

Charles Berde

08/04/2015

CURRICULUM VITÆ

Name: Charles Benjamin Berde

Address: 14 Doran Road, Brookline, Massachusetts 02445

Place of Birth: St. Paul, Minnesota

Education:

1973 B.A.	Swarthmore College (Chemistry Major, Mathematics and Physics Minors) with High Honors
1978 Ph.D.	Stanford University M.S.T.P. (M.D.-Ph.D.) Program, Stanford, California (Biophysics)
1980 M.D.	Stanford University

Postdoctoral Training:

Internship and Residencies:

1980-1981	Intern in Pediatrics, Children's Hospital, Boston, Mass
1981-1983	Resident in Pediatrics, Children's Hospital, Boston, Mass
1983-1985	Resident in Anesthesia, Massachusetts General Hospital, Boston, Massachusetts
1985	Fellow in Anesthesia, Children's Hospital, Boston, Massachusetts

Licensure and Certification:

1981	Diplomate, National Board of Medical Examiners
1985	Massachusetts License Registration #54097
1988	Diplomate, American Board of Pediatrics
1988	Diplomate, American Board of Anesthesiology
1992	Sub-Board Certification in Pediatric Critical Care
1993 (2002, 2011)	Certification of Advanced Competency in Pain Management, American Board of Anesthesiology
2012	Sub-Board Certification, Hospice and Palliative Medicine, American Board of Anesthesiology
2013	Sub-Board Certification, Pediatric Anesthesiology American Board of Anesthesiology

#### Academic Appointments:

1980-1983	Clinical Fellow in Pediatrics, Harvard Medical School, Boston, Massachusetts
1983-1985	Clinical Fellow in Anæsthesia, Harvard Medical School
1985-1991	Assistant Professor of Anæsthesia (Pediatrics), Harvard Medical School
1991- 1999	Associate Professor of Anaesthesia (Pediatrics), Harvard Medical School
1999-present	Professor of Anaesthesia (Pediatrics), Harvard Medical School

#### Hospital Appointments:

1985-1987	Assistant in Anesthesia, Children's Hospital, Boston, Massachusetts
1986-present	Director, Pain Treatment Service, Children's Hospital, Boston, Massachusetts
1987-1989	Associate in Anesthesia, Children's Hospital, Boston, Massachusetts
1989-present	Senior Associate in Anesthesia, Children's Hospital, Boston, Massachusetts
1986-present	Attending Physician, Multidisciplinary Intensive Care Unit, Children's Hospital, Boston, Massachusetts

2002-present	Chief, Division of Pain Medicine, Department of Anesthesiology, Perioperative and Pain Medicine, Children's Hospital, Boston, Massachusetts
2006-present	Sara Page Mayo Chair in Pediatric Pain Medicine, Children's Hospital, Boston, Massachusetts

Other Professional Positions and Major Visiting Appointments:

1988	Visiting Professor, Department of Anesthesiology, Yale University, New Haven, Connecticut
1988	Visiting Professor, Department of Anesthesia, Stanford University, Stanford, California
1988	Visiting Professor, Children's Hospital, Halifax, Nova Scotia
1989	Visiting Professor, University of Virginia, Charlottesville, Virginia
1989	Visiting Professor, Hospital for Sick Children, Toronto, Ontario, Canada
1990	Visiting Professor, Department of Pediatrics, Stanford University Medical Center, Stanford, California
1990	Visiting Professor, The Children's Hospital, Camperdown, Sydney, Australia
1990	Visiting Professor, Adelaide Children's Hospital, Adelaide, Australia
1990	Visiting Professor, Walter Reed Army Hospital, Bethesda, Maryland
1991	Visiting Professor, Inaugural Symposium, Lucille Salter Packard Children's Hospital at Stanford, Stanford, California
1992	Visiting Professor, Children's National Medical Center, Washington, D.C.
1992	Visiting Professor, Cornell Medical Center, New York, New York
1992	Visiting Professor, Children's Hospital of Philadelphia, Philadelphia, Pennsylvania
1992	Visiting Professor, University of California, San Diego, California

