

CURRICULUM VITAE

Raeford E. Brown, Jr., M.D., FAAP, FASA
Professor of Anesthesiology and Pediatrics
The University of Kentucky
Pediatric Anesthesiologist – The Kentucky Children's Hospital

PERSONAL INFORMATION

Permanent Address: 3649 Barrow Wood Lane
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800 Rose Street
Lexington, Kentucky 40536

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E-Mail: rbrow1@email.uky.edu

Birth Date: February 18, 1954

Birthplace: Burgaw, North Carolina

Marital Status: Married

Spouse's Name: Cathy W. Brown, M.D.

Children: David Ingram Brown, PhD (08/05/84)
Michael Carlton Brown, J.D (05/16/87)
Olivia Catherine Brown, RN, BSN (05/24/93)

Certifications:

Electron Microscopy
American Society of Clinical
Pathologists (1975-Present)- Permanent Certificate

Advanced Cardiac Life Support
American Heart Association (1984, 1990- 2018)

Basic Life Support
American Heart Association (1985, 1990,
1995-2010)

Pediatric Advanced Life Support (1990 - 2018)

Fellow
American Academy of Pediatrics
(1985-Present)

Fellow
American Society of Anesthesiology
(2018-)

Advanced Trauma Life Support
American College of Surgeons
(1985, 1990)

Diplomate
American Board of Pediatrics – General Pediatrics
1985 (Non-time limited certification)

Diplomate
American Board of Anesthesiology
1986 (Non-time limited certification)

National Instructor
Pediatric Advanced Life Support
1987 to the present - Permanent certificate

(Original group of clinicians and educators appointed by the American Heart Association to design and implement Pediatric Advanced Life Support)

Recertification by the American Board of Anesthesiology (2002, 2013)

Maintenance of Certification Program of the American Board of Anesthesiology – Continuous involvement from 1995 to the present

Certification in Advanced Pediatric Anesthesiology by the American Board of Anesthesiology (2013) - Certificate 13200 ABA

PROFESSIONAL LICENSURE:

District of Columbia #13300 (1982)

North Carolina #29883 (1986)

Arkansas #R4150 (1990)

Kentucky #34627 (1998 – Present)

EDUCATION

1976 University of North Carolina
Chapel Hill, North Carolina
BA (Psychology/Zoology)

1980 University of North Carolina
School of Medicine

Chapel Hill, North Carolina
M.D.

POSTDOCTORAL TRAINING

1980-1981	Internship - Pediatrics Department of Pediatric Medicine Children's Hospital National Medical Center George Washington University School of Medicine Washington, DC.
1981-1983 1981-1984	Residency - Pediatrics Department of Pediatric Medicine Children's Hospital National Medical Center George Washington University School of Medicine Washington, DC.
1983-1985	Residency – Anesthesiology Department of Anesthesiology University of Virginia School of Medicine University of Virginia Medical Center Charlottesville, VA
1985-1986	Fellowships – Pediatric Anesthesia, Pediatric Pain Medicine and Pediatric Critical Care Medicine Department of Pediatric Anesthesiology, Pain Medicine and Pediatric Critical Care Children's Hospital National Medical Center George Washington University School of medicine Washington, DC.

Management Training as Chief Operating Officer Medical College Physicians Group, Chief, Department of Anesthesiology, The Arkansas Children's Hospital, Medical Director of Perioperative Services, University of Kentucky Medical Center

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|------|---|
| 1993 | Management Development for Chiefs of Service
And Department Chairs
American College of Physician Executives |
| 1994 | Managing the Impaired Physician
American College of Physician Executives |
| 1995 | Medical Informatics
American College of Physician Executives |
| 1996 | Management Development for Physician Executives

The Wharton School
University of Pennsylvania
Philadelphia, Pennsylvania |
| 1995 | Accounting for Executives

The Wharton School
University of Pennsylvania
Philadelphia, Pennsylvania |
| 1996 | Program for Chiefs of Clinical Services
Harvard School of Public Health
Boston, Massachusetts |
| 2001 | Anesthesiology Billing and Compliance
University of Chicago
Chicago, Ill |
| 2004 | The Program on Negotiation

Harvard University School of Law
Boston, Massachusetts |

- 2004 Program on Negotiation for Senior Executives

The Program on Negotiation
Harvard University School of Law
Boston, Massachusetts
- 2005 Executive Management Program for Academic
Surgery Leaders

Leonard Davis Institute of Health Economics
The Wharton School
University of Pennsylvania
Philadelphia, Pennsylvania

Representing the American Society of Anesthesiologists and the American College of Surgeons

EMPLOYMENT

- 2015 - FDA Special Government Employee
Division of Analgesic and Anesthetic Drug Products
Center for Drug Evaluation and Research
Food and Drug Administration
Department of Health and Human Services
- 2010 - 2012 Medical Director – Rapid Response Team
University of Kentucky/Chandler Medical Center
- 2010 Instructor, Rapid Response Team
UK Healthcare
University of Kentucky/ Chandler Medical Center
- 2009 - 2012 Director, Pain Management Program
The Kentucky Children's Hospital
- 2000 - 2012 Chief of Anesthesiology

- The Kentucky Children's Hospital
Lexington, Kentucky
- 2009- Heinrich Werner Division of Critical Care
The Kentucky Children's Hospital
Department of Pediatrics
School of Medicine
University of Kentucky
- 2002 -2014 Executive Vice-Chairman
Department of Anesthesiology
University of Kentucky Medical Center
- 2004 - 2007 Medical Director Perioperative Services
University of Kentucky Medical Center
- 2002 - 2003 Associate Chief of Staff
University of Kentucky Medical Center
Byron Young M.D. Chief of Staff
- 2000 - Professor of Anesthesiology and Pediatrics
Special Title Series with Tenure
Vice Chairman, Department of Anesthesiology
- 1999 - 2000 Private Practice
Anesthesia Associates
Lexington, Kentucky
- 1998 Chief of Pediatric Anesthesiology
University of Kentucky/A. B. Chandler Medical
Center
The Kentucky Children's hospital
University of Kentucky
Lexington, Kentucky
- 1998 - Staff Anesthesiologist
Shriner's Hospital
Lexington, Kentucky
- 1998 Professor of Anesthesiology and Pediatrics
University of Kentucky School of Medicine

- 1997 - 1998 Chief Operating Officer
Medical College Physicians Group
Faculty Group Practice
College of Medicine
University of Arkansas for Medical Sciences
Little Rock, Arkansas
- 1997-98 Acting Chairman, Department of Anesthesiology
University of Arkansas for Medical Sciences
- 1997-98 Anesthesiologist-in-Charge
University of Arkansas Medical Center
Perioperative Services
- 1997-98 Staff Anesthesiologist
McClellan Veterans Administration Medical Center
Little Rock, Arkansas
- 1996-98 Attending Physician
Acute and Chronic Pain Service
Department of Anesthesiology
College of Medicine
University of Arkansas for Medical Sciences Medi-
cal Center
- 1996-98 Executive Vice-Chairman
Department of Anesthesiology
College of Medicine
University of Arkansas for Medical Sciences
- 1996-98 Professor of Anesthesiology and Pediatrics
College of Medicine
University of Arkansas for Medical Sciences
- 1995-98 Staff Anesthesiologist
University of Arkansas for Medical Sciences Medi-
cal Center
Little Rock, Arkansas

- 1995-96 Vice Chairman for Finance and Administration
Department of Anesthesiology
College of Medicine
University of Arkansas for Medical Sciences
- 1994-96 Director, Pain Fellowship Program
Department of Anesthesiology
College of Medicine
University of Arkansas for Medical Sciences
- 1992-1995 Director, Multidisciplinary Pediatric Pain Management Program
Division of Pediatric Anesthesiology and Pain Management
Arkansas Children's Hospital
Department of Anesthesiology
College of Medicine
University of Arkansas for Medical Sciences
- 1992-93 Fellowship Director in Pediatric Anesthesiology and Pain Medicine
Division of Pediatric Anesthesiology and Pain Medicine
Arkansas Children's Hospital
Department of Anesthesiology
University of Arkansas for Medical Sciences
- 1992-93 Vice Chairman, Department of Anesthesiology
College of Medicine
University of Arkansas for Medical Sciences
- 1991-93 Director, Acute Pain Management Service
Arkansas Children's Hospital
- 1991-93 Medical Director, Ambulatory Surgery Center
Arkansas Children's Hospital
- 1991-92 Medical Director, Post Anesthesia Care Unit
Arkansas Children's Hospital

- 1991-96 Chief of Pediatric Anesthesiology, Pain Management, and Hospital Sedation
Arkansas Children's Hospital
- 1991-96 Chief of the Division of Pediatric Anesthesiology and Pain Management
Department of Anesthesiology
University of Arkansas for Medical Sciences
- 1995 – 1998 Professor of Anesthesiology and Pediatrics with Tenure
Departments of Anesthesiology and Pediatrics
College of Medicine
University of Arkansas for Medical Sciences
- 1991-95 Associate Professor of Anesthesiology and Pediatrics with Tenure
Departments of Anesthesiology and Pediatrics
College of Medicine
University of Arkansas for Medical Sciences
- 1990 Assistant Medical Director
Outpatient Surgery Center
North Carolina Baptist Hospital
Winston-Salem, North Carolina
- 1990-91 Head, Section on Pediatric Anesthesia and Critical Care
The North Carolina Baptist Hospital
Bowman Gray School of Medicine
of Wake Forest University
Winston-Salem, North Carolina
- 1986-90 Attending Physician
Pediatric Intensive Care Unit
North Carolina Baptist Hospital
Departments of Anesthesiology and Pediatrics
The Bowman Gray School of Medicine
Winston-Salem, North Carolina
- 1988-90 Adjunct Assistant Professor

	University of North Carolina at Greensboro School of Nursing Greensboro, North Carolina
1986-90	Assistant Professor Departments of Anesthesiology and Pediatrics Bowman Gray School of Medicine of Wake Forest University The North Carolina Baptist Hospital Winston-Salem, North Carolina
1986-90	Staff Anesthesiologist North Carolina Baptist Hospital The Bowman Gray School of Medicine Winston-Salem, North Carolina
1977	Instructor in Microanatomy, Histology and Subcel- lular Microstructure Department of Anatomy School of Medicine University of North Carolina Chapel Hill, North Carolina
1974-1976	Research Assistant Electron Microscopy Laboratory Department of Pathology School of Medicine University of North Carolina Chapel Hill, North Carolina

Professional Memberships

American Academy of Pediatrics	1980 - Present
American Society of Anesthesiologists	1983 – Present
Society for Regional Anesthesia	1984 – 1988
Society for Pediatric Anesthesia	1986 - present

Pediatric Pain Management Special Interest Group	2003-2010
Forsyth County Medical Society	1986 – 1989
American Academy of Pediatrics Section on Anesthesiology and Pain Management	1986 – Present
North Carolina Society of Anesthesiologists	1987 – 90
North Carolina Medical Society	1987 – 90
North Carolina Pediatric Society	1988 – 90
Arkansas Medical Society	1991 – 1998
Arkansas Society of Anesthesiologists	1991 – 1998
Arkansas Society of Anesthesiologists – President	1995
American College of Physician Executives	1990
Pulaski County Medical Society	1990 - 1998
American Pain Society	1993 –
International Association for the Study of Pain	1993 –
Arkansas Health Care Access Foundation, Inc.	1993 – 1998
American Academy of Pain Medicine	1993 – 1998
Arkansas Chapter—Society of Neuroscience	1994
Arkansas State Cancer Pain Initiative – Chair	1994
Kentucky Society of Anesthesiologists	1998 – Present
Lexington Medical Society	1999
Association of Anesthesiology Clinical Directors	2004

Society for Pediatric Sedation	2008
Society for Education in Anesthesiology	2009
Society for Critical Care Medicine	2010
Society for Pediatric Pain Medicine	2010

Professional Honors and Awards

National Honor Society	1970
Phi Beta Kappa	1975
Psi Chi – National Psychology Honor Society	1975
AOA University of North Carolina School of Medicine	1979
Lange Award for Academic Excellence University of North Carolina School Of Medicine	1980
Golden Stool/Best Intern Award	
Department of Pediatrics Children's Hospital National Medical Center George Washington University School of Medicine	1981
Cohen Award for Clinical Excellence	
Department of Pediatrics George Washington University School of Medicine Children's Hospital National Medical Center	1983

