennedy RM, Beach PS, **Krause PJ**, Gudnason T, Li M, Matsell D, Pennie R, Dennehy PH, Peter G. Febrile infants at low risk for serious bacterial infection: an appraisal of the Rochester Criteria and implications for management. *Pediatrics*, 94: 390-396, 1994.
66. Persing D, Herwaldt BL, Glaser C, Lane RS, Thomford JW, Mathiesen D, **Krause PJ**, Phillip DF, Conrad PA. Infection with a Babesia-like organism in the western United States. *New Engl J Med*, 332:298-303, 1995.
67. Feder HM, Gerber MA, **Krause PJ**, Cartter M, Sikand V. Prospective assessment of Lyme disease in a school-aged population in Connecticut. *J Infect Dis*, 171: 1371-1374, 1995.
68. Feder H, Goyal R, **Krause PJ**. Neutropenia associated with acyclovir therapy in an infant, a case report. *Clin Inf Dis*, 20: 1557-1559, 1995.
69. **Krause PJ**, Telford S, Spielman A, Sikand VJ, Ryan R, Christianson D, Burke G, Brassard P, Pollack R, Peck J, Persing DH. Concurrent Lyme disease and Babesiosis: Evidence for increased severity and duration of illness. *JAMA*, 275: 1657-1660, 1996.
70. **Krause PJ**, Ryan R, Telford S, Persing D, Spielman A. Efficacy of an IgM Serodiagnostic Test for the Rapid Diagnosis of Acute Babesiosis. *J Clin Microbiol*, 34: 2014-2016, 1996.
71. Peng J, **Krause PJ**, Kresch M. Neonatal herpes simplex virus infection following Cesarean section with intact amniotic membranes. *J Perinatol*, 16: 397-399, 1996.
72. **Krause PJ**, Telford S, Spielman A, Ryan R, Magera J, Rajan TV, Christianson D, Alberghini TV, Bow L, Persing D. Comparison of PCR with blood smear and small animal inoculation for diagnosis of *Babesia microti* parasitemia. *J Clin Microbiol*, 34: 2791-2794, 1996.
73. **Krause PJ**: Babesiosis. *The Report on Pediatric Infectious Diseases*, 7: 4, 1997.
74. **Krause PJ**, Telford S. Emerging tick-borne zoonoses: Lyme disease, babesiosis, ehrlichiosis. *Seminars in Pediatric Infectious Diseases*, 8: 34-43, 1997.
75. **Krause PJ**, Feder HM, Eiffert, H, Hans-Juergen C. Lyme disease in children, *Recent Advances in Pediatrics*, 16:73-89, 1998.
76. Collins MD, Dajani AS, Kim KS, King DR, Kaplan SL, Azimi P, Kolokathis A, Swanson R, Hodes DS, Hasse GM, **Krause PJ**, Wells TG, Fry DE, Congeni BL. Comparison of ampicillin/sulbactam

plus aminoglycoside vs. ampicillin plus clindamycin plus aminoglycoside in the treatment of intraabdominal infections in children. *Pediatr Infect Dis J*, 17:S15-18, 1998.

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#### ABSTRACTS

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#### LETTERS

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GRANTS

**Current**

**NIH intramural Bench to Bedside Award** 7/1/09-9/30/11  
\$437,944

Searching for Persistence in Lyme Disease

This study is designed to determine, using xenodiagnosis, whether *B. burgdorferi* persist in people after antibiotic therapy.

(Adriana Marques PI; Peter J. Krause, MD, coinvestigator)

**Gordon and Llura Gund Foundation** 5/1/09-4/30/12  
\$1,050,000

This study addresses a broad range of research issues related to babesiosis and Lyme disease (Peter J. Krause, MD, PI)

submitted

**National Institutes of Health** 6/1/09-5/31/11  
Xenodiagnosis of Lyme disease \$476,495

This study is designed to determine, using xenodiagnosis, whether *B. burgdorferi* persist in people after antibiotic therapy.