1993 Visiting Professor, University of Pittsburgh and Children's Hospital of Pittsburgh, Pittsburgh, Pennsylvania

1993 Visiting Professor, SUNY, Syracuse, New York

1993 Visiting Professor, Washington University School of Medicine, St. Louis, Missouri

1993 Visiting Professor, New York University, Department of Pediatrics, New York, New York

1994 Visiting Professor, McGill University, Montreal, Quebec, Canada

1994 Visiting Professor, Duke University, Durham, North Carolina

1994 Visiting Professor, Montifiore Medical Center, Bronx, New York

1994 Visiting Professor, Albert Einstein Medical Center, Department of Pediatrics, Philadelphia, Pennsylvania

1994 Visiting Professor, Children's Hospital of Philadelphia, Philadelphia, Pennsylvania

1994 Visiting Professor, Albany Medical Center, Department of Pediatrics, Albany, New York

1994 Visiting Professor, Sutter Children's Center, Sacramento, California

1994 Visiting Professor, St. Jude's Children's Cancer Research Institute

1995 Visiting Professor, University of Copenhagen / Danish Pediatric Pain Interest Group, Copenhagen, Denmark

1995 Visiting Professor, St. Luke's / Roosevelt Hospital, New York, N.Y.

1995 Visiting Professor, University of Miami / Miami Children's Hospital, Miami, Florida

1996 Visiting Professor, Columbia / Presbyterian Hospital, New York, N.Y.

1997 Visiting Professor, New York Hospital, New York, N.Y.

2002 Pfizer Visiting Professor, Children's Hospital of San Diego San Diego, CA

2009 Visiting Professor, St. Louis Children's Hospital, St. Louis, MO

2011	Visiting Professor, UCSF, Department of Neurology
2013	Visiting Professor, Albert Einstein College of Medicine/Montefiore Hospital
2014	Visiting Professor, UC Irvine/ Children's Hospital of Orange County

Awards and Honors:

1969	National Merit Scholar
1973	Phi Beta Kappa
1973	Sigma Xi
1974-80	Medical Scientist Training Program Fellowship
1979	Klea D. Bertakis Award for best research presentation by a student, American Federation for Clinical Research, Western Section Meeting, Carmel, California
1986-present	Christopher Coakley Memorial Fund
1993-1994	Algos Pharmaceuticals Scientific Advisory Board
1997	Time Magazine "Heroes of Medicine" profile
1997	Public Broadcasting profile for "Breakthrough"
1997	Humanitarian Award, RSD Association
1998	Biography Magazine profile
2001	Today Show profile
2001	Jeffrey Lawson Award for Advocacy in Children's Pain Relief, American Pain Society
2003	Scientific Achievement Award, RSD Association
2004	Rockefeller Foundation Scholar in Residence, Bellagio Study Center, Bellagio, Italy
2006	Sara Page Mayo Chair in Pediatric Pain Medicine

Patents

1997	"Biodegradable polymer matrices for sustained delivery of local anesthetic agents" U.S. Patent #5,618,563 to Charles Berde and Robert Langer
1997	"Prolonged nerve blockade by the combination of local anesthetic and glucocorticoid" U.S. Patent #5,700,485 to Charles Berde and Robert Langer

Major Committee Assignments:

National and Regional:

1988-1989	Scientific Program Committee and Task Force on Acute Pain Management, Committee Member, International Association for the Study of Pain
1988-present	Ad Hoc Committee on Pediatric Cancer Pain Management, Committee Member, World Health Organization; Co-Author and Rapporteur, Monograph on Pediatric Cancer Pain and Palliative Care, WHO
1988-present	Scientific Advisory Committee, Committee Member, Reflex Sympathetic Dystrophy Association
1990-present	Council Member, International Association for the Study of Pain
1990-present	IASP Newsletter, Scientific Editor, International Association for the Study of Pain
1991-present	Scientific Program Committee, Committee Member, American Pain Society
1992-present	Committee on Certification of Competency in Pain Management, Committee Member, American Board of Anesthesiology,
1992-present	Panels on Acute Pain and Cancer Pain, Committee Member, Agency for Health Care Policy; co-author of Pediatric Monographs for AHCPR
1994	Intramural Program for the Anesthesiology and Neurobiology Section of the National Institute of Dental Research, External Review Committee Member
1994-1995	Member, Committees on Pediatric Anesthesia and Experimental Neurosciences and Biochemistry, American Society of Anesthesiologists
1994-1996	Scientific Committee, World Congress of Anesthesiologists
1992-1996	Councillor, International Association for the Study of Pain, Pediatric Special Interest Group
1994-present	Board of Directors, Advocates for Children's Pain Relief (private philanthropic foundation)
1995-1996	Consulting Staff, Starbright Foundation (private philanthropic foundation)