Awarded to the most outstanding pediatric
resident physician

Burton Epstein Award for Clinical Excellence 1986

Awarded to most outstanding
Pediatric Anesthesia/Critical Care Fellow -
Department of Anesthesia and Critical Care Medicine
Children's Hospital National Medical Center
The George Washington University School of Medicine

Consultant Recognition Award 1993
Malignant Hyperthermia Association of the United States

Association of University Anesthesiologists 2000
Honor Society of Academic Anesthesiologists

Best Doctors in America 1996 - 2018

Who's Who in American Medical Education 2004

Columbia Who's Who of Healthcare Professionals 2009

Abraham Flexner Master Educator Award 2009

Awarded for Innovation in Medical Education
by the Dean of the College of Medicine
Center for Excellence in Medical Education
University of Kentucky College of Medicine

Presidential Who's Who of Healthcare Professionals 2010

Who's Who Among Executives 2010
And Professionals

Leading Physicians of the World 2011-2012
International Association of Anesthesiologists

Patient's Choice Award	2008 - 2015
Top Doctors in the World The Leading Physicians in the World	2014
Health Grades Honor Roll Physician	2014 - 2018
Vitals Five Star Physician	2014 - 2018
Designated a Pioneer of Pediatric Anesthesia by the Society for Pediatric Anesthesiology Spring Meeting SPA-AAP	2011
One of twenty-five anesthesiologists that were important in the development of the field of Pediatric Anesthesiology and Pain Medicine	
Top Doctors Castle Connolly	2016
American Academy of Pediatrics Outstanding Service in Educational Excellence 2018 Annual Leadership Forum	2018

ADMINISTRATIVE ACTIVITIES & UNIVERSITY SERVICE

University Committees

**University of Arkansas for Medical Sciences
Professor of Anesthesiology and Pediatrics**

1992	Medical School Admissions-Interviewer
1994 - 1998	Curriculum Committee --Palliative Care
1997	LCME Committee on the Basic Sciences
	Charged by the Dean of the College of Medicine with the assessment of the basic sciences departments including teaching and research.

This analysis occurred prior to the LCME site visit in the fall of 1998.

1997-98 Physician's Health Committee

Departmental Committees

Bowman Gray School of Medicine **The North Carolina Baptist Hospital**

1987-91 Capital Equipment Committee

1987-91 Goals and Strategies Committee

1987-91 Resident Education Committee

1990-91 Chairman's Advisory Group

University of Arkansas for Medical Sciences **Executive Vice Chairman and Interim Chair**

1991-94 Resident Education Committee

1992-94 Resident Selection Committee

1992 - 98 Resident Evaluation Committee

1992 - 98 Research Committee

1992 - 98 Faculty Promotions and Tenure Committee

Chairman, 1993, 1994, 1995, and 1996

1993 - 1998 Executive Committee of the Department of Anesthesiology

1994 - 1998 Faculty Development Liaison – Department of Anesthesiology

- 1995 - 1998 Library Committee-Chairman
- 1995 - 1998 Chairman's Advisory Group
Department of Pediatrics
University of Arkansas for Medical Sciences and
Arkansas Children's Hospital

**University of Kentucky – Vice Chair – Department
of Anesthesiology**

- 1999 - 2000 Chair-Clinical Competence Committee
- 2009- 2011 Clinical Competence Committee
- 2008 -2014 Education Committee
- 2013-2014 Department Finance Committee
- 2014 - 2016 Journal Club Coordinator
- 2014 Residency Program Interviewer

Hospital Committees

**North Carolina Baptist Hospital
Chief of the Division of Pediatric Anesthesiology
and Pain Medicine**

- 1987-91 Pediatric Surgical Advisory Group
- 1990 - 91 Clinical Faculty Advisory Council
Advisory to the Chief Medical Officer

**Arkansas Children's Hospital – Director of The De-
partment of Anesthesiology and Pain Medicine**

1991- 95	Medical Staff Executive Committee
1991 - 95	Pediatric Intensive Care Committee
1991 - 95	Surgical Affairs Committee
	Operating Room Utilization and Scheduling Sub- committee-1994
	Operating Room Space Subcommittee- Chairman-1994
1991-93	Hospital Information Systems Task Force
1991-92	Medical Records Committee
1991-95	Hospital Morbidity & Mortality Conference-Co- Chairperson
1991-92	Quality Assurance Committee
1991-93	ACH Product Evaluation Committee
1991-92	Dean's Coordinating Committee
1992	Intravenous Therapy Team - Medical Director
1992	Medical Staff Nominating Committee
1992-95	Patient Care Committee
1992	Pediatric Chairman's Advisory Group
1992	Sedation Task Force-Chairman
1992-95	Trauma Steering Committee
1993-94	Ad Hoc Committee on Library Planning
1993-94	Ambulatory Surgery QI Task Force

1993-95	Capital Equipment Committee
1993	Clinical Research Advisory Committee, Department of Pediatrics
1993	Dean's Ad Hoc Planning Committee
1993-98	Dean's Committee – Arkansas Children's Hospital
1993-98	Inpatient Advisory Committee
1995-98	Labor Committee
1995-98	Medical Staff Nominating Committee
1995-98	ACH Physician's Health Committee
1995 -96	Board of Trustees – Arkansas Children's Hospital

**University of Arkansas Hospital – Executive Vice
Chair and Interim Chair Department
of Anesthesiology**

1994	Surgical Services Board
	Chairman Information Gathering Subcommittee of the Joint Committee on Surgical Affairs
1996-98	University Hospital Pain Management Quality Improvement Project
1997-98	Level One Trauma Service Working Group
1996 - 98	UAMS Health Care System Enterprise Board
1996-98	UAMS Health Care System Enterprise Board

Finance Committee - Chair

**University of Kentucky Hospital – Executive Vice
Chair Department of Anesthesiology**

2001	Operating Room Management Team
2002	Chair, Orthopedic Surgery Process Improvement Team
2003	Quality Integration Council
2003	Physician Bed Coordinator
2003	Vision Group – Advisory to the President of the University of Kentucky – Lee Todd, PhD.
	Implementation Task Force for Perioperative Re-organization
2003	Multidisciplinary Trauma Quality Assurance Committee
2009	Ad Hoc Committee on Patient Deterioration and Rapid Response
2009	Enterprise Sedation Committee
2009	Ad Hoc Committee on the Development of Sedation Privileges and Training – Produced Enterprise wide sedation guidelines including privileges and training modules
2009 - 2010	Ad Hoc Committee on Enterprise Night Coverage – produced training manual for hospital night coverage
2010	Enterprise Mortality Review Committee
2010	Enterprise Mortality Review Committee- Chair

- 2010 Pavilion A Phase 1B Planning for Surgical Services
- 2010 Ad Hoc Committee on the Development of Hybrid Operating Rooms in Pavilion A
- 2010 Enterprise Resuscitation Committee
- 2010 Kentucky Children's Hospital Mortality Review Committee
- 2010 Resuscitation Executive Planning Group
- 2010 UHC Top Performers – Mortality Group Team Leader

Kentucky Children's Hospital

Chief, Division of Pediatric Anesthesiology And Pain Medicine

- 2008 Pediatric Trauma Quality Assurance Committee
- 2009 Kentucky Children's Hospital Quality and Safety Committee
- 2009 Co – Chair Pediatric Sedation Taskforce
- 2009 Children's Services Management Committee
- 2009 Chair, Pain Task Force for the Kentucky Children's Hospital

Perioperative Services Sub Committees – 2003-04:

As the Medical Director of Perioperative Services for Anesthesiology I chaired the majority of these working groups during the enterprise reorganization in 2003 - 2004

2004-	Perioperative Reorganization Subcommittee
2004-	Service Line Organization Plan
2004-	Scheduling Subcommittee
2004-	SDS\Holding Area Task Force
2004-	Preoperative Clinic Task Force-Chair
2004-	Anesthesiology Subcommittee
2004-05	Perioperative Facilities Planning Committee
2004-	Block Schedule Task Force
2004-	Scheduling Process Task Force
2004-	Control Desk Task Force
2004-	Perioperative Information System Task Force
2004-	Pre and Post-Operative Patient Flow Subcommittee-Chair
2004-	Post Anesthesia Care Unit Task Force
2004-	Center for Advanced Surgery Subcommittee
2004-	Operating Room Committee
2004-	Operating Room Business Unit/Executive Committee
2004	Accountability Task Force
2004	Customer Service Task Force

- 2009 Kentucky Children's Hospital Sedation Taskforce
- 2009 Pediatric Palliative Care Service Development Group

Local Committees

Medical College Physicians Group

- 1993-94 Managed Care Committee
- 1993 Deferred Compensation Task Force
- 1997- Risk Management Committee
- Responsible for analysis and disposition of cases from the medical system that had been judged to represent an increase in risk.
- 1997-98 Information Systems Implementation Working Group – Chair
- Responsible for the evaluation of state of the art technology for billing and collections for the Medical College Physician's Group. Subsequently charged with the implementation of the new system without a reduction in cash flow. This was successfully accomplished
- 1997-98 Point-Of-Service Task Force
- 1997-98 Resource Scheduling Task Force

Legislature of the State of Arkansas

- 1994- Chairman, Pain Study Commission of the Joint Interim Committee on Public Health, Welfare, and Labor
- Developed recommendations for resource implementation strategies for the Arkansas Department of Health and Medicaid; this included the training of medical students, CME for licensed physicians, and training for nurses.

University of Arkansas for Medical Sciences

- 1996-98 Faculty Group Practice Executive Committee
- Ten senior members of the faculty that were chosen by the Dean to administrate the Group Practice.
- 1996-98 Finance and Operations Committee
- 1996-98 Finance and Operations Committee of the Faculty Group Practice-Chair
- This included day-to-day management of the Medical College Physician's Group and its 300 employees. This group was the billing and collections arm of the Group Practice with revenue of more than 100 million dollars.
- 1995-98 Medicare Documentation Compliance Subcommittee
- 1996-98 Medicare Documentation Compliance Subcommittee-Co-Chair

Kentucky Medical Services Foundation

2001- 2002 Committee on Denials and Billing
2009-2010 Executive Compliance Committee

University of Kentucky
Executive Vice Chairman
Department of Anesthesiology

2003 - 2004 Search Committee for the Executive Vice President for Health Affairs

 Appointed by Lee Todd, President of the University of Kentucky

2003 - 2008 Area Committee for Health Affairs

 Appointed by Lee Todd, President of the University of Kentucky

2003 Medical Student Candidate Interviewer

2004 - Enterprise Finance Committee

2008 -2010 Enterprise Denials Committee

2008 - 2011 College of Medicine Appointments, Promotion and Tenure Committee

2010 Vice Chairman Appointments, Promotion and Tenure Committee

Kentucky Board of Medical Licensure

2017 - Consultant in Pediatric Anesthesiology

National Committees

**American Academy of Pediatrics
Section on Pediatric Anesthesiology
and Pain Medicine**

1992	Membership Committee
1993	Conscious Sedation Committee
1993 - 1998	Executive Committee
1994	Relative Value Unit Work Group-Chairman
1995	Chairman, By-Laws Revision Committee
1995	Delegate to Council on Sections
1995	Member, Guidelines Committee
1996-98	Chair-Elect Section on Pediatric Anesthesiology and Pain Management (Forced to step down because of prolonged illness)
2016 - 2017	Chair-Elect Section on Pediatric Anesthesiology and Pain Management
2016 - 2022	Executive Committee SOA
2016 – 2022	Nominating Committee
2017 – 2019	Chair - Section on Pediatric Anesthesiology and Pain Medicine
2020 – 2022	Past Chair SOA

- 2016 - Liaison - American Academy of Pediatrics Committee on Substance Abuse and Prevention from the Section on Anesthesiology and Pain Medicine
- 2016 - Liaison - American Academy of Pediatrics Committee on Drugs from the FDA Advisory Committee on Analgesics and Anesthetics
- 2017 Member – Surgical Advisory Panel - AAP
- 2017 Liaison - Board of Directors - Society for Pediatric Anesthesia
- 2017 Liaison - Board of Directors - Society for Pediatric Pain Medicine
- 2017 Member - Board of Directors, Pediatric Anesthesiology Leadership Council

American Heart Association

- 1988-91 Pediatric Working Group - Editorial Board for the first Pediatric Advanced Life Support Course (PALS)

American Society of Anesthesiologists

1994-98	Committee on Pediatric Anesthesia
1995-98	Chairman, Committee on Pediatric Anesthesia
1992-94	Arkansas Representative – House of Delegates
1993	RVS Update Survey Committee
1992-94	Southern Caucus of Delegates
1995-	Committee on Economics
	Liaison from the Committee on Pediatric Anesthesiology
1997	Relative Value Unit Task Force
2009 - Present	Task Force on Chemical Abuse of the Committee on Occupational Health
2018 – 2020	Committee on Occupational Health Of the American Society of Anesthesiologists

Arkansas Foundation for Medical Care

1991-98	Consultant
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Arkansas Society of Anesthesiologists

1992	Annual Meeting Committee
1992	Legislative/Government Affairs Committee

1993	PRO Review Coordinator
1993	Judiciary Committee
1993	Constitution and Bylaws Committee
1995 - 1997	President

Malignant Hyperthermia Association of the United States

1991-96	National Consultant
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Responsible for consulting with clinicians in North America, South and Central America, and Europe on Index Zero, the emergency MH hotline.

