

Department of Pediatrics
Division of Pediatric Infectious Diseases

Jeffrey S. Kahn, M.D., Ph.D.
Division Director

July 22, 2016

Cecelia Trenticosta Kappel
Staff Attorney
The Capital Appeals Project
The Promise of Justice Initiative
636 Baronne St.
New Orleans, LA 70113

RE: State of Louisiana v. Rodricus Crawford

Dear Ms. Kappel,

I am providing this expert report for the above referenced case. These opinions are based on my review of the records and my training, education, experience and background. The opinions that I express below are to a reasonable degree of medical certainty.

Records and Documents Received and Reviewed

I have received the following documents:

- The Caddo Parish Coroner's Office Autopsy Report (Todd G. Thoma, M.D., FACEP, Coroner) of Roderius Lott (date of birth February 7, 2011) and Death Certificate
- Transcript of testimony of Dr. James Traylor at the preliminary hearing
- Transcript of testimony of Dr. James Traylor at trial
- Transcript of testimony of Dr. Daniel J. Spitz at trial
- Report of Dr. Daniel J. Spitz
- Report of Dr. Jan Ophoven
- Report of Dr. Margarita Sillio
- Report of Dr. Robert Bux
- Audio of 911 calls
- Photos of brain slides
- Crime scene photos
- Photos taken at the autopsy
- Photos of lung tissue slides
- Transcripts and audio of police interviews
- Police scene video
- Police vehicle video
- State's trial exhibits
- Defense trial exhibits
- Report of CPI investigation

- LSU Health Sciences Center medical records for Roderius Lott
- LSU Health Sciences Center medical records for Lakendra Lott
- Willis-Knighton medical records for Roderius Lott
- Willis-Knighton medical records for Lakendra Lott
- Photos of bathroom taken by defense
- Photos of bathroom taken by police
- Photos of bed in which child slept
- Shreveport Fire Department incident report
- Diagrams of the house at 6809 Broadway St.

Qualifications

I am a physician with board certification in both Pediatrics and Pediatric Infectious Diseases. I have practiced continuously since completing my pediatric infectious diseases training in 1998 in 2 large tertiary care children's hospitals: Yale-New Haven Children's Hospital in New Haven, Connecticut (1998-2009) and the Children's Medical Center in Dallas, Texas (2009-present). From 1998- May 2009, I was a faculty member in the Department of Pediatrics in the Yale University School of Medicine. During my time there, I was involved in teaching pediatrics and pediatric infectious diseases to medical students, nurses and physicians in all disciplines of pediatrics, including general pediatrics. This teaching included topics that are relevant to this case such as serious bacterial infections including streptococcal infections, invasive *Streptococcus pneumoniae* infections, and bacterial sepsis. I also practiced pediatrics and pediatric infectious disease at Yale-New Haven Children's Hospital during which time I cared for or consulted on many children, including infants, with bacterial infections including blood infections due to *Streptococcus pneumoniae*. Since May 2009, I have been on the faculty of the University of Texas Southwestern Medical Center as a Professor of Pediatrics and Microbiology and the Director of the Division of Infectious Diseases in the Department of Pediatrics. I am also the Director of Infectious Diseases and recently (May 2012) I was appointed the Medical Director of Research at the Children's Medical Center. Children's Medical Center is among the largest children's hospitals in the United States of America. I continue to have many academic and educational responsibilities. These include teaching and training of medical students, interns and residents in the topics noted above among others. I am also the Director of the University of Texas Southwestern Medical Center Pediatric Infectious Diseases training program which is designed to train pediatricians in the field of infectious diseases, a requirement for board certification in this field. I continue to practice both pediatrics and pediatric infectious disease at Children's Medical Center and often care for or consult on children with *Streptococcus pneumoniae* infections. During my career, I have also lectured at national and international meetings including the Pediatric Infectious Diseases Board Review Course. Based on my education, training, background and experience, I am familiar with the standard of care in the evaluation, diagnosis and treatment of children with *Streptococcus pneumoniae* infections and therefore, I am qualified to render an opinion in this case.

Factual Case Summary

On February 16, 2011, Roderius Lott, who was nearly a year old at the time, was found by his father, Rodricus Crawford to be unresponsive. Subsequently, a call was made to 911 and Roderius was transported to the hospital and declared dead despite resuscitative efforts.