1994-present	Editorial Board, <u>Pain</u> .
1996-1998	Scientific Committee, American Pain Society
1996-1999	President-Elect, International Association for the Study of Pain, Pediatric Special Interest Group
1999-present	Editorial Board, <u>Anesthesiology</u>
1999-present	President, International Association for the Study of Pain, Pediatric Special Interest Group
2000	ad hoc reviewer, NIH Study Section for RFA on palliative care
2001	ad hoc reviewer, NIH Surgery-Anesthesia-Trauma Study Section
2003-2004	Group Leader, combined NIH/FDA/Neonatal Network consensus group on Neonatal Analgesic Trials
2010 – present	Chair, Consensus Group on Design of Pediatric Analgesic Trials, FDA

Hospital:

1989-91	Ad Hoc Committee on Home Care, Committee Member, Children's Hospital, Boston, MA
1989-present	Anesthesia Department Research Advisory Committee, Children's Hospital, Boston, MA
1999-present	Member, Information Technology Evaluation Committee
2003-present	Consultant on Pain Management, Pediatric Advanced Care Team
2008-2009	Hospital Leadership Task Force on Innovation at Children's Hospital Boston
2013 - present	Pharmacogenomics/genetics Committee

Memberships in Professional Societies:

1985-present	American Society of Anesthesiologists
1985-present	Massachusetts Society of Anesthesiologists
1987-present	New England Pain Society
1987-present	American Pain Society
1987-present	International Association for the Study of Pain
1990-present	Association of University Anesthetists

1990-present	Society for Pediatric Anesthesia
2005-present	American Society of Regional Anesthesia and Pain Medicine

Major Research Interests:

1. Biological effects of prolonged local anesthetic action
2. Development of timed-release local anesthetics
3. Local anesthetic action in infant humans and developing animals
4. Clinical pharmacology of analgesics in children
5. Outcomes of anesthesia and perioperative care in children
6. Assessment and treatment of chronic pain in children

Research Funding Information:

<u>Past:</u>	1986	William Milton Fund PI Regulation of Tachykinin Synthesis and Release in Sensory Neurons in Culture
	1988-89	Charles Hood Foundation PI The Efficacy of Intraoperative Methadone for the Relief of Postoperative Pain in 4-7 Year Old Children
	1989-90	Abbott Laboratories PI Patient-Controlled Analgesia in Children and Adolescents
	1990	NIH PI Small Equipment Grant
	1988-1993	NIH GM 1590 Co-PI (Project Director) Spinal Mechanisms of Anesthesia and Analgesia; Harvard Anesthesia Center Grant
	1988-1993	NIH Co-PI (Project Director) Cell Culture Core, Harvard Anesthesia Center Grant
	1992-1993	U.S. Medical Technologies PI Biodegradable Polymer Matrices for Sustained Delivery of Local Anesthetic Agents



1991-1993	National Cancer Institute of Canada Training Grant (with T. Oberlander)
1991-1993	Howard Hughes Medical Foundation Medical Student Research Fellowship (with D. Hu)
1993-1994	American Heart Association Medical Student Research Fellowship (with D. Hu)
1993-1994	Australian Cancer Council Training Grant in Pain Management (with J.J. Collins)
1992-1994	Anesthesia Patient Safety Foundation PI A Multi-Center Study of Safety and Risk Factors in Pediatric Post-Operative Regional Anesthesia
1993-1994	Mayday Fund PI Fellowship in the Management of Pediatric Pain
1996	Foundation for Anesthesia Education and Research (senior mentor for Dr. Robert Wilder)
1996	Milton Fund (senior mentor for Dr. Robert Wilder)
1996-97	Purdue-Frederick / Maxell supplemental equipment grant
1998--2001	Astra Pediatric Pharmacokinetics and Pharmacodynamics of Ropivacaine for Peripheral and Epidural Blockade - multicenter study
1998-2001	Bradley Foundation Multicenter Pediatric Clinical Trials
1998--2001	Alza Corp. Safety and Efficacy of E-Trans for management of postoperative pain in children and adolescents.