Society for Pediatric Anesthesia

1992	Annual Meeting Committee
1993 - 98	Committee on Governmental Affairs
1993 - 98	Education Committee
1993 - 98	Scientific Affairs Committee
1994 -1999	Board of Directors
1995 - 1999	Chairman, Committee on Communications –
	Developed the first web site for the Society for Pediatric Anesthesia with Randall Flick, M.D.
1995 - 1999	Moderator-Electronic Bulletin Board

- 2017 – 2019 Liaison to the Board of Directors, Chair of the SOA of AAP
- 2018 Anesthesia Specialty Advisory Committee – Advisory to the ACS/NISQUIP
- 2018 – 2019 Advisory Committee on the Implementation of the SPA Strategic Plan – White paper on External Relationships with the SPA

Society for Pediatric Pain Medicine

- 2010 - Special Interest Group of the SPA
- 2012 SPPM
- 2016 Newsletter Contributor
- 2017 - 2019 Liaison to the Board of Directors, Chair of the SOA of the AAP

Pediatric Anesthesia Study Group

- 1993 - 95 Ad Hoc Committee on Accreditation of Pediatric Anesthesia Programs

This group created the plan for the first accredited Pediatric Anesthesia Fellowships. The ACGME, The Society for Pediatric Anesthesia, The American Society of Anesthesiologists, and the American Board of Anesthesiology accepted this plan. Accredited Fellowships for Pediatric Anesthesiologists were created in 1998. Board certification for Pediatric Anesthesiology begins 2013.

Pediatric Pain Medicine Study Group

2017 Ad Hoc Committee on the Accreditation of Pediatric Pain Medicine Programs

Formed to begin the process of developing a Board Certification Process for Pediatricians through the American Board of Pediatrics and the American Society of Anesthesiologists

American Board of Anesthesia

1994- Oral Examination Proctor

1995- Author and Editor of First Examination for Certification of Special Competence in Pain Management. Appointed by the Board of Directors of the ABA.

Chosen by the American Board of Anesthesiology for the small group charged with creating and implementing the exam for the special competence in pain management. First exam given in 1996.

1995- 2007 Junior Associate Oral Board Examiner

1997 Written Board Question Author

2007- 2018 Senior Associate Part Two Examiner

2018 Senior Associate OSCE Examiner

1995 – 2007 Oral Board Question Author

2018 – 2019 Senior Full Examiner

Accreditation Council for Graduate Medical Education

1995-1996 Residency Review Committee for Anesthesiology-
Anesthesiology - Residency Program Reviewer

1995- **Council on Pediatric Anesthesia Fellowship Programs**

Initial management group of the American Board of Anesthesiology formed to manage the creation of fellowships in pediatric anesthesiology.

United States Department of Health and Human Services

Food and Drug Administration

2015

FDA Center for Drug Evaluation and Research
Division of Anesthesia, Analgesia, and Addiction
Drug Products

Anesthesia and Analgesic Drug Products Advisory
Committee

Advisory to the Commissioner of the FDA

2016

Interim Chair, FDA Advisory Committee on
Anesthetic and Analgesic Drug products

2016 – 2019

Chair of the FDA Advisory Committee on Anes-
thetic and Analgesic Drug Products

Centers for Disease Control and Prevention

2018- **National Center for Injury Prevention and Control**
Workgroup on Opioid Prescribing in the United States

EDITORIAL BOARDS

1995- Editor in Chief
Analgesia - A Monograph of the Diagnosis and Treatment of Pain
Sponsored by the Abbott Corporation This was a 300-page review monograph of current knowledge in pain management. Distributed to all members of the American Society of Anesthesiologists

1990-1995 Editorial Board
Literature Scan--Anesthesiology
Earliest critical review journal of basic and clinical anesthesiology
Editor: Robert Stoelting, M.D.

2017 - Editorial Board
The Journal of Opioid Management
Paul Sloan, M.D. Editor - in - chief

2017- Editorial Board
American Journal of Psychiatry and
Neuroscience – Science Publishing Group

2014 - Pediatric Section Editor
Anesthesia and Analgesia (Australia)

INVITED REVIEWER

Journal of Clinical Anesthesia
1992, 1993, 1994, 1995, 1996, 1997

Anesthesiology
1995, 1996, 1997, 1998, 1999

Anesthesia and Analgesia
2013, 2014, 2017, 2018

Pediatric – On – Call
2013

Journal of Opioid Management
2015, 2016, 2017, 2018

Pediatric Anesthesiology
2016, 2017, 2018

2017 Contributing author – “ The Hill”

British Journal of Medicine

2017, 2018

Journal Acta Medica Academica

2018

Community Service

- 1994 Board of Directors
St. James United Methodist Church,
After School Program
 - 1994 Joint Interim Committee on Public Health, Welfare, and Labor of the
Arkansas General Assembly – Testified on Pain Control in Arkansas
 - 1994 Arkansas Cancer Pain Initiative, Charter Member
 - 1995 Chairman, Committee on the Evaluation of Pain Control in Arkansas
- Appointed by the Arkansas General Assembly
 - 1995 Teacher-Early Christian Awareness (2-3 year olds)
St. James United Methodist Church – Lexington Kentucky
 - 2001 Soccer Coach - Lexington Youth Soccer Association
 - 2009 - 2012 Volunteer Medical Associate - Daniel's Care, Hospice of the
Blue Grass
- In this capacity, I acted as a consulting palliative care physician for
children that were being cared for by the Hospice of the Bluegrass
- 2014 - Death Café – First Presbyterian Church Lexington

Seminar open to the community for the purpose of discussing death and all of its aspects -

RESEARCH & INTELLECTUAL CONTRIBUTIONS

GRANT SUPPORT

1985-1986 Abbott Labs - "Patient Controlled Analgesia for Postoperative Pain Control in Adolescents" (\$50,000). Children's Hospital National Medical Center, Washington, DC.

1989-1990 Fenem Corporation - "Clinical Evaluation of a Disposable End Tidal CO₂ detector in Children" (\$1,000), Co-Investigator with Dr. Jeff Kelly. North Carolina Baptist Hospital, Bowman-Gray School of Medicine, Winston Salem, North Carolina.

1992-1993 University Hospital Consortium - "Clinical Evaluation of Sevoflurane" (\$62,500), Co-Investigator with Dr. Michael Schmitz. Arkansas Children's Hospital, Little Rock, Arkansas.

1992-1993 Nellcor Corporation - "Clinical Evaluation of a Disposable Pediatric End Tidal CO₂ Detector" (\$7,500), Co-Investigator with Dr. Jeff Kelly. North Carolina Baptist Hospital, Winston Salem, North Carolina, Arkansas Children's Hospital, Little Rock, Arkansas.

1993- Astra Pharmaceuticals - "CHEER--The Children's Hospital EMLA Efficacy Research" (\$1,000), Co-Investigator with Laura Morales, R. Ph., Pam Andelman, BSN, RNP. Arkansas Children's Hospital, Little Rock, Arkansas.

1993- Glaxo Pharmaceuticals - "Clinical Evaluation of Ondansetron as an Antiemetic in Pediatric Patients" (\$50,000), Co-Investigator

with David Lawhorn, M.D. Arkansas Children's Hospital, Little Rock, Arkansas.

1994- The Dean's/CUMG Research Development Fund - 1994 "Parent-Assisted Behavioral Intervention for Children's Post-Surgical Pain and Stress Control" (\$6,023.50). Principal Investigator: Debra Fanurik, Ph.D., Co-Investigator: Raeford E. Brown, Jr., M.D. Arkansas Children's Hospital, Little Rock, Arkansas.

2009- University of Kentucky Hospital/Kentucky Children's Hospital Dorothy Brockopp Annual Nursing Research Award "The Role of Cognitive Based Therapy in Management of Children with Dysphagia" Principal Investigator: Carrie E Makin, BSN, Co – investigator: Raeford E Brown, Jr, MD, Marlene Huff, PhD, LCSW, Harohalli Shashidar, MD.

SUBMITTED PROPOSALS

1994- UAMS Foundation Fund Board, Medical Research Endowment Awards. 1995 - "Pediatric IV Insertion: Combining Pharmacological and Behavioral Intervention" (\$4,933.80) Principal Investigator: Jeffrey L. Koh, M.D., Co- Investigators: Debra Fanurik, Ph.D., Raeford E. Brown, Jr., M.D., Michael L. Schmitz, M.D., Joanne Stoner, M.D., Maryelle Vonlanthen, M.D. Arkansas Children's Hospital, Little Rock, Arkansas.

1993- Bristol-Myers Squibb, "Pediatric Pain Management". Investigator: Raeford E. Brown, Jr., M. D. Arkansas Children's Hospital, Little Rock, Arkansas.

The Mayday Fund, "Pediatric Pain Management". Investigators: Raeford E. Brown, Jr., M. D. and Debra Fanurik, Ph. D. Arkansas Children's Hospital, Little Rock, Arkansas.

Med Research Endowment Fund, "Bacterial colonization of middle ear effusions in children with chronic serious otitis media. Investigators: Raeford E. Brown, Jr., M. D., Michael L. Schmitz, M. D., and Terry Yamauchi, M. D. The University of Arkansas for Medical Sciences, Little Rock, Arkansas.

Med Research Endowment Fund, "The development and evaluation of an interactive computer software program for training residents in pediatric anesthesia. Investigators: Raeford E. Brown, Jr., M. D. and J. Michael Vollers. The University of Arkansas for Medical Sciences, Little Rock, Arkansas.

National and International Poster Presentations

"Patient Controlled Analgesia (PCA) for Postoperative Pain Control in Adolescents," American Society of Regional Anesthesia, Annual Meeting, Orlando, Florida, March 1987.

"Epidural Morphine with Butorphanol for Postoperative Analgesia in Pediatric Patients Undergoing Thoracic Procedures," International Anesthesia Research Society, 66th Congress, March 1992.

"Postoperative Analgesia in Pediatric Patients Undergoing Dorsal Rhizotomy Using Epidural Morphine with Butorphanol," International Anesthesia Research Society, 66th Congress, March 1992.

"Topical Lidocaine for Postoperative Analgesia Following Myringotomy Tube Placement," International Anesthesia Research Society, 66th Congress, March 1992.

"Prevention of Postoperative Vomiting in Pediatric Outpatient Strabismus Surgery," American Society of Anesthesiologists, Annual Meeting, Washington, DC, October 1993.

"A Comparative Evaluation of Ondansetron, Droperidol, and Placebo in Prevention of Postoperative Vomiting Following Tonsillectomy and Adenoidectomy in the Pediatric Patient," Annual Meeting, American Society of Anesthesiologists, October 1993.

"Sedation of Children for Dental Procedures", Table Clinic, American Academy of Pediatric Dentistry, 1993.

"Use of Ketamine for Dental Procedure Sedation", Table Clinic, American Academy of Pediatric Dentistry, 1993.

"Ondansetron Dose Response Curve in Pediatric Patients," International Anesthesia Research Society, 68th Congress, March 1994.

"Postoperative Analgesia Following Myringotomy Tube Placement," International Anesthesia Research Society, 68th Congress, March 1994.

"Safety of Regional Analgesia in the Pediatric Patient: A Retrospective Study." American Academy of Pediatrics, Section on Anesthesiology, Annual Meeting, Denver, April 23-35, 1994.

"A Retrospective Comparison of 0.25% Bupivacaine Compared to 0.25% Bupivacaine and Butorphanol in Pediatric Ambulatory Outpatient Procedures," American Academy of Pediatrics, Section on Anesthesiology, Annual Meeting, Denver, April 23-35, 1994.