According to the hospital and autopsy reports, there were many lesions noted on the skin including the following:

- buttocks with subcutaneous hemorrhages (left > right)
- visible contusions to forehead and both sides of face
- subcutaneous scalp contusions over back, front and behind right ear
- fine linear abrasions over upper right back and lateral wall of left abdomen

Also noted on the autopsy were the following:

- bilateral early bronchopneumonia
- petechiae involving subpleural surfaces of each lung

A blood culture obtained post-mortem was positive for growth of the following:

- Streptococci, alpha hemolytic (identification unsuccessful); time to positivity 15 hours, 42 minutes

The cause of death noted on the State of Louisiana Certificate of Death was as follows:

- Asphyxia
- Suffocation

Case Summary

Roderius Lott presented with a history, examination findings and laboratory data consistent with bacterial pneumonia, and septic shock. Infections with streptococcus, in particular *Streptococcus pneumoniae*, in young children can develop rapidly (over the course of a few hours) and can result in serious disease including death. During the initial stages of the disease, the symptoms can be non-specific and the seriousness of the infection may not necessarily be apparent to the child's caretaker. Invasive streptococcal disease is often preceded by a viral respiratory tract infection and according to the testimony and factual data in the case, Roderius had symptoms consistent with a viral respiratory tract infection in the days prior to his death.

The physical findings noted on autopsy, specifically the hemorrhages, are typically features of sepsis secondary to *Streptococcus pneumoniae*. These skin lesions may be mistakenly identified as bruises, particularly by individuals who do not have experience with streptococcal infections. This child had evidence of lung infection, specifically bronchopneumonia and petechiae involving the subpleural surfaces and pulmonary abscess, which is the most common presentation of serious infection caused by *Streptococcus pneumoniae*.

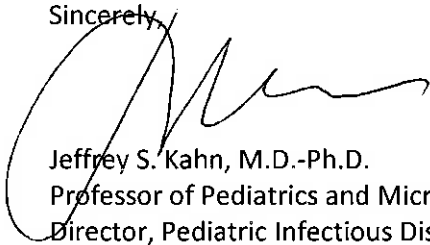
Furthermore, the child had microbiological evidence of streptococcal infection in the blood, which again is consistent with an overwhelming infection with *Streptococcus pneumoniae*. For some reason, the identification (i.e. speciation) of the streptococcal organism was not done. The identification of *Streptococcus pneumoniae* can be accomplished with fairly routine biochemical testing that is available in most clinical microbiology laboratories.

Streptococcus pneumoniae is the most common cause of serious bacterial infection in infants and young children. It is important to note that although this child had previously received a single dose of pneumococcal vaccine, a single vaccination is not 100% effective (indeed, 3 doses are recommended) and induces immunity against only a small fraction of the >90 *Streptococcus pneumoniae* serotypes. Therefore, it would not be surprising that a vaccinated child would develop pneumococcal disease.

In conclusion, the facts presented in this case are entirely consistent with an overwhelming *Streptococcus pneumoniae* infection which, tragically, resulted in the death of this child.

The opinions described above are based on the information that I have received and reviewed to date.

Sincerely,

A handwritten signature in black ink, appearing to read 'Jeffrey S. Kahn', written over the word 'Sincerely,'.

Jeffrey S. Kahn, M.D.-Ph.D.

Professor of Pediatrics and Microbiology

Director, Pediatric Infectious Diseases and the Pediatric Infectious Diseases Fellowship Training Program

Medical Director of Research, Children's Medical Center-Dallas

The Sarah M. and Charles E. Seay Chair in Pediatric Infectious Diseases

DRAFT

JEFFREY S. KAHN, M.D.-Ph.D.

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Plano, TX 75093

(972)473-7212

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**ACADEMIC
POSITIONS:**

Professor of Pediatrics and Microbiology
Director, Division of Pediatric Infectious Diseases
Director, Pediatric Infectious Diseases Fellowship Training
Program
The Sarah M. & Charles E. Seay Chair in Pediatric Infectious
Diseases
Department of Pediatrics
University of Texas Southwestern Medical Center

Director, Infectious Diseases (May 2009-present)
Medical Director of Research (May 2012-present)
Medical Director of Infection Prevention and Control (Interim
Dec 2012 to January 2014)
Children's Medical Center, Dallas
Dallas, Texas

Associate Research Scientist, Pediatrics and Epidemiology and
Public Health, Co-Investigator, Pediatric AIDS Clinic Trials
Group, Yale-New Haven Children's Hospital
Lecturer, Molecular Biophysics and Biochemistry
Yale University School of Medicine
New Haven, Connecticut
July, 2004- May 2009

Assistant Professor, Pediatrics (1998) and Epidemiology and
Public Health (2001), Co-Investigator, Pediatric AIDS Clinic
Trials Group, Yale-New Haven Children's Hospital, Lecturer,
Molecular Biophysics and Biochemistry, Yale University School
of Medicine, New Haven, Connecticut
July, 1998- June, 2004.