1997-2002 NIH- NICHD 1R01HD35737 PI  
“Rehabilitative Care of Children with  
Neuropathic Pain”  
1997-2002 Advocates for Children's Pain Relief  
2002 - 2006 Zars Corp. Novel Methods of Transdermal  
Local Anesthesia: Assessment with Quantitative Sensory  
Testing  
2003 - 2008 Mayday Fund fMRI of Children and  
Adolescents with Complex Regional Pain Syndromes;  
Role: Co-I (Lebel)  
2007 –2010 National Palliative Care Research Center. N  
of 1 Trials for Management of Fatigue in Pediatric  
Palliative Care; Role: Mentor (Christine Ullrich)  
2009-2012 MRTG Age Differences of Brain Circuits  
Mediating Morphine Effects and Development of Morphine  
Tolerance; Role: Co-Mentor (Bajic)  
  
2008-2011 WEX Pharmaceuticals. Development of  
Tetrodotoxin as a prolonged-duration local anesthetic;  
Role: PI

#### Current

2006 – present Anesthesia Pain Research Endowment  
Fund. Lumbar Disc Disease and Radiculopathy in Children  
and Adolescents; Role: PI

2008 – present Anesthesia Pain Research Endowment  
Fund. Development of Site 1 Sodium Channel Toxins as  
Prolonged-Duration Local Anesthetics; Role: PI

2008-present Orthopedic Research Endowment Fund. An  
Investigation of Pediatric Tourniquet Use Time on Upper  
Extremity Sensory Profiles Following Surgery; Role: Co-I  
(QST testing) (Dyers)

2009 – present Foundation for Anesthesia Education and Research. Age Differences of Brain Circuits Mediating Morphine Effects and Development of Morphine Tolerance; Role: Mentor (Dusica Bajic)

2009- present FDA, NIH - General Anesthesia vs. Spinal Anesthesia for Inguinal Hernia Repair in Infants: Neurologic Outcomes; Role: Mentor (Mary Ellen McCann)

2010 – present NIH R-01- Effects of general vs. regional anesthesia on infant neurodevelopment and apnea; Role: Co-I (Bellinger)

2011- present NIH K-08 - fMRI Imaging of Pain-Related Fear in Children with Complex Regional Pain Syndromes; Role: Co-Mentor (Laura Simons)

2010 - present NIH R-01- CNS Plasticity in Pediatric Complex Regional Pain Syndrome; Role: Co-I (Borsook)

2010 – present Technology Innovation and Development Fund, Boston Children’s Hospital - Neosaxitoxin for prolonged duration local anesthesia. 3 cycles of funding; Role: PI

Principal Clinical and Hospital Service Responsibilities:

1986-present	Director, Pain Treatment Service, Children's Hospital, Boston, Massachusetts
1985-present	Attending Anesthesiologist, Children’s Hospital, Boston
1985-present	Attending Physician, Multidisciplinary Intensive Care Unit, Children’s Hospital, Boston, Massachusetts
1989-present	Director, Anesthesia Pain Research Laboratory, Children’s Hospital, Boston
2008-present	Fellowship Director, Pain Medicine Fellowship, Children's Hospital Boston

2008 – present                      Executive Director, The Mayo Family Pediatric Pain  
Rehabilitation Center

Major Hospital and Departmental Administrative Responsibilities:

1986-present                      Director, Pain Treatment Service, Children’s Hospital,  
Boston

Self Report of Teaching:

1. Local Contributions:

a. Medical School Courses:

1974-1978	Cardiovascular Physiology, Stanford Medical School Teaching Assistant and Lecturer, 100 medical students Approximately 70 hours/semester
1975	Molecular Biophysics Course, Stanford University Teaching Assistant Approximately 30 graduate students
1976	Membrane Molecular Biology, Stanford University Lecturer Approximately 30 graduate students
1990-92	Health Sciences Technology Program, Harvard Medical School Lectures Approximately 30 students Six hours preparation time
1988-94	New Pathway and Pharmacology Courses, Harvard Medical School Lectures and discussion groups Approximately 30 students Twelve hours preparation time

1994-1998 Ethical Issues in Pain Management, Program in Medical Ethics,  
Harvard Medical School  
Approximately 15 students  
Four-six hours preparation time

Hospital Courses and Invited Teaching Presentations:

1985-present Anesthesiology and Pediatrics, Children's Hospital, Boston,  
Massachusetts  
Didactic lectures, teaching and supervision 5-10 times/year  
21-30 fellows and residents, medical and dental students

1987-present Harvard Anesthesia Review Courses  
i. multiple lectures in courses on Pediatric Anesthesia,  
ii. Pain Management, and Anesthesia Review and Update

c. Advisory and Supervisory Responsibilities:

1985-present Advisor for one to two anesthesia fellows annually

1985-present Supervised seven medical students and HST students for laboratory  
studies and thesis work

1995-98 Supervised Dr. John Collins, PhD candidate in medicine,  
University of Sydney

1996-98 Supervised Dr. Christiane Draeger, PhD candidate in veterinary  
medicine, University of Munich