"Deep Sedation During EGD in Children: Increased Risk of Airway Complications and Need for Intervention." Third International Multidisciplinary Conference on Pediatric Procedural Sedation, Savannah Georgia, May 2008.

"Deep Sedation During EGD in Children: Increased Risk of Airway Complications and Need for Intervention." 2008 Clinical and Translational Science Spring Conference, June 3, 2008 Lexington, Kentucky.

"A Novel Method for Tracking Resident Knowledge in Pediatric Anesthesia" Society for Pediatric Anesthesia/American Academy of Pediatrics Spring Meeting March 22, 2009 Jacksonville, Florida

"The Anesthesia Management of an Infant with an Acquired Tracheoesophageal Fistula in an Infant" Society for Pediatric Anesthesia/ American Academy of Pediatrics Spring Meeting March 22, 2009 Jacksonville, Florida

"A Novel Method for Tracking Resident Knowledge in Pediatric Anesthesia" Society for Education in Anesthesia, Annual Meeting, Seattle, Washington June, 2009

"Training and Certification for Pediatric Sedation Nurses" Harvard Sedation Conference, Boston Sept 12-13, 2009

"Training and Certification for Pediatric Sedation Nurses" Nursing Research Day. University of Kentucky College of Nursing October 2009

"The Challenge of Sedation Scheduling – Balancing Coordination of Care and Workflow Needs" Society for Pediatric Sedation, National Meeting, Louisville, Kentucky. May 23-26, 2010.

"Sedation by Pediatric Nurses; Proposal for Standardized Training and National Certification" Society for Pediatric Sedation National Meeting, Louisville, Kentucky. May 23-26, 2010

"Sedation by Pediatric Nurses: Proposal for Standardized Training and National Certification" Nursing Research Day, University of Kentucky College of Nursing, April 2010.

"Pediatric Procedural Sedation: Standardizing and Validating the Role of the Registered Nurse." Harvard Sedation Symposium San Francisco, California, September 2010.

"Pediatric Procedural Sedation: Standardizing and Validating the Role of the Registered Nurse." University of Kentucky Annual Research Papers Day, November 2010

"Implementation of a Simple but Comprehensive Method to Track Resident Knowledge and Skill Acquisition During Pediatric Anesthesia Training: Impact on its First Graduating Class." International Anesthesia Research Society, Boston, MA. May 2012.

"Implementation of a Simple but Comprehensive Method to Track Resident Knowledge and Skill Acquisition During Pediatric Anesthesia Training." Society for Education in Anesthesia, Seattle, WA, June 2009

"Implementation of a Simple but Comprehensive Method to Track Resident Knowledge and Skill Acquisition During Pediatric Anesthesia Training" Society for Pediatric Anesthesia Jacksonville Florida March 2009

"Perioperative Apnea in a Three Month Old Former Term Infant" Kentucky Society of Anesthesiologists 2014

"Anesthesia Management for an Adolescent with a Large Anterior Mediastinal Mass" Kentucky Society of Anesthesiologists 2014

"Preoperative Checklist – A Method to Communicate Operating Room Readiness" UK Healthcare Enterprise Quality Presentation June 2014

Invited Lectures and Presentations

"Bupivacaine Compared to Bupivacaine and Butorphanol in Pediatric Ambulatory Outpatient Procedures," Third International Symposium on Pediatric Pain, Philadelphia, PA, June 6-9, 1994.

"Patient vs. Clinician Application of EMLA: Effectiveness for Reducing Pain from IV Placements," Third International Symposium on Pediatric Pain, Philadelphia, PA, June 6-9, 1994.

"Caudal Epidural Butorphanol Plus Bupivacaine Versus Bupivacaine in Pediatric Outpatient Genitourinary Procedures," Annual Meeting, American Society of Anesthesiologists, San Francisco, CA, October 1994.

"Ondansetron Dose Response Curve in Pediatric T&A and Strabismus Patients with and Without Oral Metoclopramide Premedicant," Annual Meeting, American Society of Anesthesiologists, San Francisco, CA, October 1994.

"Narcotics vs. Inhalational Agents for Anesthesia in Infants and Children," Triad CRNA Educational Symposium, March 1987.

"IV Agents vs. Inhalational Agents for Anesthesia in Infants and Children," North Carolina State CRNA Convention, October 2, 1987.

"Pediatric Pain Management," Visiting Professor, University of North Carolina, 1987.

"Cardiopulmonary Resuscitation in Pediatric Patients," Caswell County Medical Society, September 1987.

"Pediatric Medical Emergencies," Air Care Educational Outreach Program, April 1988.

Pediatric Advanced Life Support Instructor Kentucky Affiliate, December 1988.

"Unique Aspects of Pediatric Anesthesia," Bowman Gray Surgical Society Meeting, March 17, 1989.

"Pediatric Advanced Life Support," Northwest AHEC, April 11, 1989.

"Pediatric Pain Management," New Mexico Society of Anesthesiologists, April 29, 1989.

"Care of the Tiny Infant." New Mexico Society of Anesthesiologists, April 29, 1989.

"Pediatric Advanced Life Support," Northwest AHEC, December 1989.

"Pediatric Pain Management," Visiting Professor, Children's Hospital National Medical Center, January 1990.

"Pulmonary Physiology and Pulmonary Hypertension in Neonates and Older Children," North Carolina Nurses Association, March 28, 1990.

"Pediatric Pain Management," Visiting Professor, Arkansas Children's Hospital, 1990.

"Pediatric Pain Management," Visiting Professor, University of Florida, Nemours Children's Clinic, October 1990.

"Neonatal Physiology", Visiting Professor, Greensboro Women's Hospital, October 1990.

"Neonatal Emergencies," Visiting Professor, Greensboro Women's Hospital, October 1990.

"Cardiovascular Assessment of the Critically Ill Child," Northwest AHEC, October 4, 1990.

"Pediatric Pain Management," TWIGGS, April 1991.

"Pain Control in Children," Pediatric Grand Rounds, Arkansas Children's Hospital, November 5, 1991.

"Chronic Pain Management in Children," Arkansas Children's Hospital, Medical Staff Presentation, January 21, 1992.

"Care of The Post Anesthesia Pediatric Patient," Post Anesthesia Care Nurses of Arkansas, February 15, 1992

"Pediatric Pain Management," Arkansas Society of Anesthesiologists, Annual Meeting, Little Rock, AR, February 29, 1992.

"Management of Pediatric Trauma," Tennessee Society of Anesthesiologists, Annual Meeting, Memphis, TN, August 15, 1992.

"Acute and Chronic Pain Management in Children," Tennessee Society of Anesthesiologists, Annual Meeting, Memphis, TN, August 15, 1992.

"Anesthesiology Update: 1992," Medical Staff Executive Committee, Arkansas Children's Hospital, October 6, 1992.

"Treatment of Pain in Children," Core Curriculum, Arkansas Children's Hospital, October 14, 1992.

"The Evaluation and Treatment of Pain in Children," Grand Rounds, Alfred I. Dupont Institute of the Nemours Foundation, A Children's Hospital, Wilmington, DE, November, 1992.

"Starting a Pediatric Pain Service," Alfred I. Dupont Institute of the Nemours Foundation, A Children's Hospital, Wilmington, DE, November, 1992.

"Case Discussions in Pediatric Pain Management," Alfred I. Dupont Institute of the Nemours Foundation, A Children's Hospital, Wilmington, DE, November, 1992.

"Trends in Pediatric Anesthesia," Central Arkansas Post Anesthesia Nurses Association, February 1993.

"Unique Aspects of Pediatric Anesthesia," Anesthesia Grand Rounds, Baptist Medical Center, Little Rock, February 1993.

"Effectiveness of Oral Droperidol vs. Oral Metoclopramide vs. Both on Postoperative Vomiting When Used as a Premedicant for Strabismus Surgery," American Academy of Pediatrics, Section on Anesthesiology, Chicago, March 19, 1993.

"Conscious Sedation for Dental Procedures in a Pediatric Hospital," American Academy of Pediatrics, Section on Anesthesiology, Chicago, March 20, 1993.

"Muscle Relaxants, Pediatric Anesthesia, and the Future of Health Care," Organon Corporation, Little Rock, May 4, 1993.

"Trends in the Care of the Post Anesthesia Pediatric Patient," Post Anesthesia Nurses Association of Arkansas, August 1993.

"Evaluation and Treatment of Pain in The Pediatric Trauma Patient," Arkansas Children's Hospital Multidisciplinary Trauma Conference, December 1993.

"The Management of Pain in Children," Psychosocial Forum, Arkansas Children's Hospital, September 1993.

"Evaluation and Treatment of Pain in Children," Visiting Professor, Miami Children's Hospital, October 1993.

"Starting a Pain Service," Visiting Professor, Miami Children's Hospital, October 1993.

"Regional Anesthesia for Pain Relief in Children," Miami Children's Hospital, October 1993.

"Case Studies in Pediatric Pain Management," Miami Children's Hospital, October 1993.

"Chronic Pain Management in Children," Miami Children's Hospital, October 1993.

"The Management of Pain in Children," Medical University of South Carolina, Visiting Professor, November 1993.

"Management of Children after Major Trauma," Medical University of South Carolina, Visiting Professor, November, 1993

"Muscle Relaxants, Pediatric Anesthesia, and the Future of Health Care", Organon Corporation, Monroe, Louisiana, August 1993.

Featured lecture: "Pharmacology of Analgesia in Children", Third International Pediatric Pain Symposium, Philadelphia, Pennsylvania, June 1994.

"Pediatric Pain Management," The Osler Institute, Chicago, September 7, 1994.

"Muscle Relaxants for Pediatric Anesthesia," Arkansas Society of Nurse Anesthetists, Little Rock, September 18, 1994.

"Training Pediatric Anesthesiologists in the United States - Current Trends," Pediatric Anesthesia Study Group, American Society of Anesthesiologists, Annual Meeting, San Francisco, October, 1994

Featured lecture: "Pediatric Regional Anesthesia for Postoperative Pain Management - What's the Big Deal?" Society for Pediatric Anesthesia, Ninth Annual Meeting, San Francisco, October 1994

"Chronic Pain Management in Pediatric Patients," Medical University of South Carolina, Charleston, South Carolina, December, 1994.

"Pediatric Pain Management," Fairfax Hospital, Fairfax, Virginia, February 1, 1995.

"Pediatric Pain Management," North Carolina Baptist Hospital, Winston-Salem, North Carolina, March 29, 1995.

"Chronic Pain Management in Children," Anesthesia Grand Rounds, North Carolina Baptist Hospital, March 29, 1995.

"Malignant Hyperthermia", AHEC Teleconference, April 9, 1996

"Care of Children in the Post Anesthesia Care Unit" Kentucky Society of PACU Nurses April 9, 2002

"Update on Pediatric Anesthesia" Department of Anesthesiology Alumni Retreat April 2003

"Amiodarone in the Management of Atrial Fibrillation During Liver Transplant" University of Kentucky Department of Anesthesiology Grand Rounds September 15, 2002

"Deep Sedation During EGD in Children: Increased risk of airway complications and need for interventions" American Academy of Pediatrics National Conference and Exhibition October 27 – 30, 2008 San Francisco, California

"The Effects of Anesthetics on the Developing Brain" University of Kentucky Department of Anesthesiology Grand Rounds January 9, 2009.

"The Effects of Anesthetics on the Developing Brain" International College of Surgeons Annual Meeting Montreal, Canada June 2009.

"Anesthesia Management of Infants with a Congenital Tracheo-Esophageal Fistula" University of Kentucky Department of Anesthesiology Grand Rounds April 15, 2008.

"Use of the LMA in Pediatric Sedation" Division of Critical Care Mortality and Morbidity Conference, April 2009

"Errors in Medicine – The Fixation Error" Department of Anesthesiology Grand Rounds June 2009

"Errors in Medicine – The Fixation Error" Department of Pediatrics, Division of Critical Care Medicine M and M Conference, August 2009

"Errors in Medicine – The Fixation Error" Department of Pediatrics, Community Grand Rounds September 16, 2009

"Capnography for Pediatric Sedation – Why Do We Even Bother?" Department of Pediatrics Division of Critical Care Mortality and Morbidity Conference September 29, 2009

Moderator, Poster Session, SPA-AAP Spring Meeting San Antonio Texas April 2010

Faculty Development Seminar – Promotion and Tenure: Develop your CV and get promoted at the University of Kentucky January 12, 2010

"Fospropofol – It's Not Charley Milk!" University of Kentucky Department of Anesthesiology Grand Rounds February 3, 2010

"The Impossible Airway" University of Kentucky Department of Anesthesiology Grand Rounds March 10, 2010.