TRAINING:

Fellow, Pediatric Infectious Diseases
Co-Investigator, Pediatric AIDS Clinic Trials Group
The Children's Hospital at Yale-New Haven
Lecturer, Molecular Biophysics and Biochemistry
Yale University School of Medicine
New Haven, Connecticut
July, 1995 -June, 1998.

Chief Resident, Pediatrics
Instructor, Pediatrics
The Children's Hospital at Yale-New Haven
Yale University School of Medicine
New Haven, Connecticut
June 1994 - June, 1995.
Resident, Pediatrics
The Children's Hospital at Yale-New Haven
New Haven, Connecticut
June 1991 - June 1994.

EDUCATION:

M.D.-Ph.D.

State University of New York
Health Science Center at Brooklyn
College of Medicine
School of Graduate Studies,
Department of Microbiology & Immunology
Brooklyn, New York
Thesis: *Structural and Functional Studies of the Vaccinia
Virus Nucleic Acid-Dependent ATPase.*
September 1983 - May 1991.

Graduate Studies

McGill University
School of Graduate Studies
Department of Microbiology & Immunology
Montreal, P.Q., Canada
September 1982 - August 1983.

Bachelor of Science

McGill University
Major: Microbiology & Immunology
Graduated with Honours
Montreal, P.Q., Canada
September 1978 - June 1982.

**FELLOWSHIPS
and FUNDING:**

NIH 2 UL1 TR000451-06
UT STAR – Bridge Funding – Biomedical Informatics
Role: Co-investigator
July 2012-July2013

National Institutes of Health (R21 AI072166-01A1) *Molecular
and epidemiologic characterization of a pathogenic human bocavirus*
(Co-Investigator). July 1, 2007- June 30, 2009.

National Institutes of Health (1R21 AI067762-01) *Role of the New Haven Coronavirus, a Novel Human Pathogen, in Kawasaki Disease*. February 15, 2006 –February 14, 2008

American Heart Association, Grant-in-Aid. *The Role of the New Haven Coronavirus, a Novel Human Pathogen, in Kawasaki Disease*.
July 2005-February 2006

The Donaghue Foundation Research in Clinical and Community Health Issues Grant. *Epidemiological Investigation Of Human Respiratory Viruses*.
January 2003-December 2005

Yale Children's Clinical Research Center Pilot Project grant. *Investigation of Human Metapneumovirus*
July 2002-June 2003

American Lung Association Research Grant. *Genetic Markers For Respiratory Syncytial Virus Virulence*.
July 2001-June 2003

Charles H. Hood Foundation. *Novel Approach to a Respiratory Syncytial virus vaccine*.
January, 2001-December, 2002

National Institutes of Health Mentored Clinical Scientist Development Award (K08). *Novel Approach To A Respiratory Syncytial Virus Vaccine*.
September, 1997 - August, 2000.

Schoolwide Research Fellowship
School of Graduate Studies
State University of New York
Health Science Center at Brooklyn (Downstate)
September 1987 - August 1988
September 1986 - August 1987
September 1985 - August 1986.

Alumni-National Institute of Health Research Fellowship
State University of New York
Health Science Center at Brooklyn (Downstate)
June 1985 - August 1985.

F.C. Harrison Fellowship for Academic Excellence in
Microbiology and Immunology

School of Graduate Studies
Department of Microbiology & Immunology
McGill University
September 1982 - August 1983.

**PROFESSIONAL
AFFILIATIONS and LICENSURE:**

Member, Infectious Diseases Society of America
January, 2002

Member, American Society of Microbiology
December, 2001

Member, Society of Pediatric Research
November, 2001

Associate Member, American Society of Virology
February, 1998
Full Member, November, 2002

Member, Pediatric Infectious Disease Society
Board eligible, July, 1998
Board Certified, October, 2003
Re Certified, September 2013

Fellow of the American Academy of Pediatrics
July, 2000
Board Certified, October, 1995.
Re-certified 2002
Re-certified 2012

Licensure, State of Texas
August, 2009

Licensure, State of Connecticut
May, 1994

Diplomate of the National Board of Medical Examiners,
Board Certified, July, 1992.