1997-1999 Critical Care Fellowship research mentor for Dr. Daniel Kohane

1999-2001 Supervised Mr. Giulio Gambarota, PhD candidate in physics,  
Boston College

2003-2005 Supervised Ms. Helene Beloeil, Ph D candidate in medicine,  
University of Paris (now department chair in Rennes)  
Co-supervised Zaid Ababneh, postdoc in physics with Robert  
Mulkern

- 2004- 2009      Mentored Dr. Mary Ellen McCann, attending anesthesiologist who became a clinical researcher at mid-career, obtained MPH, now has independent FDA and NIH-RO1 funding
- 2008 – present      Mentoring Dr. Christine Ullrich as junior attending oncologist-palliative care physician, now funded through a palliative care foundation for studies of fatigue in advanced cancer
- 2009 – present      Mentoring Dr. Dusica Bajic as junior attending anesthesiologist, now funded with FAER and NIH K-08 awards
- 2009 – present      Mentoring Dr. Laura Simons as junior attending psychologist, now funded with NIH K-08 award
- 2011 – present      Mentoring Dr. Laura Cornelissen as postdoctoral fellow, funded by Boston Children’s Hospital Technology Development Fund
- 2012 – present      Mentoring Dr. Joe Kossowsky as postdoctoral fellow, funded by Swiss National Science Foundation
- 2012 – present      Mentoring Dr. Carolina Donado-Rincon as postdoctoral fellow, funded by Boston Children’s Hospital Technology Development Fund

Regional, National, and International Contributions:

a. Invited Presentations:

- 1986                      "Pediatric Pain Management," General Surgery Grand Rounds, Children's Hospital, Boston, Massachusetts
- 1986                      "Pediatric Pain Management," Oncology Grand Rounds, Children's Hospital, Boston, Massachusetts
- 1986                      "Pediatric Pain Management," Physical Therapy Grand Rounds, Children's Hospital, Boston, Massachusetts

- 1986 "Neural Blockade and Pain Management," Physical Therapy Grand Rounds, Children's Hospital, Boston, Massachusetts
- 1986 "A Practical Approach to Pain Treatment in Childhood," Pediatric Postgraduate Seminar, Children's Hospital, Boston, Massachusetts
- 1987 "Reflex Sympathetic Dystrophy in Children," Rheumatology Grand Rounds, Brigham and Women's Hospital, Boston, Massachusetts
- 1987 "Postoperative Analgesia in Children," Anesthesia Grand Rounds, Minneapolis Children's Hospital, Minneapolis, Minnesota
- 1987 "Experience with a Pediatric Pain Service," Pediatric Grand Rounds, Minneapolis Children's Hospital, Minneapolis, Minnesota
- 1987 "Experience with a Pediatric Pain Treatment Service," Combined Pediatric Surgery-Pediatric Anesthesia Grand Rounds, Massachusetts General Hospital, Boston, Massachusetts
- 1987 "Analgesia and Sedation in the Pediatric Intensive Care Unit," Postgraduate Course on Pediatric Intensive Care, Department of Continuing Education, Harvard Medical School, Boston, Massachusetts
- 1987 "Pediatric Recovery Room Care," Postgraduate Course on Practical Aspects of Pediatric Anesthesia, Department of Continuing Education, Harvard Medical School, Boston, Massachusetts
- 1987 "Recent Advances in the Neurophysiology and Neurochemistry of Pain", General Surgery Grand Rounds, Children's Hospital, Boston, Massachusetts
- 1987 "Postoperative Narcotic Regimens in Children"; "Regional Analgesia in Children", European Society for Pediatric, Surgical, and Neonatal Intensive Care, Paris, France
- 1988 "Pediatric Regional Anesthesia", Anesthesia Review and Update, Postgraduate Course, Department of Continuing Education, Harvard Medical School, Boston, Massachusetts