(Linden Hu, MD PI; Peter J. Krause, MD, co-investigator)

**Completed**

**National Institutes of Health**

1991-96

Multi-Locus Molecular Detection of *Borrelia burgdorferi* \$376,000  
(David H Persing, MD, PhD, PI; Peter J. Krause, MD, coinvestigator)

Molecular Diagnosis and Monitoring of Lyme Disease 376,000  
(David H Persing, MD, PhD, PI; Peter J. Krause, MD, coinvestigator)

1997-2002

Health Burden of Coinfecting Deer-Associated Zoonoses 2,208,263  
(Peter J. Krause, MD PI)

1997-2002

Investigation of the Natural History of Babesiosis 101,452  
(David Persing, PI; Peter J. Krause, MD, coinvestigator)

1998-2003

Health Burden of Coinfecting Deer-Associated Zoonotic CNS Disease 200,000  
awarded as part of University of Connecticut Health Center GCRC  
University of Connecticut GCRC grant (M01RR06192)  
(Peter J. Krause, MD PI)

2003-2009

Recurrent Lyme Disease 250,000  
awarded as part of University of Connecticut Health Center GCRC  
University of Connecticut GCRC grant (M01RR06192)  
(Peter J. Krause, MD; Stephan Wikel, PhD PIs)

2003-2009

Emerging Health Burden of Human Babesiosis 250,000

awarded as part of University of Connecticut Health Center GCRC  
University of Connecticut GCRC grant (M01RR06192)  
(Peter J. Krause, MD PI)

**Centers for Disease Control and Prevention**

2001-2003  
Efficacy of a One-step EIA for Diagnosing Lyme Disease 187,996  
(Peter J. Krause, MD PI)

**Connecticut Innovations Critical Technologies**

1999-2001 291,655  
Recombinant *Babesia microti* diagnostic antigens and vaccine  
(Peter J. Krause, MD; Justin Radolf, MD, co-PI)

**SmithKline Beecham Pharmaceuticals**

1994-1995  
A Dose-Ranging Study to Evaluate the Safety and Immunogenicity of a 110, 590  
Recombinant DNA Expressed Protein Vaccine for Lyme Disease in Healthy Subjects.

1994-1995  
A Double-blind, Randomized, Dose-ranging, Placebo-controlled Study to Assess 40,000  
the Safety and Efficacy of Single IV Doses of SB 209763 in Infants and Young Children  
Hospitalized with RSV Infection.

1995-1996  
A Double-blind, Randomized, Dose-ranging, Placebo-controlled Study to Assess 40,000  
the Safety and Efficacy of Multiple IM Doses of SB 209763 in Infants and Young Children  
with Underlying Disease as Prophylaxis Against the Development of Serious RSV Infection.

1997-1999  
A Comparative Study to Evaluate the Safety and Immunogenicity of a 34,000  
Recombinant DNA Expressed Liop-protein Vaccine for Lyme Disease  
in Healthy Subjects (7 to 15 years of age).

**University of Connecticut Health Center**

University of Connecticut Research Foundation  
1986-87 19,090  
Immunoenhancement of Neonatal Host Defense

Faculty Research Grant  
1999-2000 38,000  
Molecular Cloning of *Babesia microti* Rhoptry Proteins  
(Peter J. Krause, MD; Justin Radolf, MD; co-PI)

**Hartford Hospital Free Funds**

1980-81 4,160  
Host Defense in the Neonate

1981-82  
Host Defense in the Neonate II 5,412

1983-84  
Host Defense in the Neonate: Pathogenesis and Treatment 24,830

1984-85  
Neutrophil Adherence and Chemotaxis in Children with RSV 14,235  
The Role of Infection in the Pathogenesis of BPD 23,043

1985-86  
The Use of Trental and Theophylline for Treatment of

Neutrophil Dysfunction in Neonates	16,250
Neutrophil Subsets in Neonates and Adults 1986-87	25,350
Incidence and Pathogenesis of Infection in Children Suffering Trauma	33,800
Augmentation of Neonatal PMN Function by Trental	33,137
Neutrophil Function in Very Low Birth Weight Infants 1987-88	32,482
Neutrophil Heterogeneity	37,337
The Origin of Neutrophil Heterogeneity 1988-89	47,190
The Use of I/T PMN Ratio and 31D8 mAb Assay to Diagnose PMN Storage Pool Exhaustion in Neonates	3,500
31D8: A Novel Surface Antigen in Neutrophils which Mediates Adherence Related Functions	3,500
PMN Maturation Markers for the Diagnosis of Infection 1989-90	24,570
The Effect of Hematopoietic Growth Factors on PMN Function and Outcome from Infection in Neonates	34,164
PMN Egress from the Bone Marrow	47,385
PMN Maturation Markers for the Diagnosis of Infection 1990-91	24,570
Neutrophil Synthesis of the Cytokines IL-1 and G-CSF 1991-92	39,650
Age Related Severity of Babesiosis 1992-93	45,000
Long term in vitro culture of <i>Babesia microti</i>	15,000
The rate of cardiac, joint, neurologic complications in atypical Lyme disease 1994-1996	15,000
Treatment of Persistent <i>Babesia microti</i> Parasitemia with Atovaquone	10,000