INVITED PRESENTATIONS

36th Annual Pediatric Postgraduate Conference, Texas Tech
University

Title (presentation 1): Challenging Cases in Pediatric Infectious Diseases

Title (presentation 2): Update on Community Acquired Pneumonia in the Pediatric Population

Lubbock, Texas

August 2012

43rd Annual Kenneth C. Haltalin Pediatrics for the Practitioner

Title: "Instructive Cases in Pediatric Infectious Diseases"

Richardson, Texas

April 2011

Dallas ISD (Independent School District) NASA Science Symposium

Title: Influenza

Dallas, TX

September 2010

42nd Annual Kenneth C. Haltalin Pediatrics for the Practitioner

Title: "Influenza: Old Challenges, New Challenges"

Richardson, Texas

April 2010

Center for Infectious Disease Dynamics

Penn State University

Seminar series in Epidemiology of Infectious Diseases

Title: "Emerging Human Parvoviruses"

State College, Pennsylvania

March, 2010

PREP-ID

American Board of Pediatrics

Infectious Diseases Review Course

Title: "Assorted Viruses I & II"

Chicago, Illinois

July 2009

The 21st Annual Infectious Diseases in Children Symposium

New York, New York

Title "*Viral Pneumonia*"

November 2008

Memorial Sloan-Kettering Cancer Center

Infectious Diseases Grand Rounds

Advance Topics in Infectious Diseases Lecture, *"Newly Emerging Human Viruses: Clinical Implications and Significance"*
October 2008

Columbia University College of Physicians and Surgeons
Infectious Diseases Rounds, *"Human Bocavirus, a Newly Emerging Human Virus"* May 2008

Gordon research Conference Biology of Acute Respiratory
Infection. Ventura, California March 2008
Title, *"Emerging Childhood Respiratory Viruses: Human Bocavirus"*

45th Annual Meeting of the Infectious Diseases Society of
America, San Diego, California October 2007
Emerging Infections Symposia
Title, *"Human Bocavirus: Clinical Significance and Implications"*

47th Interscience Conference on Antimicrobial Agents and
Chemotherapy, Chicago, Illinois September 2007
Title, *"Human Bocavirus: Clinical Significance and Implications"*

23rd Annual Clinical Virology Symposium and the Annual
Meeting, Pan American Society for Clinical Virology
Clearwater Beach Florida, April/May 2007
Fredrich Deinhardt Lectureship
Title, *"Newly Identified Viruses Causing Lower Respiratory Tract Infection"*

Novartis Foundation Symposium (#290) held jointly with The
Institute of Molecular and Cell Biology, Singapore. Novel and
Re-Emerging Respiratory Viral Diseases at the Beginning of the
21st Century.
Singapore, April 2007
Invited as a Discussant

VIII International Symposium on Respiratory Viral Infections,
Kohala Coast, Hawaii. March 2006
Title, *"The new respiratory coronavirus"*
European Respiratory Society Annual Congress 2005
Copenhagen, Denmark. September 2005
Title, *"Human metapneumovirus: a newly emerging respiratory pathogen"*

Connecticut Infectious Diseases Society 2005 Annual Meeting
Southbury, Connecticut. May, 2005

Title, *"Update on Coronaviruses"*

The 2005 International Congress on Respiratory Viruses
Dallas, Texas. April, 2005

Title, *"Recent Advances in Coronavirus Discovery."*

Influenza Educational Program (sponsored by Aventis
Pasteur). New Haven, Connecticut. October 2004

Title, *"Reducing the Burden of Influenza Disease in Children."*

Infectious Diseases Fellow Symposium, "Globalization of
Respiratory Diseases: Epidemiology, Pathogenesis, &
Treatment." Mobile Bay, Alabama. January, 2003

Title, *"Investigation of Human Metapneumovirus, a Newly
Emerging Human Respiratory Pathogen"* and *"RSV, 2003"*

GRAND ROUNDS PRESENTATIONS:

Pediatric Grand Rounds

Children's Medical Center Dallas/UT Southwestern Medical
Center

September, 2013

Title, *"Vaccine Preventable Diseases in the News: Pertussis and
Measles in North Texas"*

Wendy Chung, M.D., MSPH, Karen V. Smith, M.D. and Jeffrey
S. Kahn, M.D.-Ph.D.

Pediatric Grand Rounds

Children's Medical Center Dallas/UT Southwestern Medical
Center

September, 2011

Title, *"Antibiotic Resistance & Antibiotic Stewardship at Children's
Medical Center"*

Jeffrey S. Kahn, M.D.-Ph.D. and Chris Doern, Ph.D.

Pediatric Grand Rounds

Children's Medical Center Dallas/UT Southwestern Medical
Center

February, 2010

Title, *"The Long and Deadly History of Influenza and the Emergence
of the Novel 2009 H1N1 Swine Flu"*

Pediatric Grand Rounds

Yale University School of Medicine

February, 2008

Title, *"Respiratory Viruses: Old Challenges, New Challenges"*

Pediatric Grand Rounds
Norwalk Hospital, Norwalk, CT
November, 2006
Title, "*Update on Kawasaki Disease.*"

Rheumatology Grand Rounds, Department of Internal
Medicine
Yale University School of Medicine
May, 2006
Title, "*Kawasaki disease, diagnosis, etiology and management.*"
Paul McCarthy, M.D., **Jeffrey S. Kahn, M.D.-Ph.D.** and George
Porter, M.D.-Ph.D.