- 1988 "Multidisciplinary Programs for Pediatric Pain Management", First International Symposium on Pediatric Pain, Seattle, Washington
- 1988 "Pediatric Pain Management", Grand Rounds, Spaulding Rehabilitation Hospital, Boston, Massachusetts
- 1988 "Reflex Sympathetic Dystrophy in Children", Symposium on RSD and Thermography, Reflex Sympathetic Dystrophy Syndrome Association, Chicago, Illinois
- 1988 "Pediatric Pain Management", Grand Rounds, Department of Pediatrics, Montreal Children's Hospital.
- 1988 "Management of Pain in the Preverbal Child", Symposium on Pain in the Preverbal Child, American Society of Anesthesiologists, San Francisco, California
- 1988 "Management of Postoperative Pain", Society for Pediatric Anesthesia Annual Meeting, San Francisco, California
- 1989 "Clinical Management of Pain", Harvard Medical School Office of Continuing Education, Boston, Massachusetts
- 1989 "Current Concepts of Pain Management", Harvard Medical School Office of Continuing Education, Boston, Massachusetts
- 1989 "Pain Research in Children", Department of Anesthesia, Beth Israel Hospital, Boston, Massachusetts
- 1989 "Management of Pain in Pediatric Patients", University of Virginia Health Sciences Center, Charlottesville, Virginia
- 1989 "Postoperative Pediatric Pain Management" and "Optimal Preoperative Preparation"; "Pediatric Cancer Pain Management", Midwest Pain Society Thirteenth Scientific Meeting, Indianapolis, Indiana
- 1989 "Pain Management in the Adolescent", Postgraduate Course, Department of Continuing Education, Harvard Medical School, Boston, Massachusetts
- 1989 "Pediatric Pain Management", Grand Rounds, Hospital for Sick Children, Toronto, Ontario, Canada
- 1989 "Peridural Narcotics", Postgraduate Course, Anesthesia Review and Update, Department of Continuing Education, Harvard Medical School, Boston, Massachusetts



- 1989 "Pediatric Pain Management", Pediatric Grand Rounds, Boston City Hospital, Boston, Massachusetts
- 1989 "Regional Anesthesia in Pediatrics", Anesthesia Grand Rounds, Brigham and Women's Hospital, Boston, Massachusetts
- 1989 "Pediatric Postoperative Analgesia: Regional and Systemic"; "Pediatric Chronic Pain Problems", University of Massachusetts Medical Center Pain Control Center, New Seabury, Massachusetts
- 1989 "The Future of the Acute Pain Service: Children", Fall Symposium, Massachusetts Anesthesia Council on Education, Newton, Massachusetts
- 1989 "New Horizons in Postoperative Pain Management", General Surgery Grand Rounds, Children's Hospital, Boston, Massachusetts
- 1989 "A Pediatric Pain Service", Refresher Course, American Society of Anesthesiologists, New Orleans, Louisiana
- 1989 "Pediatric Postoperative and Chronic Pain Management", Postgraduate Assembly, N. Y. Society of Anesthesiologists
- 1990 "The Treatment of Pain in Children", Plenary Lecture, Vith World Congress on Pain, International Association for the Study of Pain, Adelaide, Australia
- 1990 "Pediatric Pain Services", Annual Meeting, American Society for Clinical Pharmacology, San Francisco, CA
- 1990 "Systemic Opioid Analgesia in Pediatrics"; "Pediatric Pain Clinics", Harvard Pediatric Anesthesia Review Course
- 1990 "Pediatric Pain Management", Pain Service Grand Rounds, Massachusetts General Hospital, Boston, Massachusetts
- 1990 "Patient-Controlled Analgesia", Oncology Grand Rounds, Children's Hospital, Boston
- 1990 "Pain in Children", "Pain in Newborns", and "Organization of Cancer Pain Services", American Pain Society, St. Louis
- 1991 "Systemic Opioid Analgesia in Pediatrics"; Harvard Anesthesia Review Course, Boston, Massachusetts
- 1991 "Pediatric Pain Management" American Academy of Neurology Annual Meeting, Boston, Massachusetts

- 1991 “Pediatric Cancer Pain Management” Memorial Sloan-Kettering Cancer Center Symposium on Cancer Pain and Acute Pain Management, New York, N.Y.
- 1991 “Safety and Outcome in Pediatric Regional Anesthesia” Society for Pediatric Anesthesia Annual Meeting, San Francisco
- 1991 “Advances in Pain Management” General Surgery Grand Rounds, Children’s Hospital, Boston
- 1992 “Patient-Controlled Analgesia in Pediatric Oncology” Pediatric Oncology Grand Rounds, Children’s Hospital, Boston
- 1992 “Conscious Sedation in Pediatric Oncology”, Pediatric Oncology Grand Rounds, Children’s Hospital, Boston
- 1992 “Reflex Sympathetic Dystrophy in Children” Pediatric Neurology Review Course, Children’s Hospital, Boston
- 1992 “Pediatric Cancer Pain Management” Memorial-Sloan Kettering Cancer Institute, New York
- 1992 “Pediatric Postoperative Pain Management” ASA Refresher Course Lecture
- 1993 “Neuropathic Pain in Oncology” Oncology Grand Rounds, Children’s Hospital, Boston, MA
- 1993 “Pediatric Pain Management” Salem Hospital, Grand Rounds, Salem, MA
- 1993 “Pediatric Pain Management” Emerson Hospital, Grand Rounds, Boston, MA
- 1993 “Pediatric Pain Management” Queen Elizabeth II Lecture, Canadian Pediatric Society, Vancouver, B.C.
- 1993 “Pain Pathophysiology and Control in Severely Burned Children” 3rd International Meeting on Pediatric Intensive Care, Padova, Italy
- 1993 “Local Anesthetics, Present and Future” Children’s Hospital, Surgical Grand Rounds, Boston, MA
- 1993 “Pediatric Pain Management” Maine Medical Center, Grand Rounds, Portland, ME
- 1993 “Pediatric Cancer Pain Management” Eastern Maine Medical Center, Bangor, ME