Lukens, F and Brown, R. "Should this Child be Extubated? A Clinical Dilemma. "University of Kentucky Department of Anesthesiology Grand Rounds April 1, 2010.

Brown, RE. "The Deteriorating Patient: A Seminar for Nurses" University of Kentucky Medical Center, September, 2010

Brown, RE. "The Deteriorating Patient: A Seminar for Nurses" University of Kentucky Medical Center December 2010

Brown, RE. "The Deteriorating Patient: A Seminar for Nurses" University of Kentucky Medical Center, March 2011

Brown and Sparks "A Twelve Year Old With a Large Anterior Medias-tinal Mass" Department of Anesthesiology University of Kentucky August 14, 2013

Brown and Duling "Possible Aspiration in a Patient on Induction of General Anesthesia" Department of Anesthesiology University of Kentucky Medical Center January 29, 2014.

Featured lectures: Brown, RE "The Deteriorating Patient – Nurse as Hero" Annual Meeting of the Kentucky Nurses Association October 12, 2014

Brown, RE "Review of the California Society of Anesthesiologists Win-ter Meeting 2014" Anesthesiology Grand Rounds University of Ken-tucky March 19, 2014

Brown, RE "Spontaneous Death – What is the Answer?" Department of Anesthesiology Grand Rounds University of Kentucky Medical Center August 26, 2014

Brown, RE "What We Know, What We Think We Know, and What We Don't Know" Grand Rounds Department of Anesthesiology Universi-ty of Kentucky Medical Center August 12, 2015

Brown, RE "The Deteriorating Patient: A Seminar for Nurse Residents" UK Healthcare Nursing Residency Program October 2015

Brown, RE "The Development of Evidence Based Practice Parame-ters" Anesthesiology Grand Rounds October 2014

Brown RE "Tracheal Agenesis" Anesthesiology Grand Rounds August 2014

Brown RE "Report to the Committee on Drugs" American Academy of Pediatrics November 3, 2016

Brown RE " Report to the Committee on Substance Use and Preven-tion" American Academy of Pediatrics December 2016

Featured lecture: Brown, RE “The Opioid Epidemic in Kentucky: A Failure of Regulation?” Featured Speaker Kentucky Society of Anesthesiology Annual Meeting March 12, 2017

Featured lecture: Brown, RE “The Politics of Opioid Regulation and the FDA” International Anesthesia Research Society May 7, 2017 Washington, D.C.

Brown, RE “Children, families, and opioids; Where do we go from here?” American Academy of Pediatrics National Conference September 2019

Brown, RE “ Opioid regulation in the U.S.; Where Do We Go From Here?” Cincinnati Children's Medical Center Department of Anesthesiology, Acute and Chronic Pain Medicine Division November 8, 2017

Featured Lecture: Brown, RE “Why Did They Say That, Why Did They Do That? The FDA's Role in the Development and Regulation of Pharmaceuticals in the U.S.” Stanford University Department of Anesthesiology Grand Rounds, October 2, 2017

Brown, RE “ The Toxicity of General Anesthetic Agents in the Developing Brain” Pediatric Grand Rounds University of Kentucky College of Medicine 2018

Featured lecture: Brown, RE “The Abuse Deterrent Opioids – Why Do they Disappoint?” International Conference on Opioid Use Boston June 2018

Brown RE “The Toxicity of General Anesthetic Agents in the Developing Brain” Presentation to the Pediatric Surgical Group University of Kentucky Medical Center. The Kentucky Children's Hospital February 20, 2018

Featured Lecture – “The FDA and Neurotoxicity of Anesthetic Agents in Young Children” The American Society of Anesthesiologists San Francisco, CA October 2018

Welcoming Comments – Joint Meeting of the American Academy of Pediatrics Section on Anesthesiology and Pain Medicine and The Society for Pediatric Anesthesiology – March, 2018

Featured Lecture “The Safety of Anesthetic Drugs – Regulatory Perspective” APSF Stoelting Conference Phoenix Arizona September 4 – 5, 2018

“Why Did They Say That? Why Did They Do That? A Perspective on the Food and Drug Administration” Oregon Health Sciences University Grand Rounds November 2018

Featured lecture: “Retiring from the Practice of Anesthesiology” – National Meeting of the American Society of Anesthesiologists. San Francisco October 15, 2018

Featured Lecture: “The Science of Addiction in Adolescents” Society for Pediatric Pain Medicine National Meeting Houston, Texas March 2019

National and International Panels

“Anesthesia for Painful Procedures Outside the Operating Room,” American Society of Anesthesiologists Meeting, Washington, DC, October, 1993

“Children Vs. Painful Medical Procedures: An Integrated Approach to Winning the Battle,” Third International Symposium on Pediatric Pain, Philadelphia, Pennsylvania, June, 1994

“What Are the Trends in Modern Anesthesia Care for Children?” Joint meeting of the Society for Pediatric Anesthesia and the American Academy of Pediatrics, Section on Anesthesiology, Scottsdale, Arizona, February 15, 1995

“Trends in Anesthesia Care for Children” Joint meeting of the Society for Pediatric Anesthesia and the American Academy of Pediatrics, Section on Anesthesiology, Tampa, Florida, February 1996

"Perioperative Management of Children," American Society of Anesthesiologists, Annual Meeting October 1998. – I was the Chair of this panel as well as a speaker.

"Training Anesthesiologists About Affective Disorders" Society for Education in Anesthesia, Annual Meeting, Seattle, Washington June 2009

"The Pharmacology of the Epidural Space," Panel on the Management of Epidural Analgesia in Infants and Children. SPA/AAP Spring Meeting San Antonio, Texas April 2010

Moderator, Point-Counterpoint: "The use of narcotics for tonsillectomy in children" Annual Meeting of the American Society of Anesthesiologists, San Diego California, October, 2010

International Anesthesiology Research Society Annual Meeting 2017
Opioids: A Problem from Hell. Regulation and Recovery; the Politics of Opioid Regulation, May 12, 2017

PBLD – "Exploratory laparotomy in a 1000 gram infant – What else can go wrong?" American Society of Anesthesiologists Convention Las Vegas NV 2004

PBLD - Chau and Brown - Pulmonary Valvuloplasty in an infant with Noonan's Syndrome and Severe Hypertrophic Subaortic Stenosis (IHSS) SPA/AAP Joint Spring meeting San Antonio, Texas April 2010

PBLD – "When your age appropriate adolescent patient refuses surgery but mom urges you to proceed...because after all, she is a minor." Destiny Chau, MD, Rae Brown, M.D. Society for Pediatric Anesthesiology Spring Meeting, April 2011.

Panel discussion – "The Toxicity of General Anesthetic Agents in the Developing Brain" The American Society of Pediatric Otolaryngologists National Meeting April 22, 2018 with Lisa Wise-Faberowski, M.D. FAAP, "Where Are We Now and Where Are We Going?"

Panel Discussion - "Retiring from the Practice of Anesthesiology" American Society of Anesthesiologists Annual Meeting Committee

on Physician Health Panel 2018

Panel Discussion - Reduction in the Use of Opioids through Multimodal Analgesia - SPA Panel - American Society of Anesthesiologists San Francisco, Ca. October 2018

Panel Discussion – “The Toxicity of General Anesthetic Agents in the Developing Brain American Society of Anesthesiologists Annual Meeting San Francisco California October 2018

Expert Panel – International Conference on Opioids - Harvard University June 11, 2018

Visiting Professorships

University of North Carolina, Chapel Hill, NC. January 1987

Children's Hospital National Medical Center, Washington, DC. January 1990

University of Florida, Nemours Children's Clinic, Jacksonville, FL. October 1990

Arkansas Children's Hospital, Little Rock, AR. September 1990

Greensboro Women's Hospital, Greensboro, NC. October 1990

Alfred I. Dupont Institute of the Nemours Foundation, A Children's Hospital, Wilmington, DE. November 1992.

Miami Children's Hospital, October 6-8, 1993.

Medical University of South Carolina, November 1993.

Fairfax Hospital, Fairfax, Virginia, February 1995.

Bowman Gray School of Medicine, Department of Anesthesiology, March 29, 1995

University of Nebraska Medical Center, September 5-7, 1995.

University of Iowa, College of Medicine, March 1997

Penn State/Geisinger Medical Center, February 1998

University of Texas Southwestern Medical School May 2001

Nationwide Children's Hospital Columbus Ohio July 2016

Stanford University Department of Anesthesiology Packard Children's Hospital October 2017

Cincinnati Children's Medical Center Department of Anesthesiology Multidisciplinary Pain Medicine Service November 8, 2017

Seattle Children's Medical Center University of Washington Department of Anesthesiology Seattle Washington Spring 2018

The Oregon Health Sciences University Portland Oregon November 2018

Cincinnati Children's Medical Center Department of Anesthesiology Multidisciplinary Pain Medicine Service 2019

Consultant to Industry, Government, and the Pediatric and Anesthesiology Academic Community

Abbott Labs, Ad Hoc Consultant on Pediatric Pain Management, March 8-9, 1993. – Worked with Abbott labs to develop legislative agenda.

Organon Corporation, Ad Hoc Consultant on Pediatric Anesthesia, June 1993. Worked with Organon on the original design of short acting steroid nucleus based muscle relaxants.

Datex Corporation - Ad Hoc Consultant on Pediatric Anesthesia, May 4, 1993. - Asked to assist in the design of specialized monitors for children in the operating rooms and in the intensive care units

Astra Pharmaceuticals -1993.

Abbott Labs, Clinical Consultant-Annex Pain Service Consulting Program - 1993-1996.

Organon Corporation - Denver, Colorado, June 1995. – Further development of short acting, steroid nucleus based muscle relaxants

University of North Carolina, Department of Anesthesia, July 1995 – Asked to assist in the development of the Pediatric Pain Management Service for the UNC Hospital System

Hudson Valley Hospital; Westchester County, New York, March 1997 – Asked to consult by the Department of Health of the State of New York on quality issues in the state related to Pediatric Anesthesiology

Doernbecher Children's Hospital, Oregon Health Sciences University, January 1998

Cook-Fort Worth Children's Hospital, January 1998

Dallas Children's Hospital, January 1998

University of Texas Southwestern Medical Center 2001

Ohio State University Medical Center 2007

Special Consultant to the Food and Drug Administration of the Department of Health and Human Services Center for Drug Evaluation and Research December 11, 2015

Special Consultant to the Food and Drug Administration of the Department of Health and Human Services Center for Drug Evaluation and Research September 1, 2016

Special consultant to the Center for Drug Evaluation and Research, Food and Drug Administration Department of Health and Human Services January 2017

Special Consultant to the Center for Drug Evaluation and Research, Food and Drug Administration, Department of Health and Human Services, July 25, 2017

Special Consultant to the Center for Drug Evaluation and Research, Food and Drug Administration, United States Department of Health and Human Services August 24, 2017

Physician Care Guide – Curadux LLC. September 12, 2016

PANDA Symposium – Invited Participant New York Columbia University April 14 – 15, 2018 “The Neurotoxicity of Anesthetic Agents in Young Children”

TEACHING

Bowman Gray School of Medicine, North Carolina Baptist Hospital

Coordinator:

Pediatric Anesthesia Training Program Department of Anesthesia	1987-90
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Anesthesia Resident Morbidity and Mortality Conference Monthly	1987-90
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Monthly Medical Student Lectures:

“General Anesthetic Agents”

“Pediatric Advanced Life Support”

“Pediatric Anesthesia”

“The Treatment of Pain in Children”

Anesthesia Resident Lectures:

“The care of the Tiny Infant”

“Newborn Physiology and Its Impact in the Surgical Patient”

“Managing the Difficult Pediatric Airway”

“Regional Analgesia and Pain Management in Children”

“Pediatric Advanced Life Support”

“The Treatment of Septic Shock”

Pediatric Critical Care Nurses Lectures:

“Respiratory Physiology and Pharmacology”

“The Treatment of Shock in Children”

“Pain Control in Children”

“Advanced Pediatric Life Support”

Pediatric Resident Lectures:

Symptom Management in Children”

“Respiratory Pharmacology in Children”

“The Treatment of Medical Emergencies in Childhood”

“Respiratory Physiology and Pharmacology”

“The Treatment of Shock in Children”

“Pain Control in Children”

“Advanced Pediatric Life Support”

Arkansas Children's Hospital, University of Arkansas for Medical Sciences

Anesthesia Resident Lectures:

"Acute Pain Management"

"Neuroanatomy and Neurophysiology of Pain"

"Pain Management in Children"

"Local Anesthetic Agents"

"General Anesthetic Agents"

"Medical Management of the Pediatric Surgical Patient"

"Newborn Physiology"

"Case Studies in Pediatric Anesthesia"

"Difficult Airway Symposium"

"Management of Patients with Chronic Pain"

"Regional Anesthesia in the Treatment of Chronic Pain"

"Managing Managed Care"

"The Diagnosis and Treatment of Malignant Hyperthermia"

"Brain Protection"

Pediatric Resident Lectures:

"Acute and Chronic Pain in Children"

"Case Studies in Pediatric Pain Management"

"Management of the Difficult Pediatric Airway"

Medical Student Lectures:

“The Anatomy, Pharmacology, and Physiology of Pain”

“Shock”

“General Anesthetic Agents”

“Postoperative Pain Management”

“Aspiration Pneumonia”

Child Psychiatry Fellow Study Group:

“Assessing and Treating Pain in Children” This presentation was given twice a year from 1992 – 1998.