Pediatric Grand Rounds
Yale University School of Medicine
February, 2006
Title, "*Kawasaki disease.*"
Jeffrey S. Kahn, M.D.-Ph.D. and George Porter, M.D.-Ph.D.

Pediatric Grand Rounds
Bridgeport Hospital, Bridgeport, CT
March, 2004
Title, "*Human Metapneumovirus, a Newly Emerging Human
Respiratory Pathogen.*"

Pediatric Grand Rounds
Norwalk Hospital, Norwalk, CT
May, 2003
Title, "*West Nile Virus: Implications of A Newly Emerging
Pathogen.*"

Pediatric Grand Rounds
Norwalk Hospital, Norwalk, CT
June, 2002
Title, "*Respiratory Syncytial Virus, 2002.*"

Pediatric Grand Rounds
Bridgeport Hospital, Bridgeport, CT
April, 2002
Title, "*Respiratory Syncytial Virus, 2002.*"

Pediatric Grand Rounds
Yale University School of Medicine
January, 2002
Title, "*Respiratory Syncytial Virus, 2002.*"

Pediatric Grand Rounds
Stamford Hospital
Stamford, CT
February, 2001
Title, "*Varicella, 2001.*"

Pediatric Grand Rounds
Bridgeport Hospital, Bridgeport, CT
September, 2000
Title "*Update on Viral Hepatitis.*"

Pediatric Grand Rounds
Lawrence and Memorial Hospital, New London, CT
December, 1999
Title, "*Advances in Antiviral Chemotherapy.*"

Pediatric Grand Rounds
Bridgeport Hospital, Bridgeport, CT
May, 1999
Title, "*Advances in Antiviral Chemotherapy.*"

Pediatric Grand Rounds
St. Mary's Hospital, Waterbury, CT
April, 1999
Title, "*Live Viral Vaccines.*"

Pediatric Grand Rounds
Norwalk Hospital, Norwalk, CT
May, 1998
Title, "*Advances in Antiviral Chemotherapy.*"

Pediatric Grand Rounds
Yale University School of Medicine
February, 1998
Title, "*The Growing World-Wide Problem of Antibiotic
Resistant Bacteria Comes to New Haven.*"
Jeffrey S. Kahn, M.D.-Ph.D. and Robert Baltimore, M.D.

Pediatric Grand Rounds
Yale University School of Medicine
March, 1997
Title, "*Infective Endocarditis*"
Jeffrey S. Kahn, M.D.-Ph.D. and Robert Baltimore, M.D.

Pediatric Grand Rounds
Yale University School Of Medicine
May, 1995

Title, "*Chief Residents' Review of a Year in Pediatrics.*"
Jeffrey S. Kahn, M.D.-Ph.D. and Beth G. Diamond, M.D.

Pediatric Grand Rounds
Bridgeport Hospital, Department of Pediatrics
February, 1995

Title, "*Case Presentations from the Children's Hospital at Yale-New Haven.*"

Pediatric Grand Rounds
Yale University School of Medicine
March, 1994

Title, "*Another case of dehydration-Central Diabetes Insipidus in an Infant.*"

Jeffrey S. Kahn, M.D.-Ph.D. and Andrew Lustbader, M.D.

NEWSPAPER

Swine flu: One year and still counting
Op-Ed
Dallas Morning News
April 19, 2010

HONORS & AWARDS:

The Pediatric Chair's Award, "To that member of the faculty who consistently surpasses the highest standards of patient care, generous collegiality and leadership by example."
Department of Pediatrics, Yale University School of Medicine.
June 2005

The Mae Gailani Junior Faculty Award in recognition of uncompromising dedication to research and patient care.
Department of Pediatrics, Yale University School of Medicine.
June 2002

Stephen I. Morse Award for outstanding achievement in graduate Microbiology & Immunology research. State University of New York, Health Science Center at Brooklyn. February 1988.

Chandler McC. Brooks Award for meritorious research, presented on Annual Graduate Day, State University of New York, Health Science Center at Brooklyn. May 1987.

Associated Medical Schools of New York, Sixth Annual Awards Program for Medical Student Research. Award for presentation. Columbia University, New York. May 1987.