- 1993 “EMLA-Pediatric Pain Management” Dana-Farber Cancer Institute, Boston, MA
- 1993 “Nuts and Bolts of a Pediatric Pain Service” 8th Annual Society of Pediatric Anesthesia (SPA) Meeting
- 1993 “Current Management of Pediatric Pain” Memorial Sloan Kettering Cancer Center, New York, NY
- 1994 “Pediatric Pain Management” Cooper Hospital, Camden, NJ
- 1994 “Pediatric Pain Management” Saints Memorial Medical Center, Lowell, MA
- 1994 “Respiratory Failure Station”, PALS Course, Children’s Hospital, Boston, MA
- 1994 “Regional Anesthesia in Children” Harvard Medical School, Post-Graduate Review Course, Boston, MA
- 1994 “Practical Aspects of Pediatric Anesthesia” Harvard Medical School Postgraduate Review Course, Course Co-Director, Boston, MA
- 1994 “Comprehensive Review in Pain Management” Harvard Medical School Pain Review Course, Course Co-Director, Boston, MA
- 1994 “Pain” Mahoney Neuroscience Lectures, Department of Neurobiology, Harvard Medical School, Boston, MA
- 1994 “Local Anesthetics, Present and Future”, Anesthesia Grand Rounds, Massachusetts General Hospital, Boston, MA
- 1995 “Airway Management”, PALS Course, Children’s Hospital, Boston, MA
- 1995 “Neuropathic Pain” Harvard Medical School, Post-Graduate Review Course, Boston, MA
- 1995 "Anesthesia and Pain Management in Infants" New York Perinatal Society
- 1995 “ Pain in Childhood Cancer” Oncology Grand Rounds, Children’s Hospital, Boston, MA
- 1995 "Regional Anesthesia in Children" Surgical Grand Rounds Children’s Hospital, Boston, MA
- 1995 "Pediatric Pain Management" Pediatric Grand Rounds Children’s Hospital, Boston, MA

- 1996 "Pain - from Neurobiology to Clinical Management"  
Neurosurgery Grand Rounds, Children's Hospital and  
Brigham and Women's Hospital, Boston, MA
- 1996 "Pain in Childhood Cancer" Oncology Grand Rounds,  
Children's Hospital, Boston, MA
- 1996 "Chronic Pain in Children" Physical Therapy Grand  
Rounds, Children's Hospital, Boston, MA
- 1996 "Design of Clinical Trials" Neurosurgery Grand Rounds,  
Children's Hospital and Brigham and Women's Hospital,  
Boston, MA
- 1997 "Future Directions in Pain Management and Research"  
Surgical Grand Rounds  
Children's Hospital, Boston, MA
- 1999 "Effects of Analgesia on Postoperative Outcome"  
Surgical Grand Rounds  
Children's Hospital, Boston, MA
- 1999 "Local Anesthesia: Mechanisms and New Drug  
Development" Anesthesia Grand Rounds, Massachusetts  
General Hospital
- 1999 "Pediatric Pain Management" Grand Rounds, Spaulding  
Rehabilitation Hospital
- 2002-2003 "Mechanisms of Local Anesthetics" ASA Refresher  
Course Lectures
- 2004 "Advancing the Decade of Pain Management" Pain  
Council, San Diego, CA
- 2004 "Practical Aspects of Pediatric Anesthesia" Harvard  
Medical School Continuing Education Course, Boston, MA
- 2004 "Critical Care Medicine" ASA Refresher Course
- 2004 "Local Anesthetics: An Update" Pediatric Satellite  
Meeting, World Congress of Anesthesiologists, Bordeaux,  
France
- 2005 "Effects of bupivacaine and tetrotoxin on carrageenan-  
induced hind paw inflammation in rats (Part 1):  
hyperalgesia, edema, and systemic cytokines" Society of  
Pediatric Anesthesia Miami, Florida
- 2005 "Pediatric Pain Management" University of Wisconsin  
Medical School, Madison, WI