University of Kentucky College of Medicine

Resident Lectures

“Care of the Neonate with Pyloric Stenosis”

“Stress Management in the Neonate”

“An Approach to Pediatric Anesthesia”

“Regional Anesthesia in Newborns and Infants”

“Omphalocele and Gastroschisis”

“Pediatric Anesthesia: The Newborn in the Operating Room”

“Care of the Pediatric Patient in The Post Anesthesia Care Unit”

“Billing and Compliance for the Anesthesiologist-A Three Part Series”

“Management of Malignant Hyperthermia in the Surgical Patient”

“Premedication-Special Circumstances”

“Practice Management-Billing, Risk management”

“Practice Management-Professional liability, quality improvement”

“Practice Management-contracts and contracting”

“Management of infants with a Tracheoesophageal Fistula”
“Management of Hypoxemia in the Surgical Patient”
“The Effects of General Anesthetic Agents on the Developing Brain”
“Regional Anesthesia for Pain Control in Children”
“PACU Management of the Pediatric Patient”
“Physiology and Pharmacology in Neonates”
“Update on Pediatric Anesthesia 2010”
“Anesthetic Considerations for Patients with an Anterior Mediastinal Mass”
“Pulmonary Hypertension in Infants and Children “
“Complications of Anesthesia”
“Choosing the Appropriate Induction Agent for Your Patient
“Premedication of the Surgical Patient – Pharmacology and Special Circumstances”
“ITE Review – Anatomy – 2014”
“Basic Anatomy for Anesthesiologists”
“Basic Anatomy 2 for Anesthesiologists”
“Anesthesia Implications of Newborn Emergencies”
“The Effect of General Anesthetic Agents on the Development of the Nervous System of Infants and Children”
“Neonatal Surgical emergencies”

Medical Student Lectures

“Care of the Newborn in the Operating Room”
“Overview of Pediatric Anesthesia”

Pediatric Grand Rounds Lecture

“Pain Management is Pediatrics”

ADVISING ACTIVITIES**Pediatric Anesthesia Fellows**

Avis Chen-Bolton, M.D.	Joanne Stoner, M.D.
Deidre Leong, M.D.	Michelle McClellan, M.D.
Ted Johnston, M.D.	Camille Colomb, M.D.
Jimmy Chamness, M.D.	Melissa McCleod, M.D.
David Huggins, M.D.	Jeff Yuskevich, M.D.

Mentees 1990 - 2018

Joanne Stoner, M.D.	Julie Wasse Miller - Lewis, M.D.
Tonya Palermo, PhD.	Victoria Bradford, M.D. MBA
Cobin Soelberg, M.D., MA, LLD	Sarah Hall, M.D., PhD
Alyssa Burgart, M.D.	Amy Judge, M.D.
Rachel Sloan, M.D.	Aru Reddy, MBBS
Gregory Rose, M.D.	Lara Duling, M.D.
Allison Burton, M.D.	Hannah Baker, M.D.
Heather Bradley, RN, DNP	Blake Windsor, M.D.
Dale Harrison, PhD, MPH	Melissa Anderson, PharmD, M.D.
Cara Sparks, M.D.	Robert Weaver, M.D.

PUBLICATIONS**Book Chapters**

1. Nopanitaya W, Brown RE Jr., Grisham JW, Carson JL. Ultra structural alterations in sinusoidal endothelial fenestrae as a result of hypoxia in: Bailey GW (ed.). *Proceedings: 34th Annual Meeting Electron Microscopy Society of America*. Miami, FL: August 9-13, 1976. Baton Rouge, LA: Claitor's Publishing, 1976:168-169.
2. Brown R. Negative pressure pulmonary edema. In: Berry FA (ed.). *Anesthetic management of difficult and routine pediatric patients*. New York: Churchill Livingstone, 1986:169-178.
3. Brown R. Post airway obstruction pulmonary edema. In: Berry FA (ed.). *Anesthetic management of difficult and routine pediatric patients*. New York: Churchill Livingstone, 1990: 363-371.
4. Brown, RE. Mask Ventilation. In: Fiser (ed.). *Illustrated Textbook of Pediatric Emergency and Critical Care*. Mosby. 1994.
5. Stoner J, Brown RE. Maxillofacial Trauma in Pediatric Patients. *International Anesthesiology Clinics*, 1994.
6. Brown RE. Pharmacology of Non-Narcotic Analgesics in Children. Third International Symposium of Pediatric Pain, Philadelphia, Pennsylvania, 1994
7. Brown RE. Care of Children with Pain. *Expert Pain Management*. Springhouse Corporation, 1996.
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SPA Newsletter Fall Report of the Chair of the Section on Anesthesiology and Pain Medicine, American Academy of Pediatrics

Anesthesiology Toolbox – Pediatric Anesthesiology National Curriculum

Co - Chair with Rita Agarwal M.D. (Stanford University – Packard Children's Hospital)

Curriculum for the First Resident Month on the Pediatric Anesthesiology Service

Curriculum for the Second and Subsequent Months on the Pediatric Anesthesiology Service

Primary Editor for the Pediatric Anesthesiology National Curriculum

Author: Recognizing and Treating the “Sick” Child Pediatric Section of the Anesthesiology Toolbox Curriculum for Residents in Anesthesiology

Society for Pediatric Pain Medicine

Opioid Diversion and Abuse – Its Effects on Children and What is Being Done (Fall 2016)

The Fifth Vital Sign (Spring 2017)

The FDA Med Watch Warning – What Does it Mean for Pediatric Anesthesiologists and Pain Practitioners? (Spring, 2017)

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Report of the Incoming Chair of the Section on Anesthesiology and Pain Medicine of the American Academy of Pediatrics – Fall 2017

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April 8, 2018

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Pain Medicine The American Academy of Pediatrics

Review of the 2017 Update of the AAP statement on the Safety of the
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Review of the 2017 Update of the JCAHO guidelines for Pain Management in Healthcare Organizations

Co-author, "Guidelines for the Management of Chronic Pain in Children and Adolescents" 2017

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Review of "Field Guide to Transport Medicine"

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“ What is carfentanyl and why should I be concerned about it?”

“ The Impaired Worker – Not About Drugs and Alcohol Anymore”

“ The Effect of Heroin on American Society” March 20, 2017

Administrative Support Documents – Medical Director of Perioperative Services - University of Kentucky Medical Center

1. “Billing Compliance for Residents - Avoiding Fraud and Abuse”
2. “Capital Equipment Plan for the Operating Rooms at the University of Kentucky Medical Center”
3. “Cleaning the Operating Rooms at the University of Kentucky Medical Center”
4. “Code of Conduct for the Operating Rooms at the University of Kentucky Medical Center”
5. “Pediatric Perioperative Health Assessment Questionnaire”
6. “Disciplinary Plan for Anesthesiologists at the University of Kentucky Medical Center”
7. “General Principles for Posting Cases at the Ambulatory Surgery Center – UK Healthcare”
8. “Preoperative History and Physical Form for the Enterprise”

9. "Work Product for the Preparation of the Anesthesia Work Site Before, During, and After Cases in the Operating Rooms at the University of Kentucky Medical Center"
10. "Value Stream Analysis for Perioperative Services at the University of Kentucky Medical Centers"
11. "Anesthesia Technician Responsibilities in the Operating Rooms at the University of Kentucky Medical Center"
12. "Anesthesia Initiatives for 2004 – A Report to the Enterprise"
13. "A Collaborative Work Place"
14. "Operating Room Safety at the University of Kentucky Medical Center"
15. "Successes for the First Year – A report to the Enterprise"
16. "Standardized Hand Off Documentation for Perioperative Services at the University of Kentucky"
17. "Perioperative Services Executive Group Administrative Plan"
18. UK Healthcare Mortality Trend Analysis June 13, 2011

Educational Materials Executive Vice Chair Department of Anesthesiology
Division Chief – Pediatric Anesthesiology and Pain Medicine
The Kentucky Children's Hospital
Author and Primary Instructor: Raeford Brown, M.D.

"Pediatric Anesthesia – The Newborn in the Operating Room"

"Everything That You Must Know About Malignant Hyperthermia"

"Medical Management of Pediatric Patients"

- “Important Skills for the Pediatric Anesthesiologist”
- “Induction of Anesthesia in Pediatric Patients”
- “Pediatric Airway Obstruction”
- “Room Set-up for the Perioperative Care of a Neonate”
- “Anesthetic Management for an Infant with Pyloric Stenosis”
- “Neonatal Apnea in the Postsurgical Patient”
- “Problem Based Learning – An Infant with a Tracheoesophageal Fistula”
- “Problem Based Learning – An Adolescent with Duchene’s Muscular Dystrophy for Scoliosis Repair”
- “Managing Anesthesia Care for Patient’s Outside of the Operating Room”
- “Managing Children with Congenital Heart Disease”
- “How Do We Know that the Endotracheal Tube is in the Right Place?”
- “The Rules: What I Have Learned in Twenty Years of Taking Care of Kids”
- “Problem Based Learning – An Eleven-Year-Old with Sleep Apnea for Tonsillectomy”
- “Problem Based Learning – An Infant with Pyloric Stenosis”
- “Problem Based Learning – An Infant with an Intussusception”
- “Pre-operative Evaluation of Surgical Patients”
- “Problem Based Learning – An Eight Year Old with Bronchiectasis and Pulmonary Hypertension for Thoracotomy and Pneumonectomy”
- “An approach to the detection and management of arrhythmias in the deteriorating patient”
- “Fospropofol: what you need to know.”

“PBLD – Preoperative Evaluation of Difficult Cases”

“Prevention of cardiac arrests in pediatric perioperative patients”

“Hypercarbia in an Infant”

“Principles of Neonatal Pharmacology”

“The Rapid Response Team: First Steps”

“The Rapid Response Team at a Glance”

“Premedication for the Surgical Patient – Special Circumstances”

“Sedation Related Complications”

“Apnea in Premature Infants after Sedation”

“Why Do Intravenous Drugs Work?”

“Providing Sedation for Children Outside of the Operating Room”

“The Diagnosis of Pain in Children”

“The Management of Pain in Children”

“Nonpharmacological Methods for the Management of Pain in Children”

“Regional Anesthesia for the Management of Pain in Children”

“Epidural Pharmacology in Infants and Children”

“The Rules – 2010: More of what I have learned in 25 years of taking care of kids.”

“PBLD – Crystalloids vs. Colloids – Which, When, and How Much?”

“The Development of Respiratory Failure in the Adult Patient”

“Cardiopulmonary Resuscitation – What is New in 2010?”

“Perioperative Care of Children with Spasticity

“Taking Care of Babies”

“Rules for the Management of Children with Multiple Co-Morbidities”

“The Psychosocial Development of Infants and Children”

“Other Important Issues Relating to the Management of Children and Their Parents”

“Pediatric Anesthesia: The Definitions”

“Managing Children with Down Syndrome in the Perioperative Period”

“PBLD - Resuscitation of a Critically Ill Neonate”

“PBLD - An Infant with an Airway Foreign Body”

“PBLD - The Child with Septicemia”

“PBLD - Managing an Infant with a Palliated Hypoplastic Left Heart”

“PBLD - Managing Children with Congenital Heart Disease”

“Curadox” - Immunizing your Organization Against the Opioid Epidemic

“PBLD - An Infant with Respiratory Failure Requires ECMO”

“PBLD - Perioperative Management of Children with Hemoglobinopathies”

“Pediatrics for the Anesthesiologist”

“An Introduction to Pediatric Anesthesia – Managing Infants and Children During the Perioperative Period”

“PBLD - Trauma care for Anesthesiologists”

“Choosing the Right Induction Agent for Your Patient”

"ITE Review Anatomy for Anesthesiologists – January 2014

"Perioperative Aspiration in the Perioperative Patient"

"Prevention of Cardiac Arrest in the Pediatric Patient"

Curriculum For the UK Healthcare Rapid Response Team
Medical Director, Rapid Response Team 2009-2010
Author and Primary Instructor: Raeford Brown, M.D.