New York City Branch of the American Society for Microbiology, Second Annual Graduate Student Research Presentation Competition. Second place award. April 1987.

Merrill-Dow Award for the outstanding presentation by a M.D.-Ph.D. student at the 1987 Eastern Student Research Forum. University of Miami, Florida. March 1987.

COMMITTEES

International

Referee Panel, Research Council of the Research Fund for the Control of Infectious Diseases, Health Welfare and Food Bureau, Government of the Hong Kong Special Administrative Region, The People's Republic of China, April 2005

Reviewer of grant applications for the National Research Foundation, South Africa, June 2006

Reviewer of grant applications for the SickKids Foundation, Toronto, Canada and the Canadian Institute of Health Research, January, 2007

National

National Institutes of Health, Vaccine Study Section (ZRG1 VACC-04), November, 2003

National Institutes of Health, Vaccines Against Microbial Diseases Study Section (ZRG1 VMD [01]), June, 2004

Pediatric Academic Society and Eastern Society for Pediatric Research Abstract Reviewer, December 2008

Pediatric Infectious Diseases Society Membership Committee
September 2010-present

US News and World Report Best Children's Hospitals 2011-12
Working Group Panels
July 2010-present

Reviewer of grant applications

Thrasher Research Fund, Salt Lake City, UT
May-September 2006

Pediatric Infectious Disease Society Fellowship Grant
2006-2010

MedImmune Pediatric Infectious Diseases Fellowship
2006-2010

Institution

University of Texas Southwestern Medical Center
Clinical Research Infrastructure Committee
May 2011-present
Biological and Chemical Safety Advisory Committee
September 2010-present
University Of Texas System Institutional Biosafety
Committee at The University of Texas Southwestern
Medical Center Dallas Texas
September 2010-present
Pediatric Hematology/Oncology Division Director Search
Committee
March 2010-present

Children's Medical Center, Dallas, Texas
Antimicrobial Stewardship Committee
Co-Director
May 2010-present
Children's Medical Center Foundation Clinical Research
Advisory Committee
May 2009-present

Yale University School of Medicine
Department of Pediatrics
Specialty Clinic Process Improvement Committee
(2008)
Adolescent Medicine Chief Search Committee (2004)
Education Committee (2003-present)
Citizens Committee (2002-2003)
Intern Selection Committee (1999-present)
Departments of Pediatrics/Internal Medicine
Intern Selection Committee: Med-Peds (2002-present)
M.D.-Ph.D. Selection Committee (2006-present)
Yale Center for Clinical Investigation (YCCI) Science and Safety
Committee (2008-present)
Yale-New Haven Hospital
Hospital Credentials Committee (2007-present)

Industry

Novartis Vaccines and Diagnostics, Inc., Meningococcal Advisory Board Meeting,
New York, August 2008

MedImmune, Inc. Pediatric Infectious Diseases Advisory Board.
Miami, February 2008

Tamiflu Paediatric Advisory Board, (Roche)
Barcelona, Spain, May/June 2007

Roche Advisory Board for Management of Influenza in Pediatrics
Atlanta, February 2007

MedImmune, Inc. Advisory Board for Respiratory Syncytial Virus Epidemiological Investigation.
Washington, D.C., January 2006

MedImmune, Inc. Pediatric Infectious Diseases Advisory Board.
San Francisco, April 2006

MedImmune, Inc. Pediatric Infectious Diseases Advisory Board.
Toronto, Canada October 2006

Gerson Lehrman Group Healthcare Council, Consultant
2001-present

MEETINGS CHAIR

Co-Chair, The 2005 International Congress on Respiratory Viruses. Dallas, Texas. April 2005

EDITORSHIP

Guest Editor, Pediatric Infectious Disease Journal Supplement 2005 International Congress on Respiratory Viruses, Volume 24, number 11, November 2005

REVIEWER FOR THE FOLLOWING MEDICAL AND SCIENTIFIC JOURNALS

American Family Physician
American Journal of Tropical Medicine and Hygiene
American Journal of Respiratory and Critical Care Medicine
American Journal of Transplantation
Annals of Clinical Microbiology and Antimicrobials

Antiviral Research Journal
BioMed Central Infectious Diseases
Clinical and Diagnostic Laboratory Immunology
Clinical and Vaccine Immunology
Clinical Infectious Diseases
Clinical Microbiology Reviews
Emerging Infectious Diseases
Expert Review of Anti-infective Therapy
Journal of Clinical Microbiology
Journal of Clinical Virology
Journal of Infection
Journal of Infectious Diseases
Journal of Leukocyte Biology
Journal of Medical Virology
Journal of the Pediatric Infectious Diseases Society
Journal of Pediatrics
Lancet
Lancet Infectious Diseases
Pediatric Infectious Diseases Journal
Pediatric Pulmonology
Pediatric Nephrology
Pediatrics
Pharmaceuticals
PLoS ONE
Respirology
Reviews in Medical Virology
Scandinavian Journal of Infectious Diseases
Schizophrenia Bulletin
Thorax
Vaccine
Virology
Virology Journal
Viruses
Virus Research