- 2005 “Pediatric Palliative Care” Pain and Palliative Care Grand Rounds, Beth Israel Hospital New York, NY
- 2005 “Local Anesthetics-Mechanisms and Clinical Implications” American Society of Anesthesiologists Annual Meeting, Atlanta, GA
- 2006 “Intentional Lumbar Puncture via Caudal and Trans-Sacral Approaches” ASRA Annual Meeting, Chicago, IL
- 2006 “Clinical Pharmacology of Local Anesthetics” and “The Role of Placebo Response in Drug Therapy” Principles and Practice of Pain Medicine course Harvard Medical School, Boston, MA
- 2008 “Pediatric Pain Management” Physical Medicine and Rehabilitation Core Lectures Spaulding Rehabilitation Hospital, Boston, MA
- 2009 “Regional Anesthesia in the Emergency Dept.” American College of Emergency Physicians, Annual Meeting, Boston, MA
- 2009 “Pediatric Pain Management” Physical Medicine and Rehabilitation Core Lectures Spaulding Rehabilitation Hospital, Boston, MA
- 2010 “Palliative Sedation” Harvard CME Course Principles and Practice of Palliative Care
- 2011 “Pediatric Pain Management: Update” Society for Pediatric Anesthesia, Spring Meeting
- 2011 “Neuropathic Pain in Children” Neurology/Pain Research Group Grand Rounds, UCSF
- 2011 “Sodium Channel Subtypes and Local Anesthesia” Anesthesia Grand Rounds, Stanford University
- 2011 “Sodium Channels and Local Anesthetics” Harvard CME Course Principles and Practice of Pain Medicine
- 2011 “Site 1 Sodium Channel Blockers as Local Anesthetics: From Concept to Bench to IND” Translational Research Program, Children's Hospital Boston, FDA symposium
- 2013 “Regional Anesthesia in Pediatric Chronic Pain and Palliative Care” American Society of Regional Anesthesia

b. Professional Leadership Roles Related to Teaching:

- |              |   |
|--------------|---|
| 1992-present | Served on a committee for the American Board of Anesthesiology to write an exam for certification of special competency in pain management          |
| 1992-1995    | Served on panels for the Agency for Health Care Policy to establish practice guidelines for acute pain management and cancer pain management        |
| 1993-present | Served on a task force to develop a monograph and teaching program for cancer pain management and palliative care for the World Health Organization |

## BIBLIOGRAPHY

### Original Reports:

1. **Berde CB.** Nonmonotonic transients and some mathematical models of circadian rhythms. *J Theor Biol* 1976;56:435-41.
2. **Berde CB, Heller RA, Simoni RD.** Activation of purified 3-hydroxy-3-methylglutaryl CoA reductase by phospholipids. *Biochim Biophys Acta* 1977;488:112-20.
3. Daan S, **Berde CB.** Two coupled oscillators: simulations of the circadian pacemaker in mammalian activity rhythms. *J Theor Biol* 1978;70:297-313.
4. **Berde CB.** Physical studies of lipid-protein interactions and phospholipid bilayer phase equilibria. Ph.D. thesis in biophysics, Stanford University, 1978.
5. **Berde CB, Hudson BS, Simoni RD, Sklar LA.** Human serum albumin: spectroscopic studies of binding and proximity relationships for fatty acids and bilirubin. *J Biol Chem* 1979;254:391-400.
6. **Berde CB, Nagai M, Deutsch HF.** Human alpha-fetoprotein: fluorescence studies on binding and proximity relationships for fatty acids and bilirubin. *J Biol Chem* 1980;254:12609-14.
7. **Berde CB, Kerner JA, Johnson JD.** Use of the conjugated polyene fatty acid, parinaric acid, in assaying fatty acids in serum or plasma. *Clin Chem* 1980;26:1173-7.
8. **Berde CB, Anderson HC, Hudson BS.** A theory of the effects of head-group structure and chain unsaturation on the chain-melting transition of phospholipid dispersions. *Biochemistry* 1980;19:4279-93.
9. Kerner JA, Cassani C, Hurwitz R, **Berde CB.** Monitoring intravenous fat emulsions in neonates with the fatty acid/serum albumin molar ratio. *J Parenter Enter Nutr* 1981;5:517-8.

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