"Background – Are Rapid Response Teams Effective?"

"Airway Management for the Rapid Response Team"

"Diagnosis and Treatment of Shock for the Rapid Response Team"

"Clinical Judgment and Decision Making for the Rapid Response Team"

"Communication for Members of the Rapid Response Team"

"Rapid Response Team – Unknowns"

"Respiratory Failure in Children"

"Assessment of Arterial Blood Gases for the RRT"

"Analysis of Chest X Rays for the Rapid Response Team"

"Protocols for the Management of Patients by the Rapid Response Team"
UK Healthcare 2010

"Rapid Response Team Problem Based Learning Discussions"

"Advanced Monitoring for the Rapid Response Team"

"Why do Patients Deteriorate in a Hospital?"

"An Approach to the Evaluation of Arterial Blood Gases by the Rapid Response Team"

“The Diagnosis and Treatment of Hypoxemia in Deteriorating Patients”

“An Approach to the Diagnosis and Treatment of Sepsis in Hospitalized Patients”

“Hypercarbia and Airway Obstruction in Hospitalized Patients”

“An Approach to Reading and Analyzing the EKG in Hospitalized Patients”

Curriculum for the Departmental Journal Club
and Evidence Based Medicine Training
Department of Anesthesiology
The University of Kentucky Medical
Center

“Critical Reading of the Medical Literature”

“What We Know, What We Think We Know, and What We Don't Know”

“Should I Do a Fellowship After Residency?”

“Basic Statistical Analysis for the Anesthesiologist”

“Survival Bias – What's it all about?”

“Evidence Based Medicine – How Do We Establish the Evidence?”

“The Importance of Probability in Medical Research and the Meaning of $P < .05$.”

“Subgroup Analysis – Can We Trust the Numbers?”

“Study Design – Blinding”

“Goodness of Fit test”

“Chi Squared Test – Application, Appropriate Data, Appropriate Use”

“T-test – Paired vs. Unpaired”

“Intention to Treat”

“Odds Ratio Calculation”

“Clinical Trials – Power of the Study”

“Type 1 and Type 2 Error”

“Standard Error of the Mean vs. Standard Deviation – Calculation and Definition”

“ANOVA calculations”

“Sensitivity vs. Specificity”

“Bias in Biomedical Research”

“What is the Evidence? – What do Guidelines Really Tell Us?”

Pediatric Anesthesia Website

www.wildcatanesthesia.com/subspecialties/pediatric/anesthesia

Pediatric Anesthesia Blog

Pediatricanesthesia100.blogspot.com

An interactive website designed to educate anesthesia providers about the art and science of pediatric anesthesia:

1. “What do we learn from children?”
2. “The medical management of infants and children”
3. “The safety of our children”
4. “The children that we are seeing now”

5. "Recognizing a sick baby"
6. "Postoperative management of infants after major abdominal surgery"
7. "Preoperative behavioral stress in children"
8. "Pain: What is it?"
9. "Sedation for diagnostic and therapeutic procedures in children"
10. "The traumatized child"
11. "Questions that parents should ask when their child is having surgery"
12. "Talking to Parents"
13. "Taking care of children with pulmonary hypertension "
14. "An anesthesiologist can make a difference"
15. "Important skills for a pediatric anesthesiologist"
16. "Managing infants and children with congenital heart disease"
17. "Rae's rules for the diagnosis and treatment of pain in children"
18. "What We Know, What We Think We Know, and What We Don't Know"
19. "Critical Reading of the Medical Literature"
20. "Pediatric Anesthesia – An Opportunity to Teach, Learn, and Reflect"
21. "Her Work is Done"
22. "Hypoxemia in Children"

23. "Talking to Parents about Their Chronically Ill Child"
24. "The Common Touch"
25. "As If Your Child's Life Depended on It"
26. "The Importance of a Good Nurse"
27. "What We Know, What We Think That We Know, and What We Don't Know"
28. "The Psychosocial Development of Infants and Children"
29. "Pyloric Stenosis"
30. "Mediastinal Masses"
31. "Pediatrics for the Anesthesiologist"
32. "Rae's rules for the diagnosis and treatment of pain in infants and children"
33. "Clown Doctors"

Web Presentations for the Educational Program in Pediatric Anesthesiology The University of Kentucky Medical Center

"Care of the Child with Congenital Tracheo-esophageal Fistula"
- I Tunes U 2008

"Regional Anesthesia for Children" I Tunes U 2009

"Premedication – The Special Case" I tunes U 2009

"Anterior Mediastinal Masses"

"Neonatal Surgical Emergencies"

"Pediatric Pain Management"

“Post Anesthesia Recovery for Infants and Children”

“Managing Hypoxemia in Infants and Children”

“Neonatal Physiology and Pharmacology: Its Application to Pediatric Anesthesia”

“Pulmonary Hypertension in Infants and Children”

“Basic Anatomy for Anesthesiologists”

“Treatment of Children with Carcinoid Syndrome” Orphan Anesthetics – Internet data base for rare diseases

Rae Brown, MD.com - Advocacy for Children and their Families

June 14, 2017 Welcome to Advocacy for Children and Their Families

June 15, 2017 Her Work is Done

June 20, 2017 Delta Female

June 20, 2017 Mendacities Told to Children for the Good

June 20, 2017 Opioid Abuse Disorder is a Medical Illness and it Can be Treated

Computer Based Learning Modules

University of Kentucky Chandler Hospital

“Sedation for Physicians “

A five-part training module co-authored with Robert Rapp, PhD as a portion of the credentialing process in sedation for UK Healthcare.

“Capnography for Pediatric Sedation”

Training module for nursing staff of UK Healthcare as a part of the credentialing process for sedation

Pediatric Pain Management – Topics of the Week
The Kentucky Children's Hospital

1. Pain – What is it?
2. Anatomy and Physiology of Pain.
3. The Pain Free Children's Hospital

Pediatric Anesthesiology Subspecialty Conference, Department of Anesthesiology University of Kentucky Medical Center

“Hypoxemia in Infants and Children” October 23, 2009

“Pulmonary Hypertension in Children” September 2009

“Pediatric Anesthesia Update 2009”

“Rae's Sedation Rules 2009”

“Learning to Manage the Airway in an Infant – A Video Presentation “

“Post Anesthesia Recovery for Infants and Children”

“Pain Control in Pediatrics”

Virtual Subspecialty Conference, Pediatric Anesthesia Department of Anesthesiology University of Kentucky Medical Center

March 2015 – Prevention of Cardiac Arrest in Infants and Children During the Perioperative Period

April 2015 – Introduction and “Let's Talk Tonsils.”

May 2015 – Neonatal Pharmacology – Why is it So Difficult?

**Pediatric Critical Care Subspecialty Conference, Department of Pediatrics,
The Kentucky Children's Hospital**

"Management of the Difficult Airway in Critically Ill Children"

"Placement and Use of the Laryngeal Mask Airway in the Critically Ill Child and During Sedation Management"

Televised Media Interview

1997 Pediatric Anesthesia, Gannett Newspapers, (Interview).

1997 "Care of Children after Massive Snakebite"

1992 KARN "The Treatment of Pain in Children"

1992 KTHV Arkansas Children's Hospital Telethon
"Treating Children with Pain"

1993 KIST "Treating Pain in Children"

1993 KARN "Care of the Anesthetized Child"

2017 KAXN Austin Texas
"Opioids in Children. When is Enough Too Much?"

Investigative report on the overuse of opioids in children and the impact on their mental and physical health.

2018 KAXN Austin Texas Live Interview – Opioids in Children

This report on the use of opioids was given in response to a request by the American Academy of Pediatrics

2018 CBS “Sixty Minutes” Interview by Sam Hornblower, Associate producer, New York, July 18, 2018

2018 CBS “Sixty Minutes” Interview by Sam Hornblower, Associate producer July 21, 2018

2018 CBS, “Sixty Minutes” Interview by Bill Whitaker, Journalist and reporter August 20, 2018

2018 CBS, “Sixty Minutes” National Presentation on Opioids and the FDA October 2018

Print and Web Media

- | | |
|------|--|
| 2010 | “Safe sedation for infants and children at the Kentucky Children’s Hospital” <u>The Lexington Herald Leader</u> |
| 2014 | “Pediatric Anesthesia – On the Cutting Edge of Modern Medical Care” – Pediatric Pulse – Winter 2014 Kentucky Children’s Hospital |
| 2009 | “Hospital Mortality Drops “Dr Rae Brown Explains One Effort that has Contributed to the Positive Results” |
| 2015 | “FDA panel approves new abuse deterrent opioid” Health.com September 15, 2015 |
| 2015 | “FDA Panel Likes New Abuse-Deterrent Opioid” Medpage Today September 16, 2015 |

- 2015 "FDA Panel Recommends Approval of ER Abuse-Deterrent Oxycodone" Medscape Medical 16, 2015
- 2015 "Extended-Release Anti-deterrent Oxycodone OK'd by FDA Panel" Awesome Investors.com September 16, 2015
- 2015 " FDA panel recommends approval of ER Abuse deterrent oxycodone" Web MD September 10, 2015
- 2015 "FDA Panel Recommends ER Abuse-Deterrent Oxycodone" ChronicPainSite.com September 15, 2015
- 2015 " FDA panel urges stronger regulation of codeine" medipix.com December 11, 2015
- 2015 "Codeine containing medications are unsafe for kids under 18" Soundofheart.org December 2015
- 2016 "FDA Panel – Codeine Containing Medications are Unsafe for Kids" Before It's News.com January 25, 2016
- 2016 "FDA medical advisors are saying that medications containing codeine should not be given to children and most teens to treat pain or cough." Natural Society.com
- 2016 "FDA panel votes for IR opioid, but without abuse deterrence labeling" As it Happens Update – Medscape
- 2016 " FDA panel urges stronger regulation on codeine" MedpageToday.com

- 2016 "FDA panel rejects deterrence label for IR opioid"
MS Insider.com
- 2016 "FDA Panel Backs Teva's New Abuse Deterrent
Opioid" Reuters June 6, 2016
- 2016 "FDA panel favors Teva's abuse deterrent opi-
oid" Weekly Biotech Report June 6, 2016
- 2016 " FDA panel backs new abuse deterrent opioid
for Teva" Asia Pacific News June 6, 2016
- 2016 FDA panel backs Teva's abuse-resistant opioid
painkiller Pharma focus Asia (India) June 7,2016
- 2016 " FDA Panel backs Teva's abuse resistant opioid"
Fox News June 6, 2016
- 2016 "U.S. FDA panel backs approval of Pfizer's abuse
deterrent opioid pain killer" London Daily Mail
- 2016 "Pfizer, Inc. pain killer gets approval" Reuters
- 2016 "Update 1- U.S. FDA panel backs approval of
Pfizer's opioid painkiller" Reuters UK (United King-
dom) June 7,2016
- 2016 "FDA panel backs approval of Pfizer's opioid
painkiller" The Malaysian Times June, 7, 2016
- 2016 "FDA panel backs approval of Pfizer's opioid
pain killer" SRN News (United States) June 7, 2016
- 2016 "FDA's Advisory Committee backs use of Collegi-
um Pharmaceutical's Xtampza ER" Topnews.in
(India)
- 2016 " Pfizer abuse deterrent opioid gets mixed re-
views" Medical Newser.com