MAJOR RESEARCH INTERESTS:

Respiratory syncytial virus, human metapneumovirus,
coronaviruses, influenza viruses, human parainfluenza viruses,
rhinoviruses, human parvoviruses (bocavirus, B19, PARV4)
and human polyomaviruses
Rhabdoviral vectors and vaccines
Pediatric HIV/AIDS

MENTORING

Martin Chen, Masters Degree, Department of Epidemiology and Public Health, Yale University School of Medicine. 2000. Thesis title, "*Association of Respiratory Syncytial Virus Disease Severity with Viral Subgroup and Genotype.*"

Melissa Wolfe, Medical Doctor Degree, Yale University School of Medicine. 2000. Thesis title, "*The Evolution of Respiratory Syncytial Virus in an Infected Host.*"

Derek Boucher, Masters Degree, Department of Epidemiology and Public Health, Yale University School of Medicine. 2003. Thesis title, "*An Investigation of Human Metapneumovirus in Children in New Haven, Connecticut.*"

Jessica Leung, Masters Degree, Department of Epidemiology and Public Health, Yale University School of Medicine. 2004. Thesis title, "*An Investigation of Human Metapneumovirus.*"

Awarded the Dean's Prize for Outstanding Thesis by an Epidemiology Graduate Student, Yale University.

Richard Martinello, M.D. Post-doctoral Fellow, Department of Pediatrics, Division of Infectious Diseases, Yale University School of Medicine. National Institutes of Health Mentored Patient-Oriented Career Development Award (K23), 9/1/03 to 8/31/07. Grant title, "*Genetic Virulence Markers in Respiratory Syncytial Virus.*"

Frank Esper, M.D. Post-doctoral Fellow, Department of Pediatrics, Division of Infectious Diseases, Yale University School of Medicine.

National Institutes of Health National Research Service Award (NRSA), 7/01/03 - 6/30/05. Grant title, "*Epidemiology of human metapneumovirus in New Haven, Connecticut.*"

MedImmune Pediatric Fellowship Grant, MedImmune Inc., 7/01/04 - 6/30/05. Grant title, "*Diversity of the SH and G Glycoprotein Genes in Isolates of the Human Metapneumovirus.*"

Awarded the 2005 Society for Pediatric Research (SPR) Fellow's Clinical Research Award.

Marietta Vazquez, M.D. Assistant Professor, Department of Pediatrics, Yale University School of Medicine. National Institutes of Health Mentored Patient-Oriented Career Development Award (K23), Beginning 2005. Grant title, "Epidemiology of Viral Infections in Children."

Deniz Kesebir, M.D. Post-doctoral Fellow, Department of Pediatrics, Division of Respiratory Medicine, Yale University School of Medicine.

MedImmune Pediatric Fellowship Grant, MedImmune Inc., 7/01/06 - 6/30/07. Grant title, "Human bocavirus infection in children."

2nd Place for Presentation in The 5th Annual Yale Pediatrics Fellows Research Day, April 2007.

Neha Kanungo, Masters Degree, Department of Epidemiology and Public Health, Yale University School of Medicine. 2007. Thesis title, "Phenotypic difference in magnitude of Interleukin-6(IL-6) induction by clinical isolates of Respiratory Syncytial Virus (RSV) obtained from children with Bronchitis."

Zofia Piotrowska, Medical and Masters Degree Yale University School of Medicine. 2007. Thesis title, "*Rhinovirus-associated wheezing and asthma in young children.*"

National Institutes of Health-NCRR CTSA-T32 Medical Student Research Fellowship

Christi Cosby, Masters Degree, School of Epidemiology and Public Health, Yale University School of Medicine. 2006-2008. Thesis title, "*Epidemiology of human bocavirus.*"

Xiaojie "Summer" Guo, Masters Degree, Department of Epidemiology and Public Health, Yale University School of Medicine. 2008. Thesis title, "Seroepidemiology of Group I Coronaviruses in Children."

Mark X. Cicero, M.D. Post-doctoral Fellow, Department of Pediatrics, Division of Emergency Medicine, Yale University School of Medicine

**Awarded the 2008 Pediatric Academic Society (PAS)
Fellow's Clinical Research Award.**

1st Place for Presentation in The 6th Annual Yale
Pediatrics Fellows Research Day, April 2008.

Rachel Wattier, Medical and masters Degree, Yale University
School of Medicine 2008 Thesis title, "*Strain specific induction of
IL-6 by respiratory syncytial viruses*"

Doris Duke Clinical Research Fellowship

Michael Miller, M.D., Post-doctoral fellow, Department of
Pediatrics, Division of Infectious Diseases, Yale University
School of Medicine.

MedImmune Pediatric Fellowship Grant, MedImmune
Inc., 7/01/08 - 6/30/09. Grant title, "Investigation of
human polyomaviruses WU and KI."

2nd Place for Presentation in The 6th Annual Yale
Pediatrics Fellows Research Day, April 2008.

EDUCATIONAL ACTIVITIES AND EFFORTS

Current

Medical Microbiology, 2nd year medical students
UTSW

Past

Molecular Foundations of Medicine. First-year Medical School
Biochemistry conference section leader: 1 ½ hours per week for
13 weeks of the first semester.

Bedside to Bench Mentor for 1st and 2nd Year Medical Students

Lectures

Medical School lectures (Pediatric Clerkship):

Lower Respiratory Tract Infections in Infants and Young
Children

House staff

Seasonal Respiratory Viruses

Pharyngitis and Mononucleosis

Yale University School of Nursing
Infections in the Newborn
Clinical Tutor for 1st and 2nd Year Medical Students

BOOK CHAPTERS: **Jeffrey S. Kahn** and Peter Tattersall. Human Bocavirus: A Newly Discovered Human Parvovirus in Emerging Infections 8. Pages 21-38. Editors: W. Michael Scheld, David C. Hooper, James M. Hughes. ASM Press 2008.

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Michael A. Miller, Carla Weibel, **Jeffrey S. Kahn** and Warren Andiman. Seroepidemiology of WU Polyomavirus among children exposed perinatally to HIV-1. *Journal of Medical Virology*, (2012) 84, 188-193.

Rene Alvarez, Sayda Elbashir, Todd Borland, Ivanka Toudjarska, Philipp Hadwiger, Mathias John, Ingo Roehl, Svetlana Shulga Morskyaya, Rick Martinello, **Jeffrey Kahn**, Mark Van Ranst, Ralph A. Tripp, John P. Devincenzo, Rajendra Pandey, Martin Maier, Lubomir Nechiv, Muthiah Manoharan, Victor Koteliansky, and Rachel Meyers. RNAi

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Jessica Leung, Frank Esper, Carla Weibel, **Jeffrey S. Kahn**. Seroepidemiology of human metapneumovirus (hMPV) based on a novel ELISA utilizing hMPV fusion protein expressed in recombinant vesicular stomatitis virus. *Journal of Clinical Microbiology* (2005), 43(3), 1213-9.

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Frank Esper, Carla Weibel, David Ferguson, Marie L. Landry **Jeffrey S. Kahn.** Evidence of a Novel Coronavirus that is Associated with Respiratory Tract Disease in Infants and Children. *Journal of Infectious Diseases* (2005), 191, 492-8.

John P. DeVincenzo, Caroline B. Hall, David W. Kimberlin, Pablo J. Sanchez, William J. Rodriguez, Barbara A. Jantusch, Lawrence Corey, **Jeffrey S. Kahn**, Janet A. Englund, JoAnn A. Suzich, Frances J. Palmer-Hill, Luis Branco, Syd Johnson, Nita K. Patel, and Franco M. Piazza. Surveillance of Clinical Respiratory Syncytial Virus (RSV) Isolates for Palivizumab (Synagis) Resistant Mutants. *Journal of Infectious Diseases* (2004), 190, 975-8.

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ABSTRACTS:

Ruth Levitz, Igor Dozmorov, Ran Song, Edward K. Wakeland and Jeffrey S. Kahn. Transcriptome Analyses of Human Macrophages Infected with Clinical Isolates of Respiratory Syncytial Virus Reveal Distinct Patterns of Innate Immune Activation. 9th International Respiratory Syncytial Virus Symposium. Stellenbosch, Cape Province, South Africa November 2014

Ruth Levitz, Igor Dozmorov, Ran Song, Edward K. Wakeland and Jeffrey S. Kahn. Transcriptome Analyses of Human

Macrophages Infected with Clinical Isolates of Respiratory Syncytial Virus Reveal Distinct Patterns of Innate Immune Activation. Infectious Diseases Society of America Annual Meeting. San Francisco, California October 2013

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Society of Microbiology (1982).

PERSONAL:

Born November 13, 1960 in Mineola, New York. Married, three children.