- 2016 "FDA panel backs Teva's abuse-resistant opioid" Dailynews724.com June 7, 2016
- 2016 " Pfizer opioid gets mixed reviews from FDA advisory committee" HealthCareNews247.com
- 2016 " Pfizer's Troxyca gets mixed review from FDA advisors" InvestorsHub.com
- 2016 " Kempharm sinks on advisory committee decision" Bioworld.com
- 2016 "FDA panel backs Teva's abuse resistant opioid pain killer" CNBC June 7, 2016
- 2016 "FDA panel votes to modify REMS for pain killers" Pain medicine news.com
- 2016 " An experimental pain killer can be manipulated for abuse" Nanonews.com
- 2016 "FDA panel backs Teva's abuse resistant opioid pain killer" Fox News June 8, 2016
- 2016 "Pfizer's Troxyca gets mixed reviews from FDA panel" Medpage Today June 8, 2016
- 2016 "FDA panel backs Teva's abuse resistant opioid" Psychcongress.com
- 2016 "FDA panel backs TEVAs abuse resistant painkiller" Equilibrio Informativo (Venezuela) June 9, 2016
- 2016 " FDA panel backs Teva's abuse resistant opioid" www.the-rheumatologist.org
- 2016 "FDA panel backs abuse resistant opioid" Pharmedlive.com

- 2016 "FDA Panel: Physician opioid training should be mandatory" www.medscape.com May 6, 2016
- 2016 "Opioids continue to kill citizens in the Commonwealth" Lexington Herald Leader Op Ed July 2016
- 2016 "Opioid Abuse Disorder is a Medical Disease, and Can be Treated" Lexington Herald leader Op Ed September 7, 2016
- 2016 "FDA panels backs abuse deterrent Arymo ER for severe pain" Medscape August 10 2016
- 2016 "FDA Panels vote for IR opioid but without abuse deterrent labeling" Medpagetoday.com June 8, 2016
- 2016 "FDA panel backs approval of Pfizer's opioid painkiller" HealthmediciNet.Com June 7, 2016
- 2016 "FDA panels votes to modify REMS for painkillers" Pharmacy Practice News May 5, 2016
- 2016 "FDA Panel: Physician opioid training should be mandatory" Operationunite.com May 6, 2016
- 2016 "Advisors say FDA's opioid REMS program needs revision" ASHP.com June 2016
- 2016 "FDA panel recommends approval of ER abuse deterrent oxycodone" booksfornurses.com September 12, 2015
- 2016 "FDA committee votes to modify REMS for pain killers' spcontinuum.com May 5, 2016
- 2016 "FDA Advisory Committees Consider the Future of Research on Opioids in Children" Medscape Neurology – Interview on September 16, 2016

- 2016 "More data needed on opioid use in kids" Medpage Today September 16, 2016
- 2016 " FDA panel supports greater community access to naloxone" RxList.com October 7, 2016
- 2016 " FDA advisory group supports more community access to naloxone" KiddyGalaxy.com September 20, 2016
- 2016 " FDA panel backs Teva's abuse-resistant opioid" Localnews7.com June 7,2016
- 2016 "FDA panel reviews opioids in kids" Medscape.com September 19, 2016
- 2016 " Experts weigh naloxone dose as opioid crisis evolves" ASHP November 9,2016
- 2016 "FDA panel supports greater community access to naloxone" Diabetes Care October 6, 2016
- 2016 "FDA panel supports greater community access to naloxone" WebMD October 6, 2016
- 2016 " FDA panel reviews opioids in kids" Diabetes Care September 18, 2016
- 2016 "FDA panel recommends approval of Egalet abuse deterrent opioid" The Philadelphia Inquirer August 6, 2016
- 2016 "FDA Advisory Committee reviews opioids in kids" WebMD September 18, 2016
- 2016 " Pfizer Inc opioid painkiller gets approval recommendation" Bidness etc. June 8 2016

- 2016 "FDA approves Israel based Teva's abuse resistant opioid" Breitbart.com June 7, 2016
- 2016 "FDA Panel backs approval of Pfizer's opioid painkiller" Pharmafocus (Asia) June 8, 2016
- 2016 "Pfizer's opioid painkiller can be manipulated for abuse" Solonews.net June, 7 2016
- 2016 " U.S. FDA panel backs approval of Pfizer's opioid pain killer" Reuters June 7, 2016
- 2016 " FDA panel backs approval of Pfizer's opioid painkiller" HealthMediciNet.com June 7, 2016
- 2016 " FDA Advisory Committee recommends banning OTC codeine sold to children" Orthopedics Today December 15, 2015
- 2015 " FDA Advisory Panel: Restrict use of codeine in kids" United Healthcare December 10, 2015
- 2016 " Response to FDA Med Watch: Toxicity of General Anesthetics in Infants and Children" UK Healthcare December 14 2016
- 2016 "Response to FDA Med Watch: Toxicity of General Anesthetics in Infants and Children" American Society of Anesthesiologists, Society for pediatric Anesthesiology, American Academy of Pediatrics Joint Statement December 16, 2016
- 2016 "FDA panel backs Teva's abuse-resistant opioid Equilibrio Informativo (Venezuela) June 9,2016
- 2017 " FDA Issues Med Watch Warning About the Use of Anesthetics and Sedatives in Children Under Age Three – AAP Leads a Coordinated Response" AAP News February 2017

- 2017 "AAP responds to FDA warning on anesthesia use in children" AAP News January 10, 2017
- 2017 "Brown Chairs Key FDA Committee on opioid analgesics" University of Kentucky News April 11, 2017
- 2017 "AAP, ACOG respond to FDA warning on sedation, general anesthetics in infants." Healio January 13, 2017
- 2017 "Brown Pens Response to FDA Med Watch Warning on the Safety of anesthetics in Children less Than Three years of Age" University of Kentucky News April 12, 2017
- 2017 "FDA panel recommends approval of abuse deterrent IR Opioid" Medscape April 6, 2017
- 2016 "FDA advisory committee reviews opioids in kids" Mederi Pain Bulletin November 30, 2016
- 2017 "UK anesthesiologist lends expertise to FDA opioid review committee" MedWatch UK April 28, 2017
- 2017 "FDA panel recommends approval of abuse deterrent IR opioid" Diabetes Care April 5, 2017
- 2017 "FDA panel recommends approval of abuse deterrent opioid" Breast Cancer Research April 7, 2017

- 2017 " Household opioids put young people at risk; don't delay disposing of them." Lexington Herald Leader June 4, 2017.
- 2017 "Knowing how to respond to a drug overdose could save a life" Kentucky.Com July 15, 2015
- 2017 "Household opioids put young people at risk" Feed from the American Society of Anesthesiologists to Facebook June 6, 2017
- 2017 "Household opioids put young people at risk" Kentucky.com June 6, 2017
- 2017 " Household opioids put young people at risk" Kentucky Living Healthcare column July 2017 edition
- 2017 " Household opioids put young people at risk" American Society of Anesthesiologists News Feed June 21, 2017
- 2017 " FDA advisors vote down oxycontin copy" Med Page Today July 27, 2017
- 2017 " FDA committee nixes opioid with blue dye deterrent" Medscape July 27, 2017
- 2017 "Knowing How to Respond to a Drug Overdose Could Save a life" Lexington Herald Leader July 16, 2017
- 2017 " Reacting to an Overdose – How to Obtain and Use the "Angel" Therapeutic Naloxone" University of Kentucky News July 17, 2017

- 2017 "D.C. week skinny repeal Bill was a fat failure
"Med Page Today (New Jersey) – July 28, 2017
- 2017 "Wrong on so many levels: What we heard this
week." Medpage Today (New Jersey) July 27,
2017
- 2017 "FDA advisors vote down OxyContin copy"
Medpage Today (New Jersey) July 25, 2017
- 2017 "Wrong on so many levels" MedHealthNews.net
(Turkey) – July 27, 2017
- 2017 " FDA Committee nixes opioid with blue dye de-
terrent" Diabetes Care July 26, 2017
- 2017 "FDA Committee nixes opioid with blue dye de-
terrent" Breast Cancer Research July 26, 2017
- 2017 "Wrong on so many levels" – What we heard this
week" Med Page Today July 28, 2017
- 2017 "Advice from 2016 Joint Meeting of the Drug
Safety and Risk Management with the Anesthetic
and Analgesic Product Advisory Committee on
changes in the REMS program for Opioids" FDA
January 25, 2017
- 2016 "Who believes that medical errors are the third
leading cause of Hospital Deaths? " Medscape
May 26, 2016

- 2017 "SPA-AAP Update August 2017 Newsletter of the Society for Pediatric Anesthesiology"
- 2017 " Questions to ask when your doctor prescribes opioids" Lexington Herald Leader
- 2017 "Four Principles to Guide the National Response to the Opioid Crisis" The Hill
- 2017 "The answer to opioid overdose – Naloxone" The Richmond Register July 21, 2017
- 2018 "FDA Advisory Committee rejects new ER opioid" Medscape June 26, 2018
- 2018 "FDA Panels nix new abuse deterrent opioid" Med Page Today June 26, 2018
- 2018 "Do More with Less – What We Heard This Week" Medpage Today June 29, 2018
- 2018 "Abuse Deterrent Opioid Formulations: Barriers to Broader Use" Clinical Pain Advisor August 9, 2018

Web presentations – Linked In

1. "The Psychosocial Development of Infants and Children"
2. "Talking to Parents About Their Chronically Ill Child"
3. "What We Know, What We Think We Know, and What We Don't Know"

4. "As if Your Baby's Life Depended on it: Bias in Medical Research"
5. "The Importance of a Good Nurse"
6. "The Common Touch"
7. "The Public Health Crisis of Our Time"
8. "The Fifth Vital Sign"
9. " Drug Safety of Anesthetic Agents in Infants and Children"
10. "The Public Health Crisis of Our Time – Redux"
11. "Naloxone Use in The Community"
12. "The Education of Opioid Prescribers Must Be Broad and Deep; And it must be Mandated"
13. " Statement by the Chair of the FDA Advisory Committee on Anesthetic and Analgesic Drug Products to the public and the press" - Advisory Committee meeting July 26, 2017
14. " Four Principles to Guide the National Response to the Current Opioid Crisis"
15. " Questions to Ask Your Physician When they Prescribe Opioids
16. " Opioids Are a National Emergency - Now What?"
17. " Why I Write on Linked In."
18. Opioids in the U.S. – "What About the Next Generation?"
19. "Guns in Society – Protecting Our Children"
20. " The FDA Should Mandate Opioid Education for All Prescribers"

Current and Past Research Protocols

A comparison of ketorolac and morphine for post strabismus repair analgesia in children.

Ondansetron: Prevention of nausea and vomiting following outpatient surgery.

Caudal epidural butorphanol in pediatric ambulatory patients.

A comparative study of fentanyl/bupivacaine, morphine/butorphanol/bupivacaine, and morphine/butorphanol administered by epidural in pediatric patients.

A randomized, double blind, placebo-controlled, multicenter study of intravenous ondansetron for the treatment of postoperative emesis in pediatric patients undergoing outpatient surgery.

Parental application of EMLA: Is it effective in reducing pain from needle sticks?

Parent-assisted behavioral interventions for children's post-surgical pain and stress control.

Behavioral intervention combined with EMLA cream for IV placement in young children.

Effectiveness of EMLA for pediatric IV insertion: Influence of anxiety and a distraction intervention.

Treatment room versus hospital room: Nurse preferences for the performance of pediatric acute painful procedures.

Multi-arm study of oral premedicants for dental sedation: Safety and Efficacy.

Multi-arm study of epidural analgesics in pediatric patients.

Sub-acute bacterial endocarditis prophylaxis in-patients requiring middle ear-ventilating tubes.

Phase IV study of rocuronium--an ultra-short onset muscle relaxant in infants and children.

Study of the propofol syndrome in laboratory animal models of intensive unit patients

Propofol flush: Does early administration of propofol after placement of an IV produce amnesia for the IV placement

Cognitive behavioral therapy for abdominal pain in adolescents

Airway complications in children having esophagoduodenoscopy

Research Interests

Evaluation of techniques of clinical pain management in infants and in children.

Evaluation of the safety of sedation protocols for children.

Neurobiology of the stress response in infants and children - effects of stress management on the outcome of critically ill children.

Health care financing and public health applications of pediatric anesthesia care.

Development of coping skills related to pain and painful procedures in children.

Development of a laboratory model for the propofol Infusion syndrome

Developing palliative care programs for children

Development of systems to evaluate the safety of patients in academic medical centers.

Opioid management in children with chronic pain. Impact on development of family morbidity and mortality

Development of chronic pain in children with a family history of pain or substance abuse

Defining the safe use of opioids in children and adolescents

Development of novel analgesics with low abuse and addiction potential

Creating an international consortium for clinical drug trials in infants and children

Opioid regulation by the FDA in relation to current Federal Statutes.

Ethical Concerns in Providing Informed Consent for Children Having General Anesthesia

The Toxicity of General Anesthetic Agents in the Developing Nervous System of Humans